# APPENDIX D
## Geotechnical Investigation

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ASSOCIATED SOILS ENGINEERING, INC.
Consulting Geotechnical Engineers

# REPORT OF GEOTECHNICAL INVESTIGATION

**Proposed New Public Safety Facility and Parking Zone**

**Northeast Corner of Acacia Parkway and South Euclid Street**

**City of Garden Grove, California**

**Prepared For:**

**City of Garden Grove**

**11222 Acacia Parkway**

**Garden Grove, California 92842**

**Project No. 7109.23** **April 14, 2023**

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ASSOCIATED SOILS ENGINEERING, INC.
Consulting Geotechnical Engineers

April 14, 2023
Project No. 7109.23

**CITY OF GARDEN GROVE**
11222 Acacia Parkway
Garden Grove, California 92842

Attention: Mr. Mark Uphus

Subject: **Report of Geotechnical Investigation**
Proposed New Public Safety Facility and Parking Zone
Northeast Corner of Acacia Parkway and South Euclid Street
City of Garden Grove, California

Dear Madam/Sir:

Presented herewith is the Report of Geotechnical Investigation (the Soils Report) prepared by Associated Soils Engineering, Inc. (ASE) for the proposed New Public Safety Facility (the PS Facility) and Parking Zone (the Parking Structure) development, located at the northeast corner of Acacia Parkway and South Euclid Street, in the City of Garden Grove (the City), California (the Site). This work was conducted in accordance with ASE's Proposal No. P23-019, dated February 3, 2023, which subsequently received the City's authorization.

The subject geotechnical study was planned and performed based on the relevant development information provided by the City.

The purpose of this investigation was to perform the geotechnical field, laboratory and office services required, to review the proposed new police department building and parking structure along with drive and parking reconfiguration, to perform on-site infiltration feasibility study to facilitate stormwater Low Impact Development (LID) planning and design, and to provide (by a sub-consultant) a Phase I Environmental Site Assessment.

ASE's geotechnical investigation has concluded that the planned development of the PS Facility and the Parking Structure, inclusive of all likely appurtenant structural improvements, are geotechnically feasible, provided that the recommendations and design guidelines with respect to site grading, ground modification and foundation construction presented in this Soils Report are incorporated in project planning and design and implemented during construction. In addition, this Soils Report also compiles 1) the findings and data of ASE's field investigation, 2) the results of ASE's laboratory testing, 3) the results of site-specific geological/seismic hazard analysis, and 4) the measured results from on-site percolation testing and the calculated infiltration rates.

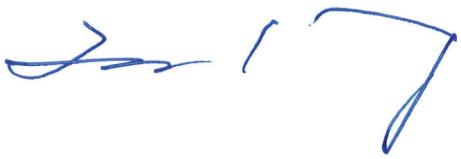
We at ASE appreciate the opportunity of providing our professional services for this important project and look forward to assisting the City during subsequent design and planning, permitting, bidding, site grading, ground modification, and foundation construction phases of this project.

If you have any questions or require additional information, please contact this office.

Respectfully submitted,
**ASSOCIATED SOILS ENGINEERING, INC.**



Torin Ng, EIT
Project Engineer

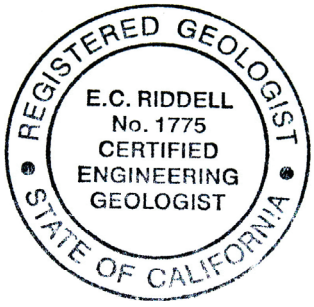


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# 1.0 INTRODUCTION

This Soils Report presents the results of ASE's geotechnical investigation for the proposed New Public Safety Facility (the PS Facility) and Parking Zone (the Parking Structure) development, located at the northeast corner of Acacia Parkway and South Euclid Street, in the City of Garden Grove (the City), California (the Site). The approximate location of the Site is shown on the Site Location Map, Figure 1. The purpose of this study was to evaluate the general subsurface soil conditions at the Site and provide geotechnical recommendations for the design and construction of the planned development of the PS Facility and the Parking Structure, inclusive of all likely appurtenant structural improvements, in compliance with the pertinent criteria stipulated in the 2022 Edition of California Building Code (2022 CBC) and the ASCE Standard 7-16, as well as the requirements of California Geologic Survey (CGS). Presented in this Soils Report are the summary of the field data collected, the laboratory test results obtained, the assessments of potential geological/seismic hazards at the Site and suitable mitigation measures, and the geotechnical conclusions and recommendations for site grading, ground modification, and foundation design and construction.

## 1.1 Project Description

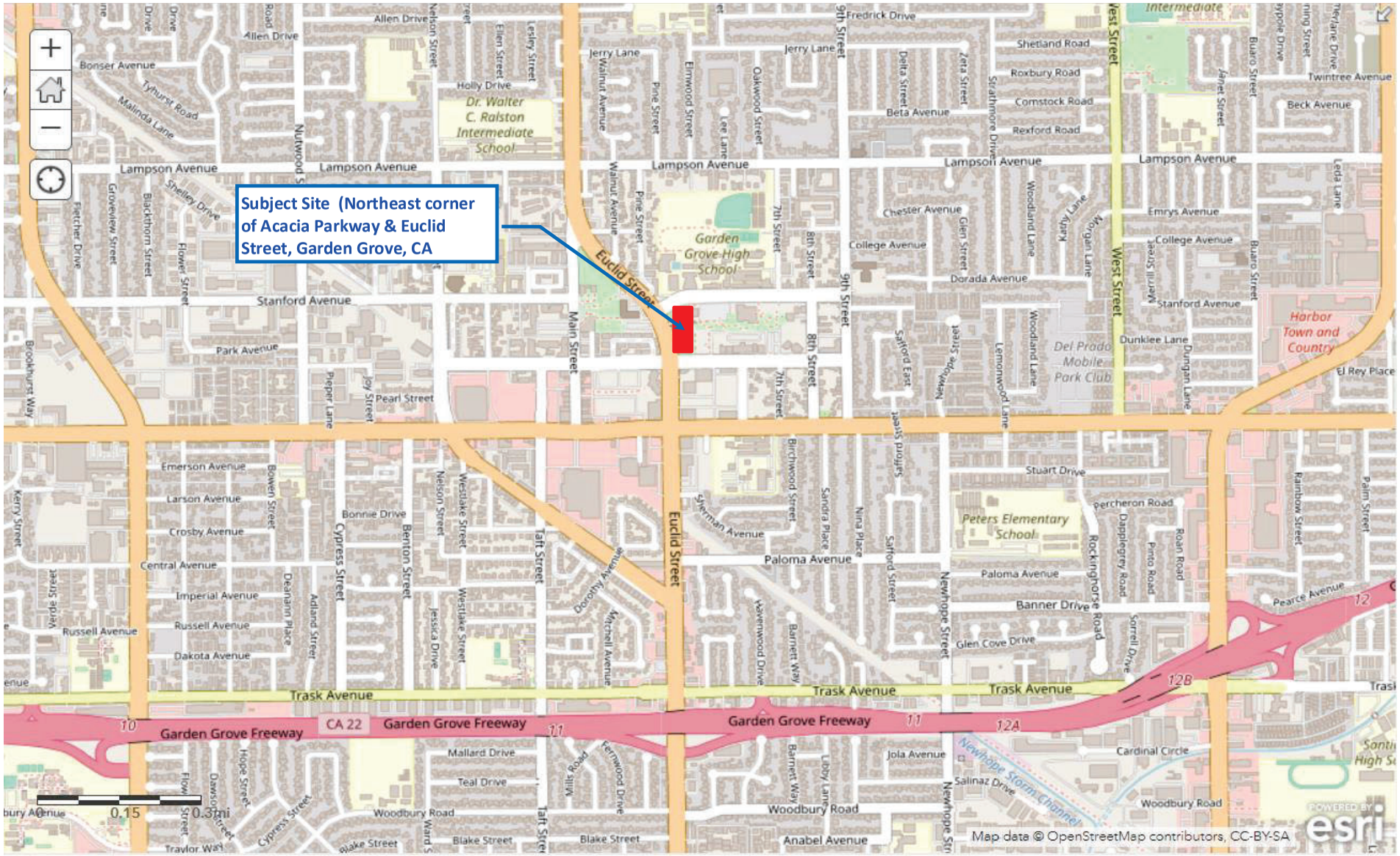
ASE understands that the following project information provided by the City is applicable at the time of preparation of this Soils Report.

### 1.1.1 Building/Development Outline:

The proposed new roughly 87,000-square-foot police department building (the PS Facility) is proposed in the western portion of the Site, whereas the proposed 3-4 level parking structure (the Parking Structure) is proposed on the eastern portion of the property. Appurtenant construction will likely include the associated drives, parking reconfiguration, exterior flatwork, walkways, utility connections, landscaping, hardscaping, and stormwater LID facilities.

### 1.1.2 Structural Loading for Geotechnical Analyses:

While the structural loading information was unavailable to ASE at the time of this Soils Report preparation, for the purpose of relevant foundation analyses, ASE has assumed that the PS Facility and/or the Parking Structure could be supported by isolated pad footings and continuous spread footings tied with grade beams, with maximum concentrated column load (D + L) on the order of 150 kips, and with a maximum line load (D + L) not exceeding 4,500 pounds per linear foot (plf). Alternatively, the PS Facility and/or the Parking Structure could be supported by a mat foundation with a distributed load (D + L) not exceeding 1,500 pounds per square foot (psf). In response, tolerable total and differential static settlements resulted from the aforementioned structural loadings have been assumed to be on the order of three-quarter (3/4) inch and one-half (1/2) inch over a 30-foot linear distance, respectively, for the footing foundation approach. For the mat foundation approach, tolerable total static settlements at the center and the corner of mat





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# Site Location Map

| | |
|---|---|
| Proj. Name: | **Proposed Public Safety Facility**<br>**NEC Acacia Pkwy & Euclid St., Garden Grove** |
| **Figure 1** | Proj. No.: **7109.23** |
| | Date: **April, 2023** |

foundation resulted from the aforementioned structural loadings have been assumed not to exceed one (1) inch and one-half (1/2) inch, respectively, with a corresponding differential static settlement between the center and the corner of mat foundation not to exceed one-half (1/2) inch.

Appurtenant structural improvements outside of the footprints of the PS Facility and/or the Parking Structure are anticipated to be supported by conventional continuous footings with line load not exceeding 1,500 plf and isolated pad footings with concentrated load not exceeding 15 kips, which are anticipated to incur total and differential static settlements no greater than one-half (1/2) inch and one-quarter (1/4) inch over a 30-foot distance, respectively.

## 1.2 Scope of Geotechnical Investigation

In accomplishing the subject study and investigation, ASE's staff had performed the following geotechnical tasks:

A. Review of readily available background information, including in-house geotechnical data, geotechnical literature, geologic maps, seismic hazard maps, and literature relevant to the Site. The Site area has been located on the Anaheim Quadrangle Seismic Hazards Map and is located within a "Seismic Hazards Zone" or "Zone of Required Investigation" as defined in the Seismic Hazards Mapping Act of the State of California Division of Mines and Geology.

B. Conducting of a geotechnical site reconnaissance to observe the general surficial soil conditions at the Site and to select and mark suitable exploratory boring locations and Cone Penetrometer Test (CPT) test locations, followed by notification to Underground Service Alert of the planned boring locations 72 hours prior to field exploration.

C. Implementation of a field exploration program consisting of drilling five (5) exploratory borings to depths ranging from 26 feet 6 inches to 51 feet 6 inches below respective existing grades and two (2) percolation test borings, one to 5 feet deep and the other to 10 feet deep. ASE staff logged and sampled representative soils encountered in each exploratory boring as well as set up, pre-soaked and measured on-site infiltration rates in each percolation test boring. Locations of the exploratory borings and percolation test borings on the Site are shown on Plate A, Boring and CPT Test Locations Plan, in Appendix A.

D. Deployment of a CPT rig performing continuous profiling of soil strata at five (5) pre-selected test locations to approximately 70 feet deep from respective existing grades. These CPT tests were to generate continuous soil profiling information at the CPT test locations for the performance of seismic site hazard analysis. Continuous profiling of soils encountered was logged by on-board data acquisition instrument then converted into corresponding soils property values and types (see Summary of Cone Penetration Test Data, in Appendix G) by Kehoe Testing & Engineering, the CPT sub-contractor. The converted soil profiling data were submitted to ASE for subsequent

documentation and analysis. The CPT test locations are shown on the Boring and CPT Test Locations Plan, Plate A, in Appendix A.

E. Field percolation testing at two (2) pre-selected test location to measure infiltration rates of site soils for the zones from 0 to 5 feet deep and from 5 to 10 feet deep required for the planning and design of stormwater Low Impact Development (LID) system. The approximate locations of percolation test holes on the Site are shown on the Boring and CPT Test Locations Plan, Plate A, in Appendix A.

F. Laboratory testing on retrieved representative soil samples for classification and for determination of pertinent engineering properties.

G. Engineering analyses of data obtained from literature review, site investigation and laboratory testing covering the following aspects:

- Evaluation of general subsurface conditions and description of types, distribution, and engineering characteristics of subsurface materials.
- Assessment of geologic/seismic hazards based on the pertinent criteria required by the California Geological Survey (CGS) and the California Building Code, 2022 Edition (2022 CBC; Reference 6).
- Performance of site-specific geohazard analysis and assembly of site-specific seismic design parameters in compliance with the relevant requirements of 2022 CBC, ASCE 7-16, CGS Note 48 (Reference 24), Cal/OSHA Title 8, and local ordinances.
- Analysis and recommendation of suitable ground modification measure consisting of vibro stone columns (VSC's) based on the identified and quantified geohazards, in particular the significant liquefaction hazard at the Site. The VSC's are to be overlain by a layer of Geosynthetic-Reinforced Lateral Transfer Platform (GRLTP) that, in turn, supports the loading from the foundations of overlying superstructures and spreads the loading across the underlying VSC's. A compacted fill of two (2) feet thick is recommended to be placed over the GRLTP to form the finish subgrade supporting slabs-on-grade and to allow for buried utility installation within building footprint.
- Recommendations of footing foundations tied with grade beams covering minimum dimensions, allowable bearing capacity, estimated static settlement, and lateral resistance, upon implementation of the recommended VSC ground modification measure and GRLTP subgrade reinforcement layer for the PS Facility and/or the Parking Structure.
- Recommendations of reinforced concrete mat foundation as an alternative for supporting PS Facility and/or the Parking Structure and conventional footing foundations for appurtenant structural improvements, covering allowable bearing capacity, estimated settlement, and lateral resistance.
- Recommendations of design and construction of CIDH short piers for light standard, flag pole and signage support.

- Evaluation of the suitability of on-site soils for foundation support, followed by establishment of qualification criteria for on-site or imported fill material and recommendations of site remedial grading, especially for the mat foundation alternative, and subgrade preparation for other ancillary structural improvements.
- Recommendations of temporary excavation, shoring and trenching.
- Recommendations of subgrade preparation for slab-on-grade, flatwork, AC pavements, and PCC pavements together with recommendations of minimum section thicknesses for slab-on-grade, AC, and PCC for different loading and/or traffic conditions.
- Evaluation of the corrosion and expansion potential of the on-site soils.
- Calculation and presentation of design infiltration rates of site soils for stormwater LID facility planning and design.

H. Preparation of this Soils Report presenting the work performed, findings logged and data analyzed, followed by summarization of our conclusions and geotechnical recommendations for the mitigation of identified geologic/seismic hazards, for the support of the PS Facility and/or the Parking Structure with suitable foundation systems, including reinforced subgrade layer, for remedial grading needed for the different foundation systems, for preparation of subgrade soils for appurtenant structural improvements, flatworks and pavements, for foundation design, including CIDH short pier, for appurtenant structural improvements, and for design of slab-on-grade, flatworks, AC pavements and PCC pavements. The calculated design infiltration rates are also presented in the Soils Report

I. Preparation (by the sub-consultant, SCS Engineers) of a Phase I Environmental Site Assessment (ESA) Report for the Site.

*Please note that ASE's geotechnical investigation did not include any evaluation or assessment of hazardous or toxic materials which may or may not exist on or beneath the site. ASE does not consult in the field of potential site contamination/mitigation.*

## 2.0 SITE AND SUBSURFACE CONDITIONS

### 2.1 Location, Boundary Conditions and Existing Development

The Site is located at the northeast corner of the intersection of Acacia Parkway and South Euclid Street in the City of Garden Grove, California. The roughly 2¾- acre Site currently consists of parking lots and a public park, with the Garden Grove Main Branch library to the north and a fire station to the east.

## 2.2 Subsurface Conditions

2.2.1 Artificial Fill (af):

Artificial fill was not observed in any of ASE's exploratory borings but may be present in other areas of the Site, or could be encountered during site grading, subject to the observation and confirmation of the Geotechnical Consultant.

It should be noted that, due to the nature of CPT probing, soils could not be differentiated as fill or native material through the advancement of the CPT cone.

2.2.2 Younger Fan and Alluvium Deposits (Qyfa):

Native site soils consisting of Holocene-age younger fan and alluvium deposits were encountered on site in the exploratory borings to the maximum explored depth of 51 feet 6 inches. Per Reference 5, the younger fan and alluvium deposits are characterized as unconsolidated sand, silt and clay deposits associated with the lowlands of the San Gabriel and Santa Ana Rivers and Coyote Creek. In specific, the on-site fan/alluvial deposits consist of silty sands, sands, sandy silts, clayey silts, silts with clay, and silty clays.

Blow counts recorded from advancing Standard Penetration Test (STP) sampler and Modified California barrel sampler empirically indicate that the granular, sandy strata of on-site younger fan/alluvial deposits soils are in a loose to very dense condition, whereas the fine-grained, cohesive strata (i.e. silts/clays) generally exhibit stiff to very stiff consistencies. Site subsurface soils were, in general, in a dry to wet condition within the explored depths at the time of ASE's site investigation.

More detailed descriptions of soils encountered and conditions observed during the subsurface exploration are shown in the Field Logs of Boring, Plates B-1 through B-5, the Field Logs of Percolation Boring, Plate B-P1 and B-P2, together with information including soil classification, depths and types of soil samples, blow counts, field dry densities and moisture contents, corresponding laboratory tests performed. Additional information of encountered subsurface soils covering cone resistance, sleeve resistance, pore pressure, and soil behavior type is shown on pages 1 through 5 in the Appendix section of the "Summary of Cone Penetration Test Data" report dated February 16, 2023 prepared by Kehoe Testing & Engineering, Inc., attached in Appendix G.

## 2.3 Groundwater and Caving

During ASE's field investigation, groundwater was encountered at depths of 35 feet in Boring B-5 and 37 feet in Boring B-1, with no groundwater encountered in other shallower exploratory borings. Published data in Reference 5 appears to indicate that the historic high groundwater level in the Site vicinity is 10 feet deep. The Site elevations range from 84 feet to 88 feet above Mean Sea Level (MSL) per Google Earth.

Groundwater information available from the State of California Department of Water Resources website (www.water.ca.gov/waterdatalibrary/groundwater/hydrographs) and State of California Water Resources Control Board Geotracker website (http://geotracker.waterboards.ca.gov) is tabulated below:

| Database | State Water Data Library | | State Geotracker |
|---|---|---|---|
| **Well No.** | 337779N1179480W002 | 05S10W04E001S | MW-6R; CHEVRON #9-2153 |
| **Approximate Location** | 10597 Stanford Ave | 13441 Barnett Way | 11162 Garden Grove Blvd |
| **Distance from the Site** | 0.6 mile West | 0.7 mile south | 0.2 mile south |
| **Well Elevation (ft MSL)** | 87.865 | 87.010 | 85 |
| **Highest GW Reading (ft below ground surface)** | 62.15 | 46.2 | 24.31 |
| **Highest GW date** | 5/24/1994 | 10/26/1983 | 12/26/2007 |
| **Recent GW Reading (ft below ground surface)** | 91.71 | 46.2 | 27.58 |
| **Recent GW date** | 12/12/2022 | 10/26/1983 | 12/23/2013 |

It should be noted that seasonal and long-term fluctuations in the groundwater may occur as a result of variations in subsurface conditions, rainfall, run-off conditions and other factors. Therefore, variations from observations made by ASE may occur, as the exploratory borings implemented by ASE were not meant to function as groundwater monitoring wells and the duration of ASE's field exploration was relatively short.

The use of hollow-stem augers during drilling precluded observation of potential caving conditions which may have otherwise occurred in an uncased hole. Caving and/or sloughing were not measured during the extraction of auger stem at the completion of boring operations, or in the CPT test holes. However, caving and/or soil sloughing may be likely in excavations greater in dimension than our exploratory borings.

### 2.4 Utilities

No overhead utilities were observed in the area of the PS facility during ASE's site investigation. However, underground and overhead lines are present which service the adjacent structures and facilities, and are along the site bordering street. Other utilities, though not known at the time of this report preparation, may be present on site, and should be located and incorporated into site development plans accordingly.

## 3.0 GEOLOGY

### 3.1 Regional Geologic Setting

The Site is located in the Central Block of the Los Angeles Basin. The Los Angeles Basin is a large northwest trending synclinal depression at the southern end of the Transverse Ranges and at the north western end of the Peninsula Range geomorphic Provinces of California. The Central Block is bounded by the active Newport-Inglewood Fault Zone (located 7.6 miles (12.2 km) southwest of the Site) and the active Whittier Fault Zone (approximately 11.6 miles (18.6 km) north of the Site).

### 3.2 Geologic and Soil Units

3.2.1 General:

The native geologic and soil units encountered in the borings, and extending within the explored depths on the Site consist predominantly of Holocene Age fan and alluvium deposits derived from the San Gabriel and Santa Ana Rivers and Coyote Creek. The following section discusses the on-site alluvial soils in more detail.

3.2.2 Holocene-Age Younger Fan and Alluvium Deposits (Qyfa):

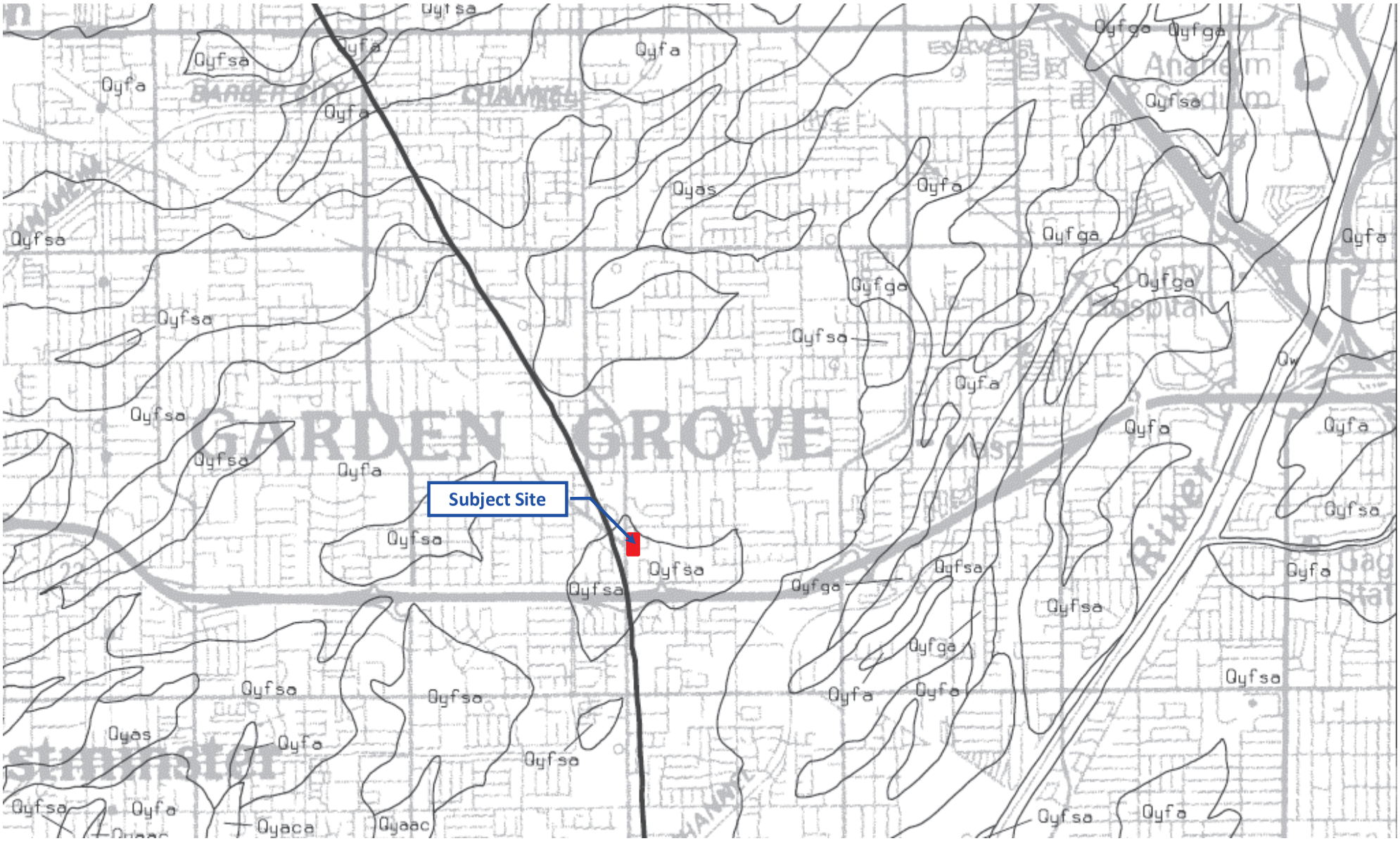
Per Reference 5, soils within the unit of younger fan and alluvium deposits were deposits associated with the lowlands of the San Gabriel and Santa Ana Rivers and Coyote Creek. Soils within the unit were found to predominantly consist of sand, silt, and clay. In specific, on-site alluvial soils predominantly contain silty sands, silty sands with clay, sands with silt, sands, sandy silts, sandy silts with clay, clayey silts, clayey silts with sand, silts, silts with clay, silts with sand, silts with clay and sands, silty clays, and clays. Figure 2, Local Geologic Map, excerpt from CGS (Reference 5), shows Quaternary geology in the Site vicinity.

## 4.0 FAULTING AND SEISMICITY

Garden Grove, like the rest of southern California, is located within a seismically active region as a result of being located near the active margin between the North American and Pacific tectonic plates. The principal source of seismic activity is movement along the northwest-trending regional faults such as the San Andreas, San Jacinto, Newport-Inglewood and Whittier-Elsinore fault zones.

By the definition of CGS, an active fault is one which has had surface displacement within the Holocene Epoch (roughly the last 11,000 years). The CGS has defined a potentially active fault as any fault which has been active during the Quaternary Period (approximately the last 1,600,000 years). These definitions are used in delineating Earthquake Fault Zones as mandated by the Alquist-Priolo Geologic Hazard Zones Act of 1972 and as subsequently revised in 1997 as the Alquist-Priolo Earthquake Fault Zoning Act and Earthquake Fault Zones. The intent of the act is to require fault investigations on sites located within Special Studies Zones to preclude new construction of certain inhabited structures across the trace of active faults. The Site is not located within the Alquist-Priolo Earthquake Fault Zone, but is located within a seismic hazard zone per CGS's mapping.

Plate I-1, Regional Fault Map, obtained from CGS's "Fault Activity Map of California" web page (https://maps.conservation.ca.gov/cgs/fam/), attached in Appendix B, shows that distribution of active faults in Southern California with the subject site location marked. Several sources were researched for information pertaining to the Site seismicity. The majority of data was obtained from the program, EQFAULT, by Blake (2000) that allows for an estimation of peak horizontal ground acceleration (PGA) using




*(Partial Extract of the Quaternary Geologic Map of the Anaheim 7.5-Minute Quadrangle,California Division of Mines and Geology,Seismic Hazard Zone Report 003, 1998)*

**LEGEND**

Approximate Site Location

**Qyfsa** Younger Alluvial Deposits- sand, silt and clay associated with the active Coyote Creek, Santa Ana River, and Santiago Creek alluvial systems


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| | | | |
|---|---|---|---|
| Project: | **Proposed Public Safety Facility NEC Acacia Pkwy & Euclid St., Garden Grove** | | |
| **Figure 2** | **Local Geologic Map** | | |
| Proj. No.: | **7109.23** | Date: | **April, 2023** |

a data file of approximately 150 digitized California faults. This analysis of EQFAULT program accounts for information including the dominant type of faulting within a particular region, the maximum earthquake magnitude each fault is capable of generating, the estimated slip-rate for each fault, and the approximate location of the fault trace. Printouts of the Site fault search results are shown on Plates I-2 and I-3 in Appendix B.

The Quaternary faults shown on Plate I-1 that are not listed on Plate I-3 (per EQFAULT) are tabulated below by the corresponding numerical fault ID's as per stipulated in Reference 42.

| Fault ID # | Name | Geologic Age |
|---|---|---|
| 537 | Santa Rosa Valley Fault | Holocene |
| 538 | East Montebello Fault | Holocene |
| 343 | Del Valle Fault | Late Quaternary |
| 344 | Santa Susana Fault | Late Quaternary |
| 347 | Unnamed Faults Near Moorpark | Late Quaternary |
| 351 | Boney Mountain Fault/Sycamore Canyon Fault | Quaternary |
| 352 | Chatsworth Fault | Late Quaternary |
| 353 | Northridge Hills Fault | Late Quaternary or Holocene |
| 354 | Mission Hills Fault Zone | Late Quaternary or Holocene |
| 355 | Unnamed Fault (Upper Van Norman Lake Area) | Holocene |
| 356 | San Fernando Fault | Historic (1971 earthquake ruptures) |
| 393 | Fault West of Monterey Park | Late Quaternary |
| 395 | Duarte Fault | Late Quaternary |
| 397 | Indian Hill Fault | Late Quaternary |
| 398 | Red Hill-Etiwanda Avenue Fault | Late Quaternary |
| 400 | Lytle Creek Fault | Late Quaternary |
| 402 | Glen Helen Fault | Holocene |
| 404 | Grass Valley Fault | Late Quaternary |
| 405 | Ord Mountains Fault | Holocene |
| 406 | Bowen Ranch Fault | Late Quaternary |
| 409 | Arrastre Canyon Narrows Fault | Late Quaternary |
| 410 | Tunnel Ridge Fault | Late Quaternary |
| 411 | Waterman Canyon Fault | Late Quaternary |
| 383 | Squaw Peak Fault | Pre-Quaternary |
| 386 | Eagle Rock Fault/San Rafael Fault | Late Quaternary |
| 388 | Possible Fault in North Hollywood | Holocene |
| 428 | Crafton Hills Fault Zone | Holocene |
| 429 | Rialto-Colton Fault | Late Quaternary |
| 430 | Inferred Fault Near Fontana | Late Quaternary |
| 433 | Faults in West Coyote Hills | Late Quaternary |
| 434 | Potrero Fault/Inglewood Fault/Avalon Compton Fault | Holocene |
| 435 | Charnock Fault / Overland Avenue Fault | Late Quaternary |
| 436 | Redondo Canyon Fault (Offshore) | Holocene |
| 438 | Cabrillo Fault | Late Quaternary |
| 439 | South Branch Fault | Late Quaternary |
| 440 | North Branch Fault | Holocene |

(continued)

| | | |
|---|---|---|
| 441 | Cherry Hill Fault/Reservoir Hill Fault/Seal Beach Fault | Holocene |
| 442 | Los Alamitos Fault | Late Quaternary |
| 443 | Norwalk Fault | Unknown |
| 445 | Peralta Hills Fault | Late Quaternary |
| 446 | Claremont Fault | Holocene |
| 447 | Peralta Hills Fault | Holocene |
| 448 | San Gorgonio Pass Fault Zone | Late Quaternary |

ASE has also performed research of historical earthquakes within a 62-mile (100-km) radius from the Site utilizing the online data available from the "Search Earthquake Catalog" webpage of USGS (https://earthquake.usgs.gov/earthquakes/search/). As shown on Plate I-4 in Appendix B, there were a total of 147 historical earthquakes with magnitudes exceeding 4.5 occurring within the 62-mile (100-km) radius from the Site starting from January 1, 1800, with 55 of the aforementioned historical earthquakes exceeding a magnitude of 5.0, i.e. the ones listed in red on Plate I-4. There were five (5) significant historical earthquakes (highlighted in yellow on Plate I-4) with magnitudes ranging from 5.02 to 6.4 that were in closer proximity to the Site. The distribution of these historical earthquakes is shown on Plate I-5, Historical Earthquakes (M ≥ 4.5) Map, in Appendix B.

### 4.1 Site-Specific Deterministic Analysis

Based on the referenced literature and deterministic analysis performed with the EQFAULT software, the San Joaquin Hills Fault, closest to the Site at approximately 5.8 miles (9.3 km) away, would probably generate the most severe ground shaking. A Maximum Probable Earthquake (MPE), i.e. the maximum earthquake that is likely to occur during a 100-year time interval, of 6.6 Mw (moment magnitude) has been assessed along the San Joaquin Hills Fault. As shown on Plate I-3 in Appendix B, estimated PGA from a MPE event on the San Joaquin Hills Fault is on the order of 0.377g should this event occur at the fault's closest approach to the Site. Other nearby active faults include the Newport-Inglewood (LA Basin) Fault, the Puente Hills Blind Thrust Fault, the Whittier Fault, and the Newport-Inglewood (Offshore) Fault, located approximately 7.6 miles (12.2 km), 11.0 miles (17.7 km), 11.6 miles (18.6 km), and 12.9 miles (20.7 km) away, respectively. In sum, 42 active or potentially active faults have been identified within 62 miles (100 km) from the Site.

The correlations shown on Plate I-6 in Appendix B between max rotated components factor (i.e. Max/GMRotI50) and structural periods presented in Watson-Lamprey J. (References 30 and 31) has been considered by ASE for the derivation of spectral acceleration adjusted for maximum rotated component for both the deterministic and the probabilistic analyses. In particular, the correlation proposed by Beyer and Bommer shown on Plate I-6 has been incorporated in ASE's calculation as it appears to be more conservative than the one proposed by Watson-Lamprey and Boore, even though these two correlations are deemed similar.

For the establishment of site-specific Deterministic Response Spectrum for the scenario of Maximum Considered Earthquake (MCE) that carries a 2% exceedance probability in 50 years (i.e. a 2475 – year return period), ASE considered the seismicity of the faults listed on the attached Plates J-1 through J-3 in Appendix B, List of Faults and Pertinent NGA Parameters Considered in Deterministic Spectral Analyses, mainly based on the distances, Mw's and PGA's of these faults that could impact the Site. The earthquake magnitudes and the relevant faults parameters shown on the upper portion of Plates J-1 through J-3, based on ASE's review of the following CGS webpages (http://www.conservation.ca.gov/cgs/rghm/psha/fault_parameters/pdf/Documents/aflt.pdf and http://www.conservation.ca.gov/cgs/rghm/psha/fault_parameters/pdf/Documents/B_flt.pdf), were incorporated in the Deterministic MCE Response Spectrum analyses per the criteria stipulated in Sections 21.2.2 and 21.5.2 in ASCE 7-16 (including Supplement 1).

ASE utilized the web application for constructing Target Spectrum (http://ngawest2.berkeley.edu/spectras/8226/searches/new) available from Pacific Earthquake Engineering Research Center (PEER) for the computation of Deterministic MCE Response Spectra resulting from seismic events taking place on the considered active faults. Four (4) attenuation relationships from the Enhancement of Next Generation Attenuation Relationships for Western US (NGA-West2), namely Abrahamson, Silva & Kamai (2014; "ASK14"), Boore, Stewart, Seyhan & Atkinson (2014; "BSSA14"), Campbell and Bozorgnia (2014; "CB14"), and Chiou & Youngs (2014; "CY14") were applied with equal weight in computing the Mean Deterministic MCE Response Spectrum with a $84^{th}$ percentile deviation (i.e. 1 standard deviation). The $Vs^{30}$ value of 249.0 m/sec for the Site had been obtained from the average of the weighted shear wave velocities shown on the attached Plates I-7 through I-9 in Appendix B, computed based on the measured seismic wave velocities at CPT-1, CPT-3 and CPT-5 test locations, respectively, shown on the last page of the Report of Summary of Cone Penetration Test Data by Kehoe Testing and Engineering, Inc. A copy of which is attached herewith in Appendix G. The values of the $Z_{1.0}$ and the $Z_{2.5}$ parameters have been calculated from the correlations recommended in Kaklamanos, J. et.al. (References 32 and 33). Plates J-4 through J-19 in Appendix B present the 84 percentile deterministic MCE response spectra based on the 4 NGA-West2 attenuation relationships for the sixteen (16) faults analyzed.

Plate J-20 in Appendix B lists all of the mean deterministic MCE response spectral values of the studied faults calculated from the aforementioned PEER web application. The highest spectral acceleration value for each structural period from the list is selected then multiplied by the corresponding max component factor to obtain the individual deterministic MCE response spectral value factored with maximum rotated component. The site-specific Deterministic MCE Response Spectra are subsequently assembled from plotting these non-factored and factored spectral values against their corresponding structural periods, as shown on Plate J-21, 84 Percentile Deterministic MCE (w/ & w/o Max.-Rotated Component) & Deterministic Lower Limit Response Spectra, in Appendix B. Plate J-21 also shows the Deterministic Lower Limit Response Spectrum, established based on the graphical correlations stipulated in Figure 21.2-1 of ASCE 7-16.

## 4.2 Site-Specific Probabilistic Analysis

The earthquake design requirements listed in 2022 CBC and other governing standards account for faults classified as "active", in accordance with the most recent fault listing as per the United States Geological Survey (USGS) or the CGS. The seismic design of the proposed structures should be implemented in accordance with the applicable provisions stipulated in 2022 CBC unless otherwise specified by the governing authority having jurisdiction over the project.

The 2022 CBC seismic design criteria for the Site based on a Site Class of "**D**", as evidenced on Plates I-7 through I-9 in Appendix B, a Risk Category **IV**, judged from the nature of the planned safety facility, and a scenario of Risk-Targeted Maximum Considered Earthquake ($MCE_R$) that carries a 2% exceedance probability in 50 years had been determined utilizing the OSHPD Seismic Design Maps web-application (http://seismicmaps.org) and the "General Procedures" criteria stipulated in Chapters 11 and 12 of ASCE 7-16. Summaries of the 2022 CBC seismic coefficients for the Site derived per the "General Procedures" are tabulated below.

| **2022 CBC SEISMIC DESIGN PARAMETERS** | | | | | |
|---|---|---|---|---|---|
| **Site Latitude:** | N 33.7762° | **Site Longitude:** | W 117.9365° | **Risk Category** [a] | IV |
| **Seismic Parameter** | | | | **Recommended Value** | |
| **Site Class** [b] | | | | D | |
| **Soil Profile Name** [b] | | | | Stiff Soil | |
| **Site Coefficient, Fa** [c] | | | | 1.0 | |
| **Site Coefficient, Fv** [d] | | | | 1.814 | |
| **0.2-Second Spectral Response Acceleration, $S_S$** [e] | | | | 1.371g | |
| **1.0-Second Spectral Response Acceleration, $S_1$** [f] | | | | 0.486g | |
| **Adjusted 0.2-Second Spectral Response Acceleration, $S_{MS}$** [g] | | | | 1.371g | |
| **Adjusted 1.0-Second Spectral Response Acceleration, $S_{M1}$** [h] | | | | 0.881g | |
| **Design 0.2-Second Spectral Response Acceleration, $S_{DS}$** [i] | | | | 0.914g | |
| **Design 1.0-Second Spectral Response Acceleration, $S_{D1}$** [j] | | | | 0.588g | |
| **Long -Period Transition Period, $T_L$** [k] | | | | 8 sec | |
| **Mapped $MCE_G$ Geometric Mean Peak Ground Acceleration, PGA** [l] | | | | 0.583g | |
| **Site Coefficient, $F_{PGA}$** [m] | | | | 1.1 | |
| **$MCE_G$ Peak Ground Acceleration adjusted for Site Class Effect, $PGA_M$** [n] | | | | 0.642g | |
| **Risk Category** | | | **I or II or III** | | **IV** |
| **Seismic Design Category based on $S_1$** [o] | | | D | | D |

a Per 2022 CBC Table 1604A.5
b Per 2022 CBC Section 1613A.2.2
c Per 2022 CBC Table 1613A.2.3(1). *Note: If simplified design procedure of Section 12.14 of ASCE 7-16 is adopted, the Fa value should be determined per Section 12.14.8.1 of ASCE 7-16 with no need for Fv, $S_{MS}$, $S_{M1}$ values.*
d Per 2022 CBC Table 1613A.2.3(2), *provided Cs values are determined by Equations 12.8-2, 12.8-3 and 12.8-4 of ASCE 7-16.*
e Per 2022 CBC Figure 1613A.2.1(1)
f Per 2022 CBC Figure 1613A.2.1(2)
g Per 2022 CBC Equation 16A-20
h Per 2022 CBC Equation 16A-21
i Per 2022 CBC Equation 16A-22
j Per 2022 CBC Equation 16A-23
k Per ASCE 7-16 Figure 22-14
l Per ASCE 7-16 Figure 22-9
m Per ASCE 7-16 Table 11.8-1
n Per ASCE 7-16 Equation 11.8-1 = PGA x $F_{PGA}$
o Per 2022 CBC Section 1613A.2.5

ASE performed additional site-specific probabilistic seismic hazard analyses using the "Hazard Spectrum Calculator" application available from the "OPENSHA" website (http://www.opensha.org/apps-HazardSpectrumLocal). The "Mean UCERF3" earthquake rupture forecast model and the four (4) 2014 NGA-West2 attenuation relationships (i.e. ASK14, BSSA14, CB14 and CY14) have been adopted for response spectral analyses together with a probability of 0.02 and a duration of 50 years. The summary of the computed values of the 4-2014 NGA-West2 probabilistic MCE spectra is shown on Plate J-22 in Appendix B, with the four (4) derived probabilistic response spectra and the average NGA-West2 probabilistic response spectrum plotted on Plate J-23 in Appendix B. The Probabilistic Response Spectra based on the average of the spectral values from the four (4) 2014 NGA-West2 attenuation relationships adjusted for the maximum rotated components and risk coefficients are graphically shown on Plate J-24 in Appendix B.

### 4.3 Site-Specific 2022 CBC Seismic Design Parameters

All of the computed site-specific and mapped response spectral values discussed in Sections 4.1 and 4.2 above are compared and screened through the different criteria stipulated in Sections 21.2 through 21.5 of ASCE 7-16, including Supplement 1, to obtain the required site -specific $MCE_R$ and $MCE_G$ response spectral values, which are shown on Plates J-25 and J-26 in Appendix B, with the most commonly applied values tabulated below as well.

| $MCE_R$ Parameter | Recommended Value (g) | Site –Specific ($MCE_G$) $PGA_M$ (g) |
|---|---|---|
| $S_{DS}$ | *1.000* | *0.606* |
| $S_{D1}$ | *0.835* | |
| $S_{MS}$ | *1.500* | |
| $S_{M1}$ | *1.252* | |

## 5.0 GEOLOGIC HAZARDS

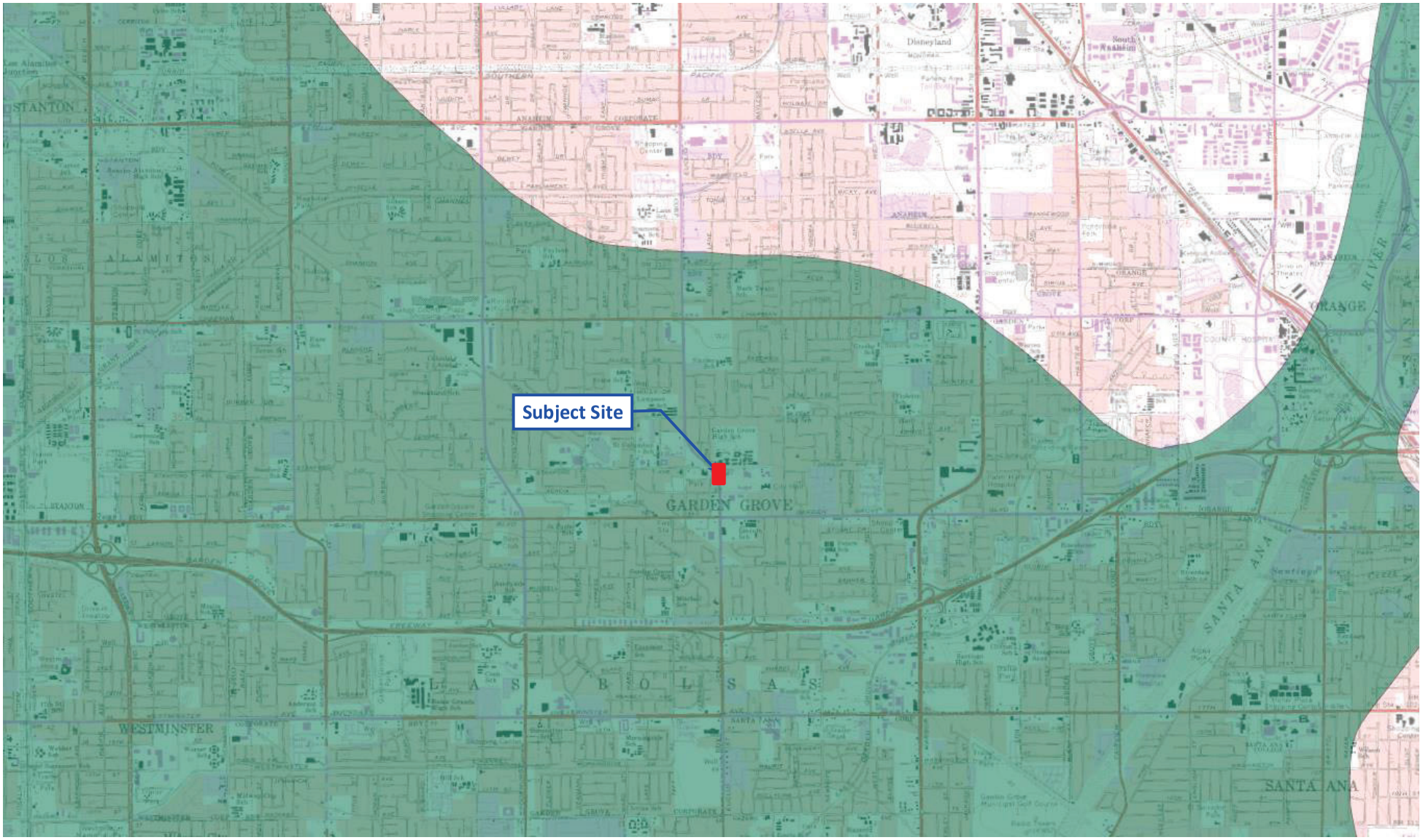
### 5.1 Surface Fault Rupture and Ground Shaking

The Site is not located within an Alquist-Priolo Earthquake Fault Zone. No known active or potentially active faults are shown crossing the Site on published maps reviewed. No evidence for active faulting was encountered in the exploratory excavations performed during this evaluation. The risk of surface rupture at the Site is considered very low. Being in close proximity to several known active and potentially active faults, severe ground shaking should be expected during the design life of the Gym.

### 5.2 Seismic Hazards

5.2.1 Liquefaction:

As evidenced in Figure 3, Local Seismic Hazard Map, the Site is within an area identified as having a potential for soil liquefaction when subject to a MPE or MCE event. The term "liquefaction" describes a phenomenon in which a saturated cohesionless soil loses strength and acquires a




*(Partial Extract of the Earthquake Zones of Required Investigation Anaheim 7.5-Minute Quadrangle, California Geological Survey, dated 1999)*

**LEGEND**

- Approximate Site Location
- Fault+Liquefaction Hazard Area
- Landslide Hazard Area
- Earthquake Fault Zone


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| **Figure 3** | **Local Seismic Hazard Map** | | |
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degree of mobility as a result of strong ground shaking during an earthquake. The factors known to the influence liquefaction potential include soil type and depth, grain size, relative density, groundwater level, degree of saturation, and both the intensity and duration of ground shaking.

ASE performed CPT-based liquefaction analyses taking into account: 1) the soil profiling data from CPT-1 through CPT-5, 2) a site-specific peak ground acceleration, $PGA_M$, on the order of 0.606g per derived in Section 4.3 above, 3) an mean earthquake magnitude of 6.62 Mw per the results of deaggregation analysis from the USGS Unified Hazard Tool, shown on Plate J-27 (3 sheets) in Appendix B, 4) a historic high groundwater level at 10 feet deep discussed in Section 2.3 above, and 5) a factor of safety (FOS) against liquefaction of 1.3 deemed as the threshold value in determining the liquefaction susceptibility of a certain soil stratum per CGS's SP-117A (Reference 3).

The results of ASE's CPT-based liquefaction analysis are presented on Plates K-1 through K-35 in Appendix C. Based on the results, ASE established the correlations between FOS against liquefaction and depth for soils encountered in CPT-1 through CPT-5, which are shown in Sub-figures (a) on Plates K-7, K-14, K-21, K-28, and K-35 in Appendix C. In the Sub-figures (a), the hollow black circles represent the mid-points of the standard soil sub-strata of one (1) inch thick each, with those hollow black circles located to the left of the line demarcating FOS = 1.3 indicate soils layers that are liquefaction-prone under the considered ground shaking and groundwater scenario. Per SP117A (Reference 3), liquefaction mostly takes place within 50-foot depth from ground surface.

Per SP117A, it is also stated that fine-grained soils with Plasticity Index (PI) < 12 and moisture content > 85% of the Liquid Limit (LL) are deemed liquefaction-prone. For clayey soils having PI > 18 and Sensitivity ($S_t$) > 4.0, severe strength loss could occur upon seismic impact. These screening criteria together with the results of Atterberg Limits tests, shown on Plates E-1 and E-2 in Appendix A, have been taken into account for the identification of liquefaction susceptibility of fine-grained soils on site. The Atterberg Limits screening results are tabulated below, which are reflected in the liquefaction analysis presented hereinafter:

| Sample ID | Soil Description | LL | PL | PI | USCS | Field Moisture Content (%) | % of LL | Reference Plate No. | Liquefiable? |
|---|---|---|---|---|---|---|---|---|---|
| B-1 @ 40' | Clayey Sand | 23 | 13 | 10 | SC | 18.5 | 80.4 | E-1 | No |
| B-5 @ 50' | Sandy Clay | 25 | 19 | 6 | CL | 27.3 | 109.2 | E-2 | Yes |

Liquefaction analysis was also performed with LIQUEFY2 Version 1.50 software using the soil profile properties of Borings B-1 and B-5 listed on Plate L-1 in Appendix C that were established based on ASE's laboratory test and field data, including the UCS screening results discussed above. ASE incorporated a conversation factor of 0.63 as suggested in Section 5.4.5 of Reference 20 for converting ring sampler blow counts into equivalent SPT blow counts (the "N" Values). These

converted blow counts were applied in the liquefaction analyses as necessary. ASE's liquefaction calculations also considered a conservative factor $C_s$, of 1.1 (allowable range between 1.1 and 1.3), and a hammer correction factor $C_h$, of 1.3 (allowable range between 0.8 and 1.3) for the automatic trip donut hammer utilized for sampling. ASE's liquefaction analysis, presented on Plates L-2 through L-7 in Appendix C, indicate that liquefaction-prone soil strata exist at depths listed in the table on next page, with the resultant "wet" and "dry" seismic settlements computed on Plates L-8 and L-9 in Appendix C.

Liquefaction-prone soil strata at CPT-1 through CPT-5 test locations and Borings B-1 and B-5 exist at depths as per tabulated below. As evidenced on Plates M-1 through M-7 in Appendix C, Assessment of Post-Liquefaction Surface Manifestation Potential, surface manifestation such as loss in bearing for foundation and slabs, subsidence with uneven settlement, and/or small-scale sand boil could occur at the Site as a result of liquefaction taking place within site soils located within 50 feet deep, based on the thicknesses and depths of liquefaction-prone soil strata identified in CPT-1 through CPT-5, B-1 and B-5, and the considered $PGA_M$. The circles representing liquefiable soil layers that could manifest on ground surface are located to the left of and above the extrapolated correlation curve representing the derived $PGA_M$ of 0.606g on Plates M-1 through M-7 in Appendix C.

| CPT Test Location/Boring Location | Depths of Identified Liquefaction-Prone Soil Strata within 50-Foot Depth (ft) | As-Is "Wet" Seismic Settlement (in) | As-Is "Wet" Seismic Settlement within 50' deep (in) [a] | As-Is "Dry" Seismic Settlement (in) | Total As-Is Seismic Settlement within 50' deep (in) [a] |
|---|---|---|---|---|---|
| CPT-1 (total test depth = 70.2'; refer to Plates K-1 through K-6) | 11.3 ~ 13.21; 20.16 ~ 22.25; 22.70 ~ 25.03; 26.06 ~ 27.63; 30.43 ~ 31.81; 32.59 ~ 35.02; 39.29 ~ 43.55; 48.09 ~ 49.02; 49.59 ~ 50.00 | 5.70 | 3.79 | 0.00 | 3.79 |
| CPT-2 (total test depth = 70.29'; refer to Plates K-8 through K-13) | 11.84 ~ 14.25; 23.32 ~ 25.68; 28.10 ~ 28.88; 29.67 ~ 33.74; 36.89 ~ 37.48; 42.73 ~ 44.65; 45.84 ~ 46.29 | 4.57 | 2.41 | 0.79 | 3.20 |
| CPT-3 (total test depth = 70.15'; refer to Plates K-15 through K-20 | 11.37 ~ 15.18; 16.93 ~ 18.96; 19.63 ~ 21.80; 24.88 ~ 26.00; 27.77 ~ 28.62; 29.79 ~ 35.24; 36.06 ~ 37.67; 41.29 ~ 41.69; 43.19 ~ 44.76 | 5.75 | 3.70 | 1.70 | 5.40 |
| CPT-4 (total test depth = 70.74'; refer to Plates K-22 through K-27) | 11.43 ~ 12.66; 15.49 ~ 20.10; 22.60 ~ 23.19; 25.47 ~ 26.01; 27.30 ~ 31.19; 31.65 ~ 32.95; 40.65 ~ 41.94; 48.37 ~ 49.88 | 5.51 | 3.54 | 0.50 | 4.04 |
| CPT-5 (total test depth = 70.10'; refer to Plates K-29 through K-34) | 10.00 ~ 12.60; 18.52 ~ 20.90; 23.45 ~ 24.48; 30.92 ~ 34.15; 35.06 ~ 35.71; 36.42 ~ 37.01; 37.93 ~ 38.47; 39.26 ~ 39.93; 42.01 ~ 43.26; 48.84 ~ 49.29 | 5.25 | 2.80 | 0.93 | 3.73 |

(continued)

| | | | | | |
|---|---|---|---|---|---|
| B-1 (total explored depth = 51.5'; refer to Plates L-2 through L-4) | 10.0 ~ 18.0; 25.0 ~ 35.0; 40.0 ~ 41.5 | 3.98 [a] | 3.98 | 0.16 | 4.14 |
| B-5 (total explored depth = 51.5'; refer to Plates L-5 through L-7) | 15.0 ~ 18.0; 35.0 ~ 45.0 | 2.31 [a] | 2.31 | 0.17 | 2.52 |

a. Total amount within 50 feet deep.

5.2.2 Seismic Settlements:

Ground accelerations emitted from a seismic event can cause densification of loose soils both above and below the groundwater table that may manifest settlement on ground surface as a result of volumetric compression of soil mass. This phenomenon is often referred to as seismic settlement and commonly takes place in relatively clean sands, as well as soils with low plasticity and less fines. There are multiple granular soil layers on the Site that have been identified to be liquefaction-prone, as described in preceding Section 5.2.1.

Based on the procedures developed by Tokimatsu and Seed (1984) and as shown in Section 5.2.1 above, total liquefaction-induced settlements ("wet" seismic settlement) at the Site have been assessed to range from 4.57 to 5.75 inches to the corresponding terminal depths of CPT-1 through CPT-5, and from 2.41 to 3.79 inches within the upper 50 feet of soils that could potentially manifest on ground surface and pose direct impact to shallow foundations and utilities.

Settlement of on-site granular soils above the 10-foot-deep historic high groundwater as a result of seismically-induced densification (i.e. "dry" seismic settlement) has been calculated to range from 0 to 1.70 inches for the soil profiles encountered at the five (5) CPT test locations, as per tabulated in preceding Section 5.2.1, in accordance with the procedures recommended by Seed et.al. (Reference 21). However, following the completion of remedial grading measures in support of the alternative of adopting mat foundation, as per discussed in Section 6.2.3 below, or the completion of ground modification measures using VSC's and GRLTP, as per discussed in Section 6.2.4 below, the subgrade soils within 10 feet deep are anticipated to be significantly densified and/or removed and replaced with geosynthetic-reinforced aggregate base material, resulting in insignificant residual "dry" seismic settlement, if any, across the PS Facility and/or the Parking Structure footprints.

Differential seismic settlements combining both the "wet" and "dry" seismic settlements taking place within as-is subgrade soils to 50 feet deep are therefore anticipated to be approximately 2.88 inches between the CPT-3 test location and B-5 boring location, computed from the corresponding total as-is seismic settlements shown in preceding Section 5.2.1, that span approximately 220 feet

in linear distance, reflecting an angular distortion of approximately 1/900. Upon occurrence, such magnitudes of "wet" total and differential seismic settlements within the upper 50 feet of site soils would require the implementation of remedial grading discussed in Section 6.2.3 below in order to adopt the reinforced concrete mat foundation for the support of the PS Facility and/or the Parking Structure. Alternatively, the PS Facility and/or the Parking Structure could be supported by shallow footing foundation tied with grade beams and slabs-on-grade with the implementation of ground modification measure consisting of installation of VSC's for liquefaction abatement and bearing enhancement and construction of GRLTP for load spreading and settlement control, as per discussed in Section 6.2.4 below.

5.2.3 Earthquake-Induced Landslides:

There is no indication that recent landslides or unstable slope conditions exist on or adjacent to the Site that would otherwise result in an obvious landslide hazard to the proposed development or adjacent properties. In addition, according to Reference 5 the Site is not located within an area identified as having a potential for earthquake-induced landslides as evidenced in Figure 3. Due to the lack of significant relief on or adjacent to the Site, the potential for earthquake induced landslides in the future is considered nil.

5.2.4 Hydro-consolidation:

ASE's laboratory test results on one-dimensional consolidation, shown on Plates C-1 through C-5 in Appendix A, appear to indicate a low hydro-consolidation potential for site soils up to twenty-five (25) feet deep upon moisture inundation. Whereas, upon loading, a low to moderate compressibility was shown by site soils up to twenty-five (25) feet deep. It is anticipated that hydro-consolidation potential and compressibility of existing subgrade soils within twenty-five (25) feet deep will be minimized upon completion of remedial grading and/or ground modification in building pad areas of the PS Facility and the Parking Structure as recommended in Sections 6.2.3 and 6.2.4 below. For areas on site that are not subject to remedial grading or ground modification but covered with AC pavement or concrete flatwork, or if interceptor systems are installed beneath planter or turf areas to minimize infiltration of moisture into or divert water away from subgrade soils, the potential impact from hydro-consolidation in these areas is anticipated to be reduced.

5.2.5 Lateral Spreading:

Lateral spreading, a phenomenon associated with seismically-induced soil liquefaction, is a display of lateral displacement of soils due to inertial motion and lack of lateral support during or post liquefaction. It is typically exemplified by the formation of vertical cracks on the surface of liquefied soils, and usually takes place on gently sloping ground or level ground with nearby free surface such as drainage or stream channel. Since there is no presence of "free surface" (unlined slopes, excavations,

channels, etc.) on or near by the Site, the potential for the occurrence of seismically-induced lateral spreading is unlikely on the Site upon a MPE or MCE event.

5.2.6 Tsunamis and Seiches:

As shown on Figure 4, Local Tsunami Hazard Map, excerpted from Reference 34, the Site is not in an area identified by CGS to be subject to potential tsunami inundation.

The hazard from seiches, defined as rhythmic movements of water within a lake or other enclosed or semi-enclosed body of water, often caused by earthquakes, is not present at the Site, as no lakes or other enclosed bodies of water lie on or near the Site.

5.2.7 Flood Hazards:

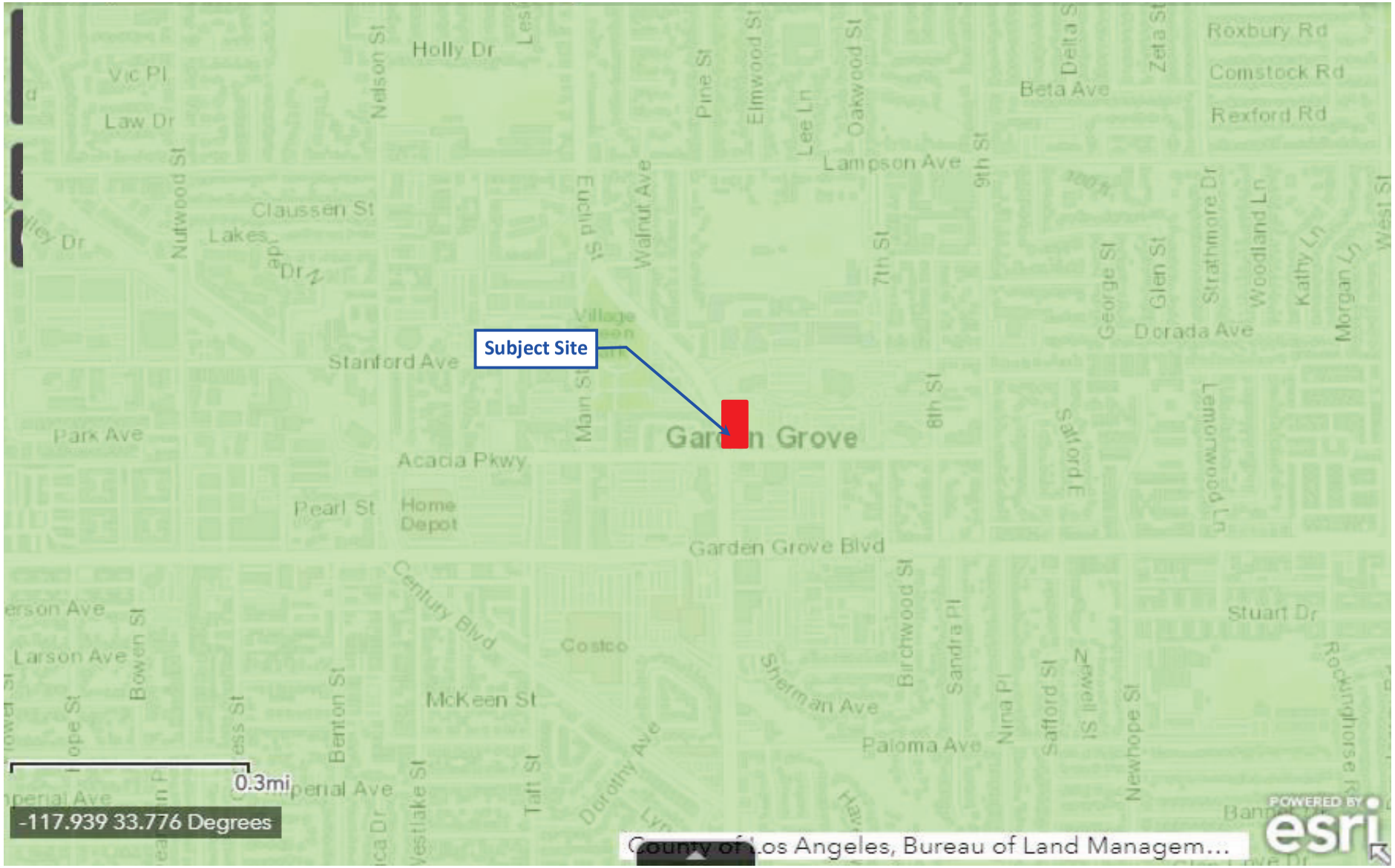
Per ASE's review of FEMA Flood Insurance Rate Map No. 06059C0143J, effective dated December 3, 2009, the Site is not located within the 100-year floodplain as shown on Figure 5, Local Flood Hazard Map, but is located in an area shown as having 0.2% annual chance of flood, 1% annual chance of flood with average depths of less than one foot or with drainage area less than one square mile, or being protected from the 1-percent-annual-chance flood by a levee system.

## 6.0 GEOTECHNICAL CONSIDERATIONS AND RECOMMENDATIONS

Based on the results of ASE's field exploration, laboratory testing and engineering analysis, it is ASE's geotechnical opinion that the major geotechnical factors affecting the design and construction of the Safety Facility and Parking Structure include the following:

1. Soil disturbances as a result of site demolition, clearing and excavation operations.
2. Presence of low-density soils within the zone of foundation bearing strata that could be prone to loading-induced, likely uneven, static settlements, upon structural loading.
3. Potentially significant ground settlement and loss of soils bearing as a result of seismically-induced soil liquefaction to great depths upon string seismic impact that could damage PS Facility and the Parking Structure and appurtenant improvements.

In view of the abovementioned factors, construction of the PS Facility and the Parking Structure may be implemented as planned, provided that one of the following two (2) approaches is being considered and incorporated into project planning and implemented during the PS Facility and the Parking Structure construction, Please note that, geotechnically, the Safety Facility structure and the Parking Structure could be treated separately with either of the two (2) following approaches:




*( Extract of the CGS Information Warehouse: Tsunami Hazard Area Map, California Geological Survey, accessed March 31, 2023)*

| LEGEND | | | | | |
|---|---|---|---|---|---|
| Approximate Site Location<br>Outside Tsunami Hazard<br>Tsunami Hazard Area | ASSOCIATED SOILS ENGINEERING, INC. Consulting Geotechnical Engineers | **Associated Soils Engineering, Inc.**<br>**2860 Walnut Avenue**<br>**Signal Hill, CA 90755**<br>**Tel (562) 426-7990 Fax (562) 426-1842** | Project: | **Proposed Public Safety Facility**<br>**NEC Acacia Pkwy & Euclid St., Garden Grove** | |
| | | | Figure 4 | **Local Tsunami Hazard Map** | |
| | | | Proj. No.: | **7109.23** | Date: **April, 2023** |

# National Flood Hazard Layer FIRMette

FEMA

FIGURE 5 ASE #7109.23




*Basemap: USGS National Map: Orthoimagery: Data refreshed October, 2020*

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

**SPECIAL FLOOD HAZARD AREAS**
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

**OTHER AREAS OF FLOOD HAZARD**
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

**OTHER AREAS**
- NO SCREEN Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

**GENERAL STRUCTURES**
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

**OTHER FEATURES**
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- 513 Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

**MAP PANELS**
- Digital Data Available
- No Digital Data Available
- Unmapped

N

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/22/2023 at 7:29 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

**Approach A** - Supporting the PS Facility and/or the Parking Structure on a mat foundation rigid enough to withstand both seismic and static settlements from a subgrade undergone overexcavation, backfill and recompaction to nine (9) feet deep with suitable fill.

**Approach B** - Supporting the PS Facility and/or the Parking Structure with footing foundation to two (2) feet deep tied with grade beams and slab-on-grade, which in turn are underlain by three-foot-thick GRLTP between two (2) and five (5) feet deep from finished subgrade. The GRLTP is in turn supported by a ground modification scheme consisting of vibro stone columns (VSC's) installed between five (5) and thirty (30) feet deep from finished subgrade. Liquefaction potential of subgrade soils underlying the pad areas of the PS Facility and the Parking Structure could be mitigated through the installation of VSC's. This ground modification scheme is to displace the soils to 30 feet deep with a vibro head that effectively induces localized soil liquefaction, followed by dropping crushed rocks into the cavity formed around the vibrator shaft. Then by vibrating the crushed rocks against the surrounding loose soils, the soils will be densified while a much stiffer stone column will be formed. As the process is repeated while the vibrator is withdrawn in stages, very stiff stone columns will be formed between 5 and 30 feet. Upon completion, the resultant composite matrix of VSC's and the surrounding, densified soils are anticipated to eliminate a majority of seismic settlements within the improvement depths. In consideration of the post-ground-modification seismic settlement of subgrade soils and the potential compression of stone columns upon seismic impact, a GRLTP consisting of three (3) feet of crushed rock layer reinforced with four (4) layers of reinforcing geosynthetics overlain by two (2) feet of compacted fill should be constructed over the VSC's. The GRLTP is deemed self-supporting through the development of soil arching spanning over neighboring VSC's. With the much reduced, residual seismic and static settlements from the installation of VSC's and the construction of the GRLTP, the PS Facility and/or the Parking Structure could be supported by footing foundations tied with grade beams for rigidity enhancement and slabs-on-grade. The footing foundations and slabs-on-grade are to be founded in or above the two (2) feet of compacted fill overlying the GRLTP. Upon occurrence of liquefaction, the agitated excess pore water in subgrade soils dissipates laterally through the much more porous VSC's then migrates upwards and dissipates laterally through the GRLTP functioning as a drainage blanket for excess pore pressure relief. Please note that, upon adoption of the VSC ground modification scheme, the requirements and criteria, such as the lateral extent of ground modification zone beyond building footprint should be one-half (1/2) of the improvement depth, i.e. fifteen (15) feet for the subject project based on the recommended VSC depth of thirty (30) feet, but no less than ten (10) feet, stipulated in Section 1813A, Vibro Stone Columns for Ground Improvement, of 2022 CBC, should be complied with. General literature describing vibro stone columns and GRLTP is attached in Appendix D for reference.

## 6.1 Site Preparation

6.1.1 Existing Improvements:

Prior to grading or ground modification operations, it will be necessary to remove designated existing improvements, including any remaining buried obstructions, which may be in the areas of proposed construction. Structure removal should include foundations. Concrete flatwork and asphalt pavements should also be removed from areas of proposed construction. Concrete and asphalt fragments from site demolition operations should be disposed of off-site.

6.1.2 Underground Utilities:

Any underground utilities to be abandoned within the area of proposed construction should be cut off a minimum of five (5) feet from the limits of any new building or new structural improvements. The ends of cut-off lines should be plugged a minimum of five (5) feet with concrete exhibiting minimum shrinkage characteristics to prevent water migration to or from hollow lines. Capping of lines may also be required should the plug be subject to any line pressure.

Alternatively, deep hollow lines may be left in place provided they are filled with lean concrete or 2-sack control density fill (slurry fill). However, no filled line should be allowed to be within two (2) feet laterally from the edges of any new footing, unless it has been evaluated and approved by the Geotechnical Consultant.

Please note that local ordinances relative to abandonment of underground utilities, if more restrictive, will supersede the above minimum criteria.

## 6.2 Site Grading and Ground Modification

In view of minimizing the potential adverse effects associated with excessive total or differential settlements originated from seismic hazards and loading-triggered, static soils consolidation taking place underneath the PS Facility and the Parking Structure and ancillary structural improvements, remedial grading or modification of on-site soils are recommended in the following sections.

6.2.1 Undocumented Fill/Disturbed Native Soils:

Although no undocumented fill was encountered during ASE's site investigation, as per discussed in Section 2.2.1 above, any undocumented fill, if encountered during site grading in any building pad area, as well as any native soils disturbed during demolition and clearing operations, should be excavated full depth under the observation and confirmation by the Geotechnical Consultant. Lateral extent of overexcavation beyond building perimeters, where possible, should be to a minimum distance equal to the depth of undocumented fill/disturbed soil encountered or five (5) feet, whichever is greater.

For ancillary structural improvements such as flatworks, free-standing walls, planters, or hardscape, the lateral extent of removal should be to a minimum distance equal to the depth of undocumented fill/disturbed soils encountered or two (2) feet, whichever is greater.

The exposed excavation bottom should be scarified/reworked to a minimum one (1) foot depth and recompacted to at least 90 percent relative compaction with a minimum moisture content of one (1) percentage point above optimum moisture content, prior to backfilling with approved soils as specified in Section 6.2.10.

6.2.2 Expansive Soils:

ASE's laboratory test results on representative soil samples, as shown in Appendix A, indicate a "Very Low" soil expansion potential (i.e. Expansion Index, EI, = 0 per Table 1 of ASTM D4829-19 Test Method). The tested EI values indicate that site soil's expansion potential is not a critical factor in foundation design for buildings and ancillary structural improvements. It is, however, advisable that the soil expansion potential be re-evaluated through additional testing during or after remedial grading operations to verify the design adequacy of foundation or slab-on-grade against the re-tested soil expansion potential, as heterogeneity within soil mass is common.

6.2.3 Remedial Grading for the Adoption of Mat Foundation Approach:

To provide competent bearing support for the PS Facility and/or the Parking Structure and to reduce potential seismic and static settlements, it is recommended that on-site soils within the footprint of the corresponding building be overexcavated and removed uniformly to a minimum depth of nine (9) feet below existing grade or finish grade, whichever is lower, and replaced with properly compacted fill such that the mat foundation for the corresponding building is supported on a re-engineered, compacted fill layer. The excavation bottom should be near uniform. The overexcavation should extend laterally to a minimum distance of nine (9) feet beyond the perimeters of the corresponding building, wherever possible.

In view of the significant "wet" seismic settlement potential of subgrade soils at the Site, it is recommended that the two (2) layers of geogrid (Tensar BX-1200, Mirafi BXG-12, or equivalent) be placed beneath the footprint of the corresponding building pad area across the extent of remedial grading at depths of one (1) foot and two (2) feet beneath the bottom of the mat foundation. Minimum overlapping between adjoining geogrids should be two (2) feet. Installation of geogrid should be as per recommended by the geogrid manufacturer.

Please note that the upper two (2) feet of compacted fill beneath the mat foundation where the geogrids are to be placed should be compacted to at least 95 percent relative compaction with a

minimum moisture content of one (1) percentage point above optimum moisture content to further enhance the desired subgrade reinforcement effect.

The compacted fill within the depth and extent of remedial grading for the corresponding building should consist of "Very Low" expansive, granular material (EI ≤ 20). On-site subgrade soils at their present state generally exhibit a satisfactory EI and, thus, are deemed suitable for re-use as compacted fill. Nonetheless, additional testing should be performed to verify the EI's of excavated site soils before re-use. Prior to backfill and recompaction of the abovementioned fill layer, the exposed subgrade soils to one (1) foot deep should be reworked to at least 90 percent relative compaction with a minimum moisture of one (1) percentage point over optimum moisture content.

In case of the presence of localized loose soils, the overexcavations need to be deepened accordingly to delete the loose soil condition. However, this deepened overexcavation may be terminated when the exposed native, undisturbed soils exhibit a natural relative compaction greater than 85 percent, subject to the testing and inspection by the representative from the Geotechnical Consultant.

The Geotechnical Consultant's field representative should be provided with appropriate construction details and staking during grading to verify that depths and/or locations of the recommended overexcavation are adequate. For areas on site that grading recommendations stipulated in both Sections 6.2.1 and 6.2.3 apply, the more stringent grading criteria between the two sections should govern.

The depth of overexcavation should be reviewed by the Geotechnical Consultant during the actual construction. Any subsurface obstruction, buried structural elements, and unsuitable material encountered during grading, should be immediately brought to the attention of the Geotechnical Consultant for proper exposure, removal and processing, as recommended.

6.2.4 Ground Modification with Vibro Stone Columns and GRLTP:

When this ground modification approach is adopted and with the liquefiable soils between five (5) and thirty (30) feet deep to be strengthened and densified by installing VSC's, the excavation of site soils to accommodate the construction of the 2-foot-thick compacted fill and 3-foot-thick GRLTP over vibro stone columns will require no additional remedial grading. As shown in the table in Section 6.3.2.d) below, the VSC's are anticipated to greatly reduce the "wet" seismic settlement and practically eliminate the "dry" seismic settlement down to thirty (30) feet deep.

Based on the existing densities of site soils to thirty (30) feet deep, in order to achieve the desired modification performance, the roughly 3-foot-diameter VSC's are anticipated to be arranged in an

equilateral triangular pattern spaced on 8-foot centers, which represents an approximate volume displacement ratio on the order of fifteen (15) percent of the existing soil volume within the improvement depths between 5 and 30 feet. The results of ASE's CPT-based liquefaction analysis accounting for the presence and the added weight of VSC's between 5 and 30 feet deep are presented on Plates N-1 through N-30 in Appendix E. ASE has plotted the computed FOS's against liquefaction and seismic settlements alongside those representing the as-is site conditions, which are shown in Sub-figures (a) and (b) on Plates K-7, K-14, K-21, K-28, and K-35 in Appendix C. It could be seen in these Sub-figures (a) that, with the presence of VSC's, the FOS's of the currently liquefiable soils have either gone over the threshold FOS value of 1.3 that renders these soil strata non longer liquefiable or the increased FOS's reduce the resultant volumetric strains and, thus, settlements.

The analysis of GRLTP based on the correlations stipulated in Reference 35 is presented in Plate O-1 in Appendix E. The reinforcing geosynthetic should consist of four (4) layers, each extending laterally at least nine (9) feet beyond the mat foundation footprint. The bottom layer should be laid directly over the completed VSC's at five (5) feet deep, with the remaining layers placed at 12-inch vertical intervals. The selection of reinforcing geosynthetic for different layers within GRLTP should exceed the computed tensile strength values at 1% strain in transverse axis shown on Plate O-1 and should be in a "cross-grid" pattern. Geogrids with a "triangular-grid" pattern may be considered, subject to the review and approval by the Geotechnical Consultant of the data submitted by the prospective geogrid supplier validating that similar tensile strength values at 1% strain in transverse axis could be satisfactorily reached by the proposed geogrids with a "triangular-grid" pattern.

A layer of geofabric (Mirafi 140N or equivalent) for the desired separation effect should cover the uppermost reinforcing geosynthetic layer prior to placement of the overlying compacted fill. When placing the reinforcing geosynthetic, a minimum overlap of two (2) feet should be ensured between adjoining reinforcing geosynthetic strips. The crushed rock used for the GRLTP should be 3/4" or 1" crushed rocks in compliance with the criteria stipulated in Section 200-1.2 of the current edition of Standard Specifications for Public Works Construction (the Greenbook). The compacted fill placed over the geosynthetic-reinforced crushed rock layer should consist of approved fill material and compacted properly as per Sections 6.2.10 and 6.2.11 below, respectively. The compressive load (Qr) of 124.69 kips required per VSC shown on Plate O-1 has been verified through the analysis using "All-Pile" Version 7.0 software. The results indicating a VSC compressive load capacity of 145.5 kips exceeding the required Qr from GRLTP are shown on Plates P-1 through P-3 in Appendix E. Please note that, due to the aggregate and porous nature of VSC's, they are <u>not</u> considered capable of providing any uplift or lateral load resistance.

In order to verify the applicability of the design and layout of VSC's, ASE recommends that pre-production testing be performed at two (2) pre-selected locations, each with three (3) VSC's in triangular pattern, for each corresponding building at the beginning of ground modification program. Upon installing the test VSC's, the pre-production verification should consist of drilling (with a hollow-stem auger drill rig) or probing (with CPT probe) at the center of each tested area to verify that the desired densification is reached with the planned VSC pattern, depth, and volume. The production phase of VSC installation may proceed upon the satisfactory outcome of pre-production testing reported by the Geotechnical Consultant. Otherwise, adjustments to production VSC program with regard to column spacing, layout pattern, or target depths will need to be made based on the results of pre-production testing.

Upon completion of VSC production, it is recommended that a post-production verification program consisting of a minimum of two (2) pre-selected locations per each corresponding building be advanced with hollow-stem auger or Cone Penetrometer Test (CPT) probe within the areas modified by VSC's. The results of the post-production verification program will be used to quantify the as-built ability of VSC-modified soils in resisting liquefaction occurrence and/or reducing the residual seismic settlements and to review and, if necessary structurally, revise structural design accordingly of the corresponding building prior to foundation and building construction.

6.2.5 Bulking and Shrinkage:

Bulking and shrinkage occur when soils are excavated and recompacted on site. For estimating purposes, ASE recommends that a shrinkage factor on the order of 15 to 20 percent be considered for excavated and recompacted site soils. As the actual shrinkage will vary greatly with the depth of removal, stripping loss, and actual field conditions at the time of grading, it will be desirable that the shrinkage factor be re-evaluated during grading. In addition, subsidence up to one-half (1/2) inch should be considered on compacted fill due to heavy machinery loading and movement.

6.2.6 Pumping and Heaving of Subgrade Soils:

If exposed site soils are found to contain high moisture content at the time of site grading, pumping and/or heaving conditions could be experienced and the grading contractor may need to use track-mounted equipment in lieu of rubber tire mounted, wherever possible.

If excavated site soils are highly moist or wet at the time of site grading, the excavated soils should be evenly spread and left aerated for a period of time to reduce the moisture content prior to being re-used. If project schedule does not allow prolonged drying of any encountered wet site soils, alternative measures such as using or blending with drier site soils or imported "Very Low" expansive (EI ≤ 20) fill, may be considered. The Geotechnical Consultant should be consulted at the time of site grading for the assessment of such alternative measures.

When pumping and heaving conditions are observed with soils exposed at the overexcavation bottom, it will be necessary to deepen the overexcavation within the area of observed pumping and heaving an additional 12 to 18 inches, under the observation and evaluation of the Geotechnical Consultant's representative. The area of the deepened overexcavation should subsequently be backfilled with 3/4" to 1" open-graded crushed rocks (per Section 200-1.2 of the Greenbook) rammed tightly to form a stiffened platform to facilitate the ensuing fill placement and compaction. The crushed rock layer should be underlain by a layer of filtering geofabric (such as Mirafi 140N or equivalent) prior to the placement of crushed rocks. Another layer of filtering geofabric (Mirafi 140N or equivalent) should be placed over the crushed rock layer prior to placement of fill soils. If necessary, alternative and site-specific recommendations for the stabilization of excavation bottoms may be provided by the Geotechnical Consultant based on a review of grading-exposed soil conditions.

6.2.7 Temporary Excavation:

Excavations of site soils 4 feet or deeper should be temporarily shored or sloped in accordance with current Cal OSHA requirements.

a) Temporary Sloping:

In areas where excavations deeper than 4 feet are not adjacent to existing structures of public right-of-ways, sloping procedures may be utilized for temporary excavations. It is recommended that temporary slopes in both fill and native soils be graded no steeper than 1.5:1 (H:V) for excavations up to 10 feet in depth. The above temporary slope criteria is based on level soils conditions behind temporary slopes with no surcharge loading (structures, traffic) within a lateral distance behind the top of slope equivalent to the slope height.

It is recommended that excavated soils be placed a minimum lateral distance from top of slope equal to the height of slope. A minimum setback distance equivalent to the slope height should be maintained between the top of slope and heavy excavation/grading equipment. Soil conditions should be reviewed by the Geotechnical Consultant as excavation progresses to verify acceptability of temporary slopes. Final temporary cut slope design will be dependent upon the soil conditions encountered, construction procedures and schedule.

b) Temporary Shoring:

Temporary shoring will be required for those excavations where temporary sloping as specified above is not feasible. Temporary cantilever shoring, if used, should be designed to resist an active earth pressure of 33 pounds per cubic foot (pcf) equivalent fluid pressure (EFP) for level soil conditions behind shoring. The resultant lateral deflection of shoring and surficial settlement immediately behind shoring are estimated to be on the order of one (1) to one and

one half (1-½) percent of the shored excavation depth. Should this ground deformation be intolerable to the existing structure, ASE should be consulted for more detailed analysis and further recommendations.

The design of shoring should also include surcharge loading effects of existing structures and anticipated traffic, including delivery and construction equipment, when loading is within a distance from the shoring equal to the depth of excavation.

In addition to the above, a minimum uniform lateral pressure of 100 pounds per square foot (psf) in the upper ten (10) feet of shoring should be incorporated in the design when normal traffic is permitted within ten (10) feet of the shoring.

6.2.8 Exterior Slab-on-Grade/Concrete Flatwork/Hardscape/Pavement Support:

For the purpose of reducing future unsightly and uneven movements and cracks of any newly constructed exterior slab-on-grade, concrete flatwork, hardscape, or pavement, it is recommended that subgrade soils to eighteen (18) inches below the bottom of and eighteen (18) inches laterally beyond the footprint of exterior concrete slab-on-grade/concrete flatwork/hardscape/pavement be overexcavated, backfilled with suitable "Very Low" expansive (EI ≤ 20) site or imported fill, then compacted to at least 90 percent relative compaction with a minimum moisture content of two (2) percentage points above optimum moisture content. Prior to placement of the abovementioned compacted fill layer, the exposed subgrade soils to a minimum depth of six (6) inches should be scarified and reworked to attain at least 90 percent relative compaction with a minimum moisture of two (2) percentage points above optimum moisture content.

From geotechnical viewpoint, new landscape area with only softscape is not subject to subgrade preparation and remedial grading requirements mentioned in Sections 6.2.1, 6.2.3, and 6.2.8.

6.2.9 New Fills for Grade Alteration:

For any area on site to receive new fills as part of any planned grade alteration, the upper eighteen (18) inches of site soils should be scarified, reworked and recompacted to a minimum 90 percent relative compaction with a moisture content of two (2) percentage points above optimum moisture content prior to receiving any new fills, where required, to achieve finish grade elevations.

6.2.10 Suitable Soils and Imported Soils:

Any soil re-used or imported as fill for the completion of subgrade preparation or remedial grading should consist of predominantly "Very Low" expansive (EI ≤ 20), granular material, and should

exhibit a relatively uniform gradation and be free of debris, particles greater than 4 inches in maximum dimension, organic matter, or other deleterious materials.

Unless otherwise approved by the Geotechnical Consultant, the import fill soils should also comply with the following corrosivity criteria regarding the desired concrete and reinforcement protection.

| Corrosivity Criteria for Select Fill and General Fill | | | |
|---|---|---|---|
| **Soluble Sulfate (% by weight) [1]** | **Soluble Chloride (ppm) [2]** | **Resistivity Value (ohm-cm) [3]** | **pH-Value [4]** |
| ≤ 0.1 | ≤ 500 | ≥ 2000 | 7.0 ~ 8.8 |

1. California Test Method 417. 2. California Test Method 422. 3. ASTM G57-06 Test Method. 4. California Test Method 532.

All blended material and import material must be approved by the Geotechnical Consultant or his representative, prior to its use and arrival on site, and should be subjected to continuing verification testing during site grading.

6.2.11 Backfilling and Compaction Requirements:

Existing site soils at their present state and composition, unless indicated otherwise, are considered suitable for re-use as fill during site remedial grading and subgrade preparation, flatworks, non-structural or landscape areas, and backfilling of utility trenches, provided they are 1) free of debris, particles greater than 4 inches in maximum dimension, organic matter or other deleterious materials, 2) are not environmentally contaminated, and 3) adequately moisture conditioned to permit achieving the required compaction. No nesting of large particles (2 to 4-inch size) should be permitted during backfilling operations.

On-site soils, blended material, and import materials approved for use as fill should be placed in horizontal lifts not exceeding 8 inches in loose thickness, moisture conditioned to a minimum of two (2) percentage points above optimum moisture content, and compacted to a minimum 90 percent relative compaction, unless otherwise stated.

Unless otherwise stated, the measurement of relative compaction in this report should always refer to the latest ASTM D1557 Test Method.

6.2.12 Tests and Observations:

All ground modification, subgrade preparation, compaction, and backfill operations should be performed under the observation of and testing by the Geotechnical Consultant's field representative. An adequate number of field tests should be taken to ensure compliance with this report and local ordinances.

If it is determined during ground modification and/or grading that ground modification scheme requires adjustment and/or site soils require overexcavation to greater depths for obtaining proper support for the proposed structures, the additional work should be performed in accordance with the updated recommendations of the Geotechnical Consultant.

Imported fill soils or base materials should be examined by a representative of this office, and tested as necessary for evaluating their suitability for use as fill prior to being hauled to the Site. Final acceptance of any imported soil will be based upon review and testing of the soil actually delivered to the Site. All blended soils to be used as fill must be tested and approved by the Geotechnical Consultant prior to being used for fill placement.

## 6.3 Foundation Design

It is ASE's opinion that a reinforced concrete mat foundation bearing on compacted fill to ten (10) feet deep, inclusive of the reworking of exposed subgrade soils at the bottom of the overexcavation zone, with the uppermost two (2) feet further reinforced with geogrid, may be used to provide foundation support for the PS Facility and/or the Parking Structure, as per discussed in Section 6.2.3 above. Alternatively, the PS Facility and/or the Parking Structure could be supported by footing foundations tied with grade beams and slabs-on-grade overlying two (2) feet of compacted fill overlying a 3-foot-thick GRLTP that is supported by VSC's to thirty (30) feet deep, with the VSC's also mitigating liquefaction hazard, as per discussed in Section 6.2.4 above. Also presented are recommendations for supporting ancillary structural improvements (i.e. screen walls, planters, trash enclosures, etc.) on conventional shallow footing foundation and supporting light poles/flag poles on Cast-In-Drilled-Hole (CIDH) piers.

### 6.3.1 Mat Foundation:

a) Allowable Soils Bearing Capacity:

An allowable soil bearing capacity of 1,500 psf may be used in the design of mat foundation for supporting the PS Facility and/or the Parking Structure, when supported on geogrid-reinforced compacted fill outlined in Section 6.2.3 above. The allowable soil bearing capacity may be increased by one-third (1/3) when subjected to live load and/or short-term, transient loading from wind or seismic activities. For structural design of the mat foundation, a coefficient of subgrade reaction (k-value) on the order of 150 pounds per square inch (psi/in) may be used.

b) Mat Foundation Embedment:

Recommended minimum mat foundation embedment is twelve (12) inches below lowest adjacent finish soil grade. From a geotechnical viewpoint, as a minimum, the mat foundation should be reinforced with two (2) layers of No. 5 reinforcing bars placed near top and bottom

of mat and spaced at 12 inches on centers each way. However, foundation design details such as a concrete strength, reinforcements, etc. should be established by the Structural Consultant.

c) Lateral Resistance:

Resistance to lateral loads can be assumed to be provided by passive lateral earth pressure and by friction acting on structural components in permanent contact with the subgrade soils.

For site preparation implemented as per recommended in Section 6.2.3 above, lateral resistance on the sides of mat foundation may be computed using a passive lateral earth pressure of 220 pcf EFP for footings embedded into approved compacted site soils, subject to a maximum of 2,200 psf. An ultimate coefficient of friction on the order of 0.4 may also be used for structural dead load active between the mat foundation bottom and the supporting soils. The aforementioned passive lateral earth pressure may be used in conjunction with the ultimate coefficient of friction in calculating composite lateral resistance, provided the passive lateral earth pressure value is reduced by one-third (1/3). The composite lateral resistance may be increased by one-third (1/3) under transient wind or seismic loading.

d) Settlements:

Tabulated below are the estimated static settlements anticipated to occur at the base of the mat foundation supporting the PS Facility and/or the Parking Structure with the assumed mat dimension and loading, following the remedial grading recommendations discussed in Section 6.2.3 above.

| **Assumed Mat Dimension** | **Uniform Applied Pressure (psf)** | **Estimated Static Settlement (inches)** | |
|---|---|---|---|
| | | **Center** | **Corner** |
| 100'x100' | 1,000 | 0.85 | 0.65 |

Actual static settlements may be greater or less, dependent on load distribution across the planned mat construction, final mat dimension and mat rigidity. If the mat is to be designed and constructed as a rigid unit, estimated total static settlement across the mat is anticipated to be on the order of 3/4 of the value of the center settlement, i.e. 0.57 inch, with a minimal differential movement.

Upon completion of remedial grading as per recommended in Section 6.2.3 above, the respective "wet" seismic settlements, "dry" seismic settlements and static ground settlements within fifty (50) feet deep for the PS Facility and/or the Parking Structure based on soil profiles of CPT-1 through CPT-5 are tabulated on next page:

| CPT Test/Boring Location | Post-Grading "Wet" Seismic Settlement within 50' deep (in) | Post-Grading "Dry" Seismic Settlement (in) | Post-Grading Static Settlement (in) [a] | Composite Post-Grading Settlement within 50' deep (in) [a] |
|---|---|---|---|---|
| CPT-1 | 3.79 | 0.00 | 0.85 | 4.64 |
| CPT-2 | 2.41 | 0.00 | 0.85 | 3.26 |
| CPT-3 | 3.70 | 0.00 | 0.85 | 4.55 |
| CPT-4 | 3.54 | 0.00 | 0.85 | 4.39 |
| CPT-5 | 2.80 | 0.00 | 0.85 | 3.65 |
| B-1 | 3.98 | 0.00 | 0.85 | 4.83 |
| B-5 | 2.31 | 0.00 | 0.85 | 3.16 |

a. Static settlement from center of mat.

Based on the above table, the post-grading differential settlement of 1.39 inches between CPT-3 test location and B-5 boring location appears to be the steepest. With an approximate linear distance of 220 feet between these two locations, this amount of differential settlement corresponds to an angular distortion of approximately 1/1,900, a value that is much less than the threshold of 0.002L (or approximately 1/500) for "Multistory structures with concrete or masonry wall systems" with a Risk Category of IV per Table 12.13-3 of ASCE 7-16. As such, the adoption of mat foundations for the support of the PS Facility and/or the Parking Structure is deemed suitable from differential settlement consideration, upon implementation of remedial grading discussed in Section 6.2.3 above.

Please note that the Geotechnical Consultant should be contacted for further evaluation and recommendations, as necessary, should final design structural loads exceed the maximum load assumed in Section 1.1.2 above by more than ten (10) percent or the final mat foundation dimension exceeds the assumed mat foundation dimension by more than ten (10) percent.

6.3.2 Footing Foundation tied with Grade Beams over GRLTP over VSC's:

a) Minimum Footing Dimension and Reinforcement:

For footing foundation supporting the PS Facility and/or the Parking Structure, it is recommended that the following tabulated minimum footing embedments, widths and reinforcements for various footing types be considered. The new footings should be embedded into approved compacted fill soils.

| **Minimum Footing Dimension & Reinforcement** | | | | | |
|---|---|---|---|---|---|
| **Continuous Spread Footing/Strip Footing** | | | **Isolated Pad Footing** | | |
| **Depth [(1)] (in)** | **Width (in)** | **Reinforcement [(2)]** | **Depth [(1)] (in)** | **Width (in)** | **Reinforcement [(2)]** |
| 24 | 18 | Four #4 bars – two near the top and two near the bottom | 24 | 36 square | Four #4 bars – two near the top and two near the bottom, applied bi-axially |

(1) Footing embedment measured from the nearest adjacent lowest soils grade.
(2) Based strictly from geotechnical point of view.

The footing foundations should be tied with grade beams at least 12 inches wide embedded to the same depth as the footings to enhance the rigidity against potential differential movements that might otherwise be experienced by the footing foundations and slabs. The same minimum reinforcement recommended for adjacent footings should be applied to grade beams as well.

Foundation design details such as concrete strength, reinforcements, etc. should be established by the Structural Consultant.

b) Allowable Soils Bearing Capacity:

For footings complying with the minimum dimension requirements stipulated in Section 6.3.2.a) above, the allowable soils bearing capacities, inclusive of both dead and live loads, should be as per tabulated below.

| Allowable Soils Bearing Capacity (psf) | | Increase per 12-inch Footing Width Increment (psf) | Increase per 12-inch Footing Depth Increment (psf) | Max. Composite Ceiling Value (psf) |
|---|---|---|---|---|
| Continuous Spread Footing/ Strip Footing | Isolated Pad Footing | | | |
| 2,000 | 2,000 | 200 | N/A [a] | 3,500 [b] |

a. The maximum footing depth should not be greater than the top elevation of GRLTP.
b. Governed by tensile strength of geo-sythetic material used in GRLTP and the compressive load capacity of VSC.

The above allowable bearing capacities may be increased by one-third (1/3) when subject to short-term, transient loading induced by wind or seismic activities.

c) Lateral Resistance:

Resistance to lateral loads can be assumed to be provided by passive lateral earth pressure and by friction acting on structural components in permanent contact with the subgrade soils. For site preparation implemented as per recommended in Section 6.2.4 above, lateral resistance on the sides of foundations may be computed using a passive lateral earth pressure of 220 pcf EFP for footings embedded into approved compacted fill soils, subject to a maximum of 2,200 psf. An ultimate coefficient of friction on the order of 0.4 may also be used for structural dead load acting between the footing bottom and the supporting soils. Please note that the same passive lateral earth pressure could be considered applicable to the sides of grade beams. However, there is no ultimate coefficient of friction applicable to the bottoms of grade beams due to the nature and functionality of grade beams.

The above passive lateral earth pressure may be used in conjunction with the ultimate coefficient of friction in calculating composite lateral resistance, provided the passive lateral earth pressure value is reduced by one-third (1/3). The composite lateral resistance may be increased by one-third (1/3) under short term, transient wind or seismic loading.

d) Settlements:

Total static settlements resulting from compression of subgrade soils for conventional footings designed and constructed in accordance with the above criteria, and supporting maximum assumed dead plus live (D+L) column and wall loads mentioned in Section 1.1.2 above, are not anticipated to exceed 1/2 inch, upon completion of remedial grading, GRLTP, and VSC's recommended in Sections 6.0 and 6.2.4 above. A differential settlement on the order of 1/4 inch over a distance of 30 feet is anticipated between similarly loaded adjacent isolated pad footings, between isolated pad footings and continuous wall footings, and for continuous wall footings over a distance of approximately 30 feet.

Upon completion of remedial grading, GRLTP, and VSC's recommended in Sections 6.0 and 6.2.4 above, the respective "wet" seismic settlements, "dry" seismic settlements and static ground settlements within fifty (50) feet deep for the PS Facility and/or the Parking Structure based on soil profiles of CPT-1 through CPT-5 are tabulated below:

| CPT Test Location | Post-Ground Modification "Wet" Seismic Settlement within 50' deep (in) [a] | Post-Ground Modification "Dry" Seismic Settlement (in) [a] | Post-Ground Modification Static Settlement (in) [a] | Composite Post-Ground Modification Settlement within 50' deep (in) [a] |
|---|---|---|---|---|
| CPT-1 | 2.39 | 0.00 | 0.5 | 2.89 |
| CPT-2 | 1.52 | 0.01 | 0.5 | 2.03 |
| CPT-3 | 2.33 | 0.32 | 0.5 | 3.15 |
| CPT-4 | 2.12 | 0.00 | 0.5 | 2.62 |
| CPT-5 | 1.76 | 0.00 | 0.5 | 2.26 |
| B-1 [b] | 2.37 | 0.00 | 0.5 | 3.27 |
| B-5 [b] | 2.01 | 0.00 | 0.5 | 2.51 |

a. Ground modification consists of VSC's to 30' deep + GRLTP.
b. Assuming 60% of "wet" seismic settlement within 30' to be eliminated.

Based on the above table, the post-grading differential settlement of 0.64 inch between CPT-3 test location and B-5 boring location appears to be the steepest. With an approximate linear distance of 220 feet between these two locations, this amount of differential settlement corresponds to an angular distortion of approximately 1/2,400, a value that is much less than the threshold of 0.002L (or approximately 1/500) for "Multistory structures with concrete or masonry wall systems" with a Risk Category of IV per Table 12.13-3 of ASCE 7-16. As such, the adoption of footing foundation tied with grade beams over GRLTP over VSC's for the support of the PS Facility and/or the Parking Structure is deemed suitable from differential settlement consideration, upon completion of remedial grading, GRLTP, and VSC's recommended in Sections 6.0 and 6.2.4 above.

Please be reminded that the Geotechnical Consultant should be contracted for further evaluation and recommendations, as necessary, should final design structural loads exceed the maximum loads assumed in Section 1.1.2 above by more than ten (10) percent.

6.3.3 Footing Foundations for Ancillary/Secondary Structures:

a) Minimum Footing Dimension and Reinforcement:

In order to mobilize sufficient soils bearing capacity supporting the new footings for any planned ancillary/secondary construction, it is recommended that the following tabulated minimum footing embedments, widths and reinforcements for various footing types be considered. The new footings should be embedded into approved compacted fill soils. Foundation design such as concrete strength, reinforcements, etc. should be established by the Structural Consultant.

| **Minimum Footing Dimension & Reinforcement** | | | | | |
|---|---|---|---|---|---|
| **Continuous Spread Footing/Strip Footing** | | | **Isolated Pad Footing** | | |
| **Depth (in) [1]** | **Width (in)** | **Reinforcement [2]** | **Depth (in) [1]** | **Width (in)** | **Reinforcement [2]** |
| 12 | 12 | Two #4 bars – one near the top and one near the bottom | 12 | 18 square | Two #4 bars – one near the top and one near the bottom, applied bi-axially |

1. Footing embedment measured from the nearest adjacent lowest soils grade.
2. Based strictly from geotechnical point of view.

b) Allowable Soils Bearing Capacity:

For footings complying with the minimum dimension requirements stipulated in Section 6.3.5 a) above, the allowable soils bearing capacities, inclusive of both dead and live loads, should be as per tabulated below:

| **Allowable Soils Bearing Capacity (psf)** | | **Increase per 12-inch Increment in Footing Width (psf)** | **Increase per 12-inch Increment in Footing Depth (psf)** | **Maximum Composite Ceiling Value (psf)** |
|---|---|---|---|---|
| **Continuous Spread Footing/ Strip Footing** | **Isolated Pad Footing** | | | |
| 1,500 | 1,500 | 100 | 350 | 2,500 |

The above allowable bearing capacities may be increased by one-third (1/3) when subject to short-term, transient loading induced by wind or seismic activities.

c) Lateral Resistance:

Resistance to lateral loads can be assumed to be provided by passive lateral earth pressure and by friction acting on structural components in permanent contact with the subgrade soils.

Lateral resistance on the sides of foundations may be computed using a passive lateral earth pressure of 220 pcf EFP for footings embedded into approved compacted fill soil, subject to a maximum of 2,200 psf. An ultimate coefficient of friction on the order of 0.4 may also be used for structural dead load acting between the footing bottom and the supporting soils. The above passive lateral earth pressure may be used in conjunction with the ultimate coefficient of friction in calculating composite lateral resistance, provided the passive lateral earth pressure value is reduced by one-third (1/3). The composite lateral resistance may be increased by one-third (1/3) under short term, transient wind or seismic loading.

d) Static Settlements:

Total static settlements resulting from compression of subgrade soils for footing foundations designed and constructed in accordance with the above criteria, and supporting maximum assumed dead plus live (D+L) column and wall loads of 10 kips and 2,000 pounds per linear foot, respectively, are not anticipated to exceed ½ inch. A differential settlement on the order of ¼ inch over a distance of 30 feet is anticipated between similarly loaded adjacent isolated pad footings, as well as for continuous wall footings over a distance of approximately 30 feet.

Please be reminded that the Geotechnical Consultant should be contracted for further evaluation and recommendations, as necessary, should final design structural loads exceed the abovementioned assumed loads by more than ten (10) percent.

6.3.4 Cast-In-Drilled-Hole (CIDH) Short Piers for Light Standards, Flag Poles, and Signages:

Presented below are the recommended geotechnical design and construction criteria for CIDH short piers supporting any planned light standard, flag pole, and/or signage.

a) Allowable Soils Bearing Capacity:

The CIDH short piers should have a minimum of eighteen (18) inches in diameter, a minimum embedment depth of eight (8) feet, and a minimum space no closer than three (3) diameters on centers. An allowable soils bearing capacity of 4,500 psf may be used for end-bearing consideration. An increment of end bearing capacity of 400 psf for each 12-inch increase of CIDH caisson depth beyond eight (8) feet may be considered, subject to a ceiling value not exceeding 6,000 psf. A one-third (1/3) increase to the allowable soils bearing capacity could be considered for transient seismic and/or wind load condition.

b) Lateral Resistance:

For the consideration of passive resistance for the CIDH short piers, a passive lateral earth pressure on the order of 220 pcf EFP may be considered, subject to a ceiling value not exceeding 2,200 psf. An ultimate coefficient of friction on the order of 0.4 may also be used for

structural dead load acting between the bottom of CIDH short piers and the supporting soils with no reduction to passive lateral earth pressure. In addition to these values, a multiplier of 1.5 may be considered for CIDH short piers spaced no closer than 3 diameters on centers. Please note that the upper two (2) feet of CIDH short piers measured from subgrade level should be excluded from lateral resistance consideration due to anticipated installation-induced disturbance.

c) Static Settlements:

When designed and constructed as per recommended above, the CIDH short piers are anticipated to experience a total static settlement not exceeding one-half (1/2) inch, and a differential static settlement not exceeding one-quarter (1/4) inch between any two (2) nearest short piers.

d) General Guidelines for CIDH Short Pier Installation:

- Short pier drilling should be performed by experienced contractor with suitable equipment and should not be out-of-plumb by more than 0.5 percent of the short pier length.
- Casing should be used during drilling of any short pier within sand layers in the event caving conditions are experienced.
- All short pier excavations should be cleaned of loose soils and cuttings.
- A Geotechnical Consultant's representative should be present during all short pier drilling operations to verify short pier embedment depths and acceptability of bearing strata.
- After completion of drilling at each short pier location and approval by the Geotechnical Consultant or his representative, reinforcing steel and concrete should preferably be placed the same day to minimize soil moisture loss in excavation sidewalls and caving potential.
- The placement of reinforcement and concrete should conform to ACI and other applicable code requirements.
- Considerations should be given to the placement of concrete by tremie method. Care should be taken to prevent striking the walls of the excavations with the tremie pipe during concrete placement.
- If casing is used, concrete placement and casing removal should be done in stages such that the casing bottom is always as a minimum of 3 feet below the top of concrete.
- Short pier drilling and installation equipment and procedures proposed by the contractor should be reviewed by the Geotechnical Consultant.
- The designer should consider soil corrosivity values presented in Section 6.9 below.

6.3.5 Retaining Walls:

There is no retaining wall planned as part of the PS Facility and/or the Parking Structure construction at the time of this Soils Report preparation. If design or planning change requires the construction of retaining wall, ASE should be consulted for pertinent retaining wall design parameters and construction guidelines.

6.3.6 Footing/Foundation Observation:

All footing/foundation excavations should be observed by the Geotechnical Consultant's representative to verify minimum embedment depths and competency of bearing soils. Such observations should be made prior to placement of any reinforcing steel or concrete.

## 6.4 Slabs-On-Grade

Interior concrete slab-on-grade and exterior concrete flatwork should be supported on properly compacted or modified soils as recommended in Sections 6.2.1 and 6.2.8 above. The slab subgrade soils should also be proof-rolled just prior to construction to provide a firm, unyielding surface, especially if the subgrade has been disturbed or loosened by the passage of construction traffic. Final compaction and testing of slab subgrade should be performed just prior to placement of concrete.

For structural design of concrete slabs-on-grade supported by subgrade soils prepared as per recommended in Sections 6.2.1 and 6.2.8 above, a coefficient of subgrade reaction ("k") on the order of 150 pounds per square inch per inch ("psi/in") and an allowable bearing capacity of 900 psf may be used. Interior and exterior slabs should be properly designed and reinforced for the construction and service loading conditions. Geotechnically, it would be prudent to provide a minimum actual slab thickness of four and one-half (4.5) inches with minimum reinforcement consisting of number 4 reinforcing bars spaced maximum 12 inches on centers each way for interior slab-on-grade and a minimum actual slab thickness of four (4) inches with minimum reinforcement consisting of number 3 reinforcing bars spaced maximum 18 inches on centers each way for exterior concrete flatwork. The structural details, such as slab thickness, concrete strength, amount and type of reinforcements, joint spacing, etc., should be established by the Structural Consultant in accordance with pertinent sections in 2022 CBC.

The entirety of any new interior slabs within a building should be underlain by an impermeable vapor barrier (minimum 10-mil-thick visqueen). A minimum 12-inch overlap between visqueen sheets should be ensured during placement. All visqueen sheets should be puncture free prior to slab construction, and should be covered by two (2) inches of clean sand (Sand Equivalent, SE, ≥ 30 per ASTM D2419-14 Test Method) prior to placement of concrete. The visqueen should also underlain by two (2) inches of clean sand or aggregate as a capillary break. The concrete slab shall consist of a concrete mix design which will address

bleeding, shrinking and curling. Please note that if compliance with the current CalGreen code is required, then recommendations stipulated in Section 4.505.2.1 therein should govern.

Exterior slabs should be properly jointed to limit the number of concrete shrinkage cracks. For long/thin sections, such as sidewalks, expansion or control joints should be provided at spacing intervals equal to the width of the section. Slabs between 5 and 10 feet in minimum dimension should have a control joint at centerline. Slabs greater than 10 feet in minimum dimension should have joints such that unjointed sections do not exceed 10 feet in maximum dimension. Where flatwork adjoins structures, it is recommended that a foam joint or similar expansion material be utilized. Joint depth and spacing should conform to the ACI recommendations. It is, however, cautioned that uneven heaving of exterior slabs may develop in the future when prolonged irrigation or seepage permeates the subgrade soil, especially in areas that expansive soil pockets exist due to inadequate control or inspection of earthwork construction.

### 6.5 Asphaltic Concrete (AC) Flexural Pavement Design

The finish grade for any pavement area at the Site is anticipated to be underlain by compacted fill prepared as per recommended in Section 6.2.8 above. While a tested R-value of 65, shown in Appendix A, was obtained from testing a representative subgrade soil sample, in view of the likely heterogeneity of site soils, a conservative R-Value of 45 has been adopted in developing the following preliminary AC pavement sections together with three (3) traffic indices ("TI") of 4.5, 5.5 and 7.0, in accordance with the procedures stipulated in the current edition of the Caltrans Highway Design Manual:

| **Traffic Index (TI)** | **Pavement Section Alternatives** | | **Remark** |
|---|---|---|---|
| | **AC** (inches) | **AB** [2] (inches) | |
| 4.5 | 3.0 | 4.0 | For auto parking stalls. |
| 5.5 | 3.0 | 4.5 | For auto circulation aisles. |
| 7.0 | 4.0 | 6.0 | For fire lanes and truck access ways/entry and exits. |

1. CAB/CMB per Section 200-2.2/200-2.4 of the Greenbook and compacted to at least 95% relative compaction.

Please be reminded that the above preliminary pavement section recommendations have been established based purely on procedures stipulated in Caltrans Highway Design Manual. Governing authority should be consulted for minimum pavement section requirements and, if more stringent than that recommended by ASE, be complied with. It is recommended that R-Value testing be performed on representative soil samples after rough grading on the upper 2 feet to confirm/modify applicability of the above pavement sections, which were established based on an assumed R-value.

The aggregate base should conform to the Crushed Aggregate Base (CAB) or the Crushed Miscellaneous Base (CMB) per Section 200-2.2 or 200-2.4, respectively, of the Greenbook requirements. The base course should be compacted to a minimum relative compaction of 95% at a minimum of one (1) percentage point

above the optimum moisture content per the latest ASTM D 1557 Test Method. Field testing should be used to verify compaction, aggregate gradation, and compacted thickness.

The asphalt concrete pavement should be compacted to 95% of the unit weight as tested in accordance with the Hveem procedure. The asphalt concrete material shall conform to Type III, Class C2 or C3, of the Greenbook. All subgrade and aggregate base materials should be proof-rolled by heavy rubber tire equipment to verify that the subgrade and base grade are in a non-yielding condition.

If the paved areas are to be used during construction, or if the type and frequency of traffic is greater than assumed in the design, the pavement section should be re-evaluated for the anticipated traffic.

### 6.6 Portland Cement Concrete (PCC) Pavements

The following concrete pavement sections are based on load safety factors of 1.0 and 1.1, and a modulus of subgrade reaction ("k" Value) of 150 pounds per cubic inch for site soils compacted as subgrade material, and the design procedures presented in the Portland Cement Association bulletin "Thickness Design for Concrete Highway and Street Pavements" (EB109.01P), 1984. A design service life of 20 years was assumed for the design of the Portland cement concrete pavement section.

| Concrete Flexural Strength (psi) [1] | Pavement Thickness (in) [2, 4] | Pavement Thickness (in) [3, 4] |
|---|---|---|
| 600 | 5.5 | 6.5 |
| 650 | 5.0 | 6.0 |

1. Represents 90-day flexural strength. Based on Figure 10 of Reference 16, concrete with 28-day unconfined compressive strength values of 4000 and 4500 psi typically correlates to 90-day flexural strength values of 600 and 650 psi, respectively.
2. Load Safety Factor = 1.0 (Auto Parking Stalls)
3. Load Safety Factor = 1.1 (Fire Lanes/Truck Traffic Areas/Entry and Exits)
4. Assumes no PCC shoulder or curb.

The Structural Consultant should establish the design details of the concrete pavement section, including reinforcements, concrete strength, and joint and load transfer requirements. In addition, it is recommended that edges of concrete pavements which are not adjacent to existing buildings, or are adjacent to planter areas, be downturned a minimum of 12 inches or be constructed with curbing to prevent water infiltration to subgrade soils. If edges are downturned or curbing is constructed, the above pavement thicknesses should be decreased by ½ inch.

The upper one (1) foot of exposed subgrade soils beneath concrete pavements should be further compacted to a minimum 95 percent relative compaction with a minimum moisture content of one (1) percentage point above optimum moisture content. Subgrade soils should exhibit a firm, unyielding surface in addition to the recommended compaction. Final compaction and testing of pavement subgrade should be performed just prior to placement of aggregate base and/or concreting. Other pertinent subgrade preparation measures stipulated in the "Thickness Design for Concrete Highway and Street Pavements" (EB109.01P), 1984, or required by the jurisdictional municipal authorities should be followed accordingly.

## 6.7 Site Drainage

Per Section 1804A.4 of 2022 CBC, a minimum 5% descending gradient away from the Gym for a minimum distance of 10 feet should be incorporated for earth grade placed adjacent to the foundation. This descending gradient may be reduced to 2% for any impervious areas, such as concrete paved walkways, within the 10-foot zone. For areas where the 10-foot drainage distance is not attainable, alternative measure such as concrete-lined swales having a minimum 2% gradient may be adopted to divert the water away from the Gym, provided that the minimum 5% gradient is maintained in the distance between the building footprint and the diversion measure such as swales. For more specific site drainage guidelines, the Civil Consultant should refer to the pertinent sections in 2022 CBC.

Any planter areas to be placed adjacent to structure perimeters should be provided with solid bottoms and a drainage pipe, to divert water away from foundation and slab subgrade soils. Excessive moisture variations in site soils could result in significant volume changes and movement.

## 6.8 Soil Corrosivity Evaluation

Soils corrosivity tests were performed on selected representative site soil samples. These tests were meant to determine the corrosive potential of on-site soils to proposed concrete foundations/flatwork and underground metal conduits. The soils corrosivity test results are presented in Appendix A.

### 6.8.1 Concrete Corrosion:

Disintegration of concrete may be attributed to the chemical reaction of soils sulfates and hydrated lime and calcium aluminate with the cement. The severity of the reaction resulting in expansion and disruption of the cement is primarily a function of the concentration of soluble sulfates and the water-cement ratio of the concrete.

Soluble sulfate contents of 0.023% and 0.033% by weight have been measured by ASE following the latest CTM 417 test procedures, as per shown in Appendix A. Per Table 19.3.1.1 of ACI 318-19, soils exhibiting soluble content less than 0.1% by weight are classified as having a “S0” sulfate exposure category. As such, for structural features to be in direct contact with on-site soils, the special requirements as per stipulated in Table 19.3.2.1 of ACI 318-19 corresponding to the tested “S0” sulfate exposure class should be considered.

### 6.8.2 Metal Corrosion:

In the evaluation of soil corrosivity to metal, the hydrogen ion concentrates (pH) and the electrical resistivity of the site and backfill soils are the principal variables in determining the service life of ferrous metal conduit. The pH of soil and water is a measure of acidity or alkalinity, while the resistivity is a measure of the soils resistance to the flow of electrical current. Currently available

design charts indicate that corrosion rates decrease with increasing resistivities and increasing alkalinities. It can also be noted that for alkaline soils, the corrosion rate is more influenced by resistivity than by pH-value.

By following the latest CTM 643 test procedures, ASE had measured resistivity values of 2,130 and 2,185 ohm-cm and corresponding pH-values of 8.46 and 8.41, from representative site soil samples, as per shown in Appendix A. These resistivity values and pH0values classify the tested site soils to be "moderately corrosive" to buried ferrous metals. Based on Figure 1 of CTM 643, the year to perforation for 18-gauge steel in contact with soils of similar resistivity and pH-values is about 35 years for the moderately corrosive soils. In lieu of additional testing, alternative piping materials, i.e. plastic piping, may be used instead of metal if longer service life is desired or required. As the resistivity value of on-site soils may also have implications to other building materials and depths of embedment for steel reinforcement etc., t might be desirable that a qualified corrosion consultant be engaged to review the building plans.

Soluble chloride contents of 12 and 24 ppm were recorded in ASE laboratory tests following the latest CTM 422 test procedures. Per Caltrans guidelines and specifications (References 22 and 23), soils exhibiting soluble chloride contents exceeding 500 ppm are considered "corrosive". The soils are thus classified as "non-corrosive" per Caltrans criterion. Special measures in terms of rebar protection against chloride corrosion under Exposure Class "C0" stipulated in Tables 19.3.1.1 and 19.3.2.1 of ACI 318-19 are applicable as a result of the measured soluble chloride contents.

### 6.9 Utility Trenches

All trenches should be backfilled with approved fill material compacted to relative compaction of not less than 90 percent per the latest ASTM D1557 Test Method. Care should be taken during backfilling to prevent utility line damage.

The on-site soils may be used for backfilling utility trenches from one (1) foot above the top of pipe to the surface, provided the material is free of organic matter and deleterious substances. Any soft and/or loose materials or fill encountered at pipe invert should be removed and replaced with properly compacted fill or adequate bedding material.

Site and imported soils for pipe bedding should consist of non-expansive granular soils. Bedding materials should consist of sand with a tested SE value (ASTM D2419-22 Test Method) not less than 30.

If sandy soils are used for trench backfill, the backfill should be topped with a minimum 2-foot thick cap of compacted fine-grained soil. Also, a minimum 10-foot length of trench at the entrance and exit points of

structures should be backfilled with fine-grained soils to serve as a plug to prevent water migration into structure foundation support zones.

The walls of temporary construction trenches may not be stable when excavated nearly vertical due to potential for caving. Shoring of excavation walls or flattening of slopes will be required if excavation depths greater than 4 feet are necessary.

Trenches should be located so as not to impair the bearing capacity of soils or cause settlement under foundations. As a guide, trenches parallel to foundations should be clear of a 45-degree plane extending outward and downward from the edge of the foundations. All work associated with trenches, excavations and shoring must conform to the latest State of California Safety Code.

### 6.10 Plan Review, Observations and Testing

Once foundation and grading plans are completed, they should be forwarded to the Geotechnical Consultant for review of conformance with the intent of these recommendations and criteria presented in the pertinent sections of this report.

All excavations should be observed by a representative of this office to verify minimum embedment depths, competency of bearing soils and that the excavations are free of loose and disturbed materials. Such observations should be made prior to placement of any fill, reinforcing steel or concrete. All ground modification and/or grading operations should be performed under the observation of and testing by a Geotechnical Consultant or his representative.

## 7.0 FIELD PERCOLATION TEST DATA

Initial seepage rates obtained during the "Reading Time Interval Test" in Borings B-P1 and B-P2 after overnight pre-soaking indicated the time interval between readings should be 10 minutes maximum, i.e. the “Sandy Soil” category. The percolation tests were therefore performed using the sandy soil method (i.e. one hour test maximum) for Borings B-P1 and B-P2, in accordance with the State of California Regional Water Quality Board Technical Guidance Document Appendices (Appendix VII) procedures modified to test the cross sectional zone of typical soils within the level of anticipated storm water infiltration (e.g. approximately 1 foot to 5 feet and 6 feet to 10 feet below existing grade for Borings B-P1 and B-P2, respectively).

Field percolation testing was conducted on February 16, 2023. Stabilized field percolation test data indicates preadjusted percolation test rates ranging from 0.244 to 0.250 minutes per inch (mpi) for clean water at the locations of Borings B-P2 and B-P1, respectively. Field percolation test data is presented on the attached Plates H-1 and H-2 in Appendix A.

Tabulated below are the results of percolation testing conducted at the locations of Boring B-P1 and B-P2, including the infiltration rate derived from the Porchet Method of Percolation Rate Conversion procedures outlined in Appendix VII of the Technical Guidelines Document Appendices.

| Boring No. | Percolation Test Rate (Minutes/Inch) | Infiltration Rate* (Inches/Hour) |
|---|---|---|
| B-P1 | 0.250 | 5.333 |
| B-P2 | 0.244 | 5.559 |

*Infiltration Rate derived from Porchet Method Conversion from Percolation Rate using a Factor of Safety of 3.

The rates presented on the previous page are anticipated to be the fastest rates that can be absorbed by the site soils at the boring locations. However, with time and depending on the degree of saturation of soils and other factors, the percolation rate may reduce which is typical for sewage disposal or stormwater dispersal fields. Per Appendix VII, the results of the field percolation testing (i.e. measured infiltration rate greater than 0.3 inch per hour) indicate that site soils are deemed suitable for the planning and installation of an on-site stormwater LID system within the approximate upper one to ten (1-10) feet from existing grade.

While seepage pit type installation extending into deeper sandy soil could potentially provide acceptable infiltration rates for LID system, the relatively shallow groundwater at the Site, on the other hand, renders the compliance of the required buffer zone impossible with the installation of seepage pits.

Please be informed that during installation of on-site storm water dispersal system, the following factors should be noted:

- The degree of compactive effort in the upper 1 to 1.5 feet of soils above any filter material should be between 90 and 92 percent relative compaction. As any greater compactive efforts in the soil strata of water retention system construction may cause the percolation rates to reduce substantially, it is not advisable to impose significant structural loading in these areas, from a geotechnical viewpoint.
- The rate of water transmission from the filter material to the soil will be limited the porosity characteristics of the fabric wrap around the filter material.

## 8.0 CLOSURE

This report has been prepared for the exclusive use of **City of Garden Grove** and its design consultants for use in the planning, design and construction of the proposed PS Facility, Parking Structure and ancillary improvements at the Site. The report has not been prepared for use by other parties and may not contain sufficient information for purposes of other parties.

The City or its representatives are responsible for ensuring the information and recommendations contained in this report are brought to the attention of the project engineers and architects, incorporated

into the project plans, and implemented by project contractors. This report should be reflected on project grading plans as a part of the project specifications.

ASE requests and recommends proper notification from the City should any of the following occur:

1. Structural loading conditions vary from those utilized for evaluation and preparation of this report.
2. Final plans for site development indicate utilization of areas not originally proposed for construction.
3. The Site is not developed within 12 months following the date of this report.

If changes or delays do occur, this office should be notified and provided with finalized plans of site development for our review to enable us to provide the necessary recommendations for additional work and/or updating of the report. Any charges for such review and necessary recommendations would be at the prevailing rate at the time of performing review work.

The findings contained in this report are based upon our evaluation and interpretation of the information obtained from the limited number of test borings and the results of laboratory testing and engineering analysis. As part of the engineering analysis it has been assumed, and is expected, that the geotechnical conditions existing across the area of study are similar to those encountered in the test excavations. However, no warranty is expressed or implied as to the conditions at locations or depths other than those excavated. Should conditions encountered during construction differ significantly from those described in this report, this office should be contacted promptly for recommendations prior to continuation of work.

Our analyses and recommendations were obtained in accordance with generally accepted current professional principles and local practice in geotechnical engineering and reflect our best professional judgment. We make no other warranty, either express or implied. These recommendations are, however, dependent on the aforementioned assumption of uniformity and upon proper quality control of engineered fill and foundations. Geotechnical observations and testing should be provided on a continuous basis during grading at the site to confirm preliminary design assumptions and to verify conformance with the intent of our recommendations. If parties other than ASE are engaged to provide geotechnical services during construction, they must be informed that they will be required to assume complete responsibility for the geotechnical phase of the project by either concurring with the recommendations in this report or providing alternative recommendations.

This concludes our scope of services as indicated in ASE's proposal P23-019 dated February 3, 2023, however, our report is subject to review by the controlling authorities for the project. Any further geotechnical services that may be required of our office to respond to questions/comments of the controlling authorities after their review of the report will be performed on a time-and-expense basis as per

our current fee schedule. We would not proceed with any response to report review comments/questions without authorization from your office.

We at ASE appreciate your business and are prepared to assist you with construction-related services.

## APPENDIX A

The following Appendices contain the substantiating data and laboratory test results to complement the engineering evaluations and recommendations contained in the report.

### Site Exploration

On February 14, 2023, field exploration was performed by hydraulically pushing an instrumented cone-tipped probe mounted at the end of a series of hollow sounding rods into the ground at five (5) test locations, as per indicated on the Boring and CPT Test Locations Plan, Plate A. The Cone Penetrometer Testing (CPT) was performed by Kehoe Testing & Engineering, Inc. (KTEI), utilizing a direct-push CPT rig. The CPT was advanced to a terminal depth around 70 feet from the existing site grades at these test locations. Continuous profiling of soils encountered at the CPT test locations was logged by on-board data acquisition instrument. The recorded raw data were subsequently deducted from the instrument and converted into corresponding soil data by Kehoe Testing & Engineering, Inc., and forwarded to ASE for subsequent analysis. A copy of the "Summary of Cone Penetration Test Data" report dated February 16, 2023 prepared by KTEI is attached in Appendix G.

On February 15, 2023, additional field explorations were performed by drilling five (5) exploratory borings and two (2) percolation test borings at the approximate locations indicated on the Boring and CPT Test Locations Plan, Plate A. These exploratory borings were drilled by Choice Drilling, Inc., utilizing a truck mounted, CME75 rotary drilling rig equipped with 8-inch-diameter continuous flight, hollow-stem rotary augers. The five (5) exploratory borings were extended to terminal depths ranging from 26 feet 6 inches to 51 feet 6 inches, whereas the two (2) percolation test borings were extended one to 5 feet deep and the other one to 10 feet deep, all measured from corresponding existing grades. Continuous observations of the materials encountered in the borings were recorded in the field. The soils were classified in the field by visual and textural examination and these classifications were supplemented by obtaining bulk soil samples for future examination in the laboratory. Relatively undisturbed samples of soils were extracted in a Modified California barrel sampler lined with 2.416-inch diameter by one-inch-high rings and tipped with tapered cutting shoe. Additional samples were obtained in a Standard Penetration sampler in accordance with specifications outlined in ASTM D1586-18 Test Method. All samples were secured in moisture-resistant bags immediately after retrieval from exploratory boring to minimize the loss of field moisture, followed by timely transportation to ASE's laboratory for ensuing testing. Upon completion of exploration, the borings were backfilled with excavated materials and compacted by tamping. The set-up and implementation for percolation testing in the two (2) percolation test borings was discussed in Section 7.0 above.

Description of the soils encountered, depth of samples, field density and moisture content of tested samples, respective laboratory tests performed, as well as Standard Penetration Test ("N" Values) and Modified California barrel sampler blow counts are presented in the attached Field Logs of Boring (the "B" Plates and the Field Logs of Percolation Boring (the "B-P" Plates), whereas the interpretation of soils

encountered and relevant soils parametric values from CPT probing have been converted using the "CpeT-IT", version 3.5.4.9 software, and are incorporated into the CPT-based liquefaction analysis presented on Plates K-1 through K-35 in Appendix C.

The subsurface soils descriptions presented in the Field Logs of Boring and Field Logs of Percolation Boring have been interpreted from conditions exposed during the field investigation and/or information inferred from the reviewed geologic literature. As such, it is likely that not all of the subsurface conditions at the Site could be captured or represented. It is therefore essential that the Geotechnical Consultant's engineer or geologist be on site during grading and foundation construction such that information/recommendations deciphered during preliminary geotechnical investigation phase could be verified and, if necessary, amended as appropriate.

| | |
|---|---|
| Plate A | Boring and CPT Test Locations Plan |
| Plates B-1 through B-5 | Field Logs of Boring |
| Plates B-P1 and B-P2 | Field Logs of Percolation Boring |




**LEGEND**

| | |
|---|---|
| B-1/CPT-1 | Designated boring/CPT number |
| ● | Approximate boring location |
| 51'6"/70.202' | Terminal depth of boring/CPT |
| ⟍ | Approximate Site limits |

NOT TO SCALE


ASSOCIATED SOILS ENGINEERING, INC.
Consulting Geotechnical Engineers

**Associated Soils Engineering, Inc.**
**2860 Walnut Avenue**
**Signal Hill, CA 90755**
**Tel (562) 426-7990 Fax (562) 426-1842**


# CPT and Test Boring Location Plan

| | | |
|---|---|---|
| Project Name: | **Proposed Public Safety Facility NEC Acacia Pkwy & Euclid St., Garden Grove** | |
| **Plate A** | Proj. No.: | **7109.23** |
| | Date: | **April, 2023** |

# FIELD LOG OF BORING B-1

Sheet 1 of 3

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

| | | | |
|---|---|---|---|
| Date(s) Drilled: | **2/15/2023** | Logged By: | **John Whitney** |
| Drilled By: | **Choice Drilling, Inc.** | Total Depth: | **51 feet 6 inches** |
| Rig Make/Model: | **CME75** | Hammer Type: | **Automatic** |
| Drilling Method: | **Hollow-stem Auger** | Hammer Weight/Drop: | **140 Lb./±30In.** |
| Hole Diameter: | **8 inches** | Surface Elevation: | **N/A** |

Comments: Grounwater encountered at 37 feet. Backfill not determined.

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | | ASPHALTIC CONCRETE PAVEMENT: 4.0" | | | | |
| | | | | | | | AGGREGATE BASE MATERIAL: 4.0" | | | | |
| | | | | | | SM | SILTY SAND: Dark olive brown,moist,fine grained sand | | | | MAX DENSITY, EXPANSION, |
| | | | | 35(Ring) | | SP | SAND: Light brown to light gray with multicolored grains,damp,very fine to coarse-grained sand | 100.3 | 2.6 | | REMOLD SHEAR, CORROSIVITY, R-VALUE |
| 5 | | | | 45(Ring) | | | same as above | 96.3 | 1.8 | | CONSOL |
| 10 | | | | 22(SPT) | | | same as above | | 4.5 | | SIEVE, CORROSIVITY |
| 15 | | | | 74(Ring) | | SP | SAND: Gray, moist, very fine to fine-grained sand, thin clay layers | 98.3 | 10.3 | | SHEAR |

# FIELD LOG OF BORING B-1

Sheet 2 of 3

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | CL | SILTY CLAY: Dark Olive, moist | | | | |
| 20 | | | | 23(SPT) | | | same as above | | 29.3 | | |
| 25 | | | | 37(Ring) | | CL-SC | SANDY CLAY AND CLAYEY SAND: Dark gray, moist, very fine-grained sand | 102.0 | 23.0 | | CONSOL, GRAIN SIZE |
| 30 | | | | 24(SPT) | | CL | SILTY CLAY WITH SAND: Olive, moist, very fine-grained sand | | 26.4 | | |
| 35 | | | | 42(Ring) | | CL | SILTY CLAY: Dark olive gray, Moist | 103.3 | 23.5 | ▼ | |

# FIELD LOG OF BORING B-1

Sheet 3 of 3

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | | | | 18(SPT) | | SP-SC | SAND WITH CLAY: Olive gray, wet, very fine to fine-grained sand | | 18.5 | | ATTERBERG |
| | | | | | | ML-CL | CLAYEY SILT WITH SAND: Dark olive gray, moist, very fine-grained sand | | | | |
| 45 | | | | 45(Ring) | | | same as above, olive | 108.6 | 19.9 | | GRAIN SIZE, UCS, CORROSIVITY |
| | | | | | | CL | SILTY CLAY: Olive gray, very moist, trace very fine sand | | 29.4 | | |
| 50 | | | | 29(SPT) | | | | | | | |

# FIELD LOG OF BORING B-2

Sheet 1 of 2

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

| | | | |
|---|---|---|---|
| Date(s) Drilled: | **2/15/2023** | Logged By: | **John Whitney** |
| Drilled By: | **Choice Drilling, Inc.** | Total Depth: | **26 feet** |
| Rig Make/Model: | **CME75** | Hammer Type: | **Automatic** |
| Drilling Method: | **Hollow-stem Auger** | Hammer Weight/Drop: | **140 Lb./±30In.** |
| Hole Diameter: | **8 inches** | Surface Elevation: | **N/A** |

Comments: Grounwater not encountered. Backfill not determined.

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | Drive | TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | 15/6"(Ring) | | SM/ML | SILTY SAND AND CLAYEY SILT: Light olive brown,moist,fine grained sand | 115.1 | 10.8 | | CORROSIVITY |
| | | | | 28/6"(Ring) | | ML | SANDY SILT WITH CLAY: Light olive brown and dark grayish brown,moist, very fine-grained sand | 115.6 | 14.9 | | |
| 5 | | | | 45(Ring) | | ML | same as above | 106.3 | 9.5 | | |
| 10 | | | | 16(SPT) | | CL | SILTY CLAY WITH SAND: Very dark grayish brown, moist very fine-grained sand | | 21.4 | | SIEVE, CORROSIVITY |
| 15 | | | | 66(Ring) | | SP | SAND: Light gray to light brown with multi-color grains, dry, very fine to fine-grained sand, scattered coarse sand | 101.3 | 1.1 | | SHEAR |

# FIELD LOG OF BORING B-2

Sheet 2 of 2

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | | | 39(SPT) | | SP-SM | SAND WITH SILT: Light grayish brown, dry to damp, very fine to fine-grained sand | | 2.6 | | CORROSIVITY |
| 25 | | | | 86/11" (Ring) | | SM | SILTY SAND: Dark olive, damp to moist, fine-grained sand, large cobble | 108.6 | 8.6 | | CORROSIVITY |
| 30 | | | | | | | | | | | |
| 35 | | | | | | | | | | | |

# FIELD LOG OF BORING B-3

Sheet 1 of 2

| | | | |
|---|---|---|---|
| Project: | **Proposed Police Department-Garden Grove** | | |
| Location: | **NEC of Acacia Pkwy & Euclid St.** | Project No. | **7109.23** |

| | | | |
|---|---|---|---|
| Date(s) Drilled: | **2/15/2023** | Logged By: | **John Whitney** |
| Drilled By: | **Choice Drilling, Inc.** | Total Depth: | **26 feet 6 inches** |
| Rig Make/Model: | **CME75** | Hammer Type: | **Automatic** |
| Drilling Method: | **Hollow-stem Auger** | Hammer Weight/Drop: | **140 Lb./±30In.** |
| Hole Diameter: | **8 inches** | Surface Elevation: | **N/A** |

Comments: Grounwater not encountered. Backfill not determined.

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | ML | SANDY SILT: Very dark grayish brown, moist, very fine-grained sand | | | | |
| | | | | 24(Ring) | | | | 110.8 | 8.7 | | |
| 5 | | | | 15(SPT) | | CL | SILTY CLAY: Olive brown, moist, trace very fine sand | | 16.6 | | |
| 10 | | | | 28(Ring) | | CL | SILTY CLAY: Very dark grayish brown, moist | 100.2 | 23.7 | | CONSOL, SHEAR |
| 15 | | | | 26(SPT) | | SP | SAND: Light olive brown, damp, very fine to fine-grained sand | | 5.4 | | |

# FIELD LOG OF BORING B-3

Sheet 2 of 2

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | | | | | ML-CL | CLAYEY SILT TO SILTY CLAY: Olive gray, moist | 100.6 | 22.2 | | ATTERBERG |
| 25 | | | | | | SP/CL | to moist, fine-grained sand, loose sand bedded with firm clay | | 5.4 | | |
| 30 | | | | | | | | | | | |
| 35 | | | | | | | | | | | |

# FIELD LOG OF BORING B-4

Sheet 1 of 2

| | | | |
|---|---|---|---|
| Project: | **Proposed Police Department-Garden Grove** | | |
| Location: | **NEC of Acacia Pkwy & Euclid St.** | Project No. | **7109.23** |

| | | | |
|---|---|---|---|
| Date(s) Drilled: | **2/15/2023** | Logged By: | **John Whitney** |
| Drilled By: | **Choice Drilling, Inc.** | Total Depth: | **25 feet 11 inches** |
| Rig Make/Model: | **CME75** | Hammer Type: | **Automatic** |
| Drilling Method: | **Hollow-stem Auger** | Hammer Weight/Drop: | **140 Lb./±30In.** |
| Hole Diameter: | **8 inches** | Surface Elevation: | **N/A** |

Comments: Grounwater not encountered. Backfill not determined.

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | SC | CLAYEY SAND: Olive, moist, very fine to fine-grained sand, trace pebbles | | | | |
| | | | | 29(Ring) | | | | 101.4 | 14.3 | | |
| 5 | | | | 43(Ring) | | SP | SAND: Light grayish brown, damp, fine to coarse-grained sand | 106.7 | 3.3 | | SHEAR |
| 10 | | | | 29(SPT) | | SP | SAND: Light gray, damp, very fine to fine-grained sand | | 4.8 | | |
| 15 | | | | 53(Ring) | | | same as above | 93.1 | 7.0 | | CONSOL |
| | | | | | | CL | SILTY CLAY: Olive gray, moist | | | | |

# FIELD LOG OF BORING B-4

Sheet 2 of 2

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | CL | SILTY CLAY: Olive gray, moist | | | | |
| 20 | | | | 47(SPT) | | SP | SAND: Light yellowish brown to grayish brown, moist, very fine to fine-grained sand | | 8.9 | | |
| | | | | | | SP-SM | SAND WITH SILT: Gray, moist, very fine to fine-grained sand | | | | |
| 25 | | | | 84/11" (Ring) | | | | 107.1 | 8.7 | | CORROSIVITY |
| 30 | | | | | | | | | | | |
| 35 | | | | | | | | | | | |

# FIELD LOG OF BORING B-5

Sheet 1 of 3

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

| | | | |
|---|---|---|---|
| Date(s) Drilled: | **2/15/2023** | Logged By: | **John Whitney** |
| Drilled By: | **Choice Drilling, Inc.** | Total Depth: | **51 feet 6 inches** |
| Rig Make/Model: | **CME75** | Hammer Type: | **Automatic** |
| Drilling Method: | **Hollow-stem Auger** | Hammer Weight/Drop: | **140 Lb./±30In.** |
| Hole Diameter: | **8 inches** | Surface Elevation: | **N/A** |

Comments: Grounwater encountered at 35 feet. Backfill not determined.

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | CL | SILTY CLAY, Very dark grayish brown, moist | | | | MAX DENSITY, EXPANSION, REMOLD SHEAR |
| 2 | | | | 18(Ring) | | | same as above, trace fine sand | 110.6 | 14.6 | | |
| 5 | | | | 49(Ring) | | | same as above, some fine sand | 105.1 | 21.5 | | CONSOL |
| 10 | | | | 25(SPT) | | SP/CL | SAND AND SILTY CLAY: Grayish brown, moist, very fine to fine-grained sand | | 8.0 | | |
| 15 | | | | 53(Ring) | | SP | SAND: Light gray with multi-colored grains, very fine to coarse-grained sand, trace pebbles | 109.2 | 1.7 | | |

# FIELD LOG OF BORING B-5

Sheet 2 of 3

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS Bulk | SAMPLE INTERVALS Drive | SAMPLE INTERVALS TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 20 | | | ■ | 33(SPT) | | ML-CL | CLAYEY SILT: Light olive brown, moist | | 14.9 | | |
| 25 | | | ■ | 85/10" (Ring) | | ML-CL | CLAYEY SILT: Very dark grayish brown, damp, trace fine sand | 111.1 | 7.8 | | SHEAR |
| 30 | | | ■ | 45(SPT) | | SM-SC | SILTY SAND AND CLAYEY SAND: Light brownish gray, wet, very fine to fine-grained sand | | 19.5 | | |
| 35 | | | ■ | 43(Ring) | | CL | SANDY CLAY: Dark olive, moist, fine-grained sand | | | ▼ | |

# FIELD LOG OF BORING B-5

Sheet 3 of 3

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

ASSOCIATED SOILS ENGINEERING, INC.

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 40 | | | | | | CL-CH | SANDY SILT WITH CLAY: Very dark grayish brown, moist, fine-grained sand | | 19.9 | | GRAIN SIZE |
| 45 | | | | | | CL | SILTY CLAY: Dark olive gray, very moist, light brown siltstone nodules | 100.9 | 24.9 | | GRAIN SIZE, SHEAR, CORROSIVITY |
| 50 | | | | | | CH | CLAY AND SANDY CLAY: Dark olive gray, wet to very moist, fine-grained sand | | 27.3 | | ATTERBERG, CORROSIVITY |

# FIELD LOG OF PERCOLATION BORING B-P1

Sheet 1 of 1

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

| | | | |
|---|---|---|---|
| Date(s) Drilled: | **2/15/2023** | Logged By: | **John Whitney** |
| Drilled By: | **Choice Drilling, Inc.** | Total Depth: | **10 feet** |
| Rig Make/Model: | **CME75** | Hammer Type: | **Automatic** |
| Drilling Method: | **Hollow-stem Auger** | Hammer Weight/Drop: | **140 Lb./±30In.** |
| Hole Diameter: | **8 inches** | Surface Elevation: | **N/A** |

Comments: Grounwater not encountered. Backfill not determined.

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | SP | SAND: Olive brown to dark grayish brown, damp to moist, very fine to fine-grained sand, trace silt, clay and coarse sand | | | | |
| 2 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| | | | | 31(SPT) | | | same as above | | 9.1 | | PERCOLATION |
| 10 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |

NOTE: 10 feet (upper 5'0" solid and lower 5'0" slotted) PVC pipe place in boring with annular area backfilled with pea gravel to surface. Two (2.0) inches of pea gravel placed at bottom of pipe. Percolation test performed after overnight presoaking.

# FIELD LOG OF PERCOLATION BORING B-P2

Sheet 1 of 1

Project: **Proposed Police Department-Garden Grove**

Location: **NEC of Acacia Pkwy & Euclid St.** Project No. **7109.23**

| | | | |
|---|---|---|---|
| Date(s) Drilled: | **2/15/2023** | Logged By: | **John Whitney** |
| Drilled By: | **Choice Drilling, Inc.** | Total Depth: | **5 feet** |
| Rig Make/Model: | **CME75** | Hammer Type: | **Automatic** |
| Drilling Method: | **Hollow-stem Auger** | Hammer Weight/Drop: | **140 Lb./±30In.** |
| Hole Diameter: | **8 inches** | Surface Elevation: | **N/A** |

Comments: Grounwater not encountered. Backfill not determined.

| DEPTH (FT) | ELEVATION (MSL) | SAMPLE INTERVALS: Bulk | SAMPLE INTERVALS: Drive | SAMPLE INTERVALS: TYPE "N" (Blows/ft.) | LITHOLOGY | USCS | GEOTECHNICAL DESCRIPTION | DRY DENSITY (pcf) | MOISTURE CONTENT (%) | WELL COMPLETION | OTHER TESTS |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 0 | | | | | | SP | SAND: Light grayish brown, damp, very fine to fine-grained sand, trace clay and coarse sand | | 3.6 | | PERCOLATION |
| 2 | | | | | | | | | | | |
| 5 | | | | | | | | | | | |
| 10 | | | | | | | | | | | |
| 15 | | | | | | | | | | | |

NOTE: 5 feet (5'0") slotted PVC pipe place in boring with annular area backfilled with pea gravel to surface. Two (2.0) inches of pea gravel placed at bottom of pipe. Percolation test performed after overnight presoaking.

**Laboratory Tests**

After samples were visually classified in the laboratory, a testing program aimed at generating sufficient data for subsequent evaluation was established and implemented.

- Moisture Content and Density Tests

The undisturbed soil retained within the rings of the Modified California barrel sampler was tested in ASE's laboratory to determine in-place dry density and moisture content. Pertinent test results are presented on the corresponding Field Logs of Boring and Field Logs of Percolation Boring.

- Consolidation and Direct Shear Tests

Consolidation (ASTM D2435-11 Test Method) and direct shear (ASTM D3080-11 Test Method) tests were performed by ASE on selected relatively undisturbed and remolded samples to determine the settlement characteristics and shear strength parameters of various soil samples, respectively. The results of the consolidation and direct shear tests are shown graphically on the attached "C" and "D" Plates, respectively.

- Soil Corrosivity

PGI's Tests of soluble sulfate and chloride contents were performed in accordance with the latest edition of California Test Methods 417 and 422, respectively, to assess the degree of corrosivity of the subgrade soils with regard to concrete and normal grade steel. Resistivity and pH-value tests were performed in accordance with the latest edition California Test Method 643 to assess the degree of corrosivity of the subgrade soils with regard to ferrous metal piping. The test results are tabulated below.

| Sample ID | Sulfate Content [1] (%)/ Exposure Category | Chloride Content [2] (ppm) / Exposure Category | Resistivity [3] (OHM-cm)/ Exposure Aggressiveness | Ph-Value[4] |
|---|---|---|---|---|
| Combined B-2, 3 & 4 @ 20' - 25' | 0.033/S0 | 24/C0 | 2,185/Moderately Corrosive | 8.41 |
| B-5 @40'-50' | 0.023/S0 | 12/C0 | 2,130/Moderately Corrosive | 8.46 |

(1) California Test Method 417. (2) California Test Method 422. (3) ASTM G187-18 Test Method. (4) California Test Method 643.

- Atterberg Limit Tests

The Atterberg Limits (liquid limit-plastic limit and plasticity index) were determined on selected soils samples in accordance with ASTM D4318-10 test procedures, Method A (multi-point test), dry preparation procedures., with the test results presented on the attached Plates E-1 and E-2.

- Maximum Dry Density/Optimum Moisture Content Tests

Maximum density tests were conducted in accordance with ASTM D1557-12, Method A, using 5 equal layers, 25 blows each layer, 10-pound hammer, 18 inch drop in a 1/30 cubic foot mold. The results are tabulated on next page:

**Laboratory Tests** – continued

| Sample ID | Maximum Dry Density (pcf) | Optimum Moisture Content (%) | Material Classification |
|---|---|---|---|
| B-1 @ 1-5’ | 124.0 | 10.5 | SM (Silty Sand) |
| B-5 @0-5’ | 129.0 | 10.5 | SP (Fine to Coarse Sand) |

- Grain Size Analysis

THE grain size analysis tests were performed in accordance with ASTM D422-63 (2007) Test Method to determine the particle size distribution of various soils sampled in the borings. The results of these tests are shown graphically on the attached “G” Plates.

- Expansion Tests

Expansion tests were performed on selected representative soil samples in accordance with ASTM D4829-18 Test Method. The result is tabulated below.

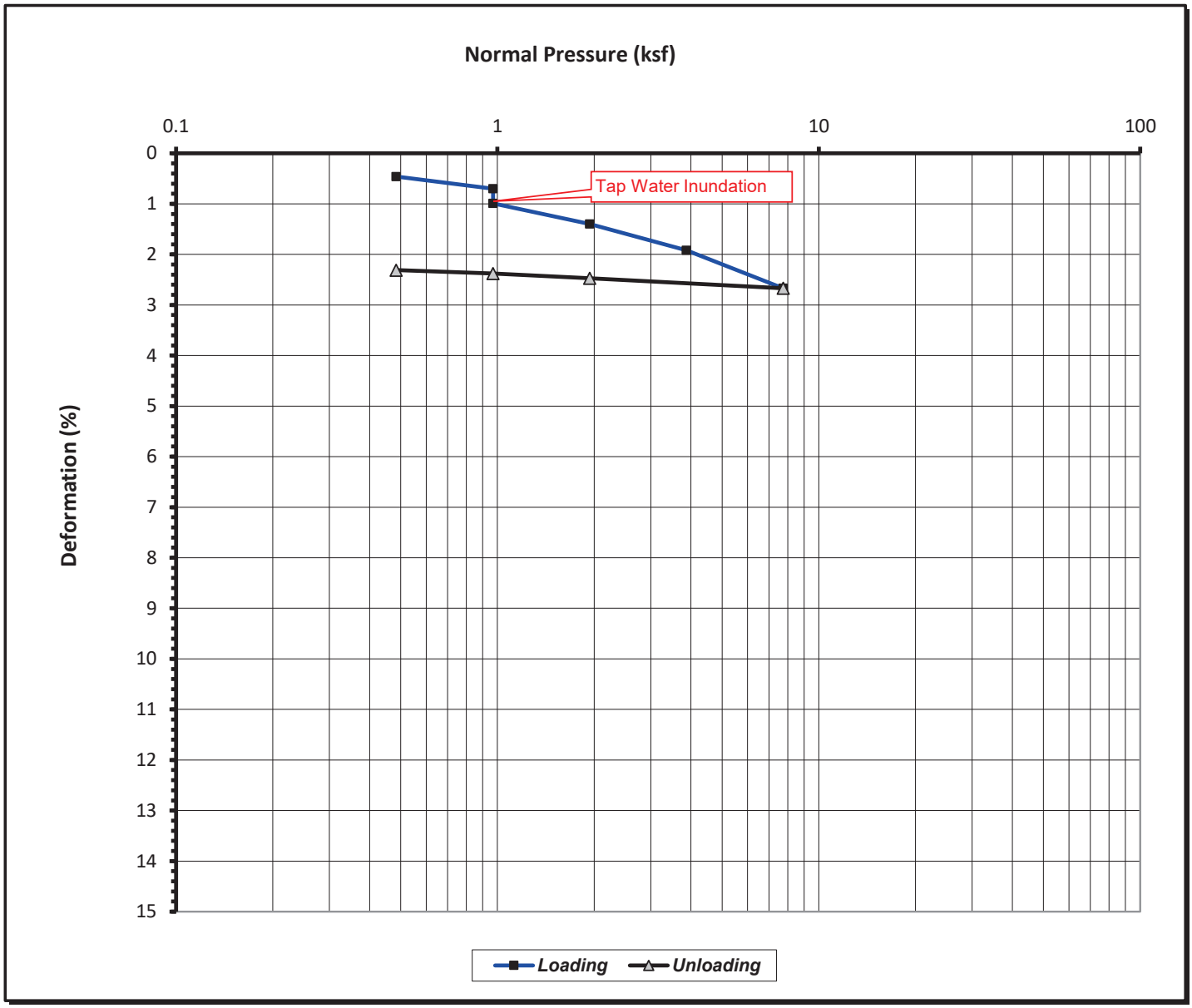
| Sample ID | Molded Dry Density (pcf) | Molded Moisture Content (%) | % Saturation | Expansion Index (EI) | Expansion Classification |
|---|---|---|---|---|---|
| B-1@ 1’ -5’ | 107.5 | 11.54 | 50.04 | 0 | Very Low |
| B51@ 0 -5’ | 102.1 | 9.6 | 51.91 | 0 | Very Low |

- “R” Value Analysis

The following “R” Value Stabilometer results were obtained in accordance with California 301 test procedures.

| Stabilometer Results | Trial #1 | Trial #2 | Trial #3 |
|---|---|---|---|
| **Dry Density as molded, pcf** | 117.9 | 117.1 | 116.9 |
| **Moisture content as molded, %** | 12.0 | 12.9 | 13.9 |
| **Expansion Pressure, dial reading $10^4$** | 0 | 0 | 0 |
| **Exudation Pressure, psi** | 505 | 385 | 230 |
| **Stabilometer “R” Value** | 76 | 71 | 60 |
| **Classification:** Olive Brown Sand with trace silt and gravel | | | |
| **Source:** Boring B-1 @ 1’ – 5’ | | | |
| **“R” Value equilibrium (300 psi Exudation Pressure) = 65** | | | |

| | |
|---|---|
| Plates C-1 through C-5 | Uni-axial Consolidation Test Results |
| Plates D-1 through D-7 | Direct Shear Test Results |
| Plates E-1 and E-2 | Atterberg Limits Test Results |
| Plate G-1 | Particle Size Analysis Test Results |
| Plates H-1 and H-2 | Field Percolation Data Sheets |




| | | | |
|---|---|---|---|
| **Sample Location** | B-1 @ 5' | **Dry Density (pcf)** | 98.3 |
| | | **Moisture (%)** | 2.8 |
| **Sample Type** | Ring | | |
| **Sample Description** | Silty Sand - multi-color grained sand | | |
| **Remark** | Undisturbed sample | | |


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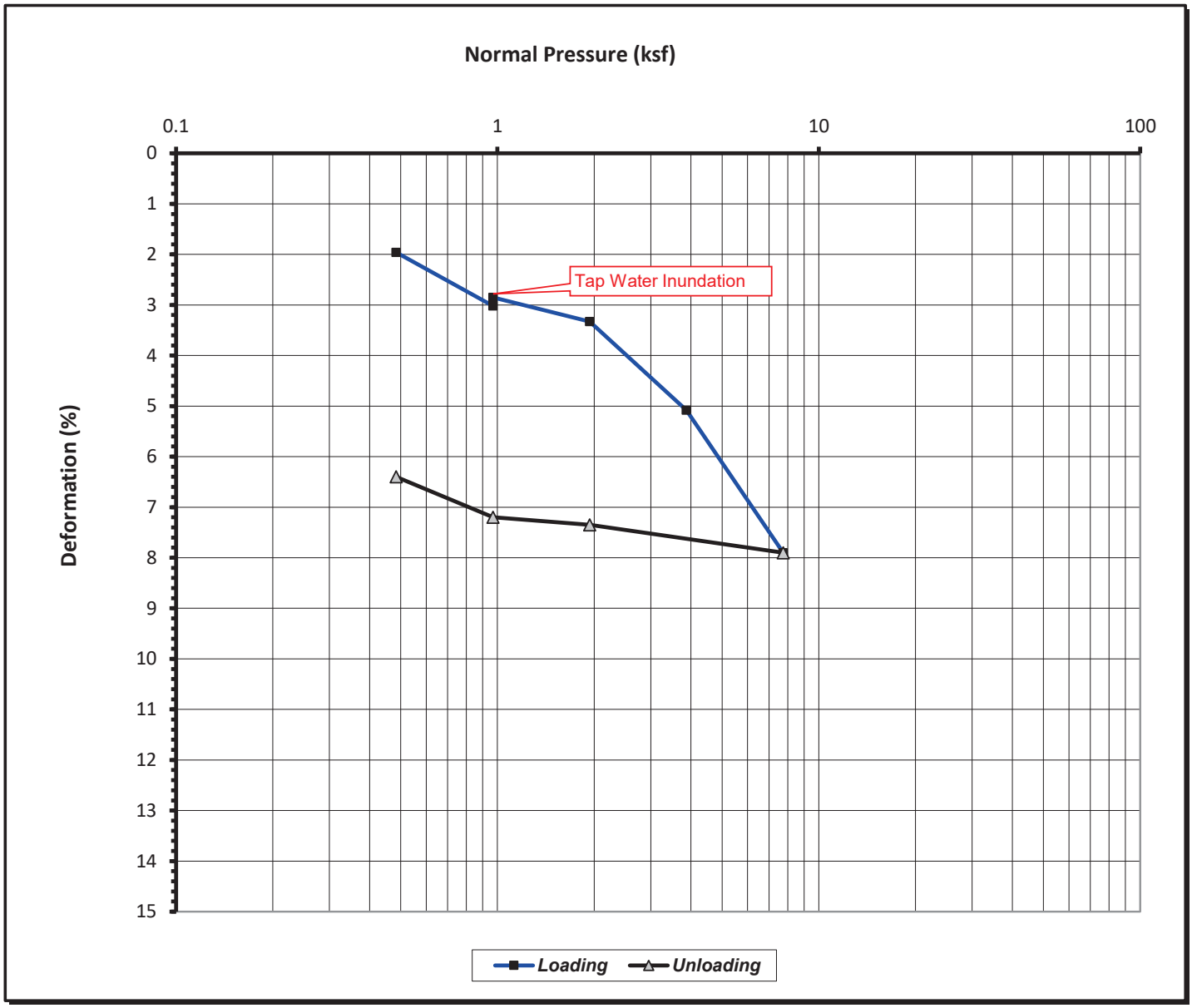
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**2860 Walnut Avenue**

**Signal Hill, CA 90755**

**Tel (562) 426-7990 Fax (562) 426-1842**


| | | | |
|---|---|---|---|
| **Project:** | **Proposed Police Department**<br>**NEC of Acacia Pkwy & Euclid St., Garden Grove, CA** | | |
| **Plate** | **Result of Uniaxial Consolidation/Swelling Test of On-Site Soil**<br>**(ASTM D2435-11 Test Method)** | | |
| **C-1** | | | |
| **Project No.:** | 7109.23 | **Date:** | April, 2023 |




| | | | |
|---|---|---|---|
| **Sample Location** | B-1 @ 25' | **Dry Density (pcf)** | 96.4 |
| | | **Moisture (%)** | 26.9 |
| **Sample Type** | Ring | | |
| **Sample Description** | Dark Gray Sandy Clay | | |
| **Remark** | Undisturbed sample | | |


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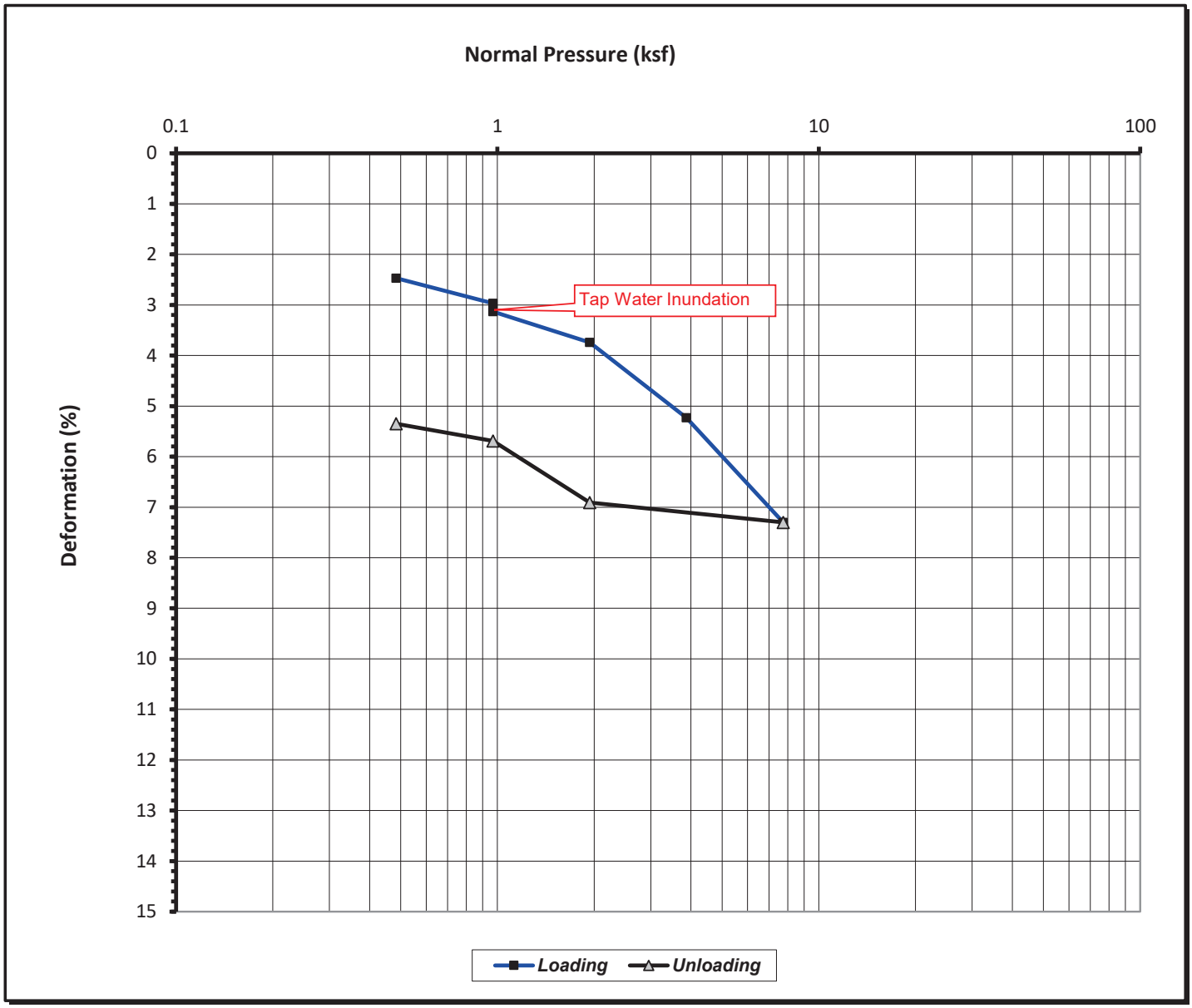
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| | | | |
|---|---|---|---|
| **Project:** | **Proposed Police Department NEC of Acacia Pkwy & Euclid St., Garden Grove, CA** | | |
| **Plate** | **Result of Uniaxial Consolidation/Swelling Test of On-Site Soil (ASTM D2435-11 Test Method)** | | |
| **C-2** | | | |
| **Project No.:** | 7109.23 | **Date:** | April, 2023 |




| | | | |
|---|---|---|---|
| **Sample Location** | B-3 @ 10' | **Dry Density (pcf)** | 100.2 |
| | | **Moisture (%)** | 24.3 |
| **Sample Type** | Ring | | |
| **Sample Description** | Very dark brown Silty Clay | | |
| **Remark** | Undisturbed sample | | |


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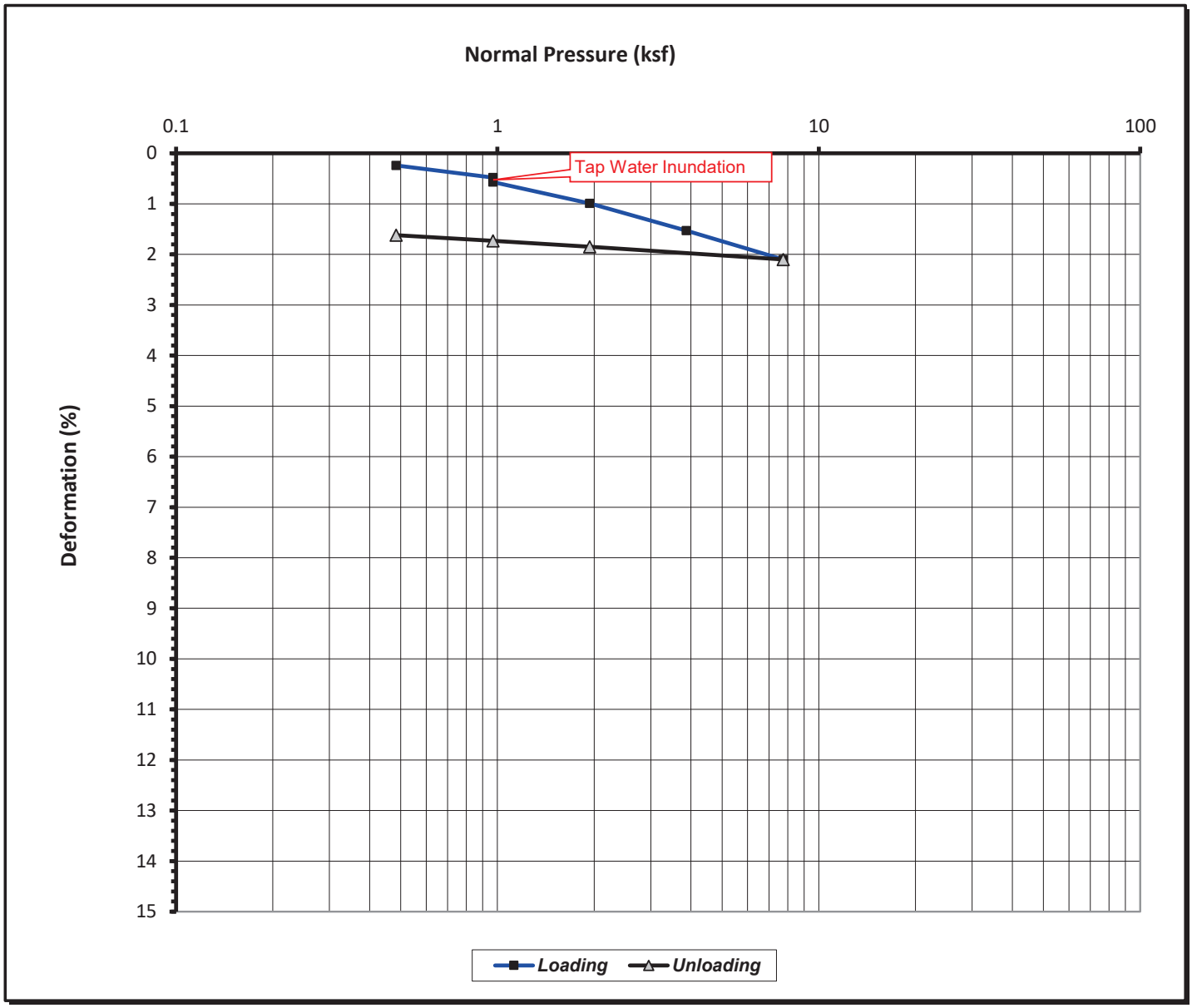
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|---|---|---|---|
| **Project:** | **Proposed Police Department**<br>**NEC of Acacia Pkwy & Euclid St., Garden Grove, CA** | | |
| **Plate** | **Result of Uniaxial Consolidation/Swelling Test of On-Site Soil**<br>**(ASTM D2435-11 Test Method)** | | |
| **C-3** | | | |
| **Project No.:** | 7109.23 | **Date:** | April, 2023 |




| | | | |
|---|---|---|---|
| **Sample Location** | B-4 @ 15' | **Dry Density (pcf)** | 95 |
| | | **Moisture (%)** | 6.8 |
| **Sample Type** | Ring | | |
| **Sample Description** | Light gray, white, black Fine Sand | | |
| **Remark** | Undisturbed sample | | |


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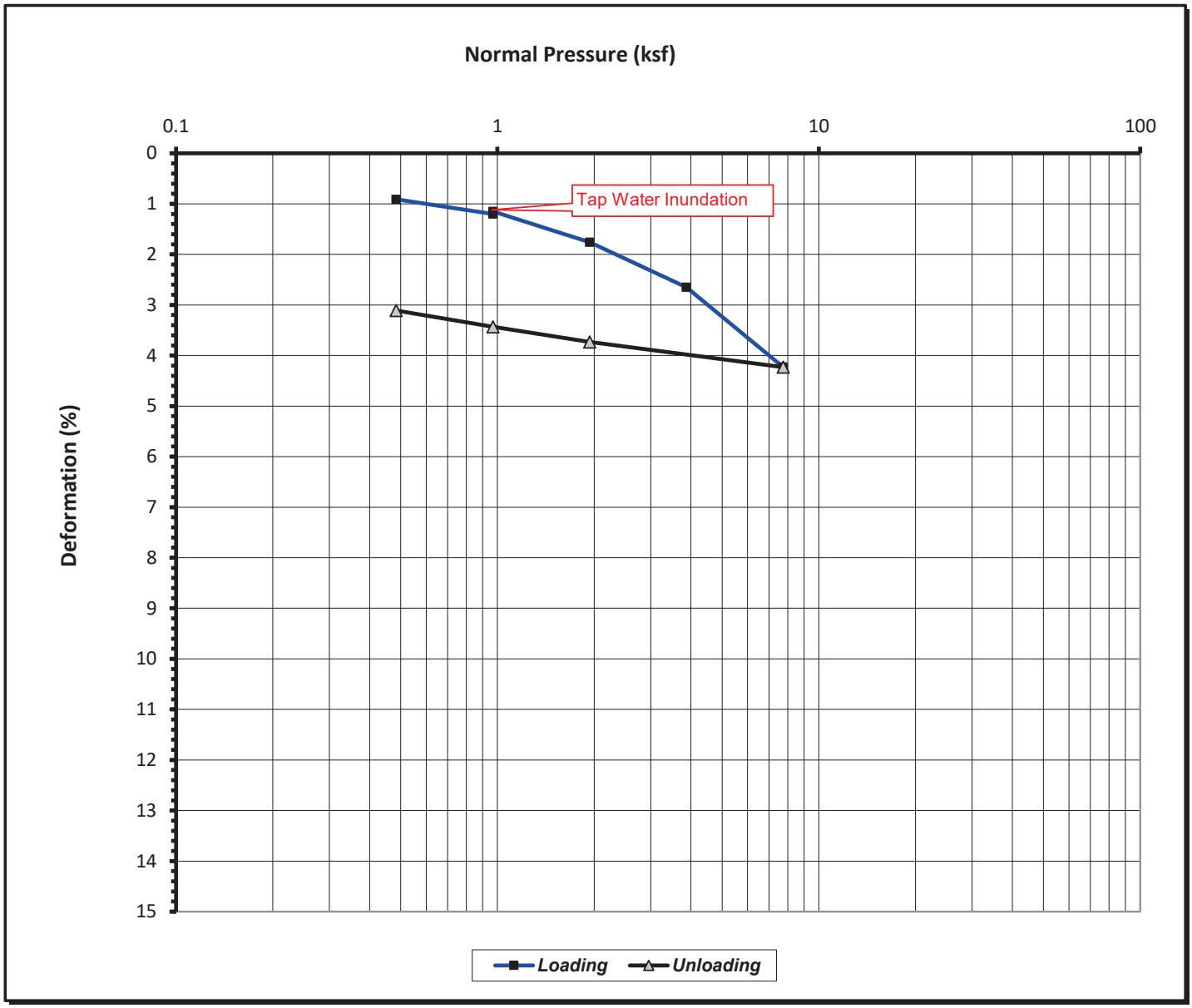
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|---|---|---|---|
| **Project:** | **Proposed Police Department NEC of Acacia Pkwy & Euclid St., Garden Grove, CA** | | |
| **Plate** | **Result of Uniaxial Consolidation/Swelling Test of On-Site Soil (ASTM D2435-11 Test Method)** | | |
| **C-4** | | | |
| **Project No.:** | 7109.23 | **Date:** | April, 2023 |




| | | | |
|---|---|---|---|
| **Sample Location** | B-5 @ 5' | **Dry Density (pcf)** | 103.6 |
| | | **Moisture (%)** | 22.0 |
| **Sample Type** | Ring | | |
| **Sample Description** | Very dark gray Silty Clay | | |
| **Remark** | Undisturbed sample | | |


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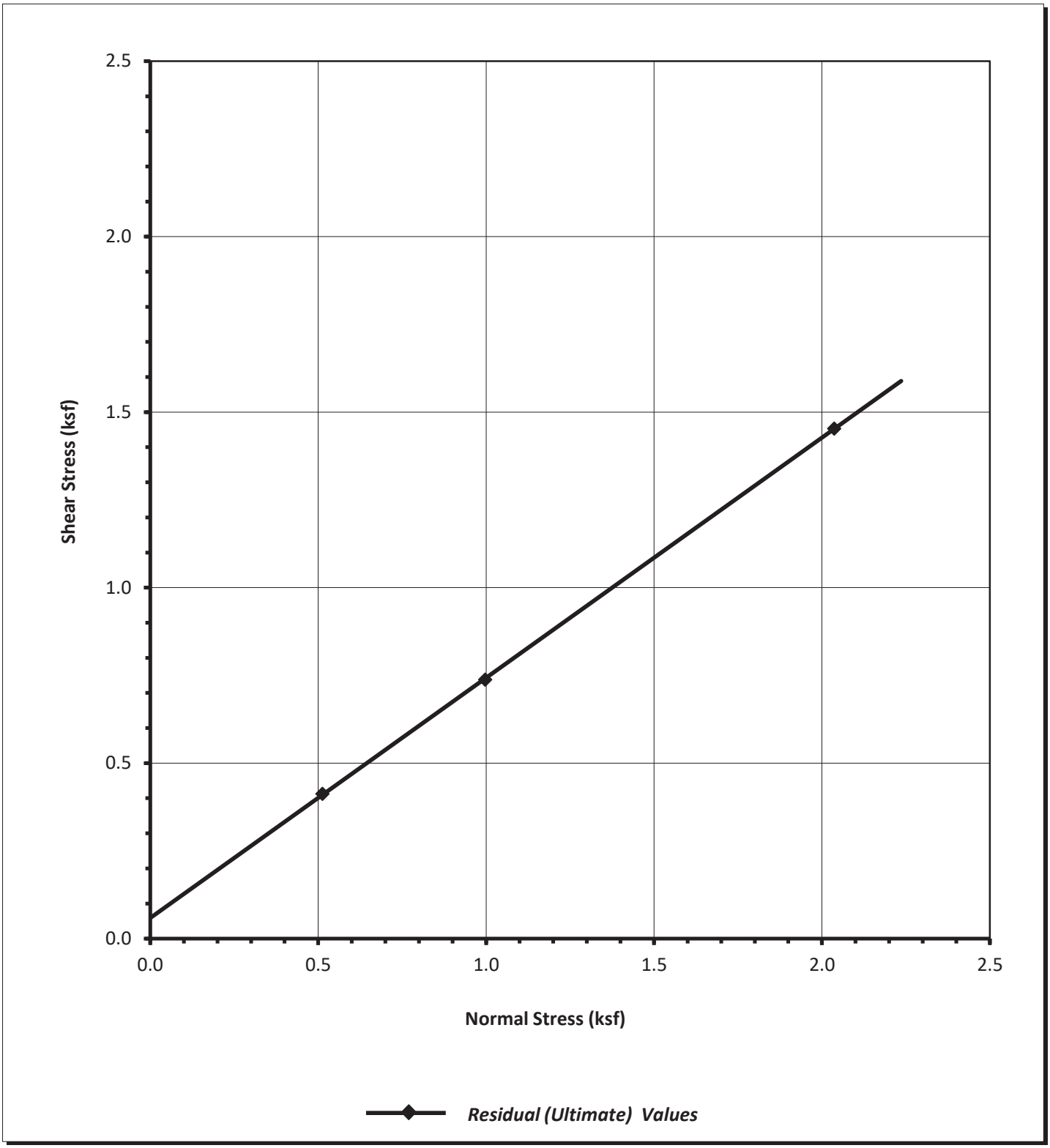
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|---|---|---|---|
| **Project:** | **Proposed Police Department NEC of Acacia Pkwy & Euclid St., Garden Grove, CA** | | |
| **Plate** | **Result of Uniaxial Consolidation/Swelling Test of On-Site Soil (ASTM D2435-11 Test Method)** | | |
| **C-5** | | | |
| **Project No.:** | 7109.23 | **Date:** | April, 2023 |



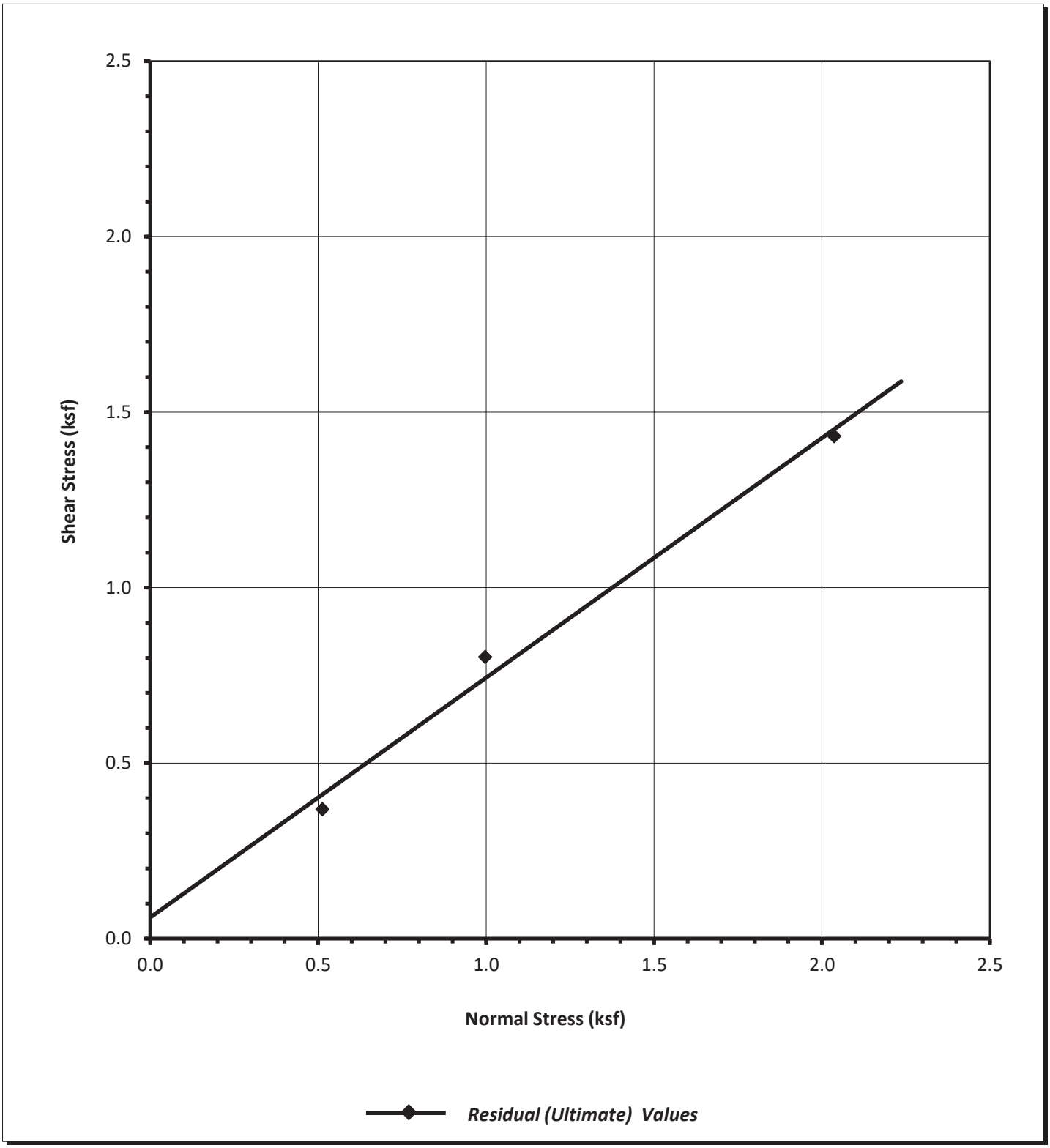

| | | | |
|---|---|---|---|
| Sample | *B-1 @ 15'* | Dry Density (pcf) | *98.3* |
| Description | *Olive Fine Sand* | Moisture Content (%) | *10.3* |
| ϕ-angle (degree) | *34.0* | Ultimate (Residual) | |
| Cohesion (ksf) | *0.055* | | |


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| | | | |
|---|---|---|---|
| Project: | **Proposed Police Department** NEC of Acacia Pkwy & Euclid St., Garden Grove, CA | | |
| **Plate D-1** | **Direct Shear Test Result** (ASTM D 3080-11 Test Method) | | |
| Project No.: | **7109.23** | Date: | **April, 2023** |



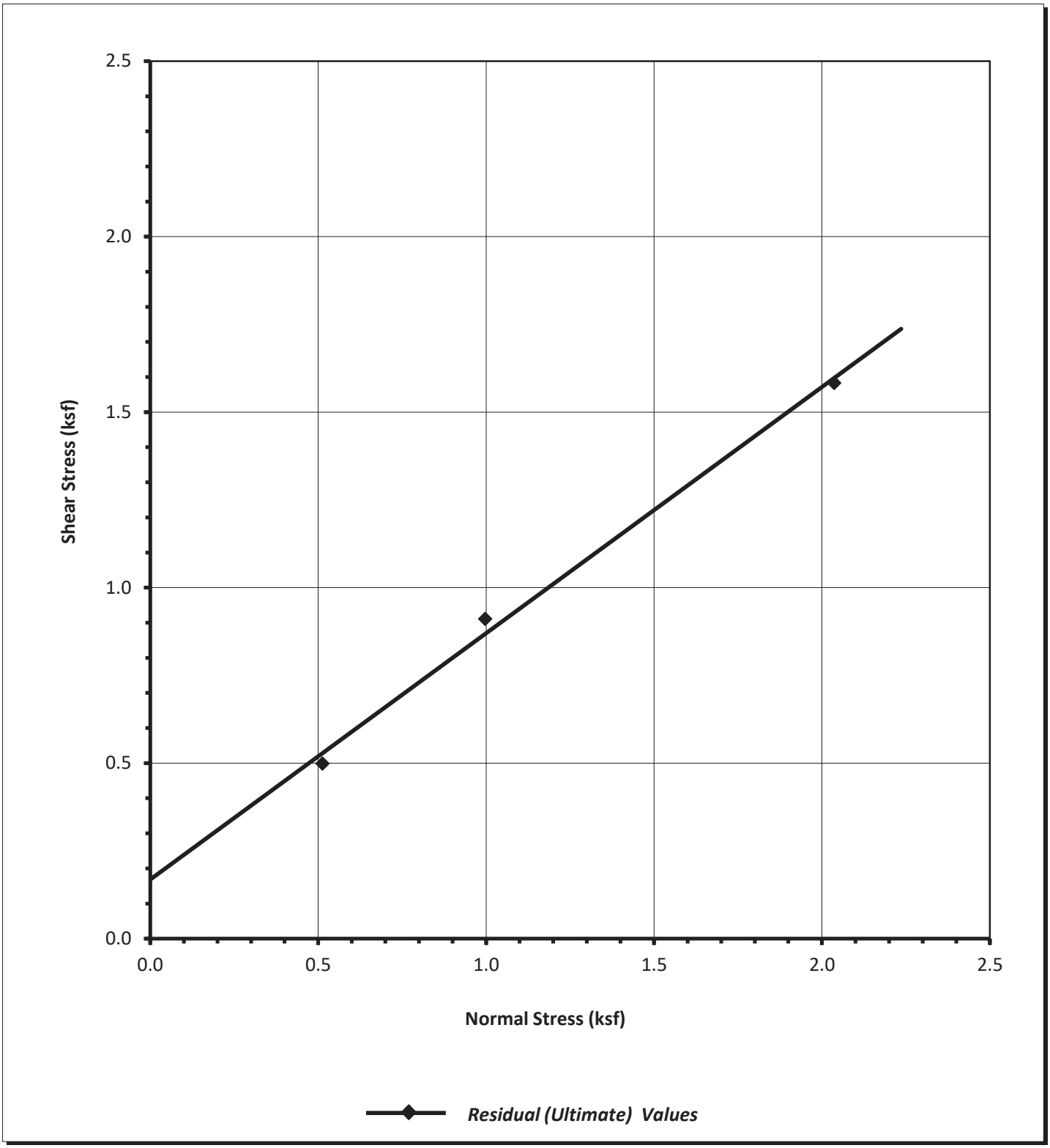

| | | | |
|---|---|---|---|
| Sample | *B-3 @ 10'* | Dry Density (pcf) | *100.2* |
| Description | *Very dark brown Silty Clay* | Moisture Content (%) | *23.7* |
| ϕ-angle (degree) | *34.0* | Ultimate (Residual) | |
| Cohesion (ksf) | *0.060* | | |


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|---|---|---|---|
| Project: | **Proposed Police Department** NEC of Acacia Pkwy & Euclid St., Garden Grove, CA | | |
| **Plate D-2** | **Direct Shear Test Result** (ASTM D 3080-11 Test Method) | | |
| Project No.: | **7109.23** | Date: | **April, 2023** |



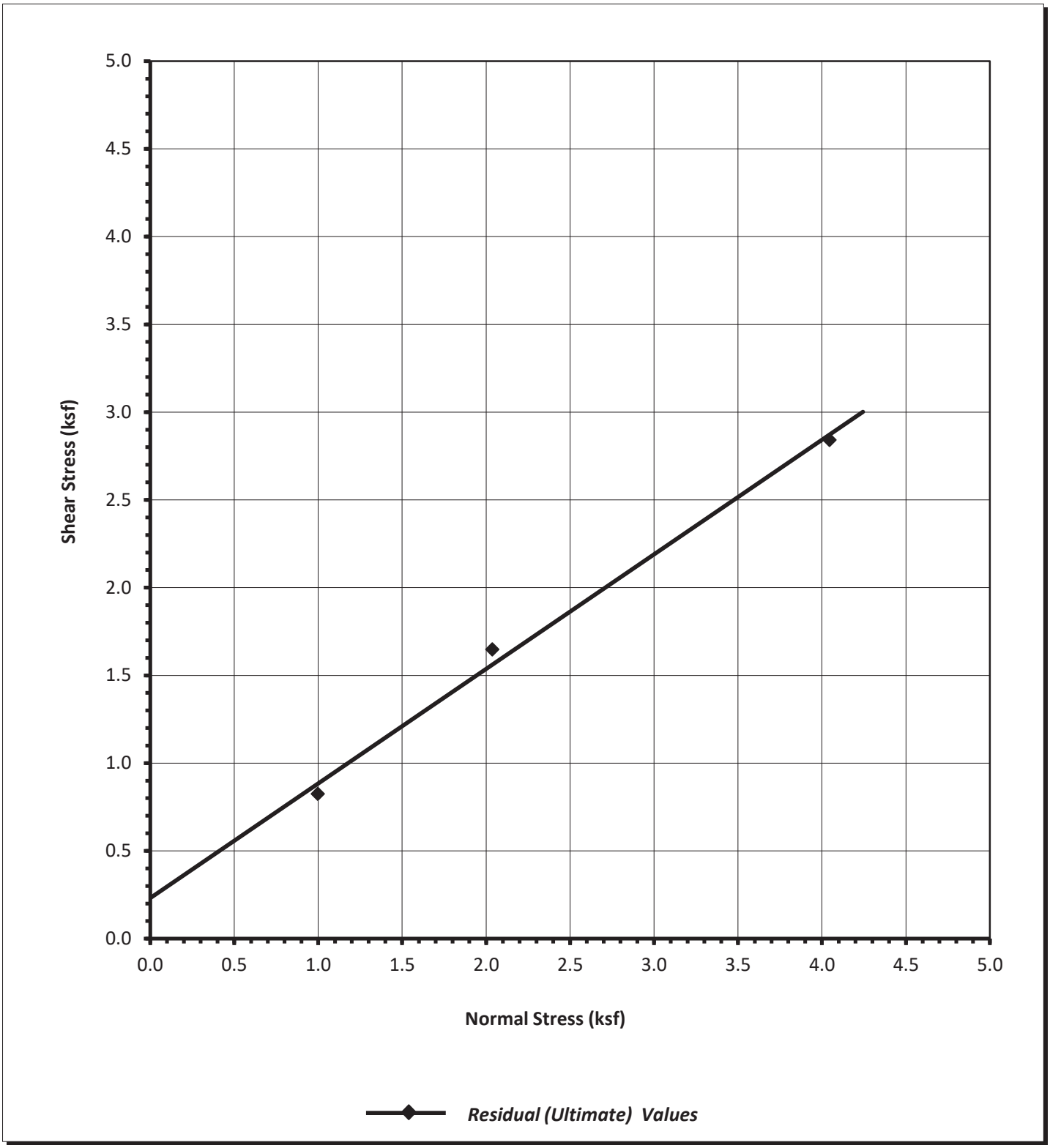

| | | | |
|---|---|---|---|
| Sample | *B-4 @ 5'* | Dry Density (pcf) | *106.7* |
| Description | *Light grayish brown Fine Sand* | Moisture Content (%) | *3.3* |
| ϕ-angle (degree) | *35.0* | Ultimate (Residual) | |
| Cohesion (ksf) | *0.165* | | |


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| | | | |
|---|---|---|---|
| Project: | **Proposed Police Department** NEC of Acacia Pkwy & Euclid St., Garden Grove, CA | | |
| **Plate D-3** | **Direct Shear Test Result** (ASTM D 3080-11 Test Method) | | |
| Project No.: | **7109.23** | Date: | **April, 2023** |



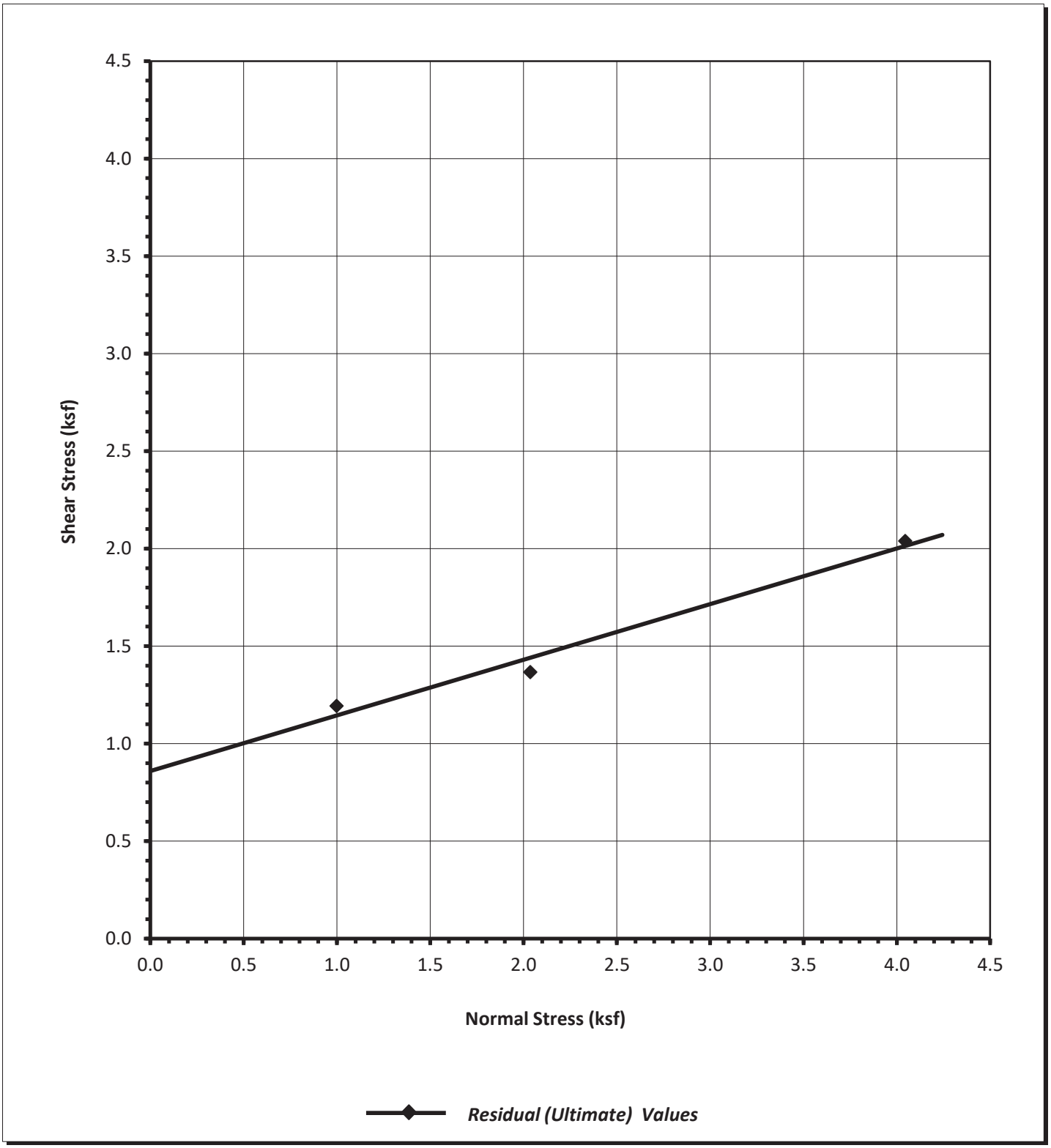

| | | | |
|---|---|---|---|
| Sample | *B-5 @ 25'* | Dry Density (pcf) | *111.1* |
| Description | *Very dark gray Clayey Silt, trace fine sand* | Moisture Content (%) | *7.8* |
| $\phi$-angle (degree) | *33.0* | Ultimate (Residual) | |
| Cohesion (ksf) | *0.230* | | |


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| | | | |
|---|---|---|---|
| Project: | **Proposed Police Department** NEC of Acacia Pkwy & Euclid St., Garden Grove, CA | | |
| **Plate D-4** | **Direct Shear Test Result** (ASTM D 3080-11 Test Method) | | |
| Project No.: | **7109.23** | Date: | **April, 2023** |



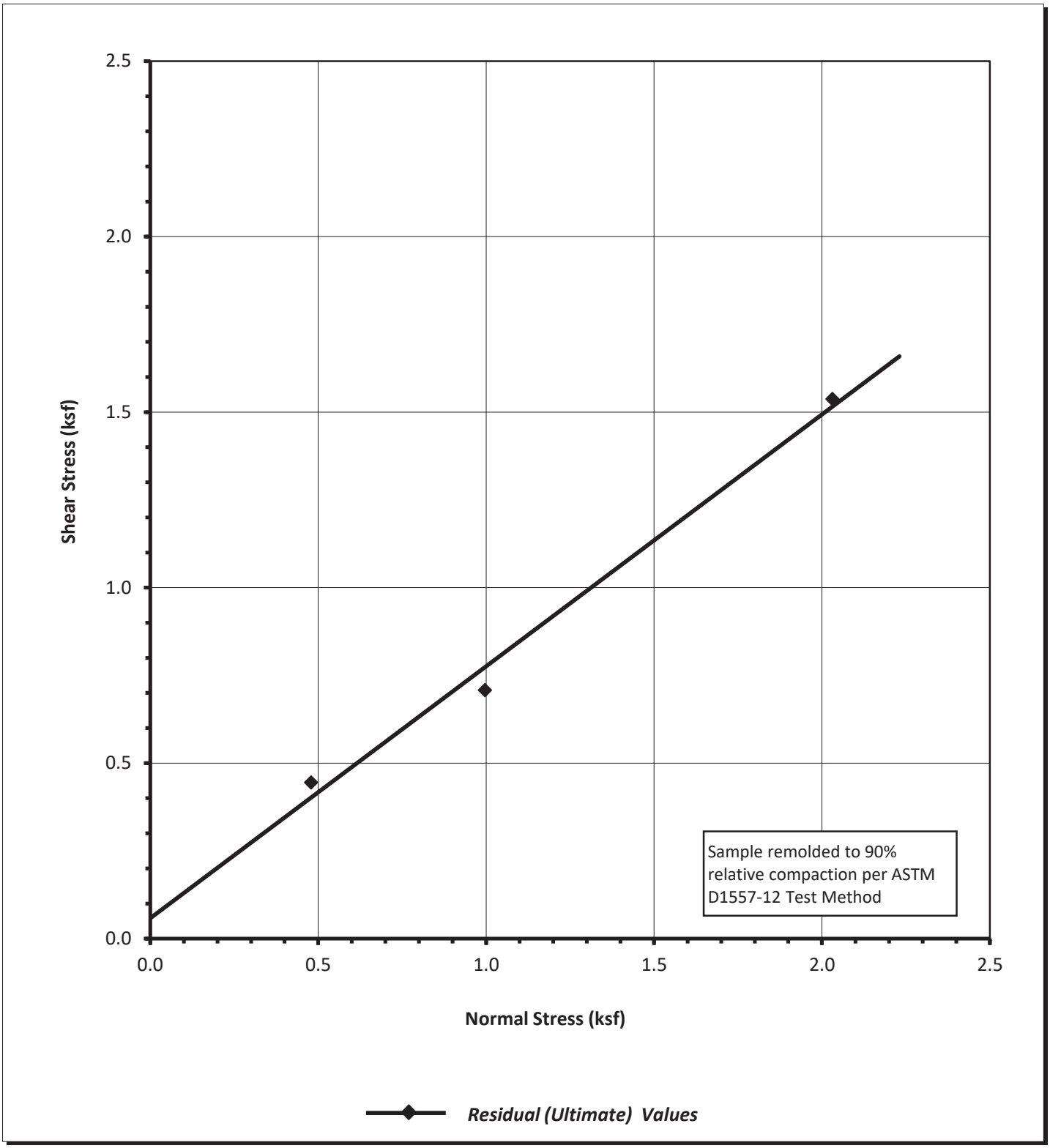

| | | | |
|---|---|---|---|
| Sample | *B-5 @ 45'* | Dry Density (pcf) | *100.9* |
| Description | *Dark olive gray Silty Clay, siltstone nodules* | Moisture Content (%) | *24.9* |
| ϕ-angle (degree) | *15.5* | Ultimate (Residual) | |
| Cohesion (ksf) | *0.855* | | |


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| | | | |
|---|---|---|---|
| Project: | **Proposed Police Department** NEC of Acacia Pkwy & Euclid St., Garden Grove, CA | | |
| **Plate D-5** | **Direct Shear Test Result** (ASTM D 3080-11 Test Method) | | |
| Project No.: | **7109.23** | Date: | **April, 2023** |




| | | | |
|---|---|---|---|
| **Sample** | ***B-1 @ 1'-5'*** | **Dry Density (pcf)** | ***114.8*** |
| **Description** | ***Dark yellowish brown Silty Sand*** | **Moisture Content (%)** | ***10.5*** |
| **$\phi$-angle (degree)** | ***35.5*** | **Ultimate** | |
| **Cohesion (ksf)** | ***0.055*** | **(Residual)** | |


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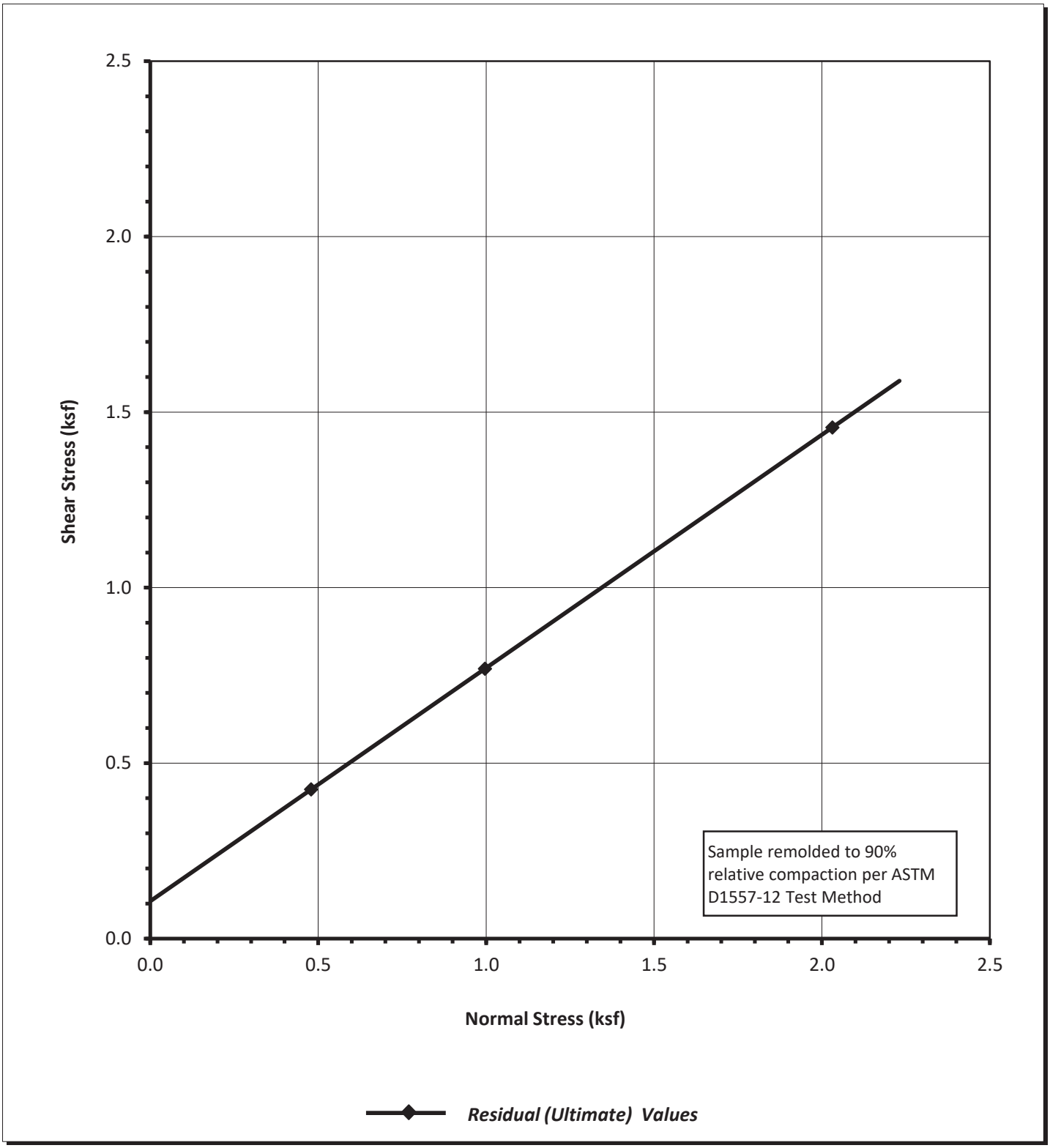
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| | | | |
|---|---|---|---|
| Project: | **Proposed Police Department** **NEC of Acacia Pkwy & Euclid St., Garden Grove, CA** | | |
| **Plate** **D-6** | **Direct Shear Test Result** **(ASTM D 3080-11 Test Method)** | | |
| Project No.: | **7109.23** | Date: | **April, 2023** |




| | | | |
|---|---|---|---|
| **Sample** | ***B-5 @ 1'-5'*** | **Dry Density (pcf)** | ***114.8*** |
| **Description** | ***Yellowish brown Sand*** | **Moisture Content (%)** | ***10.5*** |
| **ϕ-angle (degree)** | ***33.5*** | **Ultimate** | |
| **Cohesion (ksf)** | ***0.105*** | **(Residual)** | |


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| | | | |
|---|---|---|---|
| Project: | **Proposed Police Department** **NEC of Acacia Pkwy & Euclid St., Garden Grove, CA** | | |
| **Plate** **D-7** | **Direct Shear Test Result** **(ASTM D 3080-11 Test Method)** | | |
| Project No.: | **7109.23** | Date: | **April, 2023** |

# Associated Soils Engineering, Inc.

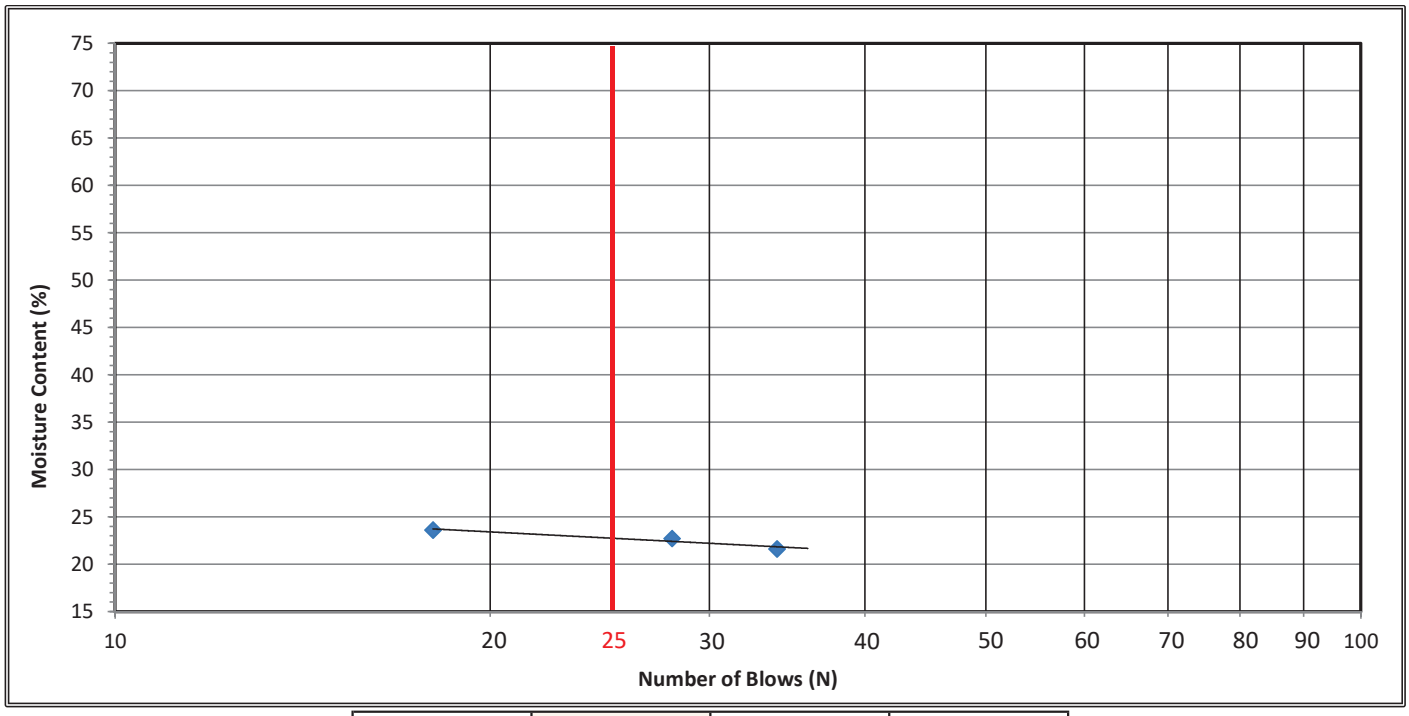
## ATTERBERG LIMITS TEST

**(ASTM D 4318-17e1 Test Method)**

| | | | |
|---|---|---|---|
| **Project Name:** | Proposed Police Department Development, NEC of Acacia Parkway & Euclid St., Garden Grove, CA | | |
| **Project No.:** | 7109.23 | **Sample ID:** | B-1 @ 40' |
| **Visual Sample Description:** | Olive gray Clayey Sand | | |

| Procedures Used | | | |
|---|---|---|---|
| | **Wet Preparation - Multipoint - Wet** | **X** | **Procedure A Multipoint Test** |
| **X** | **Dry Preparation - Multipoint - Dry** | | **Procedure B One-Point Test** |

| | PLASTIC LIMIT | | LIQUID LIMIT | | | |
|---|---|---|---|---|---|---|
| Test No. | 1 | 2 | 1 | 2 | 3 | 4 |
| Number of Blows (N) | | | 34 | 28 | 18 | |
| Container No. | **b1** | **c1** | **A1** | **B1** | **C1** | |
| Wet Wt. of Soil + Container (g) | 11.89 | 10.56 | 17.57 | 18.06 | 15.53 | |
| Dry Wt. of Soil + Container (g) | 10.98 | 9.85 | 16.40 | 16.79 | 14.58 | |
| Wt. of Container (g) | 4.28 | 4.29 | 10.99 | 11.20 | 10.56 | |
| Moisture Content (%) | 13.58 | 12.77 | 21.63 | 22.72 | 23.63 | |




**LL trendline = A · ln(x) + B**

| | | | |
|---|---|---|---|
| A = | -2.9660 | x = | 25 |
| B = | 32.2990 | LL = | ***23*** |

| | |
|---|---|
| **Liquid Limit (LL) =** | 23 |
| **Plastic Limit (PL) =** | 13 |
| **Plasticity Index (PI) =** | 10 |
| **USCS Classification =** | ***CL*** |

"A" Line: PI = 0.73 · (LL-20)

"U" Line: Upper limit of plasticity per Casagrande,
PI = 0.9 · (LL-8)

For the tested LL:

| | |
|---|---|
| PI at "A" Line = | 2.2 |
| PI at "U" Line = | 13.5 |

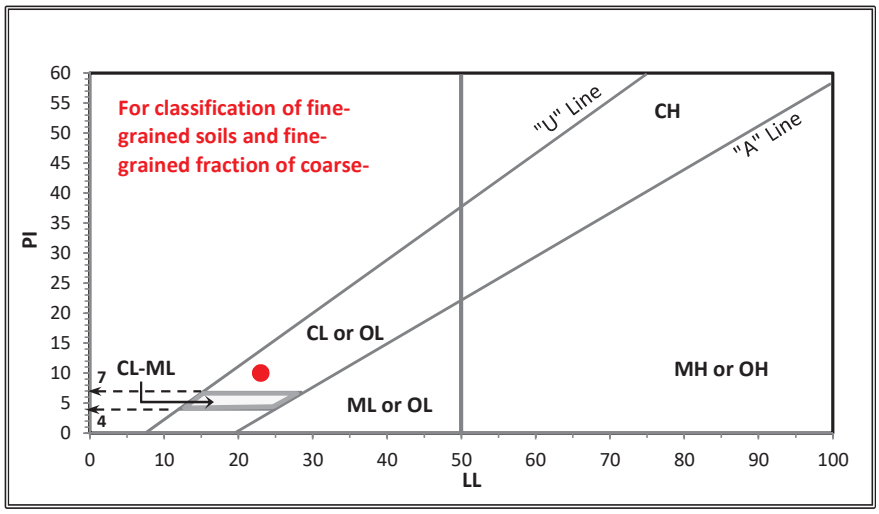



**Plate No.:** **E-1**

# Associated Soils Engineering, Inc.

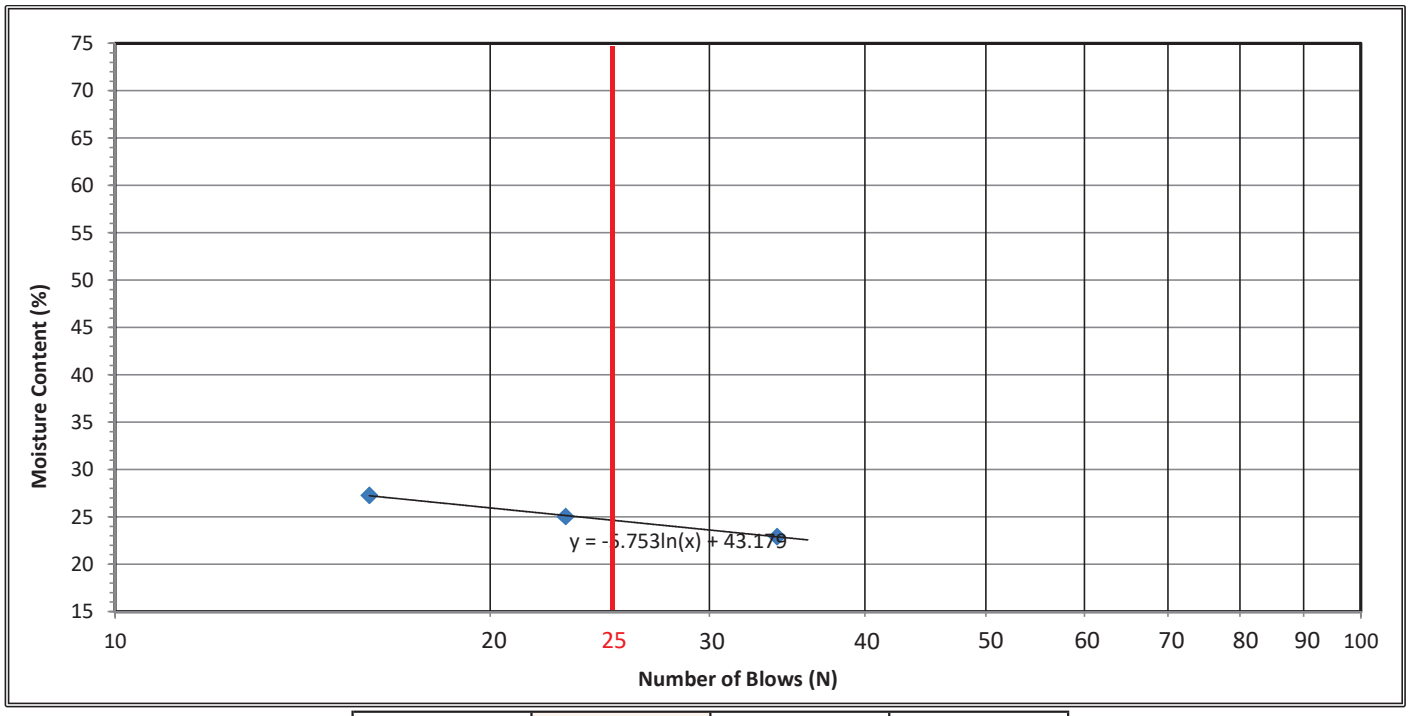
## ATTERBERG LIMITS TEST

**(ASTM D 4318-17e1 Test Method)**

| | | | |
|---|---|---|---|
| **Project Name:** | Proposed Police Department Development, NEC of Acacia Parkway & Euclid St., Garden Grove, CA | | |
| **Project No.:** | 7109.23 | **Sample ID:** | B-5 @ 50' |
| **Visual Sample Description:** | Clay and Sandy Clay | | |

| **Procedures Used** | | | |
|---|---|---|---|
| | **Wet Preparation - Multipoint - Wet** | **X** | **Procedure A Multipoint Test** |
| **X** | **Dry Preparation - Multipoint - Dry** | | **Procedure B One-Point Test** |

| | **PLASTIC LIMIT** | | **LIQUID LIMIT** | | | |
|---|---|---|---|---|---|---|
| Test No. | 1 | 2 | 1 | 2 | 3 | 4 |
| Number of Blows (N) | | | 34 | 23 | 16 | |
| Container No. | **b4** | **c4** | **A4** | **B4** | **C4** | |
| Wet Wt. of Soil + Container (g) | 12.15 | 11.78 | 15.79 | 16.74 | 16.50 | |
| Dry Wt. of Soil + Container (g) | 10.90 | 10.56 | 14.93 | 15.65 | 15.36 | |
| Wt. of Container (g) | 4.26 | 4.28 | 11.18 | 11.30 | 11.18 | |
| Moisture Content (%) | 18.83 | 19.43 | 22.93 | 25.06 | 27.27 | |




| **LL trendline = A · ln(x) + B** | | | | |
|---|---|---|---|---|
| | A = | -5.7530 | x = | 25 |
| | B = | 43.1790 | LL = | ***25*** |

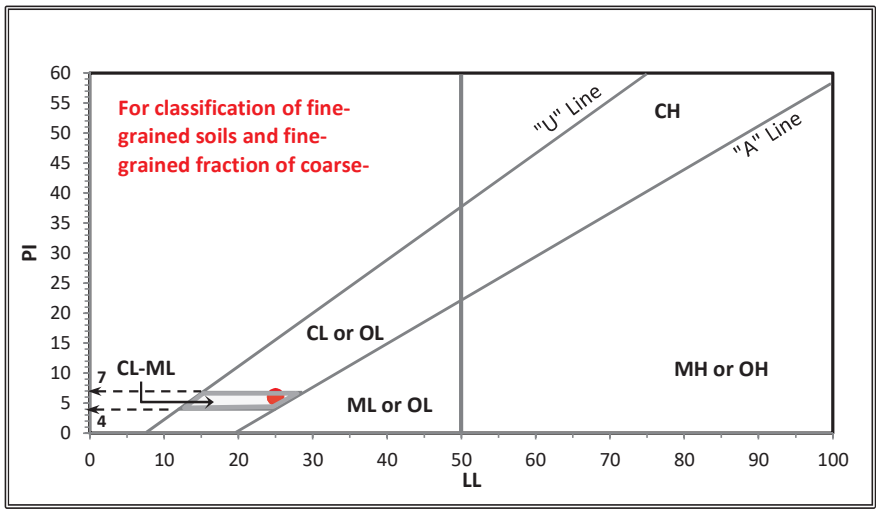
| | |
|---|---|
| **Liquid Limit (LL) =** | 25 |
| **Plastic Limit (PL) =** | 19 |
| **Plasticity Index (PI) =** | 6 |
| **USCS Classification =** | ***CL-ML*** |

"A" Line: PI = 0.73 · (LL-20)

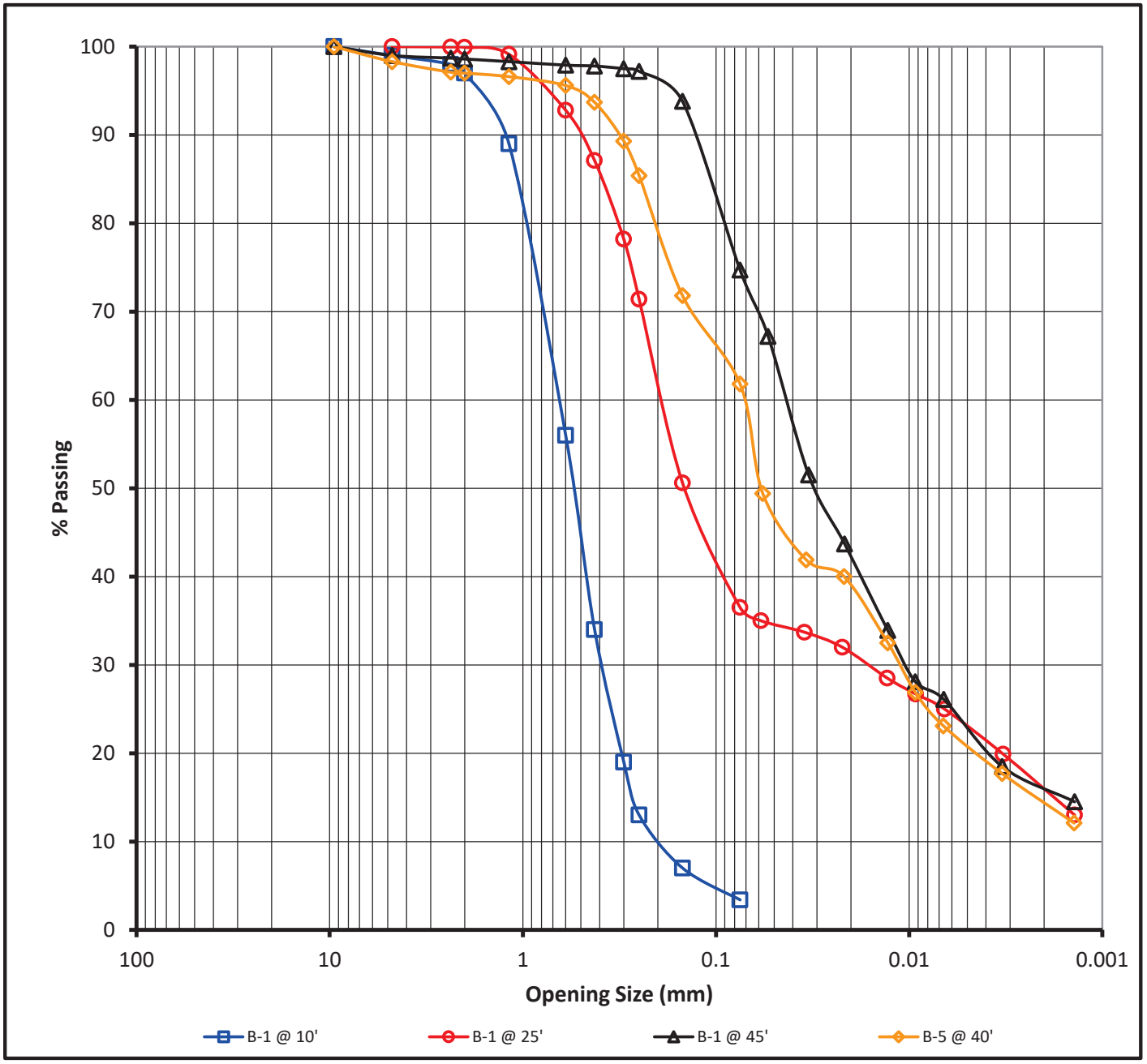
"U" Line: Upper limit of plasticity per Casagrande,
PI = 0.9 · (LL-8)

For the tested LL:

| | |
|---|---|
| PI at "A" Line = | 3.7 |
| PI at "U" Line = | 15.3 |




| | |
|---|---|
| **Plate No.:** | **E-2** |




| COBBLES | GRAVEL | | SAND | | | SILT or CLAY |
|---|---|---|---|---|---|---|
| | coarse | fine | coarse | medium | fine | |

| | | | % Mineral Particle Category | | | |
|---|---|---|---|---|---|---|
| | | | % Gravel | % Sand | % Silt | % Clay |
| Sample ID & Description | B-1 @ 10' | Fine to Coarse Sand | 1.0 | 95.6 | 3.4 | |
| | B-1 @ 25' | Sandy Clay -Clayey Sand | 0.0 | 63.5 | 13.9 | 22.6 |
| | B-1 @ 45' | Clay with Sand -Clayey Slit with Sand | 0.0 | 25.3 | 52.3 | 22.4 |
| | B-5 @ 40' | Clay with Silt - Sandy Silt with Clay | 0.0 | 38.2 | 41.4 | 20.4 |
| | | | | | | |


**Associated Soils Engineering, Inc.**

2860 Walnut Avenue

Signal Hill, CA 90755

Tel (562) 426-7990; Fax (562) 426-1842


| | | | |
|---|---|---|---|
| Project: | Proposed Police Department Development, NEC of Acacia Pw.& Euclid St., Garden Grove, CA | | |
| Plate G-1 | Results of Gradation Analysis (ASTM D422-63 (2007) Test Method ) | | |
| Project No.: | 7109.23 | Date: | April, 2023 |

## PERCOLATION DATA SHEET

Project: On-Site Storm Water Dispersal Job No.: 7109.23

Proposed Police Department Development

Acacia Parkway & Euclid Street, Garden Grove, CA

Test Hole No.: B-P1 Date Excavated: 2/15/2023 Depth of Test Hole: 10' 0"

Soil Classification: Sand 2" Gravel on Bottom

Percolation Tested By: JW/CN Date: 2/16/2023 Presoak: √

### SANDY SOIL CRITERIA TEST

| Trial No. | Time | Time Interval (Min.) | Initial Water Level (Inches) | Final Water Level (Inches) | Δ In Water Level (Inches |
|---|---|---|---|---|---|
| 1 | 1:15<br>10:30 | 15 | -72.0 | -120.0 | 48.0 |
| 2 | 10:30<br>10:43 | 13 | -72.0 | -120.0 | 48.0 |

### USE ~~NORMAL~~ SANDY (CROSS ONE) SOIL CRITERIA

| Time | Time Interval (Min.) | Total Elapsed Time (Min.) | Initial Water Level (Inches) | Final Water Level (Inches) | Δ In Water Level (Inches) | Percolation Rate (Min./Inches) |
|---|---|---|---|---|---|---|
| 10:50<br>11:00 | 10 | 10 | -72.0 | -119.0 | 47.0 | 0.213 |
| 11:00<br>11:10 | 10 | 20 | -72.0 | -11.0 | 45.0 | 0.220 |
| 11:10<br>11:20 | 10 | 30 | -72.0 | -115.0 | 43.0 | 0.233 |
| 11:20<br>11:30 | 10 | 40 | -72.0 | -113.0 | 41.0 | 0.244 |
| 11:30<br>11:40 | 10 | 50 | -72.0 | -112.0 | 40.0 | 0.250 |
| 11:40<br>11:50 | 10 | 60 | -72.0 | -112.0 | 40.0 | 0.250 |

**PLATE H-1**

## PERCOLATION DATA SHEET

Project: On-Site Storm Water Dispersal Job No.: 7109.23

Proposed Police Department Development

Acacia Parkway & Euclid Street, Garden Grove, CA

Test Hole No.: B-P2 Date Excavated: 2/15/2023 Depth of Test Hole: 5' 0"

Soil Classification: Sand 2" Gravel on Bottom

Percolation Tested By: JW/CN Date: 2/16/2023 Presoak: √

### SANDY SOIL CRITERIA TEST

| Trial No. | Time | Time Interval (Min.) | Initial Water Level (Inches) | Final Water Level (Inches) | Δ In Water Level (Inches |
|---|---|---|---|---|---|
| 1 | 1:45<br>1:51 | 6 | -12.0 | -60.0 | 48.0 |
| 2 | 1:51<br>1:59 | 8 | -12.0 | -60.0 | 48.0 |

### USE ~~NORMAL~~ SANDY (CROSS ONE) SOIL CRITERIA

| Time | Time Interval (Min.) | Total Elapsed Time (Min.) | Initial Water Level (Inches) | Final Water Level (Inches) | Δ In Water Level (Inches) | Percolation Rate (Min./Inches) |
|---|---|---|---|---|---|---|
| 2:05<br>2:15 | 10 | 10 | -12.0 | 60 | 48 | 0.208 |
| 2:15<br>2:25 | 10 | 20 | -12.0 | 56 | 44 | 0.227 |
| 2:03<br>2:25 | 10 | 30 | -12.0 | 54 | 42 | 0.238 |
| 2:25<br>2:35 | 10 | 40 | -12.0 | 54 | 42 | 0.238 |
| 2:35<br>2:45 | 10 | 50 | -12.0 | 53 | 41 | 0.244 |
| 2:45<br>2:55 | 10 | 60 | -12.0 | 53 | 41 | 0.244 |

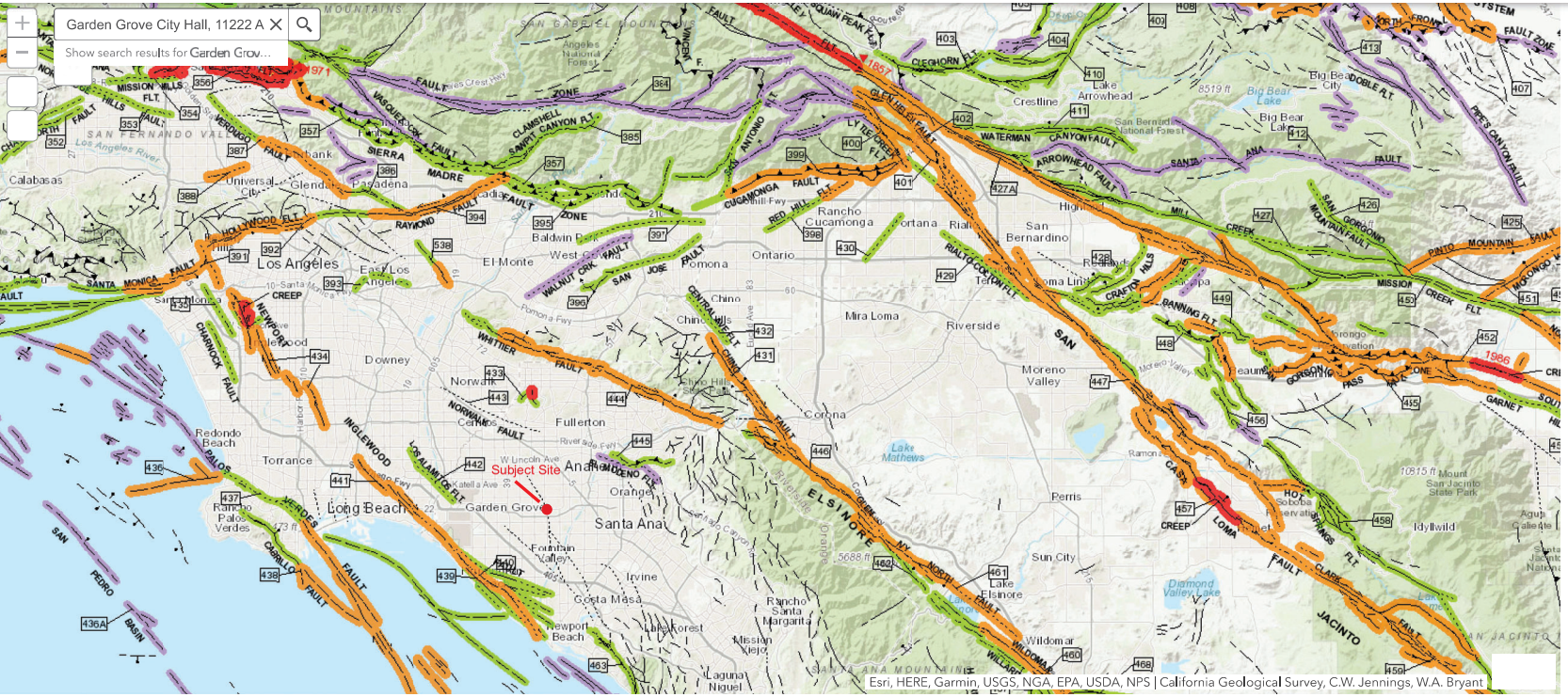
**PLATE H-2**

## APPENDIX B – SITE FAULTING AND SEISMICITY DATA

| | |
|---|---|
| Plate I-1 | Regional Fault Map |
| Plates I-2 and I-3 | Results of EQFUALT Search |
| Plate I-4 | List of Historical Earthquakes (M $\geq$ 4.5) within 62 Miles (100 km) from the Site |
| Plate I-5 | Historical Earthquakes (M ≥ 4.5) Map |
| Plate I-6 | Conversion Factor for Maximum-Rotated Component of Ground Motion |
| Plates I-7 through I-9 | Calculation of Weighted Vs Values For Site Classification |
| Plates J-1 through J-3 | NGA Parameters of Faults for Deterministic Spectral Analysis and Spectrum Amplification Factors |
| Plates J-4 through J-19 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) of Studied Faults |
| Plate J-20 | Summary of Deterministic MCE Sa (Avg 4 2014 NGA-West2) Values |
| Plate J-21 | 84 Percentile Deterministic MCE (w/ & w/o Max.-Rotated Component) & Deterministic Lower Limit Response Spectra |
| Plate J-22 | Summary of 4-2014 NGA-West2 Probabilistic MCE Spectra Values |
| Plate J-23 | Probabilistic MCE Response Spectra (4-2014 NGA Attenuation Relationships) |
| Plate J-24 | Probabilistic MCE Response Spectrum w/ & w/o Max.-Rotated Component/Risk Coefficients (Avg. of 4 - 2014 NGA-West2 Attenuation Relationships) |
| Plates J-25 and J-26 | Derivation of Site-Specific Seismic Design Parameters per ASCE 7-16 |
| Plate J-27 (3 sheets) | Results of deaggregation analysis from the USGS Unified Hazard Tool |

# Fault Activity Map of California

California Geological Survey




10mi

-117.988 34.131 Degrees

ASE #7109.23

Plate I-1 Regional Fault Map

## Explanation

California Geological Survey, Geologic Data Map No. 6

Compilation and Interpretation by: Charles W. Jennings and William A. Bryant

Graphics by: Milind Patel, Ellen Sander, Jim Thompson, Barbara Wanish and Milton Fonseca

### SYMBOL EXPLANATION

Fault traces on land are indicated by solid lines where well located, by dashed lines where approximately located or inferred, and by dotted lines where concealed by younger rocks or by lakes or bays. Fault traces are queried where continuation or existence is uncertain. All offshore faults based on seismic reflection profile records are shown as solid lines where well defined, dashed where inferred, queried where uncertain.

FAULT CLASSIFICATION COLOR CODE
(Indicating Recency of Movement)

Fault along which historic (last 200 years) displacement has occurred.

A triangle to the right or left of the date indicates termination point of observed surface displacement. Solid red triangle indicates known location of rupture termination point. Open black triangle indicates uncertain or estimated location of rupture termination point.

Date bracketed by triangles indicates local fault break.

No triangle by date indicates an intermediate point along faultbreak.

Fault that exhibits fault creep slippage. Hachures indicate linear extent of fault creep. Annotation (creep with leader) indicates representative locations where fault creep has been observed and recorded.

Square on fault indicates where fault creep slippage has occured that has been triggered by an earthquake on some other fault. Date of causative earthquake indicated. Squares to right and left of date indicate terminal points between which triggered creep slippage has occurred (creep either continuous or intermittent between these end points).

Holocene fault displacement (during past 11,700 years) without historic record.

Late Quaternary fault displacement (during past 700,000 years).

Quaternary fault (age undifferentiated).

Pre-Quaternary fault (older that 1.6 million years) or fault without recognized Quaternary displacement.

ADDITIONAL FAULT SYMBOLS

Bar and ball on downthrown side (relative or apparent).

Arrows along fault indicate relative or apparent direction of lateral movement.

Arrow on fault indicates direction of dip.

Low angle fault (barbs on upper plate).

OTHER SYMBOLS

Numbers refer to annotations listed in the appendices of the accompanying report.

Structural discontinuity (offshore) separating differing Neogene

```
**********************
*                    *
*    E Q F A U L T   *
*                    *
*    Version 3.00    *
*                    *
**********************

DETERMINISTIC ESTIMATION OF
PEAK ACCELERATION FROM DIGITIZED FAULTS


JOB NUMBER: 7109.23
                                                  DATE: 02-20-2023

JOB NAME: Proposed Public Safety Facility (B1)
          NE corner of Acacia Parkway & South Euclid Street, Garden Grove

CALCULATION NAME: Test Run Analysis

FAULT-DATA-FILE NAME: C:\Program Files\EQFAULT1\Cgsflte.dat

SITE COORDINATES:
   SITE LATITUDE:  33.7762
   SITE LONGITUDE:  117.9365

SEARCH RADIUS:   62  mi

ATTENUATION RELATION:  20) Sadigh et al. (1997) Horiz. - Soil
   UNCERTAINTY (M=Median, S=Sigma): M       Number of Sigmas:  0.0
   DISTANCE MEASURE:  clodis
   SCOND:   0
   Basement Depth:  5.00 km     Campbell SSR:        Campbell SHR:
   COMPUTE PEAK HORIZONTAL ACCELERATION

FAULT-DATA FILE USED:  C:\Program Files\EQFAULT1\Cgsflte.dat

MINIMUM DEPTH VALUE (km):  0.0
```

EQFAULT SUMMARY
DETERMINISTIC SITE PARAMETERS

| ABBREVIATED FAULT NAME | APPROXIMATE DISTANCE mi (km) | ESTIMATED MAX. EARTHQUAKE EVENT: MAXIMUM EARTHQUAKE MAG.(Mw) | PEAK SITE ACCEL. g | EST. SITE INTENSITY MOD.MERC. |
|---|---|---|---|---|
| SAN JOAQUIN HILLS | 5.8( 9.3) | 6.6 | 0.377 | IX |
| NEWPORT-INGLEWOOD (L.A.Basin) | 7.6( 12.2) | 7.1 | 0.297 | IX |
| PUENTE HILLS BLIND THRUST | 11.0( 17.7) | 7.1 | 0.302 | IX |
| WHITTIER | 11.6( 18.6) | 6.8 | 0.198 | VIII |
| NEWPORT-INGLEWOOD (Offshore) | 12.9( 20.7) | 7.1 | 0.209 | VIII |
| PALOS VERDES | 17.1( 27.6) | 7.3 | 0.182 | VIII |
| CHINO-CENTRAL AVE. (Elsinore) | 17.5( 28.1) | 6.7 | 0.166 | VIII |
| ELSINORE (GLEN IVY) | 18.0( 29.0) | 6.8 | 0.133 | VIII |
| SAN JOSE | 18.5( 29.7) | 6.4 | 0.128 | VIII |
| UPPER ELYSIAN PARK BLIND THRUST | 22.3( 35.9) | 6.4 | 0.104 | VII |
| SIERRA MADRE | 25.6( 41.2) | 7.2 | 0.152 | VIII |
| RAYMOND | 25.8( 41.5) | 6.5 | 0.095 | VII |
| CUCAMONGA | 26.9( 43.3) | 6.9 | 0.119 | VII |
| VERDUGO | 27.5( 44.3) | 6.9 | 0.116 | VII |
| CLAMSHELL-SAWPIT | 28.0( 45.0) | 6.5 | 0.086 | VII |
| HOLLYWOOD | 29.1( 46.8) | 6.4 | 0.076 | VII |
| SANTA MONICA | 34.1( 54.8) | 6.6 | 0.073 | VII |
| ELSINORE (TEMECULA) | 35.0( 56.4) | 6.8 | 0.063 | VI |
| CORONADO BANK | 35.1( 56.5) | 7.6 | 0.109 | VII |
| MALIBU COAST | 38.5( 62.0) | 6.7 | 0.067 | VI |
| SAN JACINTO-SAN BERNARDINO | 40.3( 64.8) | 6.7 | 0.049 | VI |
| SIERRA MADRE (San Fernando) | 40.3( 64.9) | 6.7 | 0.063 | VI |
| SAN GABRIEL | 42.3( 68.1) | 7.2 | 0.067 | VI |
| NORTHRIDGE (E. Oak Ridge) | 42.6( 68.5) | 7.0 | 0.074 | VII |
| SAN ANDREAS - Cho-Moj M-1b-1 | 43.2( 69.5) | 7.8 | 0.099 | VII |
| SAN ANDREAS - Mojave M-1c-3 | 43.2( 69.5) | 7.4 | 0.075 | VII |
| SAN ANDREAS - Whole M-1a | 43.2( 69.5) | 8.0 | 0.112 | VII |
| SAN ANDREAS - 1857 Rupture M-2a | 43.2( 69.5) | 7.8 | 0.099 | VII |
| SAN ANDREAS - SB-Coach. M-1b-2 | 43.5( 70.0) | 7.7 | 0.092 | VII |
| SAN ANDREAS - SB-Coach. M-2b | 43.5( 70.0) | 7.7 | 0.092 | VII |
| SAN ANDREAS - San Bernardino M-1 | 43.5( 70.0) | 7.5 | 0.080 | VII |
| SAN JACINTO-SAN JACINTO VALLEY | 43.7( 70.3) | 6.9 | 0.052 | VI |
| CLEGHORN | 45.9( 73.8) | 6.5 | 0.035 | V |
| ANACAPA-DUME | 45.9( 73.8) | 7.5 | 0.097 | VII |
| SANTA SUSANA | 49.6( 79.9) | 6.7 | 0.048 | VI |
| NORTH FRONTAL FAULT ZONE (West) | 53.4( 85.9) | 7.2 | 0.064 | VI |
| ROSE CANYON | 53.9( 86.8) | 7.2 | 0.049 | VI |
| HOLSER | 55.4( 89.1) | 6.5 | 0.035 | V |
| SIMI-SANTA ROSA | 56.5( 90.9) | 7.0 | 0.051 | VI |
| SAN JACINTO-ANZA | 58.6( 94.3) | 7.2 | 0.044 | VI |
| ELSINORE (JULIAN) | 59.8( 96.2) | 7.1 | 0.040 | V |
| OAK RIDGE (Onshore) | 60.6( 97.6) | 7.0 | 0.046 | VI |

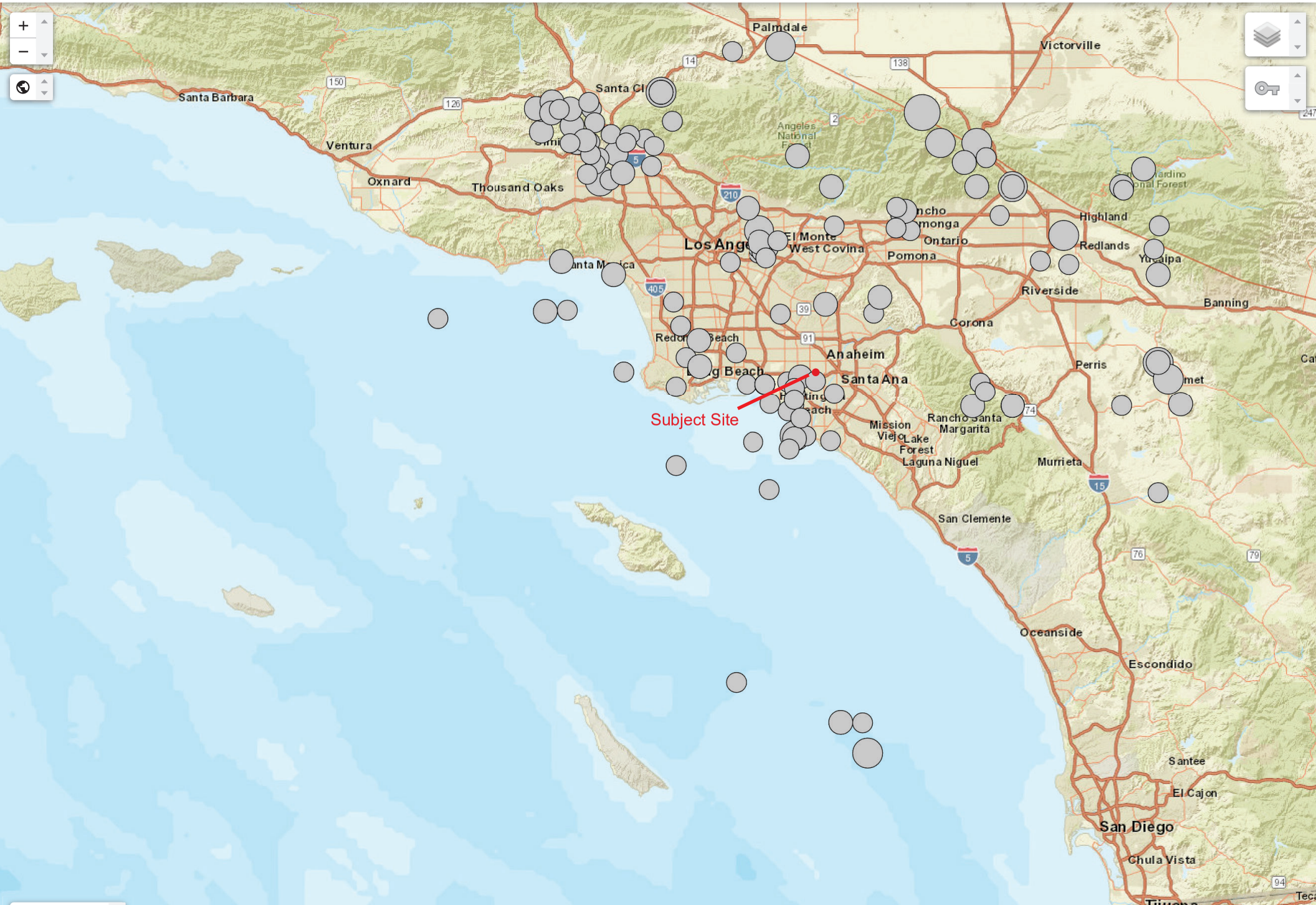
-END OF SEARCH- 42 FAULTS FOUND WITHIN THE SPECIFIED SEARCH RADIUS.

THE SAN JOAQUIN HILLS FAULT IS CLOSEST TO THE SITE.
IT IS ABOUT 5.8 MILES (9.3 km) AWAY.

LARGEST MAXIMUM-EARTHQUAKE SITE ACCELERATION: 0.3767 g

# List of Historical Earthquakes (M > 4.5) within 62 Miles (100 km) from the Site

| time | latitude | longitude | depth | mag | magType | nst | gap | dmin | rms | net | id | updated | place | type | horizontalError | depthError | magError | magNst | status | locationSource | magSource |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1812-12-08T15:00:00.000Z | 34.37 | -117.65 | | 7.5 | mw | | | | | cdmg | cdmg18121208150000000 | 2021-02-19T00:25:28.386Z | Northwest of San Bernardino, California | earthquake | | | | | reviewed | cdmg | cdmg |
| 1994-01-17T12:30:55.390Z | 34.213 | -118.537 | 18.202 | 6.7 | mw | 0 | 29.7 | | 0.31 | ci | ci3144585 | 2023-03-23T05:36:11.419Z | 1km NNW of Reseda, CA | earthquake | | 0.403 | | 0 | reviewed | ci | ci |
| 1918-04-21T22:32:30.350Z | 33.762 | -116.972 | 10 | 6.7 | mw | | | | | iscgem | iscgem913126 | 2022-04-25T23:55:26.420Z | 1 km N of Hemet, California | earthquake | | 4.8 | 0.3 | | reviewed | iscgem | iscgem |
| 1899-12-25T12:25:00.000Z | 33.8 | -117 | | 6.7 | mw | | | | | cdmg | cdmg18991225122500000 | 2021-10-05T10:04:31.000Z | Near San Jacinto, California | earthquake | | | | | reviewed | cdmg | cdmg |
| 1971-02-09T14:00:41.920Z | 34.416 | -118.37 | 8.95 | 6.6 | mw | 0 | 123 | | 0.249 | ci | ci3347678 | 2023-04-08T02:43:51.807Z | 10km SSW of Agua Dulce, CA | earthquake | | 6.837 | | 0 | reviewed | ci | ci |
| 1933-03-11T01:54:09.340Z | 33.6308 | -117.9995 | 6 | 6.4 | mw | 7 | 161 | 0.5357 | 0.23 | ci | ci3359741 | 2023-03-14T19:23:43.060Z | Long Beach, California Earthquake | earthquake | 1.41 | 31.61 | | 0 | reviewed | ci | ci |
| 1899-07-22T20:32:00.000Z | 34.3 | -117.5 | | 6.36 | mw | | | | | ushis | ushis359 | 2021-09-16T23:11:50.926Z | Cajon Pass area, northwest of San Bernardino, California | earthquake | | | | | reviewed | ushis | hht |
| 1857-01-16T16:53:00.000Z | 34.52 | -118.04 | | 6.3 | mw | | | | | cdmg | cdmg18570116165300000 | 2021-03-23T08:12:06.177Z | Near Palmdale, California | earthquake | | | | | reviewed | cdmg | cdmg |
| 1800-11-22T21:30:00.000Z | 32.9 | -117.8 | | 6.3 | mw | | | | | cdmg | cdmg18001122213000000 | 2021-02-18T21:53:35.019Z | Gulf of Santa Catalina, California | earthquake | | | | | reviewed | cdmg | cdmg |
| 1923-07-23T07:30:23.910Z | 34.089 | -117.259 | 5 | 6.21 | mw | | | | | iscgem | iscgem911466 | 2022-04-25T23:36:47.882Z | 3 km SE of San Bernardino, California | earthquake | | 5.2 | 0.3 | | reviewed | iscgem | iscgem |
| 1894-07-30T05:12:00.000Z | 34.3 | -117.6 | | 6.2 | mw | | | | | cdmg | cdmg18940730051200000 | 2021-08-05T23:17:19.627Z | Northwest of San Bernardino, California | earthquake | | | | | reviewed | cdmg | cdmg |
| 1858-12-16T10:00:00.000Z | 34.2 | -117.4 | | 6 | ml | | | | | cdmg | cdmg18581216100000000 | 2021-08-08T18:31:08.624Z | Near San Bernardino, California | earthquake | | | | | reviewed | cdmg | cdmg |
| 1855-07-11T04:15:00.000Z | 34.1 | -118.1 | | 6 | ml | | | | | ushis | ushis87 | 2021-08-08T17:57:19.467Z | Near San Gabriel, California | earthquake | | | | | reviewed | ushis | ell |
| 1987-10-01T14:42:20.020Z | 34.061 | -118.079 | 14.6 | 5.9 | mw | 0 | 44.4 | | 0.178 | ci | ci731691 | 2022-09-11T16:31:29.412Z | 2km SSW of Rosemead, CA | earthquake | | 0.023 | | 0 | reviewed | ci | ci |
| 1899-07-22T00:46:00.000Z | 34.2 | -117.4 | | 5.9 | ml | | | | | cdmg | cdmg18990722004600000 | 2021-09-16T21:44:24.495Z | Near San Bernardino, California | earthquake | | | | | automatic | cdmg | cdmg |
| 1880-12-19T23:35:00.000Z | 34 | -117 | | 5.9 | ml | | | | | cdmg | cdmg18801219233500000 | 2021-01-31T08:39:19.741Z | Near San Bernardino, California | earthquake | | | | | reviewed | cdmg | cdmg |
| 1994-01-17T12:31:58.120Z | 34.275 | -118.493 | 5.317 | 5.89 | ml | 0 | 142 | 0.2557 | 0.494 | ci | ci3149646 | 2020-07-09T21:21:19.090Z | 1km ENE of Granada Hills, California | earthquake | | | | 4 | reviewed | ci | ci |
| 1991-06-28T14:43:54.660Z | 34.27 | -117.993 | 8.049 | 5.8 | mw | 0 | 14.3 | | 0.264 | ci | ci2021449 | 2022-06-17T21:03:14.010Z | 13km NNE of Sierra Madre, CA | earthquake | | 0.304 | | 0 | reviewed | ci | ci |
| 1971-02-09T14:02:45.740Z | 34.416 | -118.37 | 6 | 5.8 | mh | 0 | 360 | 0.3136 | 0.005 | ci | ci3360245 | 2021-07-09T19:15:50.289Z | 10km SSW of Agua Dulce, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1971-02-09T14:01:12.450Z | 34.416 | -118.37 | 6 | 5.8 | mh | 0 | 329 | 0.3136 | 0.324 | ci | ci3360255 | 2020-07-09T21:38:09.519Z | 10km SSW of Agua Dulce, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1893-04-04T19:40:00.000Z | 34.3 | -118.6 | | 5.8 | ml | | | | | cdmg | cdmg18930404194000000 | 2021-05-07T22:30:24.642Z | Near Newhall, California | earthquake | | | | | reviewed | cdmg | cdmg |
| 1999-10-16T09:59:38.000Z | 34.24 | -117.04 | 6 | 5.6 | mb | | | | | ci | ci10180015 | 2020-07-09T21:09:47.651Z | 7km ENE of Running Springs, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1889-08-28T02:15:00.000Z | 34.2 | -117.9 | | 5.6 | ml | | | | | cdmg | cdmg18890828021500000 | 2021-03-04T19:57:35.336Z | Northwest of Pomona, California | earthquake | | | | | reviewed | cdmg | cdmg |
| 1994-01-17T23:33:30.690Z | 34.326 | -118.698 | 9.083 | 5.58 | ml | 0 | 23.9 | | 0.317 | ci | ci3141273 | 2022-04-28T17:52:51.734Z | 7km NNE of Simi Valley, California | earthquake | | 0.84 | | 28 | reviewed | ci | ci |
| 1990-02-28T23:43:36.750Z | 34.144 | -117.697 | 3.292 | 5.51 | ml | 0 | 30.9 | | 0.27 | ci | ci1053635 | 2022-09-08T16:44:41.918Z | 6km NNE of Claremont, CA | earthquake | | 0.155 | | 14 | reviewed | ci | ci |
| 1892-06-14T13:25:00.000Z | 34.2 | -117.5 | | 5.5 | ml | | | | | cdmg | cdmg18920614132500000 | 2021-05-03T22:28:57.354Z | Northeast of Rancho Cucamonga, California | earthquake | | | | | reviewed | cdmg | cdmg |
| 1986-07-13T13:47:08.210Z | 32.971 | -117.874 | 5.828 | 5.45 | ml | 0 | 166 | | 0.431 | ci | ci127298 | 2022-04-27T22:09:41.238Z | 47km ENE of San Clemente Is. (SE tip), CA | earthquake | | | | 8 | reviewed | ci | ci |
| 2008-07-29T18:42:15.670Z | 33.9485 | -117.7663 | 15.503 | 5.44 | mw | 136 | 17 | 0.08724 | 0.3 | ci | ci14383980 | 2022-08-05T16:28:18.118Z | 5km S of Chino Hills, CA | earthquake | 0.19 | 0.52 | | 6 | reviewed | ci | ci |
| 1971-02-09T14:10:29.040Z | 34.416 | -118.37 | 6 | 5.3 | mh | 0 | 360 | 0.3136 | 0 | ci | ci3360199 | 2018-06-04T20:43:45.000Z | 10km SSW of Agua Dulce, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1927-08-04T12:24:00.000Z | 34 | -118.5 | | 5.3 | uk | | | | | ushis | ushis770 | 2018-06-04T20:43:44.000Z | 2 km SSW of Santa Monica, California | earthquake | | | | | reviewed | ushis | jon |
| 1910-05-15T15:47:00.000Z | 33.7 | -117.4 | | 5.3 | mw | | | | | ushis | ushis506 | 2018-06-04T20:43:44.000Z | 7 km WNW of Lake Elsinore, California | earthquake | | | | | reviewed | ushis | hht |
| 1907-09-20T01:54:00.000Z | 34.2 | -117.1 | | 5.3 | mw | | | | | ushis | ushis468 | 2018-06-04T20:43:44.000Z | 1 km SE of Running Springs, California | earthquake | | | | | reviewed | ushis | hht |
| 1963-09-23T14:41:52.790Z | 33.7037 | -116.9382 | 10.66 | 5.29 | ml | 12 | 120 | | 0.35 | ci | ci3331170 | 2018-06-04T20:43:45.000Z | 6km SSE of Hemet, CA | earthquake | 1.25 | 1.83 | 0.25 | 7 | reviewed | ci | ci |
| 1933-03-11T06:58:44.390Z | 33.6238 | -118.0012 | 6 | 5.29 | mh | 5 | 161 | 0.542 | 0.38 | ci | ci3359813 | 2019-05-02T20:46:21.765Z | 7km W of Newport Beach, CA | earthquake | 2.41 | 31.61 | | 1 | reviewed | ci | ci |
| 1987-10-04T10:59:38.190Z | 34.074 | -118.098 | 7.719 | 5.25 | ml | 0 | 31.1 | | 0.175 | ci | ci732031 | 2022-04-27T21:31:35.802Z | 2km WSW of Rosemead, CA | earthquake | | 0.017 | | 7 | reviewed | ci | ci |
| 1930-08-31T00:40:38.000Z | 34.03 | -118.643 | 15 | 5.25 | ms | | | | | ushis | ushis850 | 2018-06-04T20:43:44.000Z | 1 km SW of Las Flores, California | earthquake | | | | | reviewed | ushis | gr |
| 1994-03-20T21:20:12.260Z | 34.231 | -118.475 | 12.442 | 5.24 | ml | 0 | 27 | | 0.332 | ci | ci3159411 | 2022-04-28T17:48:27.677Z | 3km WNW of Panorama City, California | earthquake | | 0.134 | | 40 | reviewed | ci | ci |
| 1994-01-18T00:43:08.890Z | 34.377 | -118.698 | 10.709 | 5.24 | ml | 0 | 45.5 | | 0.311 | ci | ci3141286 | 2020-04-16T18:54:30.059Z | 10km ESE of Piru, California | earthquake | | 0.534 | | 8 | reviewed | ci | ci |
| 1938-05-31T08:34:55.420Z | 33.6993 | -117.5112 | 10.19 | 5.23 | ml | 7 | 144 | 0.3144 | 0.36 | ci | ci3364626 | 2018-06-04T20:43:44.000Z | 8km ENE of Trabuco Canyon, CA | earthquake | 1.83 | 2.84 | 0.181 | 6 | reviewed | ci | ci |
| 1970-09-12T14:30:53.000Z | 34.2548 | -117.5343 | 10.75 | 5.22 | ml | 17 | 106 | | 0.36 | ci | ci3323898 | 2022-04-26T21:31:29.698Z | 3km W of Lytle Creek, CA | earthquake | 0.84 | 1.75 | 0.143 | 6 | reviewed | ci | ci |
| 1979-01-01T23:14:38.620Z | 33.9165 | -118.6872 | 13.3 | 5.21 | ml | 93 | 54 | | 0.43 | ci | ci12228815 | 2020-07-09T21:11:34.437Z | 13km S of Malibu Beach, CA | earthquake | 0.7 | 0.91 | 0.387 | 8 | reviewed | ci | ci |
| 1994-01-17T12:40:36.120Z | 34.34 | -118.614 | 5.395 | 5.2 | ml | 0 | 180 | 0.2682 | 0.373 | ci | ci3144694 | 2016-02-11T18:26:34.251Z | 9km N of Chatsworth, California | earthquake | | | | 21 | reviewed | ci | ci |
| 1941-11-14T08:41:37.650Z | 33.7907 | -118.2637 | 6 | 5.12 | ml | 8 | 61 | 0.3651 | 0.26 | ci | ci3365807 | 2018-06-04T20:43:44.000Z | 5km E of Lomita, CA | earthquake | 1.41 | 31.61 | 0.198 | 9 | reviewed | ci | ci |
| 2014-03-29T04:09:42.170Z | 33.9325 | -117.9158 | 5.09 | 5.1 | mw | 321 | 9 | 0.01443 | 0.24 | ci | ci15481673 | 2022-11-05T22:39:58.701Z | 2km NW of Brea, CA | earthquake | 0.1 | 0.21 | | 6 | reviewed | ci | ci |
| 1997-04-26T10:37:30.670Z | 34.369 | -118.67 | 15.892 | 5.07 | ml | 0 | 19.1 | | 0.269 | ci | ci9008753 | 2016-02-12T19:17:44.098Z | 12km ESE of Piru, California | earthquake | | 0.147 | | 100 | reviewed | ci | ci |
| 1994-01-19T21:11:44.900Z | 34.378 | -118.619 | 10.83 | 5.07 | ml | 0 | 43.5 | | 0.352 | ci | ci3142597 | 2016-02-12T12:08:07.288Z | 10km SSW of Valencia, California | earthquake | | 0.524 | | 18 | reviewed | ci | ci |
| 1994-01-29T11:20:35.970Z | 34.306 | -118.579 | 0.607 | 5.06 | ml | 0 | 22.4 | | 0.339 | ci | ci3147406 | 2022-04-28T17:53:30.583Z | 6km NNE of Chatsworth, California | earthquake | | 0.149 | | 20 | reviewed | ci | ci |
| 1994-01-19T21:09:28.610Z | 34.379 | -118.712 | 13.797 | 5.06 | ml | 0 | 41.5 | | 0.539 | ci | ci3142595 | 2016-02-13T08:36:11.800Z | 8km ESE of Piru, California | earthquake | | 0.188 | | 51 | reviewed | ci | ci |
| 1995-06-26T08:40:28.940Z | 34.394 | -118.669 | 12.76 | 5.02 | ml | 0 | 17.7 | | 0.285 | ci | ci3217586 | 2016-02-13T04:24:33.495Z | 11km SW of Valencia, California | earthquake | | 0.107 | | 59 | reviewed | ci | ci |
| 1988-12-03T11:38:26.450Z | 34.151 | -118.13 | 13.719 | 5.02 | ml | 0 | 21.2 | | 0.318 | ci | ci650799 | 2020-07-09T21:46:02.503Z | 1km SSE of Pasadena, CA | earthquake | | 0.091 | | 11 | reviewed | ci | ci |
| 1933-03-11T05:18:47.510Z | 33.7667 | -117.985 | 6 | 5.02 | mh | 4 | 151 | 0.411 | 0.39 | ci | ci3359797 | 2019-05-02T20:46:21.056Z | 2km ENE of Westminster, CA | earthquake | 1.6 | 31.61 | | 1 | reviewed | ci | ci |
| 1933-03-11T14:25:00.000Z | 33.85 | -118.266 | 16 | 5 | ml | | | | | ushis | ushis966 | 2018-06-04T20:43:44.000Z | 2 km NE of Carson, California | earthquake | | | | | reviewed | ushis | pas |
| 1918-06-06T22:32:00.000Z | 33.8 | -117 | | 5 | ml | | | | | ushis | ushis635 | 2018-06-04T20:43:44.000Z | 4 km WNW of San Jacinto, California | earthquake | | | | | reviewed | ushis | cdmg |
| 1910-05-13T06:20:00.000Z | 33.7 | -117.4 | | 5 | ml | | | | | ushis | ushis504 | 2018-06-04T20:43:44.000Z | 7 km WNW of Lake Elsinore, California | earthquake | | | | | reviewed | ushis | cdmg |
| 1910-04-11T07:57:00.000Z | 33.7 | -117.4 | | 5 | ml | | | | | ushis | ushis501 | 2018-06-04T20:43:44.000Z | 7 km WNW of Lake Elsinore, California | earthquake | | | | | reviewed | ushis | cdmg |
| 1989-01-19T06:53:28.840Z | 33.919 | -118.627 | 11.634 | 4.96 | ml | 0 | 47.5 | | 0.174 | ci | ci1018595 | 2020-07-09T21:10:01.016Z | 13km S of Las Flores, CA | earthquake | | 0.133 | | 13 | reviewed | ci | ci |
| 1997-04-27T11:09:28.380Z | 34.377 | -118.649 | 14.622 | 4.92 | ml | 0 | 22.8 | | 0.25 | ci | ci9008934 | 2016-02-13T05:22:12.215Z | 11km SW of Valencia, California | earthquake | | 0.087 | | 100 | reviewed | ci | ci |
| 1933-03-11T14:57:00.000Z | 33.883 | -118.316 | 16 | 4.9 | ml | | | | | ushis | ushis967 | 2018-06-04T20:43:44.000Z | 0 km SW of Gardena, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-11T05:11:02.840Z | 33.7557 | -118.0202 | 6 | 4.9 | mh | 6 | 153 | 0.4114 | 0.5 | ci | ci3359790 | 2019-05-02T20:46:20.380Z | 1km WSW of Westminster, CA | earthquake | 3.06 | 31.61 | | 1 | reviewed | ci | ci |
| 1933-03-11T04:39:00.000Z | 33.75 | -118.0833 | 0 | 4.9 | mh | | | | | ci | ci10084354 | 2018-06-04T20:43:44.000Z | 2km ENE of Seal Beach, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1920-06-22T02:47:00.000Z | 34 | -118.5 | | 4.9 | ml | | | | | ushis | ushis658 | 2018-06-04T20:43:44.000Z | 2 km SSW of Santa Monica, California | earthquake | | | | | reviewed | ushis | pas |
| 1994-01-17T12:39:39.800Z | 34.265 | -118.54 | 5.88 | 4.89 | ml | 0 | 89.5 | | 0.362 | ci | ci3144652 | 2016-02-12T14:47:30.877Z | 3km N of Northridge, California | earthquake | | | | 23 | reviewed | ci | ci |
| 2005-06-16T20:53:26.020Z | 34.058 | -117.0113 | 10.558 | 4.88 | mw | 149 | 18 | | 0.29 | ci | ci14155260 | 2022-08-05T17:14:04.036Z | 4km NE of Yucaipa, CA | earthquake | 0.21 | 0.46 | | 6 | reviewed | ci | ci |
| 1933-03-11T08:55:39.050Z | 33.701 | -118.0033 | 6 | 4.86 | mh | 5 | 156 | 0.4676 | 0.42 | ci | ci3359825 | 2019-05-02T20:46:22.421Z | 1km NNW of Huntington Beach, CA | earthquake | 1.64 | 31.61 | | 1 | reviewed | ci | ci |
| 1994-01-17T20:46:02.400Z | 34.302 | -118.565 | 5.811 | 4.85 | ml | 0 | 43.5 | | 0.333 | ci | ci3141219 | 2016-02-11T23:46:30.598Z | 6km NE of Chatsworth, California | earthquake | | | | 37 | reviewed | ci | ci |
| 1994-01-17T15:54:10.760Z | 34.376 | -118.627 | 12.451 | 4.85 | ml | 0 | 35.6 | | 0.351 | ci | ci3140766 | 2016-02-13T08:34:48.620Z | 10km SSW of Valencia, California | earthquake | | 0.426 | | 41 | reviewed | ci | ci |
| 1933-02-24T19:33:17.510Z | 33.063 | -118.163 | 6 | 4.85 | ml | 0 | 360 | 1.083 | 0 | ci | ci3359699 | 2019-05-02T20:46:17.546Z | 32km NNE of San Clemente Is. (SE tip), CA | earthquake | | | | 7 | reviewed | ci | ci |
| 1994-01-18T15:23:46.890Z | 34.379 | -118.561 | 7.441 | 4.84 | ml | 0 | 60.6 | | 0.276 | ci | ci3141597 | 2016-02-12T14:48:29.819Z | 6km SW of Santa Clarita, California | earthquake | | 1.182 | | 38 | reviewed | ci | ci |
| 1988-11-20T05:39:28.670Z | 33.507 | -118.071 | 5.79 | 4.83 | ml | 0 | 84.1 | | 0.29 | ci | ci1013254 | 2018-06-04T20:43:45.000Z | 18km SW of Newport Beach, CA | earthquake | | | | 8 | reviewed | ci | ci |
| 1971-02-09T14:34:39.350Z | 34.3097 | -118.414 | 2.79 | 4.83 | ml | 6 | 150 | | 0.34 | ci | ci3342514 | 2018-06-04T20:43:45.000Z | 4km NE of Pacoima, CA | earthquake | 2.83 | 2.45 | 0.319 | 7 | reviewed | ci | ci |
| 1933-03-11T09:10:58.000Z | 33.7572 | -117.9435 | 6 | 4.83 | mh | 5 | 150 | 0.4337 | 0.53 | ci | ci3359827 | 2019-05-02T20:46:23.143Z | 3km SSE of Garden Grove, CA | earthquake | 2.2 | 31.61 | | 1 | reviewed | ci | ci |
| 1994-01-17T12:40:09.520Z | 34.32 | -118.507 | 5.495 | 4.82 | ml | 0 | 135 | 0.2177 | 0.292 | ci | ci3144673 | 2016-02-11T21:12:07.853Z | 5km N of Granada Hills, California | earthquake | | | | 18 | reviewed | ci | ci |
| 1989-06-12T16:57:18.490Z | 34.028 | -118.18 | 15.365 | 4.82 | ml | 0 | 56.6 | | 0.169 | ci | ci1032113 | 2020-07-09T21:10:14.130Z | 1km WSW of East Los Angeles, CA | earthquake | | 0.008 | | 13 | reviewed | ci | ci |
| 1989-04-07T20:07:30.300Z | 33.619 | -117.902 | 12.599 | 4.8 | ml | 0 | 79.5 | | 0.241 | ci | ci657729 | 2020-07-09T21:46:16.168Z | 2km E of Newport Beach, CA | earthquake | | 0.044 | | 10 | reviewed | ci | ci |
| 2002-09-03T07:08:51.840Z | 33.9123 | -117.7833 | 9.371 | 4.78 | ml | 141 | 19 | | 0.31 | ci | ci9818433 | 2022-06-18T05:32:07.750Z | 4km NE of Yorba Linda, CA | earthquake | 0.18 | 0.39 | 0.185 | 166 | reviewed | ci | ci |
| 1994-04-06T19:01:04.060Z | 34.192 | -117.095 | 5.726 | 4.78 | ml | 0 | 26.5 | | 0.202 | ci | ci3162132 | 2016-02-12T05:01:21.792Z | 2km SE of Running Springs, California | earthquake | | 0.563 | | 44 | reviewed | ci | ci |
| 1933-03-13T13:18:14.050Z | 33.7408 | -118.0012 | 6 | 4.78 | ml | 6 | 153 | 0.4304 | 0.24 | ci | ci3359943 | 2018-06-04T20:43:44.000Z | 2km SSE of Westminster, CA | earthquake | 0.85 | 31.61 | 0.37 | 4 | reviewed | ci | ci |
| 1933-03-14T19:02:36.100Z | 33.6875 | -118.0185 | 8 | 4.76 | ml | 6 | 158 | 0.477 | 0.13 | ci | ci3359963 | 2019-05-02T20:46:24.522Z | 2km WSW of Huntington Beach, CA | earthquake | 0.72 | 31.61 | 0.278 | 6 | reviewed | ci | ci |
| 1987-10-01T14:49:05.920Z | 34.06 | -118.1 | 11.03 | 4.75 | ml | 0 | 90.4 | | 0.049 | ci | ci624580 | 2018-06-04T20:43:45.000Z | 2km E of Monterey Park, CA | earthquake | | 0.046 | | 9 | reviewed | ci | ci |
| 1952-08-23T10:09:06.820Z | 34.5082 | -118.1742 | 6 | 4.75 | ml | 12 | 89 | | 0.59 | ci | ci3306750 | 2018-06-04T20:43:44.000Z | 5km NNE of Acton, CA | earthquake | 1.34 | 31.61 | 0.18 | 5 | reviewed | ci | ci |
| 1933-10-02T09:10:18.920Z | 33.8218 | -118.1638 | 6 | 4.75 | ml | 6 | 222 | 0.3258 | 0.5 | ci | ci3361375 | 2018-06-04T20:43:44.000Z | 2km N of Signal Hill, CA | earthquake | 3.47 | 31.61 | 0.315 | 7 | reviewed | ci | ci |
| 1933-03-11T03:24:01.180Z | 33.7047 | -118.0685 | 6 | 4.75 | ml | 4 | 210 | 0.4508 | 0.48 | ci | ci3359769 | 2019-05-02T20:46:19.755Z | 5km SE of Seal Beach, CA | earthquake | 2.45 | 31.61 | | 1 | reviewed | ci | ci |
| 2007-09-02T17:29:14.790Z | 33.7322 | -117.477 | 12.192 | 4.73 | ml | 136 | 54 | | 0.32 | ci | ci10275733 | 2022-08-05T16:51:42.405Z | 13km NE of Trabuco Canyon, CA | earthquake | 0.27 | 0.55 | 0.137 | 396 | reviewed | ci | ci |
| 1990-03-01T03:23:03.030Z | 34.153 | -117.72 | 10.256 | 4.72 | ml | 0 | 28.2 | | 0.129 | ci | ci676027 | 2016-02-04T22:28:13.460Z | 6km N of Claremont, CA | earthquake | | 0.023 | | 10 | reviewed | ci | ci |
| 1956-01-03T00:25:49.130Z | 33.7528 | -117.4907 | 10.81 | 4.71 | ml | 13 | 145 | | 0.45 | ci | ci3297472 | 2018-06-04T20:43:44.000Z | 14km NE of Trabuco Canyon, CA | earthquake | 0.82 | 1.54 | 0.073 | 6 | reviewed | ci | ci |
| 2009-05-18T03:39:36.340Z | 33.9377 | -118.3357 | 13.817 | 4.7 | mw | 123 | 44 | | 0.34 | ci | ci10410337 | 2022-08-05T20:19:51.446Z | 2km E of Lennox, CA | earthquake | 0.29 | 0.49 | | 0 | reviewed | ci | ci |
| 1987-10-01T14:45:41.450Z | 34.049 | -118.1 | 12.874 | 4.7 | ml | 0 | 79.5 | | 0.046 | ci | ci624578 | 2018-06-04T20:43:45.000Z | 3km SE of Monterey Park, CA | earthquake | | 0.088 | | 8 | reviewed | ci | ci |
| 1971-02-09T14:02:29.940Z | 34.416 | -118.37 | 6 | 4.7 | mh | 0 | 360 | 0.3136 | 0 | ci | ci3360246 | 2021-07-09T19:16:24.144Z | 10km SSW of Agua Dulce, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1963-09-14T03:51:16.770Z | 33.5623 | -118.3285 | 6 | 4.7 | ml | 13 | 187 | 0.5991 | 0.49 | ci | ci3331219 | 2016-01-28T19:35:49.820Z | 20km S of San Pedro, CA | earthquake | 1.74 | 31.61 | 0.252 | 12 | reviewed | ci | ci |
| 1940-10-11T05:57:13.510Z | 33.7782 | -118.4722 | 6 | 4.7 | ml | 7 | 59 | 0.4461 | 0.43 | ci | ci3365468 | 2018-06-04T20:43:44.000Z | 8km WSW of Palos Verdes Estates, CA | earthquake | 1.94 | 31.61 | 0.177 | 11 | reviewed | ci | ci |
| 1933-03-13T04:32:00.000Z | 33.75 | -118.083 | 16 | 4.7 | ml | | | | | ushis | ushis973 | 2018-06-04T20:43:44.000Z | 2 km ENE of Seal Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-11T05:13:00.000Z | 33.75 | -118.083 | 16 | 4.7 | ml | | | | | ushis | ushis959 | 2018-06-04T20:43:44.000Z | 2 km ENE of Seal Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-11T04:40:00.000Z | 33.75 | -118.0833 | 0 | 4.7 | mh | | | | | ci | ci10084358 | 2018-06-04T20:43:44.000Z | 2km ENE of Seal Beach, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1933-03-11T02:29:59.210Z | 33.75 | -118.0833 | 6 | 4.7 | ml | 0 | 191 | 0.4041 | 0.296 | ci | ci3359757 | 2018-06-04T20:43:44.000Z | 2km ENE of Seal Beach, CA | earthquake | | | 0.138 | 2 | reviewed | ci | ci |
| 1929-07-08T16:46:07.000Z | 33.91 | -118.04 | 13 | 4.7 | ml | | | | | ushis | ushis810 | 2018-06-04T20:43:44.000Z | 2 km WSW of La Mirada, California | earthquake | | | | | reviewed | ushis | ric |
| 1988-02-11T15:25:55.650Z | 34.077 | -118.047 | 11.978 | 4.69 | ml | 0 | 40 | | 0.163 | ci | ci743060 | 2020-08-25T22:23:56.351Z | 2km WNW of El Monte, CA | earthquake | | 0.012 | | 9 | reviewed | ci | ci |
| 1941-10-22T06:57:18.960Z | 33.811 | -118.3013 | 0.19 | 4.69 | ml | 6 | 231 | 0.3535 | 0.28 | ci | ci3365787 | 2018-06-04T20:43:44.000Z | 2km NNE of Lomita, CA | earthquake | 2.57 | 3.42 | 0.342 | 11 | reviewed | ci | ci |
| 1936-02-23T22:20:42.300Z | 34.0308 | -117.3232 | 19.72 | 4.69 | ml | 5 | 243 | 0.0572 | 0.1 | ci | ci3363468 | 2018-06-04T20:43:44.000Z | 1km WSW of Grand Terrace, CA | earthquake | 3.31 | 2.44 | 0.073 | 9 | reviewed | ci | ci |
| 1994-01-17T13:26:45.010Z | 34.318 | -118.456 | 5.864 | 4.68 | ml | 0 | 51.2 | | 0.336 | ci | ci3140684 | 2016-02-11T23:46:14.721Z | 4km NNW of Pacoima, California | earthquake | | | | 41 | reviewed | ci | ci |
| 1933-03-11T02:04:00.060Z | 33.63 | -117.97 | 6 | 4.68 | mh | 0 | 360 | 0.5435 | 0 | ci | ci3359742 | 2018-06-04T20:43:44.000Z | 4km WNW of Newport Beach, CA | earthquake | | | | 1 | reviewed | ci | ci |
| 2007-08-09T07:58:49.590Z | 34.2995 | -118.6195 | 7.062 | 4.66 | ml | 111 | 24 | 0.0442 | 0.3 | ci | ci14312160 | 2022-08-05T16:52:58.088Z | 5km NNW of Chatsworth, CA | earthquake | 0.24 | 1.05 | 0.177 | 355 | reviewed | ci | ci |
| 1988-06-26T15:04:58.480Z | 34.136 | -117.709 | 6.579 | 4.66 | ml | 0 | 30 | | 0.161 | ci | ci136984 | 2018-06-04T20:43:45.000Z | 4km NNE of Claremont, CA | earthquake | | 0.041 | | 12 | reviewed | ci | ci |
| 1933-03-15T11:13:19.420Z | 33.7138 | -118.0017 | 6 | 4.66 | ml | 6 | 155 | 0.4558 | 0.41 | ci | ci3359974 | 2018-06-04T20:43:44.000Z | 2km N of Huntington Beach, CA | earthquake | 2.38 | 31.61 | 0.199 | 6 | reviewed | ci | ci |
| 1994-01-22T22:54:10.660Z | 34.393 | -118.568 | 6.969 | 4.64 | mc | 0 | 79.5 | | 0.113 | ci | ci3187383 | 2016-02-11T23:49:51.384Z | 6km WSW of Santa Clarita, California | earthquake | | 1.007 | | 1 | reviewed | ci | ci |
| 1971-02-09T14:10:21.330Z | 34.2463 | -118.3962 | 14.58 | 4.64 | ml | 4 | 164 | 0.2105 | 0.06 | ci | ci3342443 | 2018-06-04T20:43:45.000Z | 4km SW of Lake View Terrace, CA | earthquake | 1.24 | 1.5 | 0.122 | 7 | reviewed | ci | ci |
| 1994-01-17T17:56:08.210Z | 34.228 | -118.572 | 19.099 | 4.63 | ml | 0 | 42 | | 0.327 | ci | ci3140853 | 2016-02-13T05:59:38.548Z | 4km WSW of Northridge, California | earthquake | | 0.589 | | 43 | reviewed | ci | ci |
| 1994-01-17T13:06:28.340Z | 34.251 | -118.55 | 5.926 | 4.62 | ml | 0 | 59.3 | | 0.382 | ci | ci3140678 | 2016-02-11T21:12:10.904Z | 2km NW of Northridge, California | earthquake | | | | 46 | reviewed | ci | ci |
| 1987-10-01T15:12:31.760Z | 34.052 | -118.091 | 10.239 | 4.62 | ml | 0 | 47.8 | | 0.187 | ci | ci134294 | 2018-06-04T20:43:45.000Z | 3km ESE of Monterey Park, CA | earthquake | | 0.024 | | 7 | reviewed | ci | ci |
| 1933-03-11T02:17:23.100Z | 33.7278 | -117.892 | 6 | 4.62 | ml | 4 | 184 | 0.4795 | 0.4 | ci | ci3359754 | 2019-05-02T20:46:19.081Z | 2km SW of Santa Ana, CA | earthquake | 3.11 | 31.61 | 0.036 | 2 | reviewed | ci | ci |
| 1965-04-15T20:08:33.450Z | 34.1345 | -117.436 | 6 | 4.61 | ml | 15 | 88 | | 0.26 | ci | ci3330616 | 2018-06-04T20:43:45.000Z | 5km NNE of Fontana, CA | earthquake | 0.89 | 31.61 | 0.162 | 6 | reviewed | ci | ci |
| 1971-02-09T14:08:53.720Z | 34.416 | -118.37 | 6 | 4.6 | mh | 0 | 205 | 0.3136 | 0.523 | ci | ci3360203 | 2018-06-04T20:43:45.000Z | 10km SSW of Agua Dulce, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1948-03-01T08:12:13.520Z | 34.2657 | -117.4742 | 2.52 | 4.6 | ml | 8 | 161 | 0.2836 | 0.2 | ci | ci3357723 | 2018-06-04T20:43:44.000Z | 2km ENE of Lytle Creek, CA | earthquake | 0.59 | 0.85 | 0.096 | 14 | reviewed | ci | ci |
| 1933-03-12T06:16:00.000Z | 33.75 | -118.083 | 16 | 4.6 | ml | | | | | ushis | ushis969 | 2018-06-04T20:43:44.000Z | 2 km ENE of Seal Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-11T11:04:00.000Z | 33.75 | -118.133 | 16 | 4.6 | ml | | | | | ushis | ushis965 | 2018-06-04T20:43:44.000Z | 2 km WNW of Seal Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-11T04:36:00.000Z | 33.75 | -118.083 | 16 | 4.6 | ml | | | | | ushis | ushis955 | 2018-06-04T20:43:44.000Z | 2 km ENE of Seal Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-11T02:59:00.000Z | 33.75 | -118.083 | 16 | 4.6 | ml | | | | | ushis | ushis953 | 2018-06-04T20:43:44.000Z | 2 km ENE of Seal Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-11T02:27:00.000Z | 33.75 | -118.083 | 16 | 4.6 | ml | | | | | ushis | ushis951 | 2018-06-04T20:43:44.000Z | 2 km ENE of Seal Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1994-01-24T04:15:18.820Z | 34.347 | -118.552 | 6.024 | 4.59 | ml | 0 | 25.5 | | 0.314 | ci | ci3145150 | 2016-02-12T17:25:41.011Z | 9km SSW of Santa Clarita, California | earthquake | | 0.335 | | 40 | reviewed | ci | ci |
| 1992-06-29T14:41:26.040Z | 34.111 | -116.9968 | 3.311 | 4.59 | ml | 61 | 56 | | 0.29 | ci | ci3031622 | 2016-04-01T23:08:39.352Z | 10km NNE of Yucaipa, CA | earthquake | 0.45 | 0.98 | | 20 | reviewed | ci | ci |
| 1971-02-09T15:58:20.880Z | 34.3502 | -118.3388 | 13.91 | 4.59 | ml | 14 | 130 | | 0.4 | ci | ci3347652 | 2022-04-26T21:22:21.751Z | 9km NNE of Lake View Terrace, CA | earthquake | 1.26 | 1.04 | 0.137 | 7 | reviewed | ci | ci |
| 1985-10-02T23:44:12.450Z | 34.023 | -117.245 | 14.698 | 4.58 | ml | 0 | 34.6 | | 0.285 | ci | ci107945 | 2018-06-04T20:43:45.000Z | 3km SSE of Loma Linda, CA | earthquake | | 0.166 | | 7 | reviewed | ci | ci |
| 1961-10-20T19:49:50.180Z | 33.671 | -117.984 | 0.62 | 4.58 | ml | 16 | 121 | 0.3332 | 0.34 | ci | ci3344656 | 2018-06-04T20:43:45.000Z | 3km SSE of Huntington Beach, CA | earthquake | 0.82 | 1.79 | 0.091 | 11 | reviewed | ci | ci |
| 1994-01-27T17:19:58.830Z | 34.273 | -118.563 | 14.535 | 4.57 | ml | 0 | 30.9 | | 0.333 | ci | ci3146628 | 2016-02-11T18:31:40.488Z | 4km ENE of Chatsworth, California | earthquake | | 0.082 | | 20 | reviewed | ci | ci |
| 1935-07-13T10:54:18.040Z | 34.1107 | -117.892 | 2.66 | 4.57 | ml | 5 | 155 | 0.1781 | 0.39 | ci | ci3363080 | 2018-06-04T20:43:44.000Z | 0km S of Citrus, CA | earthquake | 3.09 | 1.79 | 0.114 | 8 | reviewed | ci | ci |
| 1948-04-16T22:26:25.300Z | 33.9 | -118.9847 | 6 | 4.55 | ml | 8 | 187 | 0.7196 | 0.32 | ci | ci3357617 | 2018-06-04T20:43:44.000Z | 20km SW of Malibu, CA | earthquake | 1.03 | 31.61 | 0.128 | 13 | reviewed | ci | ci |
| 2020-09-19T06:38:46.930Z | 34.038 | -118.08 | 16.87 | 4.54 | mw | 236 | 16 | 0.01273 | 0.25 | ci | ci38695658 | 2023-02-02T00:38:27.826Z | 3km WSW of South El Monte, CA | earthquake | 0.11 | 0.22 | | 6 | reviewed | ci | ci |
| 1994-12-06T03:48:34.490Z | 34.293 | -118.389 | 8.208 | 4.54 | ml | 0 | 23.6 | | 0.331 | ci | ci3195727 | 2016-02-12T10:12:07.641Z | 3km NW of Lake View Terrace, California | earthquake | | 0.364 | | 54 | reviewed | ci | ci |
| 1933-03-11T16:54:29.180Z | 33.7285 | -117.9995 | 6 | 4.54 | ml | 5 | 155 | 0.4425 | 0.27 | ci | ci3359872 | 2019-05-02T20:46:23.809Z | 4km S of Westminster, CA | earthquake | 0.96 | 31.61 | 0.068 | 2 | reviewed | ci | ci |
| 1933-03-11T02:09:00.060Z | 33.63 | -117.97 | 6 | 4.54 | ml | 0 | 360 | 0.5435 | 0 | ci | ci3359745 | 2018-06-04T20:43:44.000Z | 4km WNW of Newport Beach, CA | earthquake | | | 0.277 | 2 | reviewed | ci | ci |
| 1994-01-21T18:39:15.260Z | 34.301 | -118.466 | 10.323 | 4.53 | ml | 0 | 37.2 | | 0.342 | ci | ci3145627 | 2016-02-12T07:11:41.247Z | 3km NW of Pacoima, California | earthquake | | 0.206 | | 33 | reviewed | ci | ci |
| 1994-01-19T14:09:14.830Z | 34.215 | -118.51 | 17.287 | 4.52 | ml | 0 | 34.3 | | 0.295 | ci | ci3142198 | 2016-02-11T18:27:52.503Z | 3km NE of Reseda, California | earthquake | | 0.353 | | 44 | reviewed | ci | ci |
| 1990-04-04T08:54:39.390Z | 32.97 | -117.814 | 5.74 | 4.52 | ml | 0 | 165 | | 0.467 | ci | ci1056608 | 2016-02-04T22:06:36.710Z | 48km WSW of Carlsbad, CA | earthquake | | | | 31 | reviewed | ci | ci |
| 1939-12-27T19:28:48.590Z | 33.7437 | -118.3283 | 6 | 4.51 | ml | 6 | 233 | 0.4244 | 0.36 | ci | ci3365178 | 2018-06-04T20:43:44.000Z | 3km ESE of Rolling Hills, CA | earthquake | 1.97 | 31.61 | 0.079 | 14 | reviewed | ci | ci |
| 1990-04-17T22:32:27.290Z | 34.106 | -117.722 | 2.903 | 4.5 | ml | 0 | 42.7 | | 0.164 | ci | ci1057313 | 2020-07-09T21:10:33.319Z | 1km N of Claremont, CA | earthquake | | 0.005 | | 22 | reviewed | ci | ci |
| 1971-02-09T14:08:34.040Z | 34.416 | -118.37 | 6 | 4.5 | mh | 0 | 360 | 0.3136 | 0 | ci | ci3360204 | 2018-06-04T20:43:45.000Z | 10km SSW of Agua Dulce, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1971-02-09T14:07:43.970Z | 34.416 | -118.37 | 6 | 4.5 | mh | 0 | 360 | 0.3136 | 0.154 | ci | ci3360209 | 2021-03-09T23:52:08.576Z | 10km SSW of Agua Dulce, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1971-02-09T14:01:53.040Z | 34.416 | -118.37 | 6 | 4.5 | mh | 0 | 360 | 0.3136 | 0 | ci | ci3360252 | 2021-03-09T23:52:17.143Z | 10km SSW of Agua Dulce, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1935-12-25T17:15:00.000Z | 33.6 | -118.016 | 16 | 4.5 | ml | | | | | ushis | ushis1127 | 2018-06-04T20:43:44.000Z | 6 km SSW of Huntington Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1934-01-20T21:17:00.000Z | 33.616 | -118.116 | 16 | 4.5 | ml | | | | | ushis | ushis1019 | 2018-06-04T20:43:44.000Z | 11 km WSW of Huntington Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1934-01-09T14:10:00.000Z | 34.1 | -117.683 | 16 | 4.5 | ml | | | | | ushis | ushis1017 | 2018-06-04T20:43:44.000Z | 2 km NNE of Montclair, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-14T12:19:00.000Z | 33.75 | -118.083 | 16 | 4.5 | ml | | | | | ushis | ushis975 | 2018-06-04T20:43:44.000Z | 2 km ENE of Seal Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-12T23:54:00.000Z | 33.75 | -118.083 | 16 | 4.5 | ml | | | | | ushis | ushis972 | 2018-06-04T20:43:44.000Z | 2 km ENE of Seal Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-12T17:38:00.000Z | 33.75 | -118.083 | 16 | 4.5 | ml | | | | | ushis | ushis970 | 2018-06-04T20:43:44.000Z | 2 km ENE of Seal Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-11T08:08:00.000Z | 33.75 | -118.083 | 16 | 4.5 | ml | | | | | ushis | ushis962 | 2018-06-04T20:43:44.000Z | 2 km ENE of Seal Beach, California | earthquake | | | | | reviewed | ushis | pas |
| 1933-03-11T02:16:00.000Z | 33.75 | -118.0833 | 6 | 4.5 | mh | | | | | ci | ci10087150 | 2018-06-04T20:43:44.000Z | 2km ENE of Seal Beach, CA | earthquake | | | | 0 | reviewed | ci | ci |
| 1925-08-08T10:13:00.000Z | 33.5 | -117 | | 4.5 | ml | | | | | ushis | ushis727 | 2018-06-04T20:43:44.000Z | 13 km E of Temecula, California | earthquake | | | | | reviewed | ushis | cdmg |
| 1902-06-11T02:45:00.000Z | 33.7 | -117.1 | | 4.5 | ml | | | | | ushis | ushis403 | 2018-06-04T20:43:44.000Z | 1 km WSW of Winchester, California | earthquake | | | | | reviewed | ushis | cdmg |

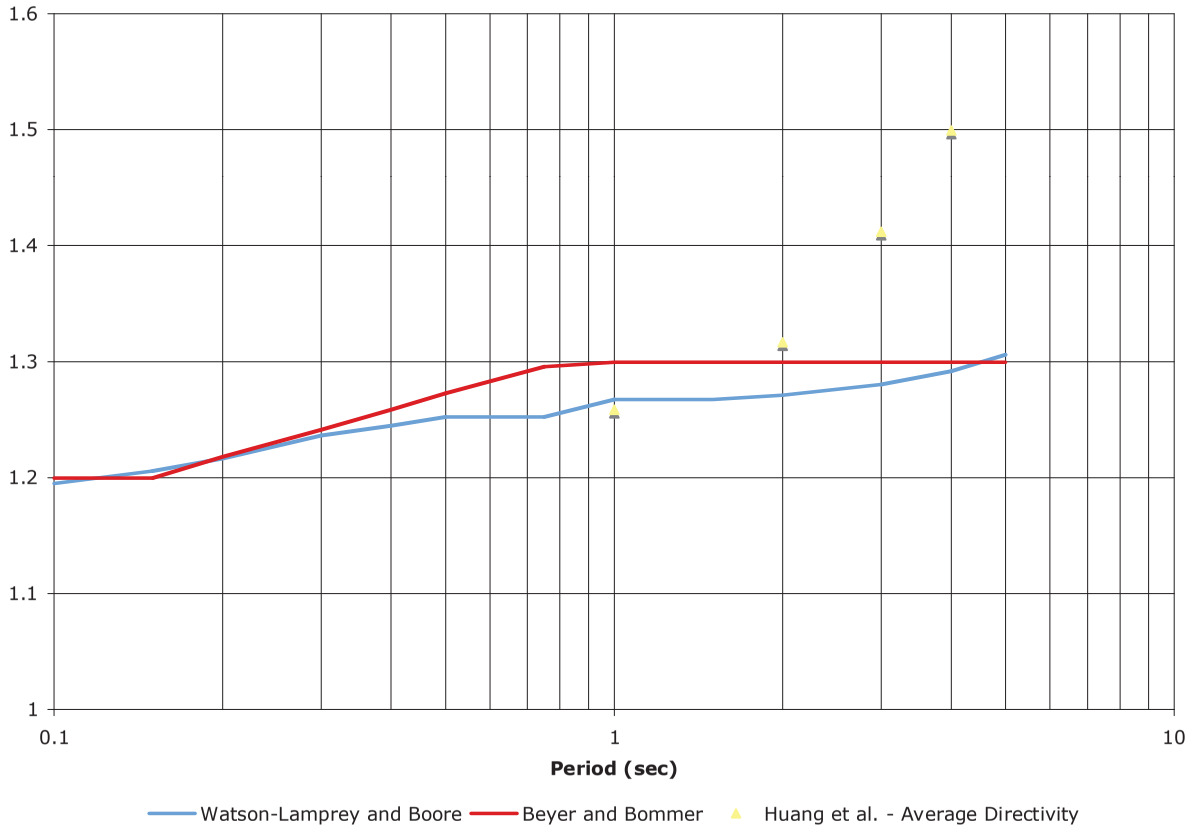



ASE #7109.23 Plate I-5 Historical Earthquakes (M ≥ 4.5) Map

34.382°N : 119.040°W

Leaflet | Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, © OpenStreetMap contributors, and the GIS User Community

# Max Component Factors




Consortium of Organizations for Strong Motion Observation Systems

Jennie Watson-Lamprey
COSMOS Annual Meeting Technical Session
November 6, 2009

# CALCULATION OF WEIGHTED Vs VALUE FOR SITE CLASSIFICATION

(Calculation based on Procedures in ASCE 7-16 Section 20.4.1)

**Table 20.3-1 Site Classification**

| Site Class | $\bar{v}_s$ | $\bar{N}$ or $\bar{N}_{ch}$ | $\bar{s}_u$ |
|---|---|---|---|
| A. Hard rock | >5,000 ft/s | NA | NA |
| B. Rock | 2,500 to 5,000 ft/s | NA | NA |
| C. Very dense soil and soft rock | 1,200 to 2,500 ft/s | >50 blows/ft | >2,000 lb/ft$^2$ |
| D. Stiff soil | 600 to 1,200 ft/s | 15 to 50 blows/ft | 1,000 to 2,000 lb/ft$^2$ |
| E. Soft clay soil | <600 ft/s | <15 blows/ft | <1,000 lb/ft$^2$ |
| | Any profile with more than 10 ft of soil that has the following characteristics:<br>— Plasticity index $PI > 20$,<br>— Moisture content $w \geq 40\%$,<br>— Undrained shear strength $\bar{s}_u < 500$ lb/ft$^2$ | | |
| F. Soils requiring site response analysis in accordance with Section 21.1 | See Section 20.3.1 | | |

*Note*: For SI: 1 ft = 0.3048 m; 1 ft/s = 0.3048 m/s; 1 lb/ft$^2$ = 0.0479 kN/m$^2$.

**Boring/CPT Test No.** ***CPT-1***

| Layer Depth (ft) Top | Layer Depth (ft) Bottom | Layer Thickness, $d_i$ (ft) | Geophone Depth (ft) | Travel Distance (ft) | S-Wave Arrival (msec) | Assumed? (Y/N) | S-Wave Velocity (ft/sec) | $d_i/Vs_i$ |
|---|---|---|---|---|---|---|---|---|
| 0.00 | 10.04 | 10.04 | 9.04 | 9.26 | 15.28 | N | 606 | 0.0166 |
| 10.04 | 20.01 | 9.97 | 19.01 | 19.11 | 32.00 | N | 589 | 0.0169 |
| 20.01 | 30.02 | 10.01 | 29.02 | 29.09 | 45.10 | N | 761 | 0.0131 |
| 30.02 | 40.12 | 10.10 | 39.12 | 39.17 | 58.90 | N | 731 | 0.0138 |
| 40.12 | 50.07 | 9.95 | 49.07 | 49.11 | 71.40 | N | 795 | 0.0125 |
| 50.07 | 60.20 | 10.13 | 59.20 | 59.23 | 82.64 | N | 901 | 0.0112 |
| 60.20 | 70.21 | 10.01 | 69.21 | 69.24 | 93.56 | N | 916 | 0.0109 |
| 70.21 | 80.00 | 9.79 | - | - | - | Y | 916 | 0.0107 |
| 80.00 | 90.00 | 10.00 | - | - | - | Y | 916 | 0.0109 |
| 90.00 | 100.00 | 10.00 | - | - | - | Y | 916 | 0.0109 |
| | | | | | | | | |
| | $\Sigma d_i$ | 100.00 | | | | | $\Sigma d_i/Vs_i$ | 0.1277 |

| Weighted Vs = $\Sigma$ di / $\Sigma$ (di/Vsi) | | | Site Class | |
|---|---|---|---|---|
| | ***783.0*** | ***ft/sec*** | | |
| | ***238.8*** | ***m/sec*** | **Site Class** | **D** |

Note: Original measured data from Kehoe Testing & Engineering are shown on Plate K-1

**Project No.** **7109.23** **Plate No.** **I-7**

# CALCULATION OF WEIGHTED Vs VALUE FOR SITE CLASSIFICATION

(Calculation based on Procedures in ASCE 7-16 Section 20.4.1)

**Table 20.3-1 Site Classification**

| Site Class | $\bar{v}_s$ | $\bar{N}$ or $\bar{N}_{ch}$ | $\bar{s}_u$ |
|---|---|---|---|
| A. Hard rock | >5,000 ft/s | NA | NA |
| B. Rock | 2,500 to 5,000 ft/s | NA | NA |
| C. Very dense soil and soft rock | 1,200 to 2,500 ft/s | >50 blows/ft | >2,000 lb/ft$^2$ |
| D. Stiff soil | 600 to 1,200 ft/s | 15 to 50 blows/ft | 1,000 to 2,000 lb/ft$^2$ |
| E. Soft clay soil | <600 ft/s | <15 blows/ft | <1,000 lb/ft$^2$ |
| | Any profile with more than 10 ft of soil that has the following characteristics:<br>— Plasticity index $PI > 20$,<br>— Moisture content $w \geq 40\%$,<br>— Undrained shear strength $\bar{s}_u < 500$ lb/ft$^2$ | | |
| F. Soils requiring site response analysis in accordance with Section 21.1 | See Section 20.3.1 | | |

*Note*: For SI: 1 ft = 0.3048 m; 1 ft/s = 0.3048 m/s; 1 lb/ft$^2$ = 0.0479 kN/m$^2$.

**Boring/CPT Test No.** ***CPT-3***

| Layer Depth (ft) Top | Layer Depth (ft) Bottom | Layer Thickness, $d_i$ (ft) | Geophone Depth (ft) | Travel Distance (ft) | S-Wave Arrival (msec) | Assumed? (Y/N) | S-Wave Velocity (ft/sec) | $d_i/Vs_i$ |
|---|---|---|---|---|---|---|---|---|
| 0.00 | 10.10 | 10.10 | 9.10 | 9.32 | 16.68 | N | 559 | 0.0181 |
| 10.10 | 20.05 | 9.95 | 19.05 | 19.15 | 31.68 | N | 656 | 0.0152 |
| 20.05 | 30.02 | 9.97 | 29.02 | 29.09 | 44.40 | N | 781 | 0.0128 |
| 30.02 | 40.09 | 10.07 | 39.09 | 39.14 | 58.44 | N | 716 | 0.0141 |
| 40.09 | 50.07 | 9.98 | 49.07 | 49.11 | 71.92 | N | 740 | 0.0135 |
| 50.07 | 60.10 | 10.03 | 59.10 | 59.13 | 83.42 | N | 872 | 0.0115 |
| 60.10 | 70.18 | 10.08 | 69.18 | 69.21 | 93.02 | N | 1049 | 0.0096 |
| 70.18 | 80.00 | 9.82 | - | - | - | Y | 1049 | 0.0094 |
| 80.00 | 90.00 | 10.00 | - | - | - | Y | 1049 | 0.0095 |
| 90.00 | 100.00 | 10.00 | - | - | - | Y | 1049 | 0.0095 |
| | | | | | | | | |
| | **$\Sigma d_i$** | 100.00 | | | | | **$\Sigma d_i/Vs_i$** | 0.1231 |

| Weighted Vs = $\Sigma$ di / $\Sigma$ (di/Vsi) | | | Site Class | |
|---|---|---|---|---|
| | ***812.0*** | ***ft/sec*** | | |
| | ***247.7*** | ***m/sec*** | **Site Class** | **D** |

Note: Original measured data from Kehoe Testing & Engineering are shown on Plate K-1

**Project No.** **7109.23** **Plate No.** **I-8**

# CALCULATION OF WEIGHTED Vs VALUE FOR SITE CLASSIFICATION

(Calculation based on Procedures in ASCE 7-16 Section 20.4.1)

**Table 20.3-1 Site Classification**

| Site Class | $\bar{v}_s$ | $\bar{N}$ or $\bar{N}_{ch}$ | $\bar{s}_u$ |
|---|---|---|---|
| A. Hard rock | >5,000 ft/s | NA | NA |
| B. Rock | 2,500 to 5,000 ft/s | NA | NA |
| C. Very dense soil and soft rock | 1,200 to 2,500 ft/s | >50 blows/ft | >2,000 lb/ft$^2$ |
| D. Stiff soil | 600 to 1,200 ft/s | 15 to 50 blows/ft | 1,000 to 2,000 lb/ft$^2$ |
| E. Soft clay soil | <600 ft/s | <15 blows/ft | <1,000 lb/ft$^2$ |
| | Any profile with more than 10 ft of soil that has the following characteristics:<br>— Plasticity index $PI > 20$,<br>— Moisture content $w \geq 40\%$,<br>— Undrained shear strength $\bar{s}_u < 500$ lb/ft$^2$ | | |
| F. Soils requiring site response analysis in accordance with Section 21.1 | See Section 20.3.1 | | |

*Note*: For SI: 1 ft = 0.3048 m; 1 ft/s = 0.3048 m/s; 1 lb/ft$^2$ = 0.0479 kN/m$^2$.

**Boring/CPT Test No.** ***CPT-5***

| Layer Depth (ft) Top | Layer Depth (ft) Bottom | Layer Thickness, $d_i$ (ft) | Geophone Depth (ft) | Travel Distance (ft) | S-Wave Arrival (msec) | Assumed? (Y/N) | S-Wave Velocity (ft/sec) | $d_i/Vs_i$ |
|---|---|---|---|---|---|---|---|---|
| 0.00 | 10.04 | 10.04 | 9.04 | 9.26 | 13.68 | N | 677 | 0.0148 |
| 10.04 | 20.01 | 9.97 | 19.01 | 19.11 | 26.86 | N | 748 | 0.0133 |
| 20.01 | 30.05 | 10.04 | 29.05 | 29.12 | 39.92 | N | 766 | 0.0131 |
| 30.05 | 40.03 | 9.98 | 39.03 | 39.08 | 53.62 | N | 727 | 0.0137 |
| 40.03 | 50.10 | 10.07 | 49.10 | 49.14 | 66.60 | N | 775 | 0.0130 |
| 50.10 | 60.07 | 9.97 | 59.07 | 59.10 | 77.28 | N | 933 | 0.0107 |
| 60.07 | 70.08 | 10.01 | 69.08 | 69.11 | 86.92 | N | 1038 | 0.0096 |
| 70.08 | 80.00 | 9.92 | - | - | - | Y | 1038 | 0.0096 |
| 80.00 | 90.00 | 10.00 | - | - | - | Y | 1038 | 0.0096 |
| 90.00 | 100.00 | 10.00 | - | - | - | Y | 1038 | 0.0096 |
| | | | | | | | | |
| | **$\Sigma d_i$** | 100.00 | | | | | **$\Sigma d_i/Vs_i$** | 0.1171 |
| | **Weighted Vs = $\Sigma$ di / $\Sigma$ (di/Vsi)** | | | ***854.0*** | ***ft/sec*** | | **Site Class** | **D** |
| | | | | ***260.5*** | ***m/sec*** | | | |

Note: Original measured data from Kehoe Testing & Engineering are shown on Plate K-1

**Project No.** **7109.23** **Plate No.** **I-9**

## List of Faults and Pertinent NGA Parameters Considered in Deterministic Spectral Analyses

| Fault / NGA Parameters | Sierra Madre | Elsinore (Glen Ivy) | Cucamonga | Chino - Central Avenue | Coronado Bank | Puente Hills Blind |
|---|---|---|---|---|---|---|
| ***Mw*** | 7.2 | 6.8 | 6.9 | 6.7 | 7.6 | 7.1 |
| ***Fault Type*** | Reverse | Strike Slip | Reverse | Reverse | Strike Slip | Reverse |
| ***Block Type*** | Footwall | --- | Footwall | Footwall | --- | Footwall |
| ***Dip (degree)*** | 45 | 90 | -45 | 65 | 90 | 25 |
| ***$Z_{TOR}$ (km)*** | 2.16 | 0.88 | 2.22 | 0.66 | 1.92 | 5.00 |
| ***Down Dip Width (km)*** | 18 | 15 | 18 | 17 | 13 | 19 |
| ***$R_{rup}$ (km)*** | 41.3 | 29.0 | 43.4 | 28.1 | 56.5 | 18.4 |
| ***$R_{x}$ (km)*** | -41.2 | 29.0 | -43.3 | -28.1 | 56.5 | -17.7 |
| ***$R_{jb}$ (km)*** | 41.2 | 29.0 | 43.3 | 28.1 | 56.5 | 17.7 |
| ***$R_{y0}$ (km)*** | N/A | N/A | N/A | N/A | N/A | N/A |
| ***$V_s^{30}$ (m/sec)*** [a] | 249.0 | 249.0 | 249.0 | 249.0 | 249.0 | 249.0 |
| ***$Z_{1.0}$ (km)*** | 0.548 | 0.548 | 0.548 | 0.548 | 0.548 | 0.548 |
| ***$Z_{2.5}$ (km)*** | 2.490 | 2.490 | 2.490 | 2.490 | 2.490 | 2.490 |
| ***$Z_{HYP}$ (km)*** | 9.80 | 9.88 | 9.86 | 9.90 | 9.72 | 9.82 |
| ***$\varepsilon$*** | 1 | 1 | 1 | 1 | 1 | 1 |

## Spectrum Amplication Factors for Horizontal Elastic Response [b]

| *% Critical Damping* | *One $\Sigma$ (84.1%)* | | | *Median (50%)* | | |
|---|---|---|---|---|---|---|
| | ***A*** | ***V*** | ***D*** | ***A*** | ***V*** | ***D*** |
| ***0.5*** | 5.10 | 3.84 | 3.04 | 3.68 | 2.59 | 2.01 |
| ***1*** | 4.38 | 3.38 | 2.73 | 3.21 | 2.31 | 1.82 |
| ***2*** | 3.66 | 2.92 | 2.42 | 2.74 | 2.03 | 1.63 |
| ***3*** | 3.24 | 2.64 | 2.24 | 2.46 | 1.86 | 1.52 |
| ***5*** | 2.71 | 2.30 | 2.01 | 2.12 | 1.65 | 1.39 |
| ***7*** | 2.36 | 2.08 | 1.85 | 1.89 | 1.51 | 1.29 |
| ***10*** | 1.99 | 1.84 | 1.69 | 1.64 | 1.37 | 1.20 |
| ***20*** | 1.26 | 1.37 | 1.38 | 1.17 | 1.08 | 1.01 |

a. Average value from Plates I-7 throiugh I-9.

b. This table is excerpted from Table 1 of Newmark and Hall (1982).


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| Project: | **Public Safety Facility Feasibility Study**<br>**NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA** | | |
| **Plate J-1** | **NGA Parameters of Faults for Determinstic Spectral Analysis & Spectrum Amplication Factors** | | |
| Project No.: | **7109.23** | Date: | **March, 2023** |

## List of Faults and Pertinent NGA Parameters Considered in Deterministic Spectral Analyses

| Fault / NGA Parameters | Raymond | Whittier | Upper Elysian Park Blind | Verdugo | San Joaquin Hills | Newport - Inglewood (L.A. Basin) |
|---|---|---|---|---|---|---|
| ***Mw*** | 6.5 | 6.8 | 6.4 | 6.9 | 6.6 | 7.1 |
| ***Fault Type*** | Reverse | Reverse | Reverse | Reverse | Reverse | Strike Slip |
| ***Block Type*** | Footwall | Footwall | Footwall | Footwall | Hanging Wall | --- |
| ***Dip (degree)*** | -75 | -75 | 50 | 45 | -23 | 90 |
| $Z_{TOR}$ ***(km)*** | 2.41 | 1.19 | 3.98 | 2.22 | 6.40 | 2.66 |
| ***Down Dip Width (km)*** | 13 | 15 | 13 | 18 | 15 | 13 |
| $R_{rup}$ ***(km)*** | 41.6 | 18.6 | 36.1 | 44.4 | 11.3 | 12.5 |
| $R_x$ ***(km)*** | -41.5 | -18.6 | -35.9 | -44.3 | -9.3 | 12.2 |
| $R_{jb}$ ***(km)*** | 41.5 | 18.6 | 35.9 | 44.3 | 9.3 | 12.2 |
| $R_{y0}$ ***(km)*** | N/A | N/A | N/A | N/A | 6.6 | N/A |
| $V_s^{30}$ ***(m/sec)*** [a] | 249.0 | 249.0 | 249.0 | 249.0 | 249.0 | 249.0 |
| $Z_{1.0}$ ***(km)*** | 0.548 | 0.548 | 0.548 | 0.548 | 0.548 | 0.548 |
| $Z_{2.5}$ ***(km)*** | 2.490 | 2.490 | 2.490 | 2.490 | 2.490 | 2.490 |
| $Z_{HYP}$ ***(km)*** | 9.94 | 9.88 | 9.96 | 9.86 | 9.92 | 10.46 |
| $\varepsilon$ | 1 | 1 | 1 | 1 | 1 | 1 |

## Spectrum Amplication Factors for Horizontal Elastic Response [b]

| *% Critical Damping* | *One Σ (84.1%)* | | | *Median (50%)* | | |
|---|---|---|---|---|---|---|
| | ***A*** | ***V*** | ***D*** | ***A*** | ***V*** | ***D*** |
| ***0.5*** | 5.10 | 3.84 | 3.04 | 3.68 | 2.59 | 2.01 |
| ***1*** | 4.38 | 3.38 | 2.73 | 3.21 | 2.31 | 1.82 |
| ***2*** | 3.66 | 2.92 | 2.42 | 2.74 | 2.03 | 1.63 |
| ***3*** | 3.24 | 2.64 | 2.24 | 2.46 | 1.86 | 1.52 |
| ***5*** | 2.71 | 2.30 | 2.01 | 2.12 | 1.65 | 1.39 |
| ***7*** | 2.36 | 2.08 | 1.85 | 1.89 | 1.51 | 1.29 |
| ***10*** | 1.99 | 1.84 | 1.69 | 1.64 | 1.37 | 1.20 |
| ***20*** | 1.26 | 1.37 | 1.38 | 1.17 | 1.08 | 1.01 |

a. Average value from Plates I-7 throiugh I-9.

b. This table is excerpted from Table 1 of Newmark and Hall (1982).


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| **Plate J-2** | **NGA Parameters of Faults for Determinstic Spectral Analysis & Spectrum Amplication Factors** | | |
| Project No.: | **7109.23** | Date: | **March, 2023** |

## List of Faults and Pertinent NGA Parameters Considered in Deterministic Spectral Analyses

| Fault / NGA Parameters | Palos Verdes | San Andreas - Whole M-1a | San Jose | Newport - Inglewood (Offshore) | | |
|---|---|---|---|---|---|---|
| ***Mw*** | 7.3 | 8.0 | 6.4 | 7.1 | | |
| ***Fault Type*** | Strike Slip | Strike Slip | Reverse | Strike Slip | | |
| ***Block Type*** | --- | --- | Footwall | --- | | |
| ***Dip (degree)*** | 90 | 90 | 75 | 90 | | |
| $Z_{TOR}$ ***(km)*** | 2.79 | 0.00 | 2.43 | 2.66 | | |
| ***Down Dip Width (km)*** | 13 | 18 | 13 | 13 | | |
| $R_{rup}$ ***(km)*** | 27.7 | 69.5 | 29.8 | 20.9 | | |
| $R_{x}$ ***(km)*** | 27.6 | 69.5 | -29.7 | 20.7 | | |
| $R_{jb}$ ***(km)*** | 27.6 | 69.5 | 29.7 | 20.7 | | |
| $R_{y0}$ ***(km)*** | N/A | N/A | N/A | N/A | | |
| $V_s^{30}$ ***(m/sec)*** [a] | 249.0 | 249.0 | 249.0 | 249.0 | | |
| $Z_{1.0}$ ***(km)*** | 0.548 | 0.548 | 0.548 | 0.548 | | |
| $Z_{2.5}$ ***(km)*** | 2.490 | 2.490 | 2.490 | 2.490 | | |
| $Z_{HYP}$ ***(km)*** | 10.59 | 9.64 | 9.96 | 10.46 | | |
| $\varepsilon$ | 1 | 1 | 1 | 1 | | |

## Spectrum Amplication Factors for Horizontal Elastic Response [b]

| *% Critical Damping* | *One Σ (84.1%)* | | | *Median (50%)* | | |
|---|---|---|---|---|---|---|
| | ***A*** | ***V*** | ***D*** | ***A*** | ***V*** | ***D*** |
| ***0.5*** | 5.10 | 3.84 | 3.04 | 3.68 | 2.59 | 2.01 |
| ***1*** | 4.38 | 3.38 | 2.73 | 3.21 | 2.31 | 1.82 |
| ***2*** | 3.66 | 2.92 | 2.42 | 2.74 | 2.03 | 1.63 |
| ***3*** | 3.24 | 2.64 | 2.24 | 2.46 | 1.86 | 1.52 |
| ***5*** | 2.71 | 2.30 | 2.01 | 2.12 | 1.65 | 1.39 |
| ***7*** | 2.36 | 2.08 | 1.85 | 1.89 | 1.51 | 1.29 |
| ***10*** | 1.99 | 1.84 | 1.69 | 1.64 | 1.37 | 1.20 |
| ***20*** | 1.26 | 1.37 | 1.38 | 1.17 | 1.08 | 1.01 |

a. Average value from Plates I-7 throiugh I-9.

b. This table is excerpted from Table 1 of Newmark and Hall (1982).


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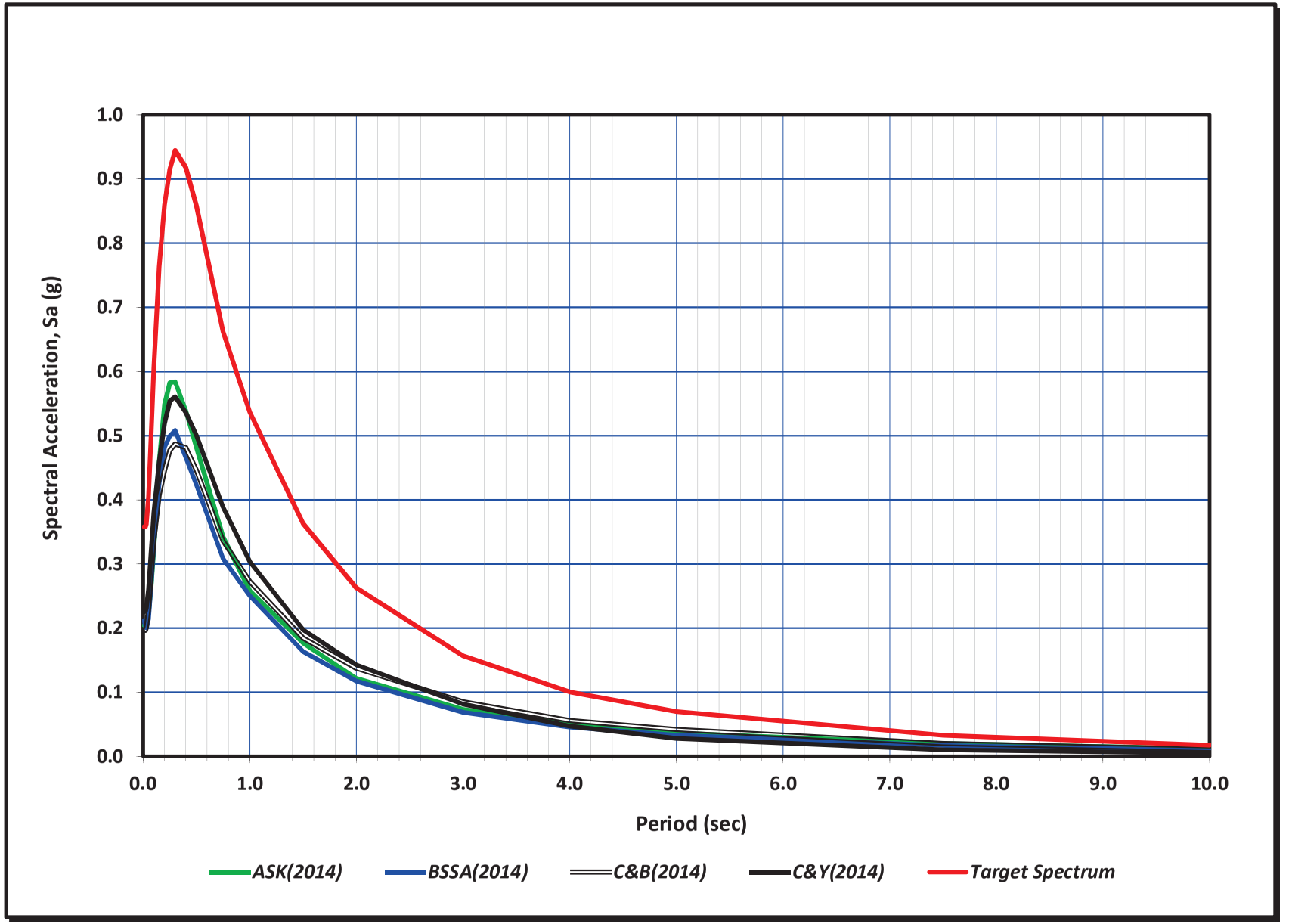
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| **Plate J-3** | **NGA Parameters of Faults for Determinstic Spectral Analysis & Spectrum Amplication Factors** | | |
| Project No.: | **7109.23** | Date: | **March, 2023** |




84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Whittier Fault at its closest distance from the Site.


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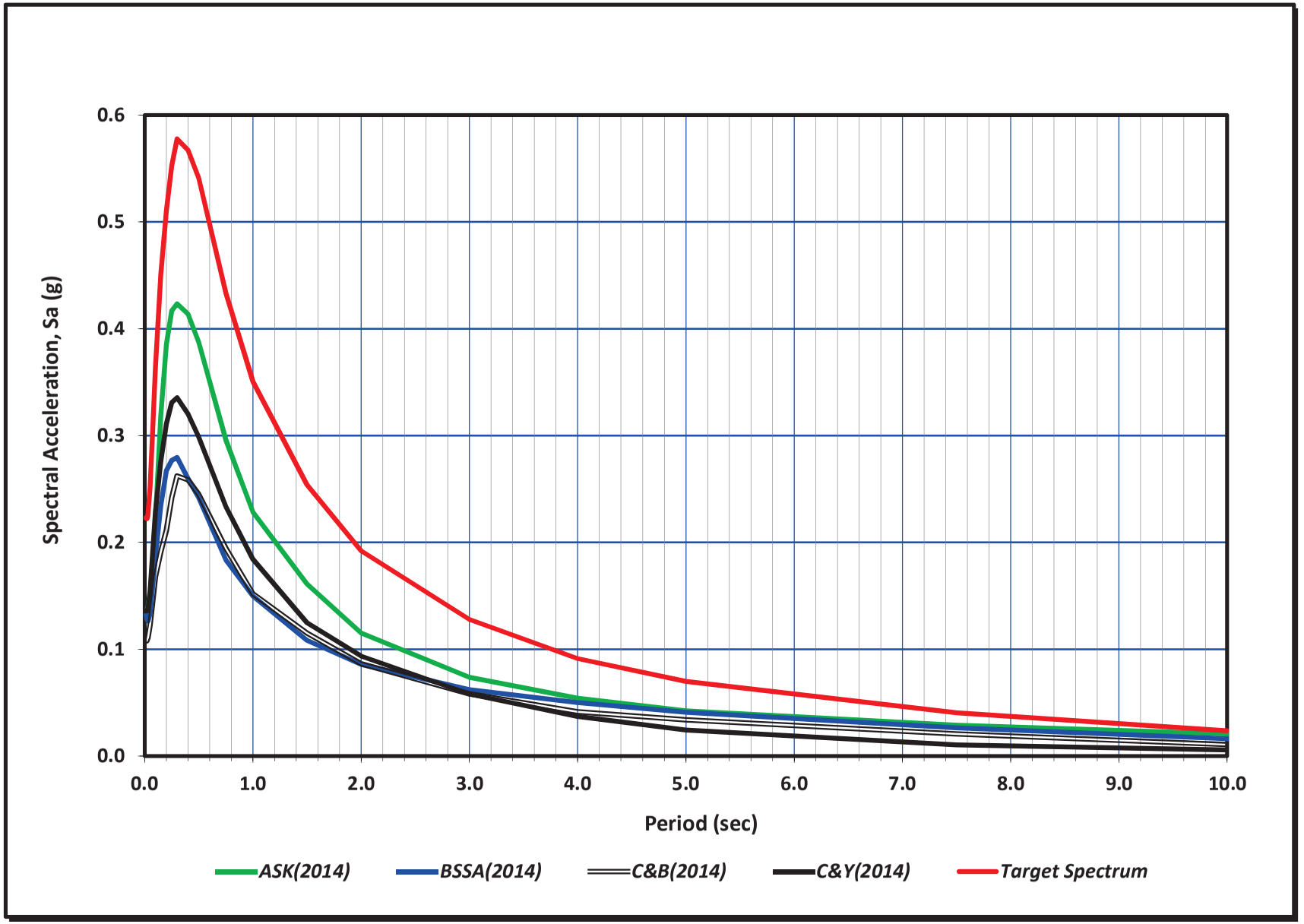
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| Plate J-4 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
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84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Coronado Bank Fault at its closest distance from the Site.


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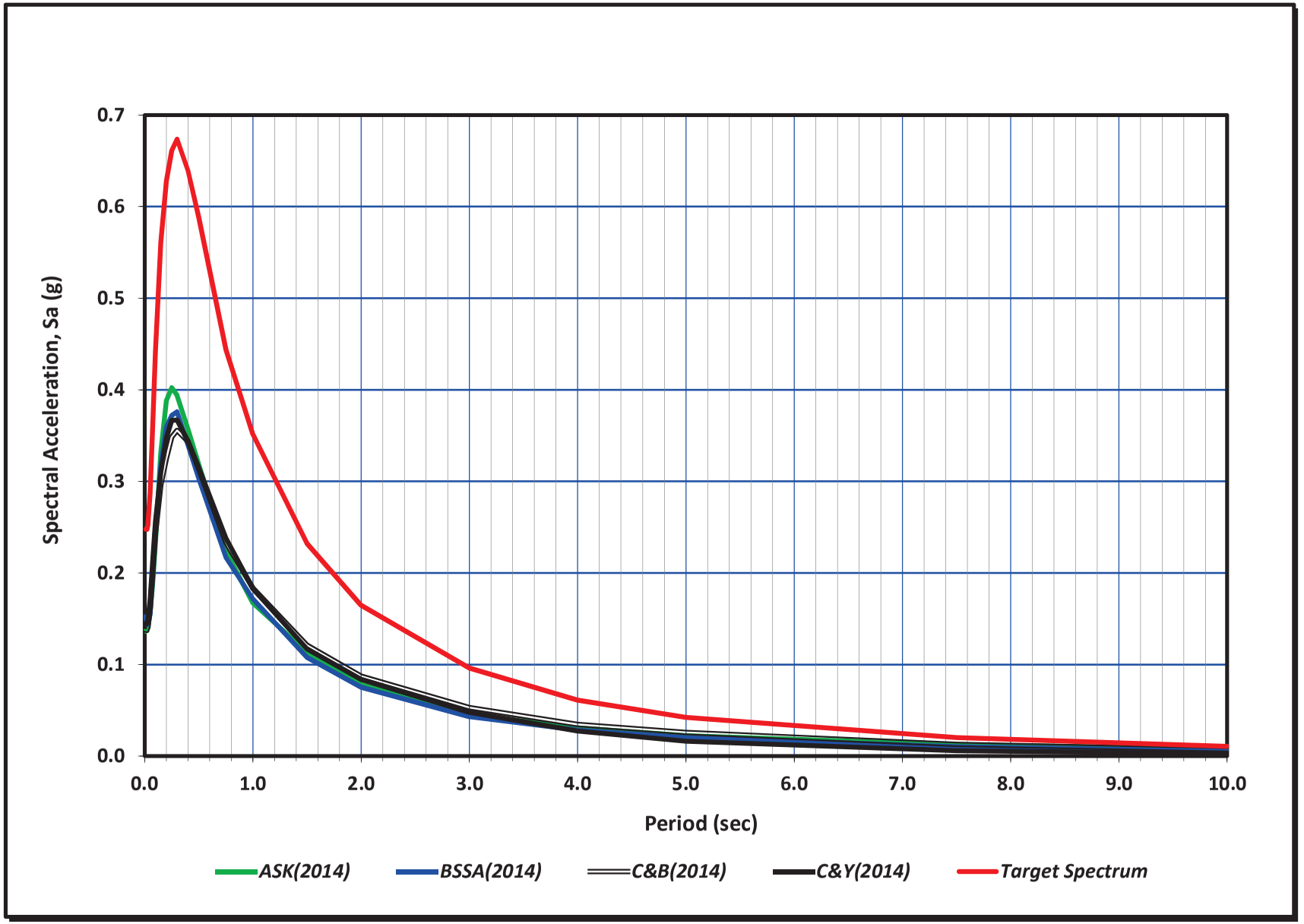
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| Project: | Public Safety Facility Feasibility Study<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA | | |
| Plate J-5 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |




84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Chino-Central Avenue Fault at its closest distance from the Site.

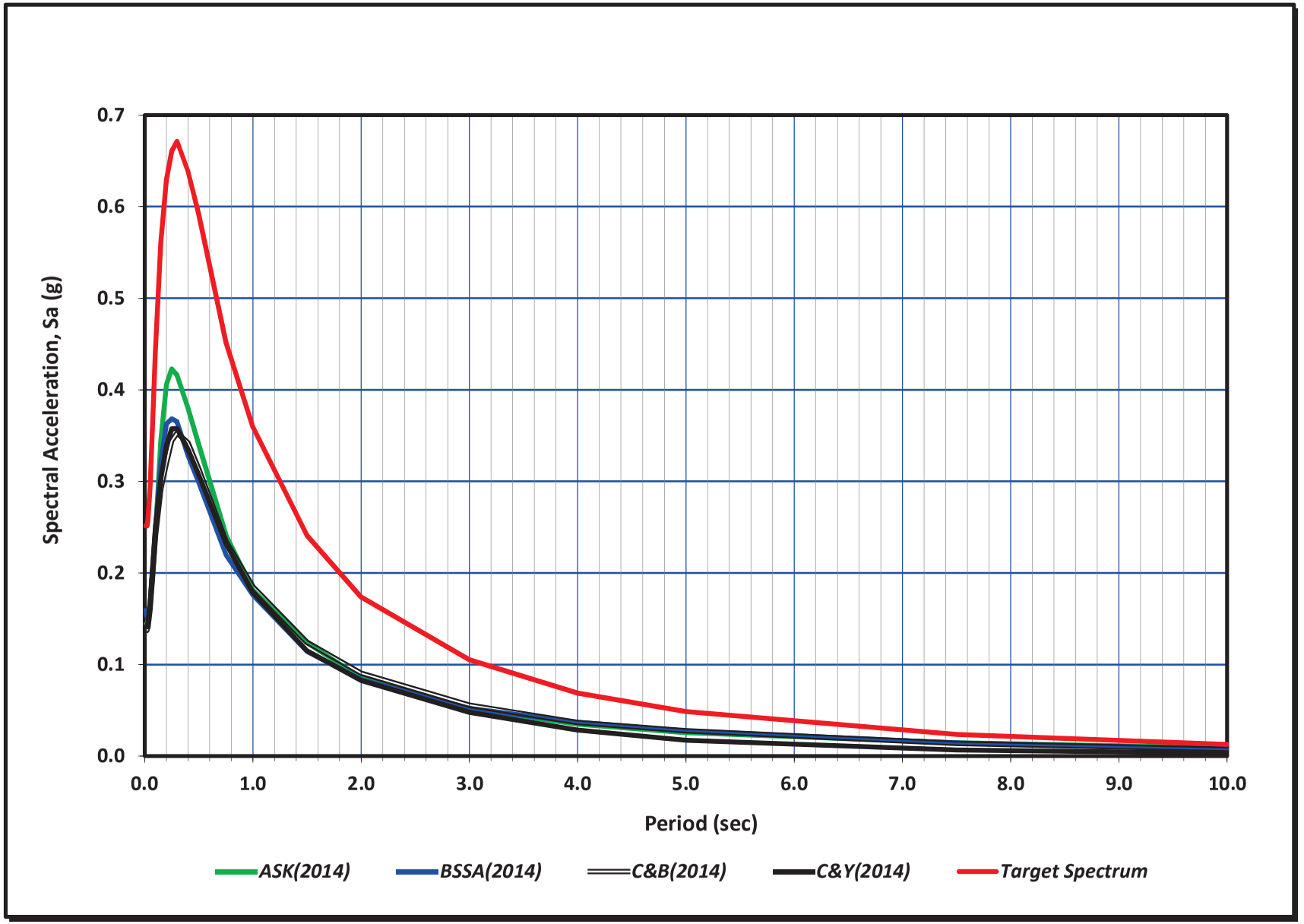

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| Project: | Public Safety Facility Feasibility Study<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA | | |
| Plate J-6 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |

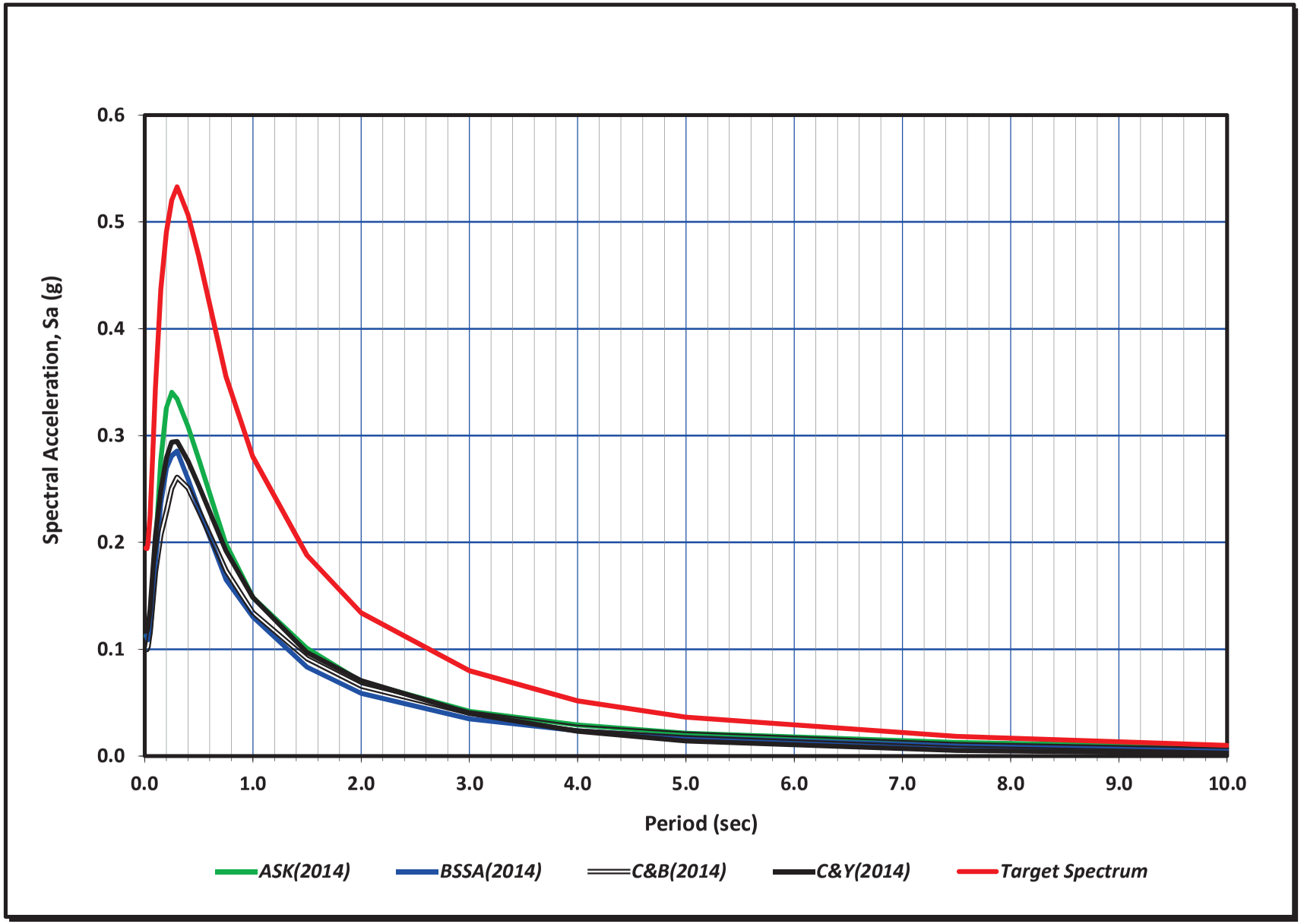



84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Elsinore (Glen Ivy) Fault at its closest distance from the Site.


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| Plate J-7 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
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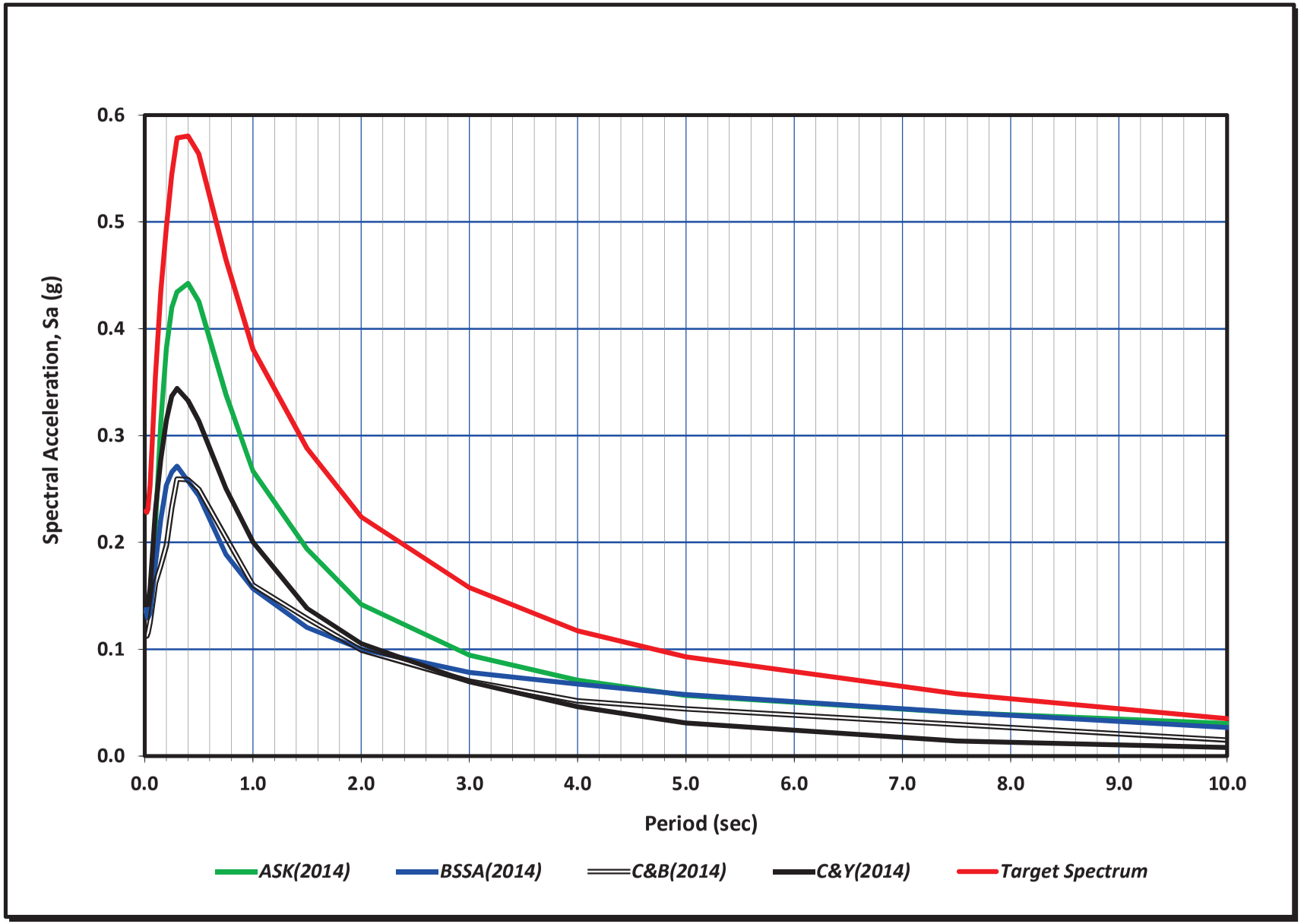



84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Cucamonga Fault at its closest distance from the Site.


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| Plate J-8 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |

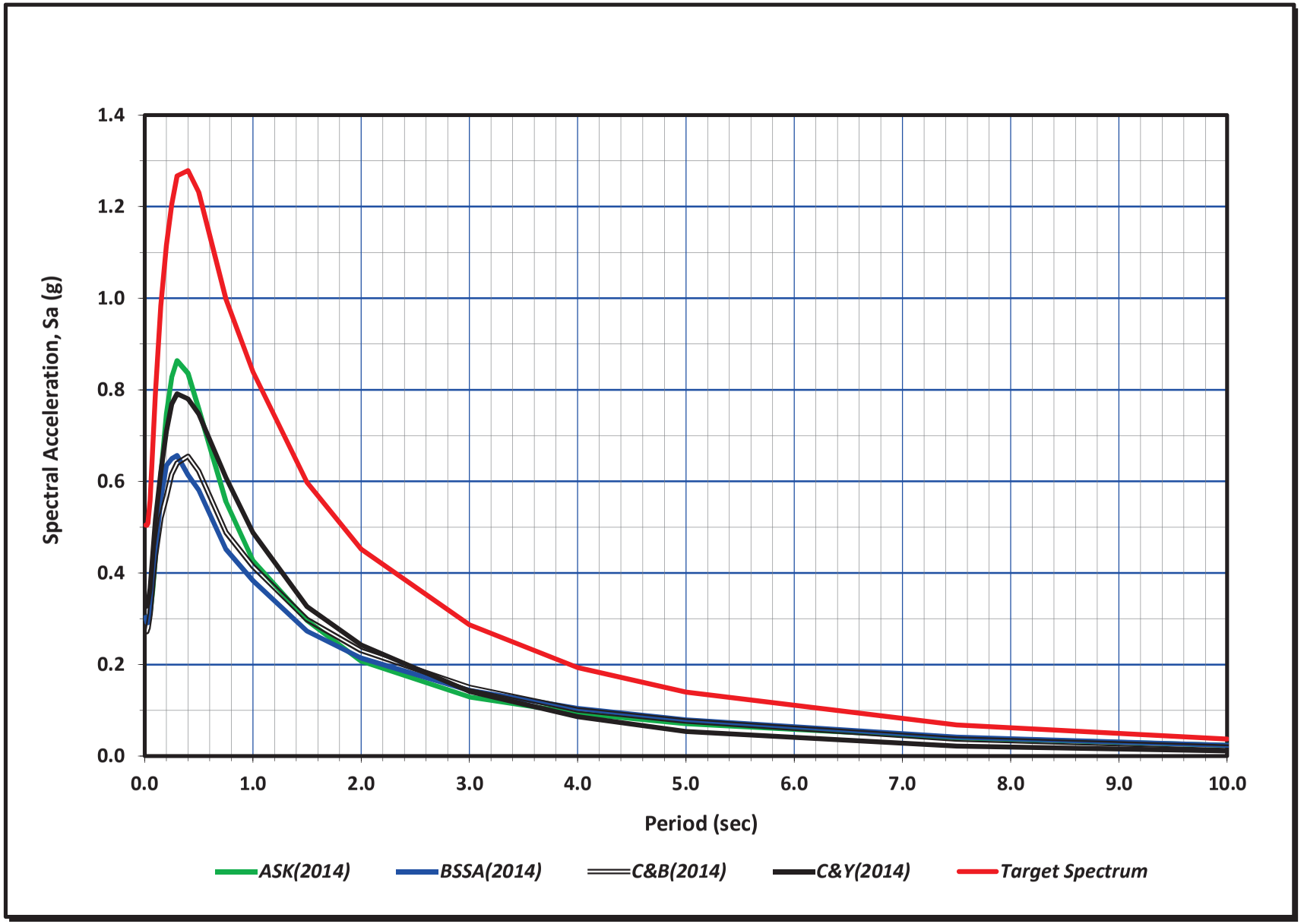



84 Percential Deterministic Response Spectra established based on MCE Event taking place on the San Andreas - Whole M-1a Fault at its closest distance from the Site.


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| Plate J-9 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |

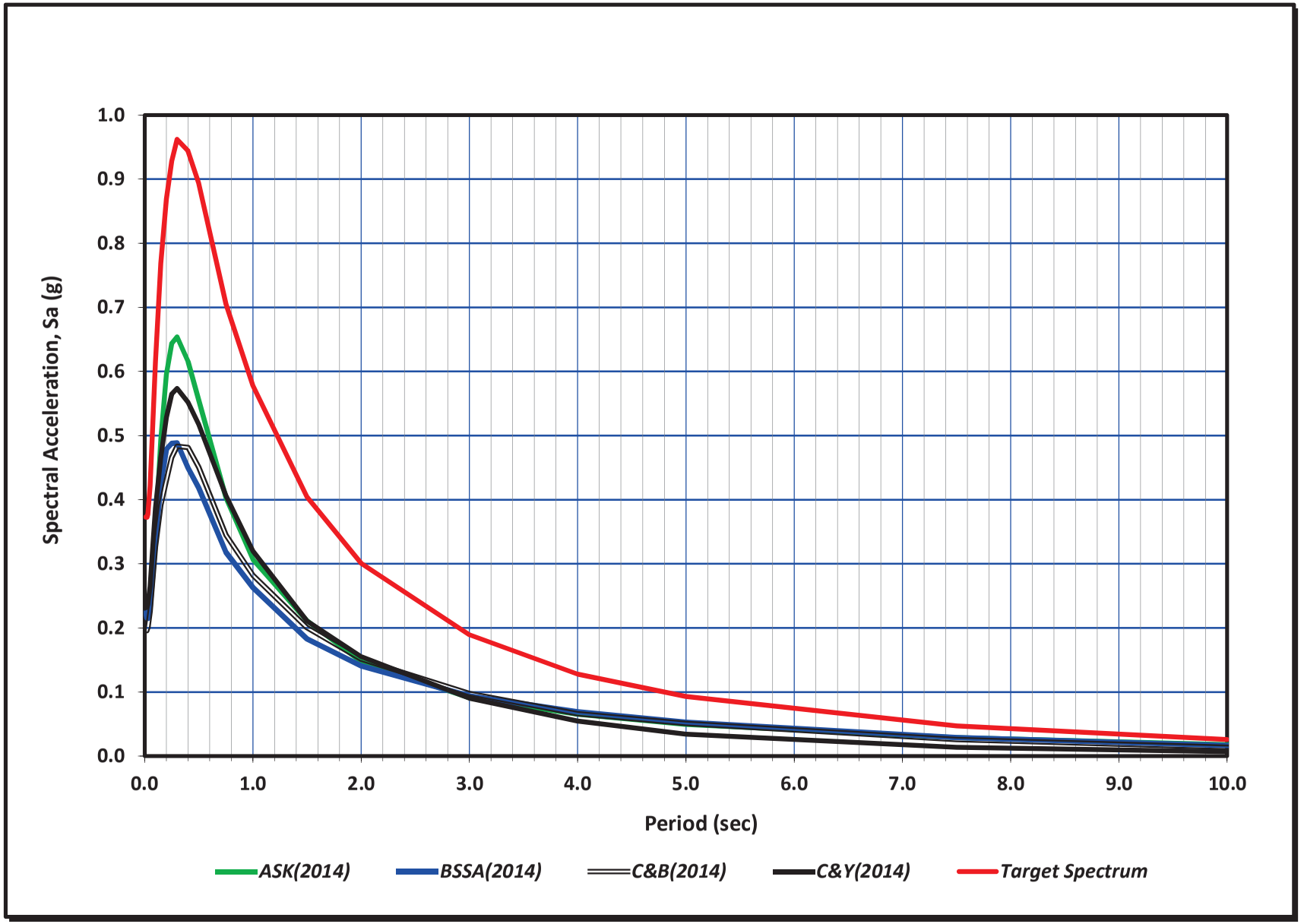



84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Newport-Inglewood (L.A. Basin) Fault at its closest distance from the Site.


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| Plate J-10 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |

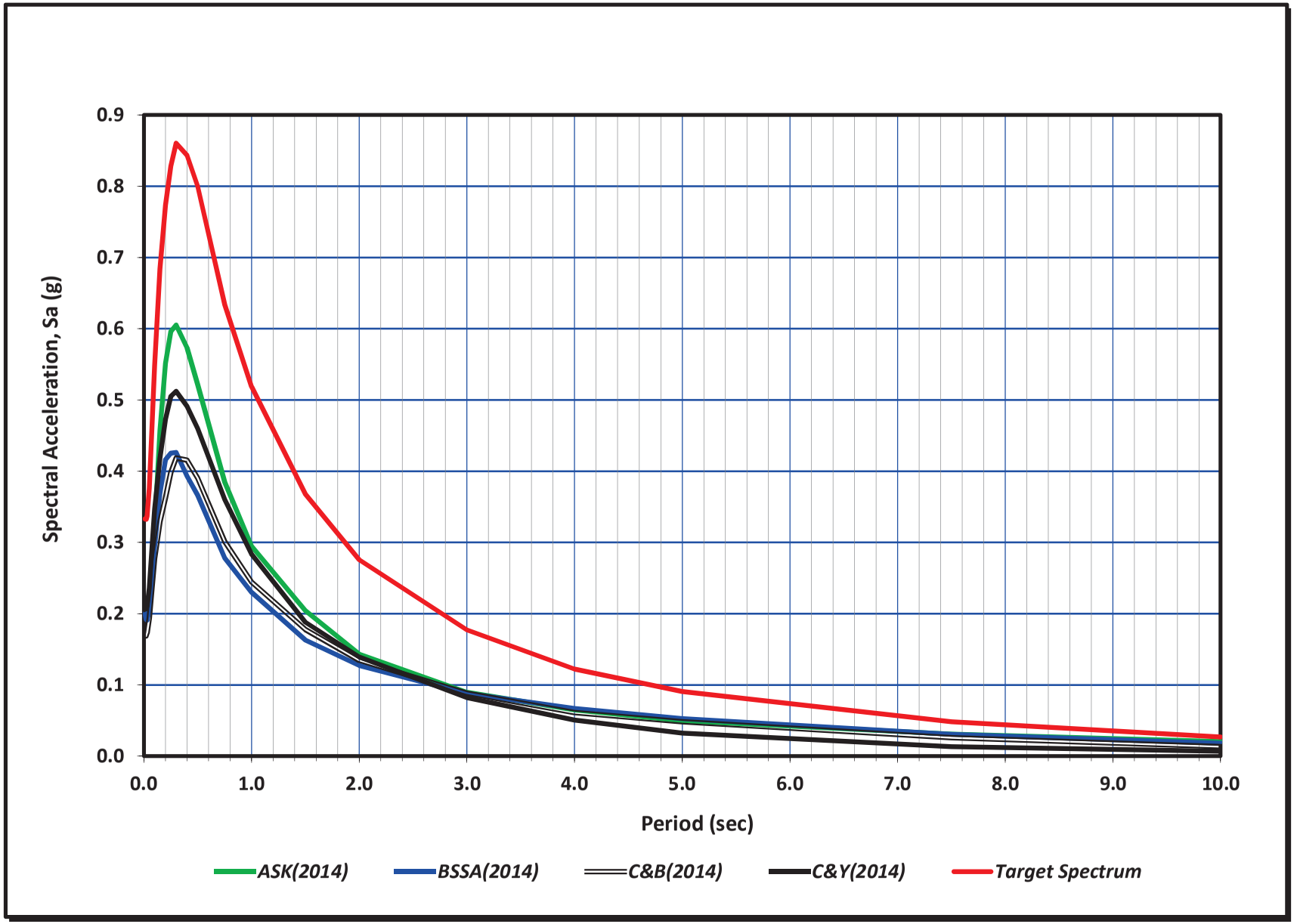



84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Newport-Inglewood (Offshore) Fault at its closest distance from the Site.


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| Plate J-11 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |




84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Palos Verdes Fault at its closest distance from the Site.

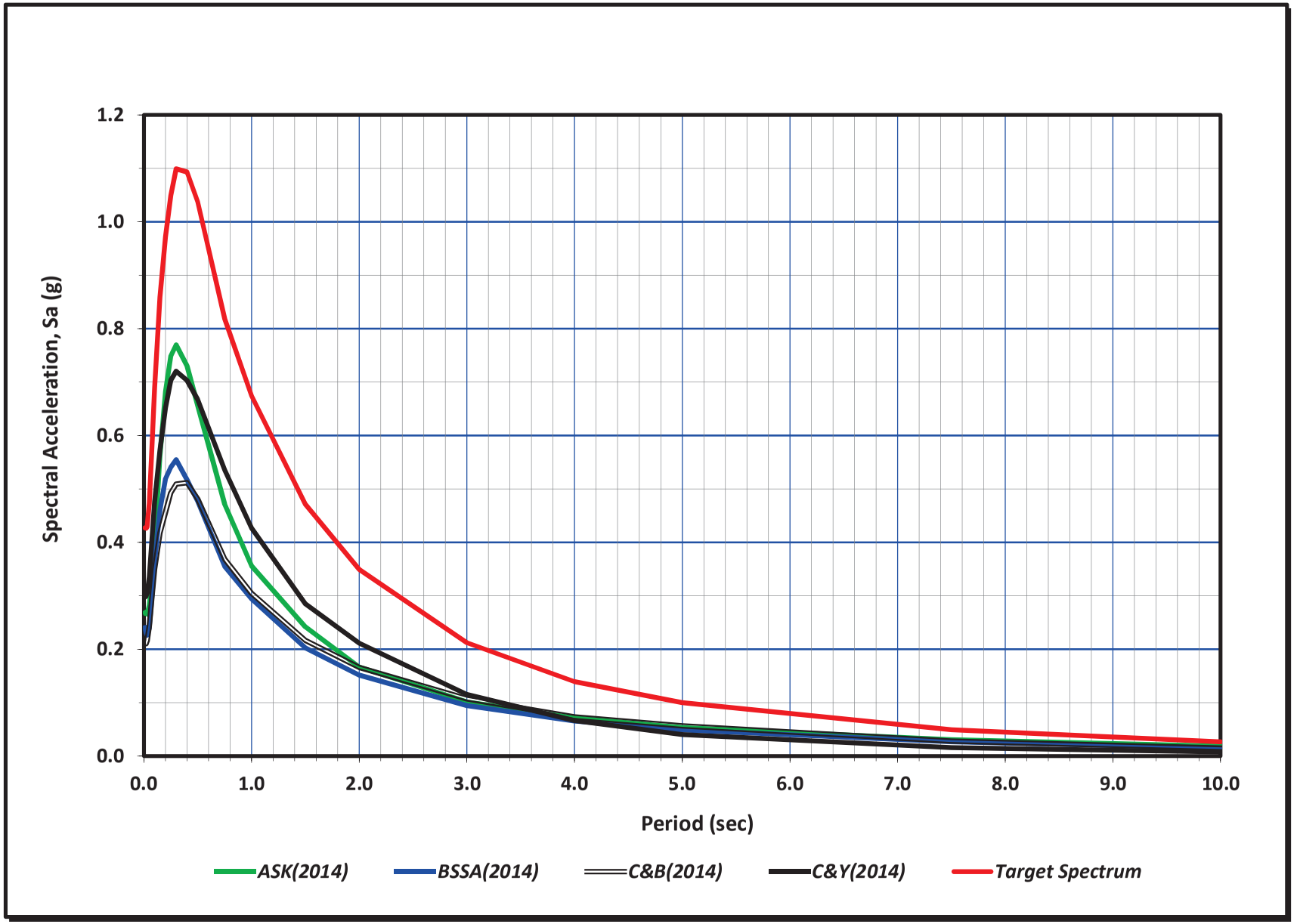

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| Project: | Public Safety Facility Feasibility Study<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA | | |
| Plate J-12 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
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84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Puente Hills Blind Fault at its closest distance from the Site.


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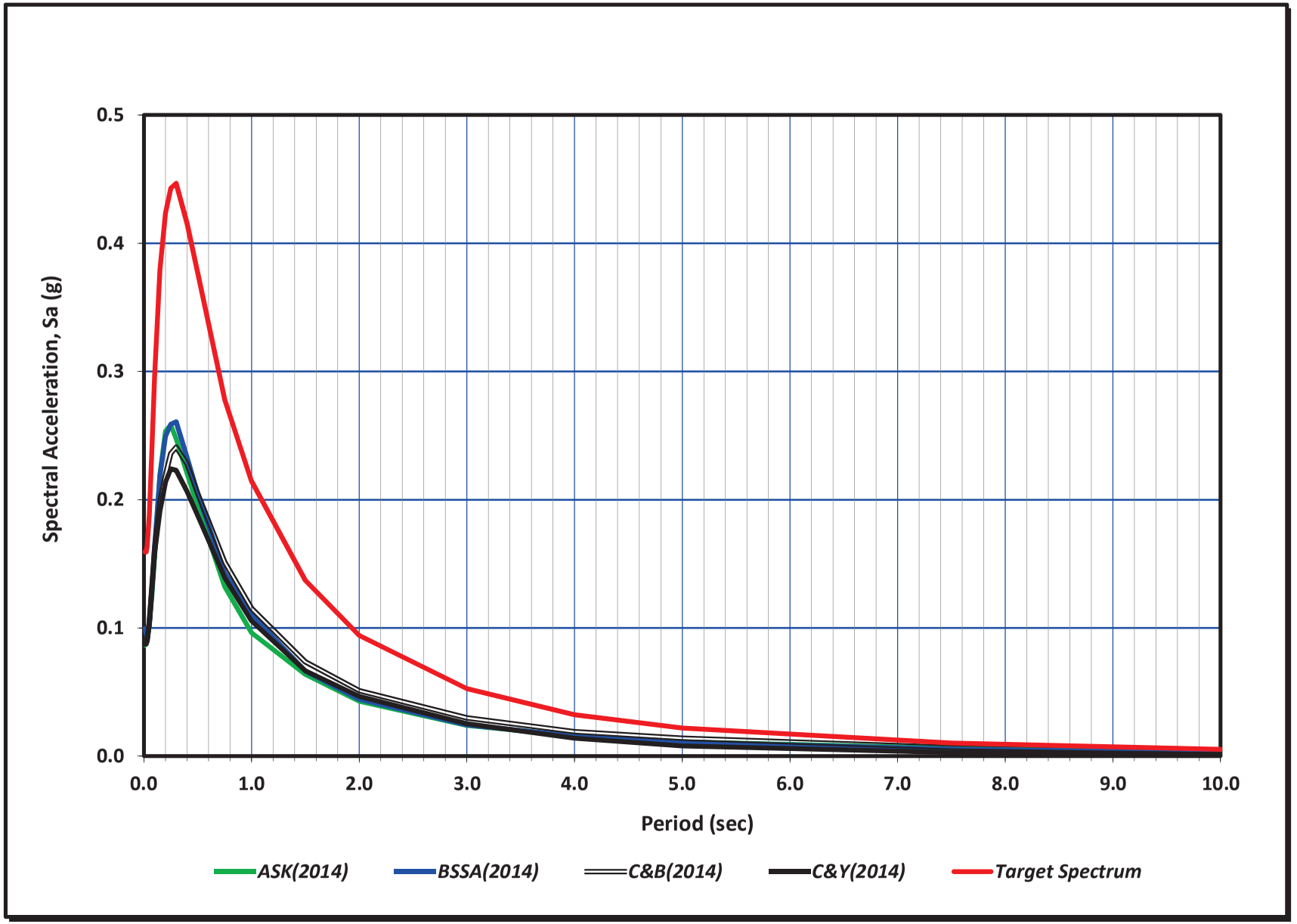
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| Project: | Public Safety Facility Feasibility Study<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA | | |
| Plate J-13 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |




84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Raymond Fault at its closest distance from the Site.


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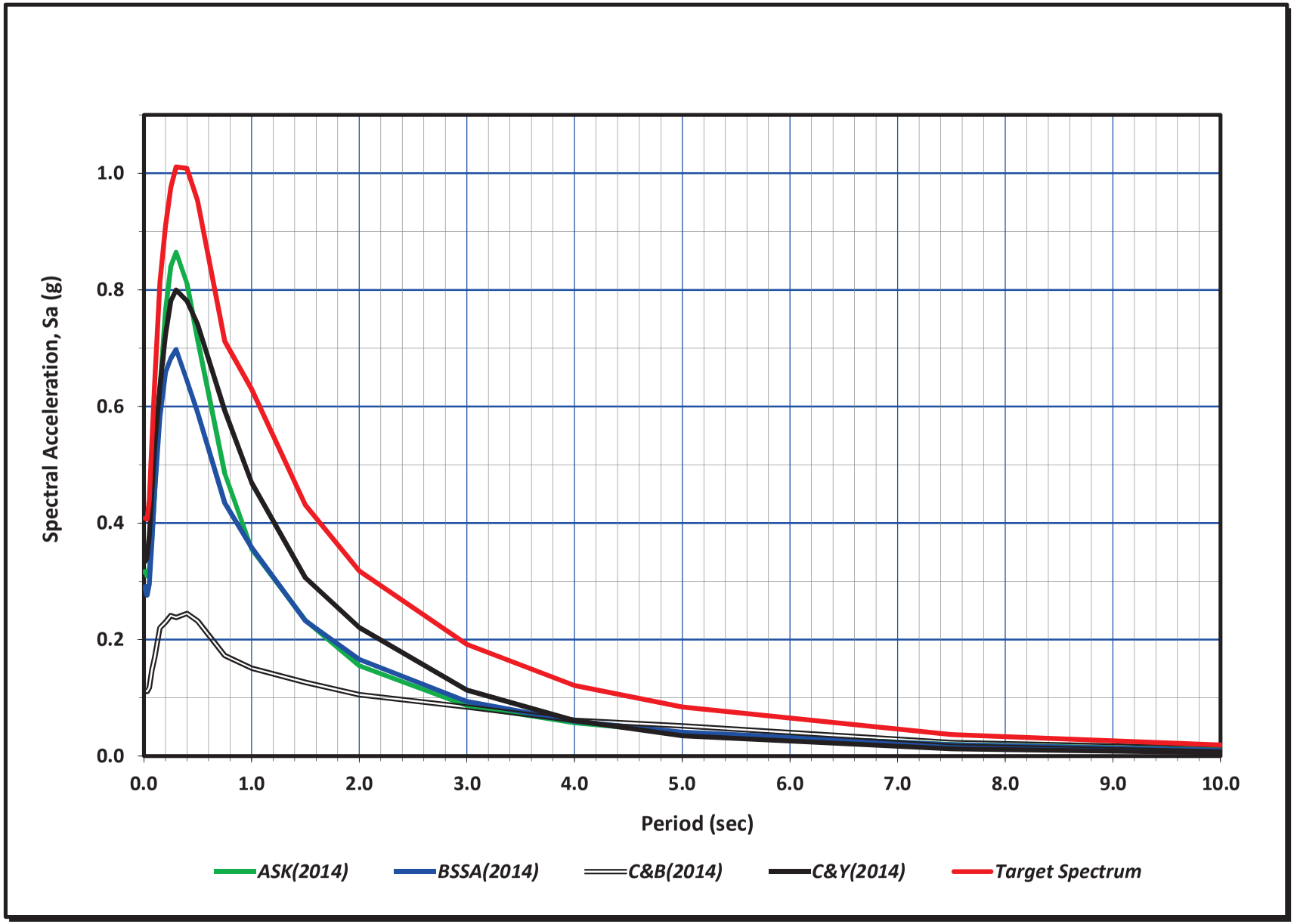
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| Plate J-14 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |




84 Percential Deterministic Response Spectra established based on MCE Event taking place on the San Joaquin Hills Fault at its closest distance from the Site.


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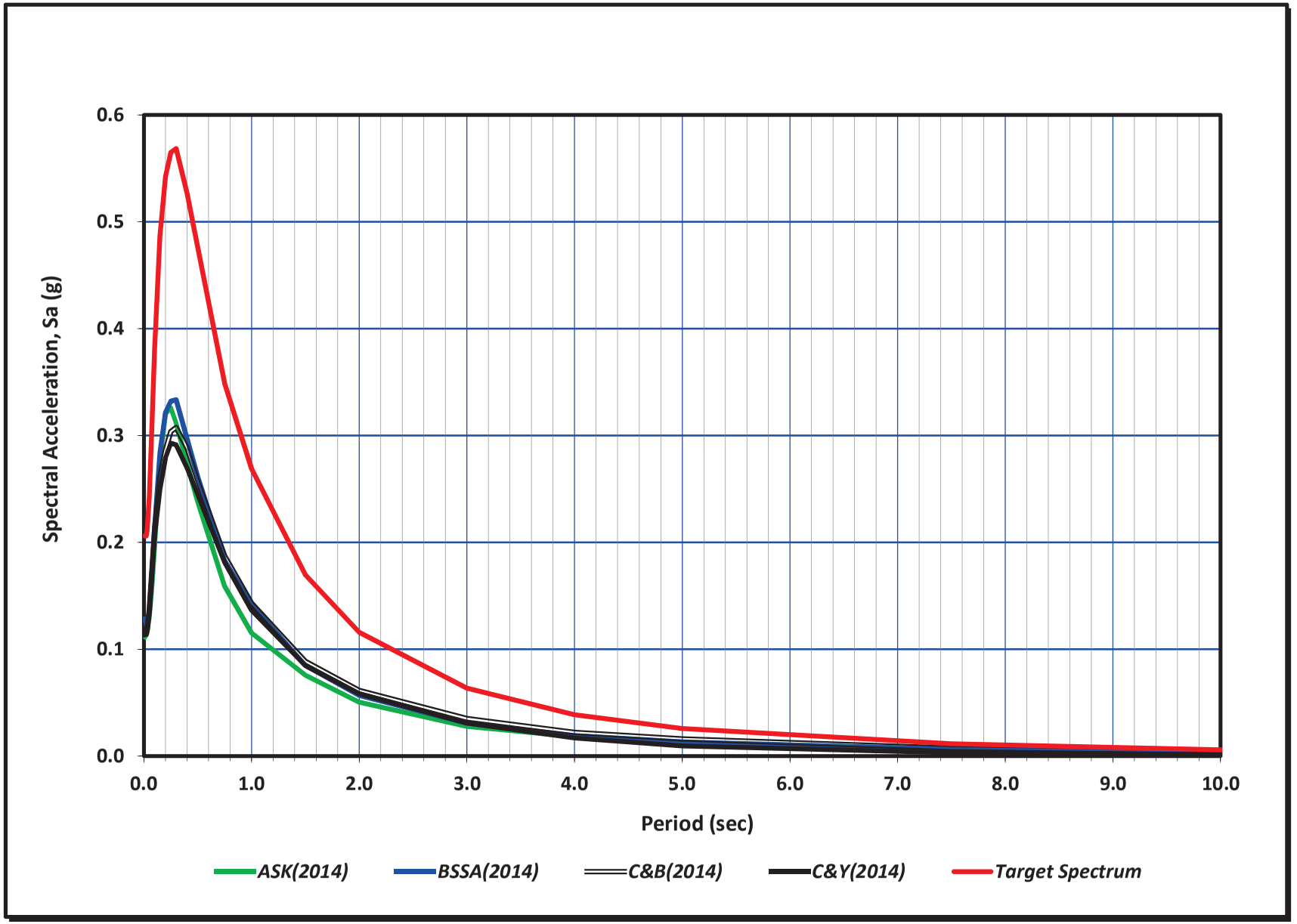
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| | | | |
|---|---|---|---|
| Project: | Public Safety Facility Feasibility Study<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA | | |
| Plate J-15 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |




84 Percential Deterministic Response Spectra established based on MCE Event taking place on the San Jose Fault at its closest distance from the Site.


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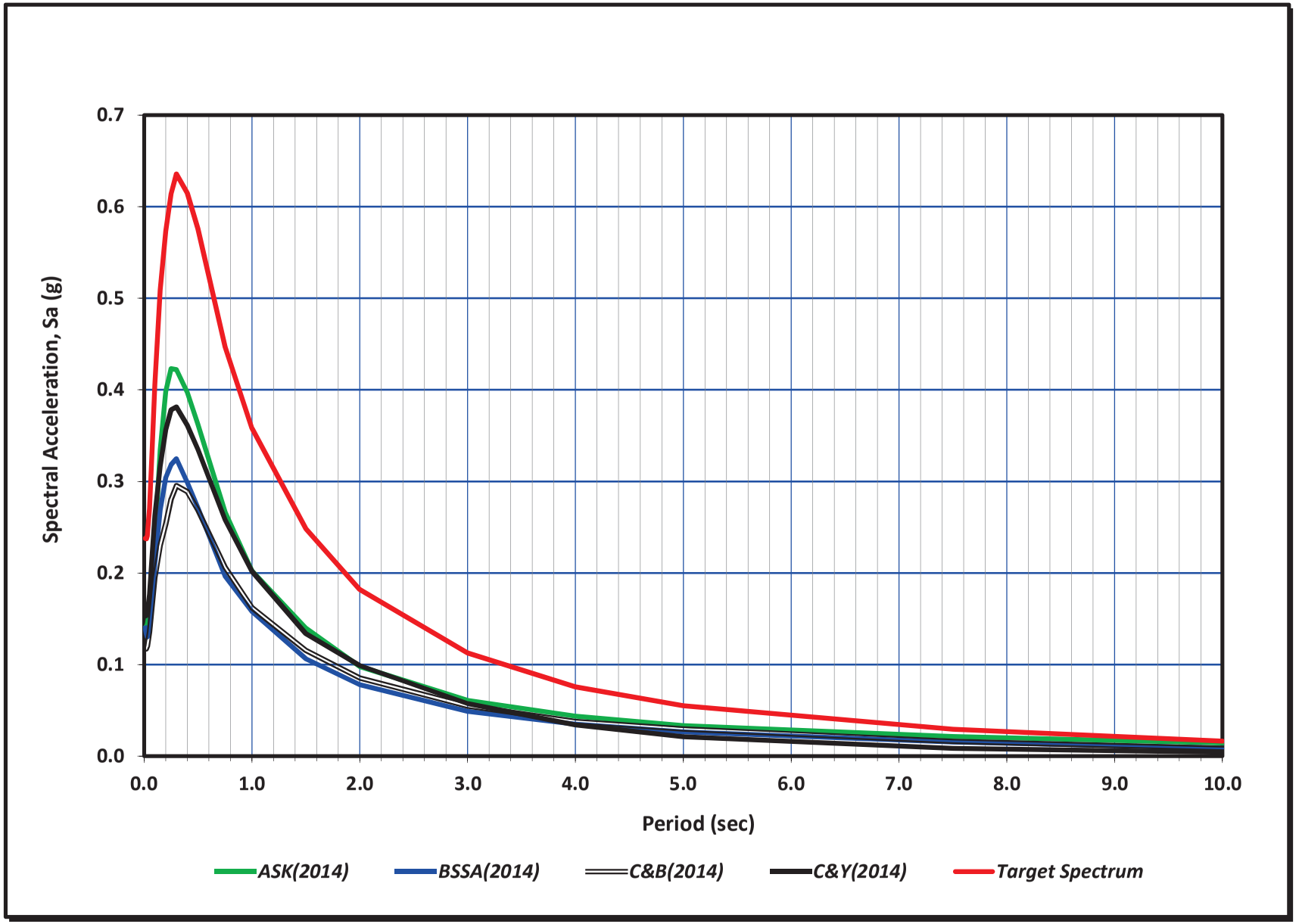
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| Project: | Public Safety Facility Feasibility Study<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA | | |
| Plate<br>J-16 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |




84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Sierra Madre Fault at its closest distance from the Site.


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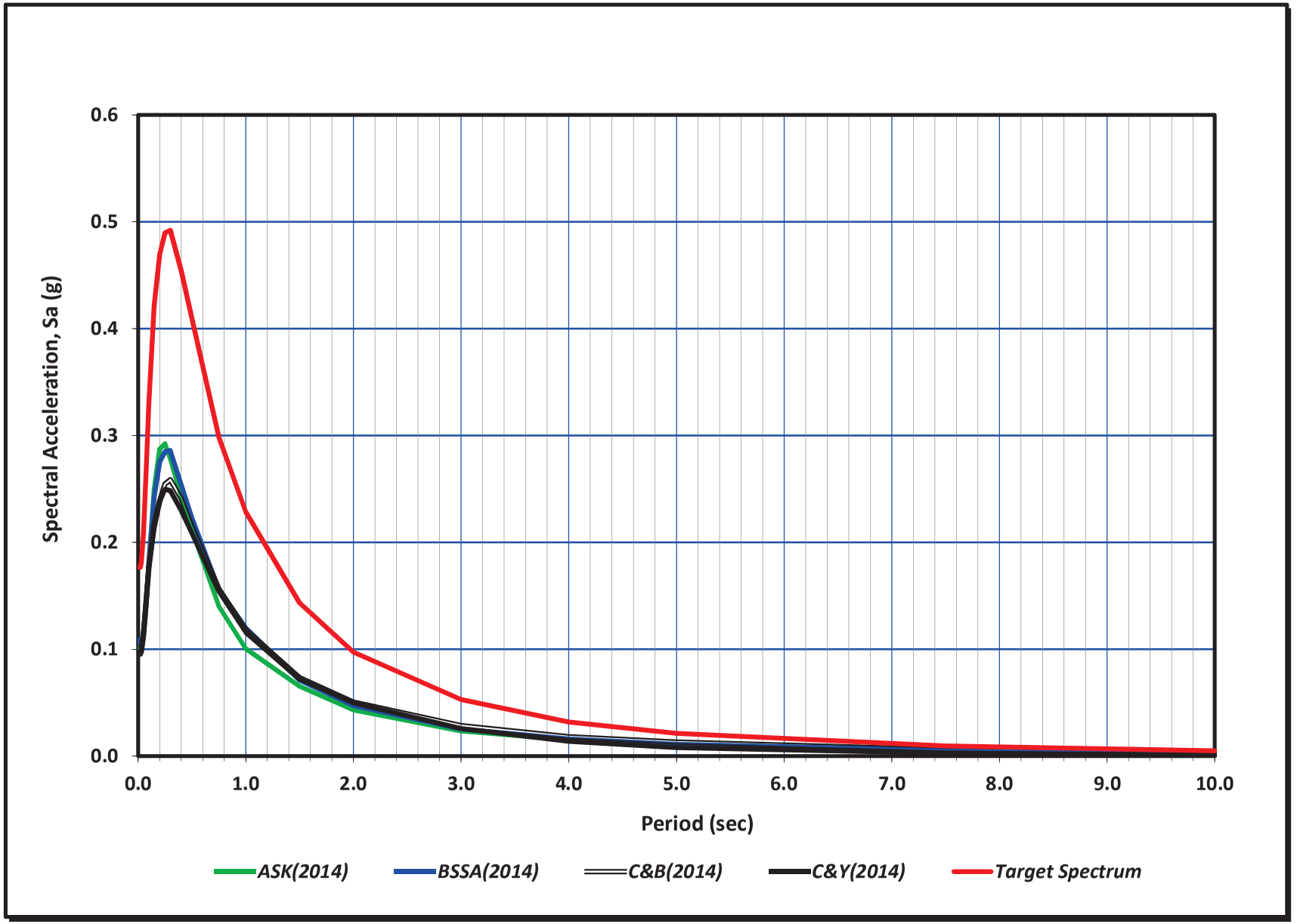
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| | | | |
|---|---|---|---|
| Project: | Public Safety Facility Feasibility Study<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA | | |
| Plate J-17 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |




84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Upper Elysian Park Blind Fault at its closest distance from the Site.


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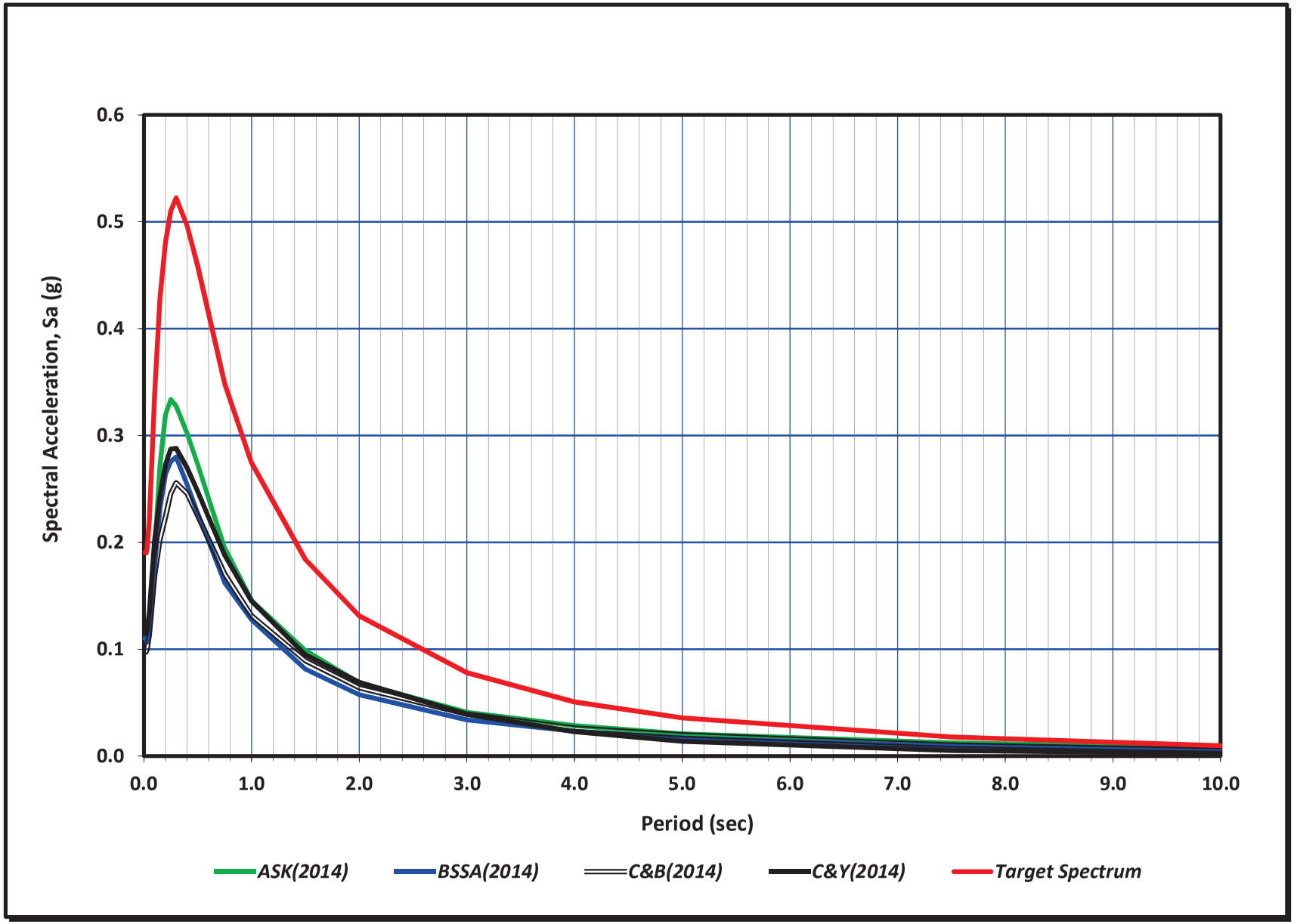
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| | | | |
|---|---|---|---|
| Project: | Public Safety Facility Feasibility Study<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA | | |
| Plate J-18 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |




84 Percential Deterministic Response Spectra established based on MCE Event taking place on the Verdugo Fault at its closest distance from the Site.


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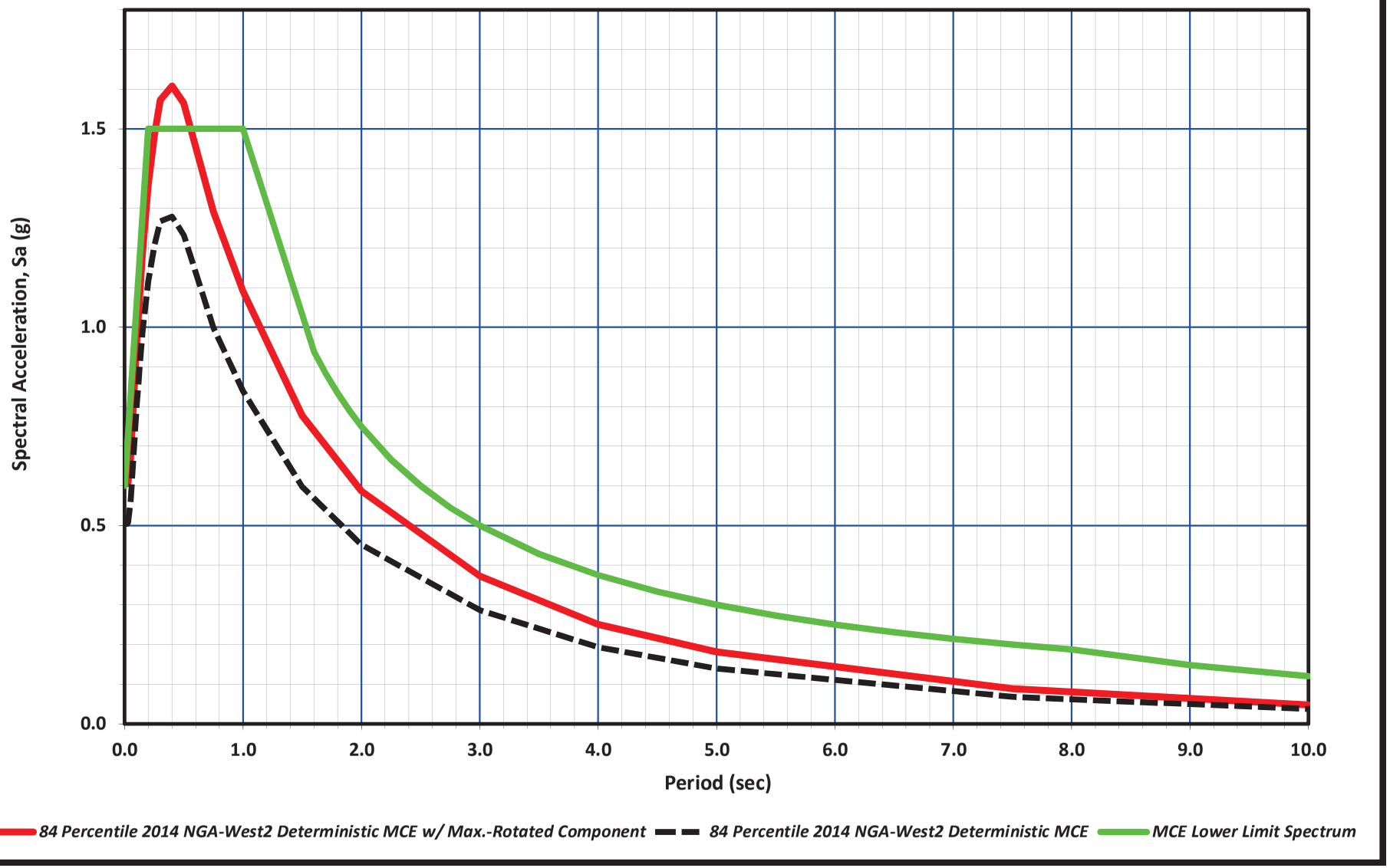
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| | | | |
|---|---|---|---|
| Project: | Public Safety Facility Feasibility Study<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA | | |
| Plate<br>J-19 | 84 Percentile Deterministic MCE Response Spectra (4 NGA West2 Attenuation Relationships and Average) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |

## Summary of Target Deterministic MCE Sa (Avg 4 2014 NGA-West2)

| Period \ Fault # | Sierra Madre | San Jose | Cucamonga | Chino - Central Avenue | Elsinore (Glen Ivy) | Puente Hills Blind | Raymond | Whittier | Upper Elysian Park Blind | | Verdugo | San Joaquin Hills | Newport - Inglewood (L. A. Basin) | Newport - Inglewood (Offshore) | Palos Verdes | | | San Andreas - Whole M-1a | | Coronado Bank | Max Mean Value | Max-Rotated Component Value | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | Factor | Factored Mean Value |
| 0.01 | 0.2378 | 0.2060 | 0.1946 | 0.2477 | 0.2514 | 0.4275 | 0.1594 | 0.3579 | 0.1768 | | 0.1907 | 0.4085 | 0.5046 | 0.3730 | 0.3331 | | | 0.2293 | | 0.2230 | 0.5046 | 1.200 | 0.606 |
| 0.02 | 0.2372 | 0.2060 | 0.1942 | 0.2475 | 0.2513 | 0.4266 | 0.1593 | 0.3576 | 0.1767 | | 0.1902 | 0.4075 | 0.5042 | 0.3725 | 0.3324 | | | 0.2280 | | 0.2221 | 0.5042 | 1.200 | 0.605 |
| 0.03 | 0.2410 | 0.2112 | 0.1982 | 0.2526 | 0.2574 | 0.4295 | 0.1633 | 0.3625 | 0.1813 | | 0.1942 | 0.4068 | 0.5082 | 0.3780 | 0.3375 | | | 0.2305 | | 0.2257 | 0.5082 | 1.200 | 0.610 |
| 0.05 | 0.2705 | 0.2423 | 0.2249 | 0.2870 | 0.2933 | 0.4730 | 0.1878 | 0.4053 | 0.2085 | | 0.2204 | 0.4396 | 0.5580 | 0.4213 | 0.3763 | | | 0.2533 | | 0.2516 | 0.5580 | 1.200 | 0.670 |
| 0.075 | 0.3364 | 0.3099 | 0.2832 | 0.3626 | 0.3677 | 0.5789 | 0.2404 | 0.5038 | 0.2671 | | 0.2776 | 0.5412 | 0.6753 | 0.5172 | 0.4614 | | | 0.3036 | | 0.3069 | 0.6753 | 1.200 | 0.810 |
| 0.1 | 0.4058 | 0.3813 | 0.3451 | 0.4420 | 0.4439 | 0.6891 | 0.2965 | 0.6066 | 0.3295 | | 0.3384 | 0.6384 | 0.7934 | 0.6148 | 0.5482 | | | 0.3558 | | 0.3640 | 0.7934 | 1.200 | 0.952 |
| 0.15 | 0.5090 | 0.4868 | 0.4368 | 0.5607 | 0.5608 | 0.8589 | 0.3792 | 0.7635 | 0.4213 | | 0.4283 | 0.8126 | 0.9835 | 0.7687 | 0.6839 | | | 0.4349 | | 0.4508 | 0.9835 | 1.202 | 1.182 |
| 0.2 | 0.5733 | 0.5424 | 0.4904 | 0.6280 | 0.6289 | 0.9720 | 0.4235 | 0.8595 | 0.4696 | | 0.4809 | 0.9091 | 1.1152 | 0.8690 | 0.7734 | | | 0.4950 | | 0.5106 | 1.1152 | 1.218 | 1.359 |
| 0.25 | 0.6141 | 0.5650 | 0.5203 | 0.6611 | 0.6605 | 1.0495 | 0.4430 | 0.9149 | 0.4897 | | 0.5103 | 0.9755 | 1.2049 | 0.9282 | 0.8283 | | | 0.5442 | | 0.5526 | 1.2049 | 1.231 | 1.483 |
| 0.3 | 0.6358 | 0.5686 | 0.5327 | 0.6735 | 0.6713 | 1.0994 | 0.4467 | 0.9444 | 0.4923 | | 0.5225 | 1.0110 | 1.2671 | 0.9621 | 0.8604 | | | 0.5785 | | 0.5776 | 1.2671 | 1.241 | 1.573 |
| 0.4 | 0.6148 | 0.5269 | 0.5066 | 0.6391 | 0.6384 | 1.0934 | 0.4157 | 0.9180 | 0.4544 | | 0.4968 | 1.0086 | 1.2785 | 0.9440 | 0.8435 | | | 0.5803 | | 0.5672 | 1.2785 | 1.258 | 1.608 |
| 0.5 | 0.5756 | 0.4766 | 0.4679 | 0.5884 | 0.5916 | 1.0376 | 0.3772 | 0.8581 | 0.4099 | | 0.4588 | 0.9535 | 1.2316 | 0.8939 | 0.8000 | | | 0.5638 | | 0.5409 | 1.2316 | 1.270 | 1.565 |
| 0.75 | 0.4468 | 0.3485 | 0.3554 | 0.4438 | 0.4517 | 0.8183 | 0.2779 | 0.6620 | 0.2983 | | 0.3485 | 0.7117 | 0.9981 | 0.7053 | 0.6339 | | | 0.4645 | | 0.4332 | 0.9981 | 1.294 | 1.292 |
| 1 | 0.3581 | 0.2689 | 0.2800 | 0.3514 | 0.3593 | 0.6743 | 0.2144 | 0.5363 | 0.2285 | | 0.2744 | 0.6298 | 0.8389 | 0.5782 | 0.5187 | | | 0.3807 | | 0.3504 | 0.8389 | 1.300 | 1.091 |
| 1.5 | 0.2486 | 0.1697 | 0.1879 | 0.2323 | 0.2411 | 0.4715 | 0.1372 | 0.3629 | 0.1435 | | 0.1841 | 0.4313 | 0.5977 | 0.4044 | 0.3678 | | | 0.2882 | | 0.2540 | 0.5977 | 1.300 | 0.777 |
| 2 | 0.1820 | 0.1158 | 0.1340 | 0.1646 | 0.1737 | 0.3497 | 0.0942 | 0.2627 | 0.0973 | | 0.1312 | 0.3178 | 0.4519 | 0.3010 | 0.2757 | | | 0.2241 | | 0.1921 | 0.4519 | 1.300 | 0.588 |
| 3 | 0.1127 | 0.0637 | 0.0798 | 0.0962 | 0.1052 | 0.2126 | 0.0527 | 0.1568 | 0.0529 | | 0.0782 | 0.1919 | 0.2867 | 0.1893 | 0.1772 | | | 0.1577 | | 0.1279 | 0.2867 | 1.300 | 0.373 |
| 4 | 0.0757 | 0.0387 | 0.0518 | 0.0610 | 0.0687 | 0.1397 | 0.0324 | 0.1003 | 0.0319 | | 0.0507 | 0.1211 | 0.1931 | 0.1279 | 0.1222 | | | 0.1173 | | 0.0912 | 0.1931 | 1.300 | 0.251 |
| 5 | 0.0552 | 0.0259 | 0.0365 | 0.0422 | 0.0486 | 0.0999 | 0.0219 | 0.0699 | 0.0214 | | 0.0358 | 0.0844 | 0.1397 | 0.0931 | 0.0906 | | | 0.0929 | | 0.0698 | 0.1397 | 1.300 | 0.182 |
| 7.5 | 0.0295 | 0.0117 | 0.0184 | 0.0201 | 0.0237 | 0.0495 | 0.0103 | 0.0331 | 0.0097 | | 0.0180 | 0.0370 | 0.0682 | 0.0469 | 0.0481 | | | 0.0582 | | 0.0406 | 0.0682 | 1.300 | 0.089 |
| 10 | 0.0164 | 0.0060 | 0.0100 | 0.0107 | 0.0128 | 0.0267 | 0.0054 | 0.0176 | 0.0050 | | 0.0098 | 0.0192 | 0.0371 | 0.0257 | 0.0271 | | | 0.0352 | | 0.0238 | 0.0371 | 1.300 | 0.048 |





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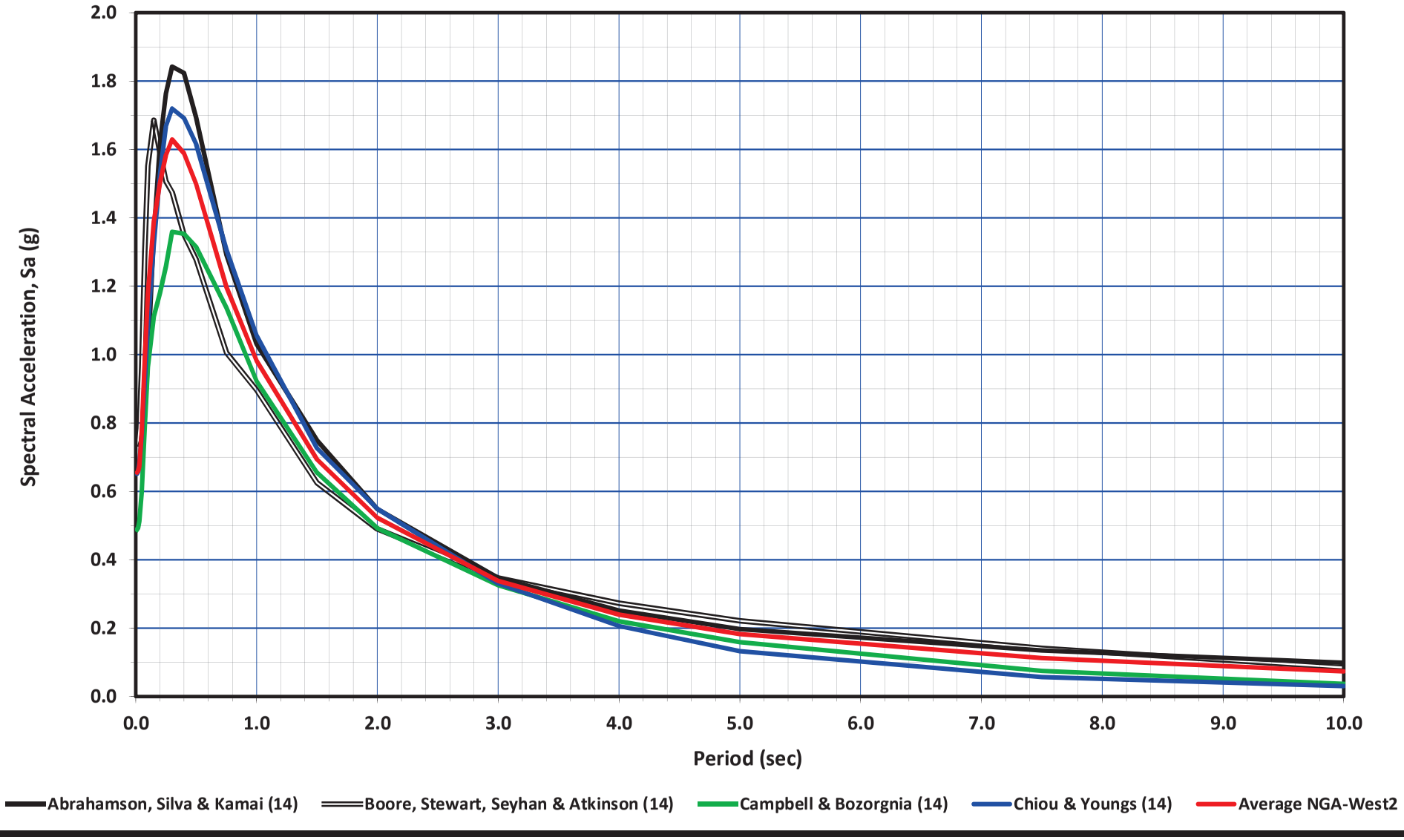
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| | | | |
|---|---|---|---|
| Project: | **Public Safety Facility Feasibility Study**<br>**NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA** | | |
| **Plate J-21** | **84 Percentile Deterministic MCE (w/ & w/o Max.-Rotated Component) & MCE Lower Limit Response Spectra** | | |
| Proj. No.: | **7109.23** | Date: | **March, 2023** |

| Summary of 4-2014 NGA-West2 Probabilistic MCE Spectra | | | | | |
|---|---|---|---|---|---|
| **Period (sec)** | **ASK14** | **BSSA14** | **CB14** | **CY14** | **Mean Average** |
| 0.010 | 0.6841 | 0.7407 | 0.4886 | 0.6513 | 0.6551 |
| 0.020 | 0.6844 | 0.7513 | 0.4936 | 0.6575 | 0.6601 |
| 0.030 | 0.6672 | 0.7844 | 0.5126 | 0.6824 | 0.6737 |
| 0.050 | 0.7047 | 0.9624 | 0.5965 | 0.7614 | 0.7737 |
| 0.075 | 0.8204 | 1.3005 | 0.7901 | 0.9204 | 0.9871 |
| 0.100 | 0.9836 | 1.5521 | 0.9630 | 1.0839 | 1.1778 |
| 0.150 | 1.3506 | 1.6858 | 1.1111 | 1.3224 | 1.3893 |
| 0.200 | 1.6187 | 1.5909 | 1.1810 | 1.5288 | 1.5026 |
| 0.250 | 1.7641 | 1.5073 | 1.2578 | 1.6678 | 1.5836 |
| 0.300 | 1.8427 | 1.4748 | 1.3592 | 1.7197 | 1.6294 |
| 0.400 | 1.8237 | 1.3514 | 1.3536 | 1.6920 | 1.5892 |
| 0.500 | 1.6938 | 1.2788 | 1.3156 | 1.6161 | 1.4994 |
| 0.750 | 1.2918 | 1.0054 | 1.1368 | 1.3062 | 1.1971 |
| 1.000 | 1.0313 | 0.8966 | 0.9225 | 1.0556 | 0.9821 |
| 1.500 | 0.7495 | 0.6261 | 0.6552 | 0.7269 | 0.6936 |
| 2.000 | 0.5491 | 0.4906 | 0.4926 | 0.5497 | 0.5228 |
| 3.000 | 0.3475 | 0.3468 | 0.3258 | 0.3311 | 0.3384 |
| 4.000 | 0.2514 | 0.2728 | 0.2200 | 0.2067 | 0.2401 |
| 5.000 | 0.1972 | 0.2220 | 0.1594 | 0.1331 | 0.1829 |
| 7.500 | 0.1348 | 0.1413 | 0.0749 | 0.0571 | 0.1125 |
| 10.000 | 0.0986 | 0.0846 | 0.0372 | 0.0308 | 0.0737 |





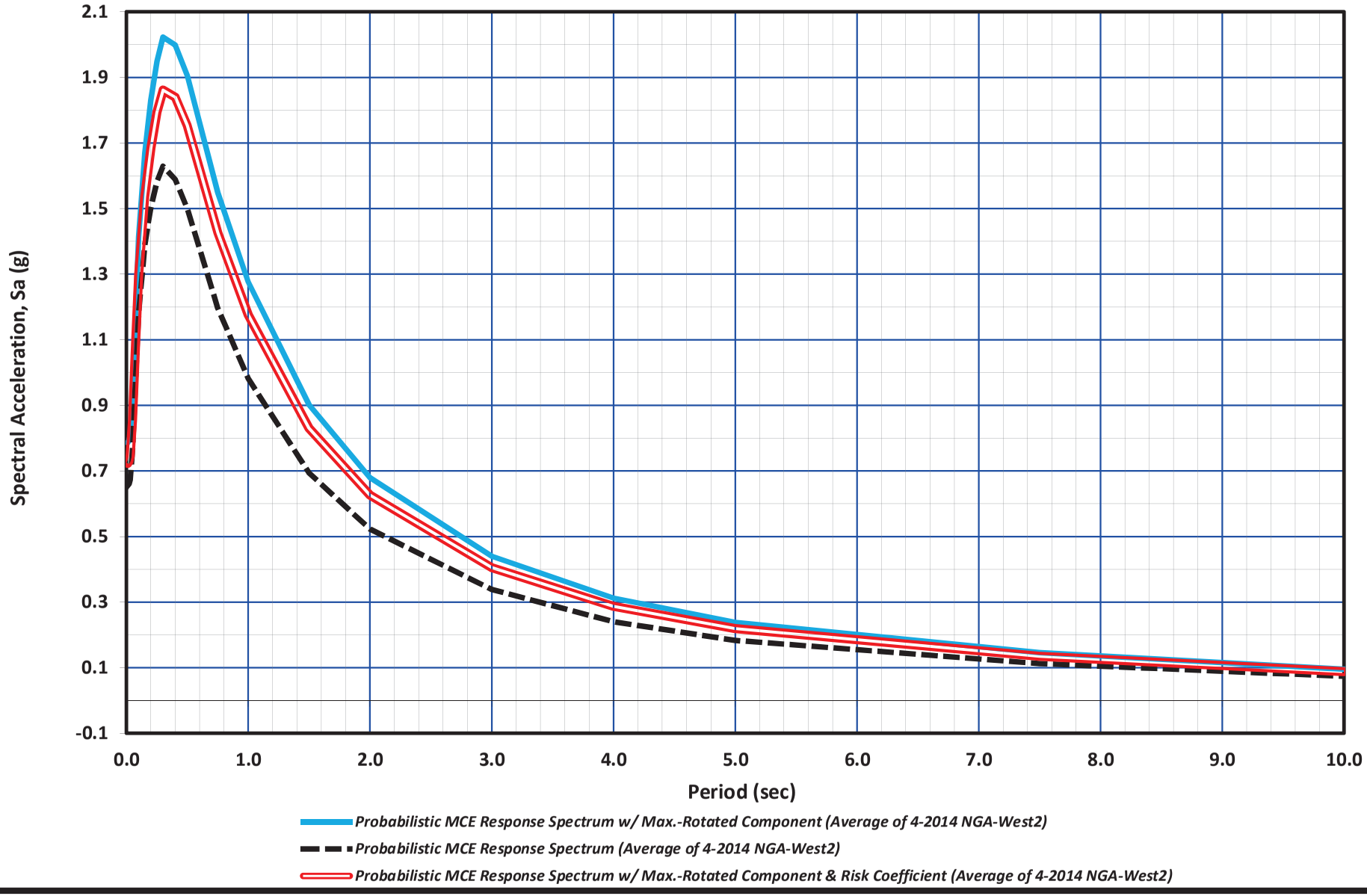
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| | | | |
|---|---|---|---|
| Project: | Public Safety Facility Feasibility Study<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA | | |
| Plate J-23 | Probabilistic MCE Response Spectra<br>(4 NGA-West2 Attenuation Relationships ) | | |
| Proj. No.: | 7109.23 | Date: | March, 2023 |





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|---|---|---|---|
| Project: | **Public Safety Facility Feasibility Study**<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA | | |
| **Plate J-24** | Probabilistic MCE Response Spectrum w/ & w/o Max.-Rotated Component/Risk Coefficients (Avg. of Values from 4 NGA-West2 Attenuation Relationships) | | |
| Proj. No.: | **7109.23** | Date: | **March, 2023** |

# Derivation of Site-Specific Seismic Design Parameters per ASCE 7-16 (incl. Supplement 1)

| OSHPD 2019 CBC Mapped Seismic Parameters for $MCE_R$ [a] | | | | EQFAULT-PGA (G) | PGA for MCE from USGS's Unified Hazard Tool (G) | $V_S^{30}$ (m/sec) |
|---|---|---|---|---|---|---|
| Site Class | Fa | Fv | Risk Category | 0.3770 | 0.6118 | 249.0 |
| D | 1.000 | 1.814 | IV | | | |
| $S_S$ (G) | $S_1$ (G) | $S_{MS}$ (G) | $S_{M1}$ (G) | | | |
| 1.371 | 0.486 | 1.500 | 1.215 | | | |
| $S_{DS}$ (G) | $S_{D1}$ (G) | $T_L$ (sec) | $F_{PGA}$ | Values from Sections 21.2.2, 21.2.3 and 21.3 of ASCE 7-16, Supplement 1 used in computing $S_{MS}$, $S_{M1}$, $S_{DS}$ & $S_{D1}$ | | |
| 1.000 | 0.810 | 8 | 1.1 | | | |
| $MCE_G$ - PGA (G) | $PGA_M$ (G) | $C_{RS}$ | $C_{RI}$ | $S_S$ | Fa | Fv |
| 0.583 | 0.642 | 0.920 | 0.921 | 1.5 | 1.0 | 2.5 |

| Structural Period (sec) | Average of 4 -2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component (G) | Average of 4 - 2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component & Risk Coefficient (G) | Average 84% 2014 NGA-West2 Deterministic MCE w/ Max.-Rotated Component (G) | Deterministic Lower Limit MCE (G) | General Design Response Spectral Value (G) | 80% of General Design Response Spectral Value (G) |
|---|---|---|---|---|---|---|
| PGA[a] | 0.786 | 0.723 | 0.606 | 0.600 | 0.583 | 0.466 |
| 0.02 | 0.792 | 0.729 | 0.605 | 0.690 | 0.635 | 0.508 |
| 0.03 | 0.808 | 0.744 | 0.610 | 0.735 | 0.661 | 0.529 |
| 0.05 | 0.928 | 0.854 | 0.670 | 0.825 | 0.713 | 0.571 |
| 0.075 | 1.184 | 1.090 | 0.810 | 0.938 | 0.779 | 0.623 |
| 0.1 | 1.413 | 1.300 | 0.952 | 1.050 | 0.844 | 0.675 |
| 0.15 | 1.670 | 1.536 | 1.182 | 1.275 | 0.974 | 0.779 |
| 0.2 | 1.830 | 1.684 | 1.359 | 1.500 | 1.000 | 0.800 |
| 0.25 | 1.949 | 1.793 | 1.483 | 1.500 | 1.000 | 0.800 |
| 0.3 | 2.023 | 1.861 | 1.573 | 1.500 | 1.000 | 0.800 |
| 0.4 | 1.999 | 1.839 | 1.608 | 1.500 | 1.000 | 0.800 |
| 0.5 | 1.905 | 1.753 | 1.565 | 1.500 | 1.000 | 0.800 |
| 0.75 | 1.549 | 1.426 | 1.292 | 1.500 | 1.000 | 0.800 |
| 1.0 | 1.277 | 1.176 | 1.091 | 1.500 | 0.810 | 0.648 |
| 1.5 | 0.902 | 0.831 | 0.777 | 0.948 | 0.608 | 0.486 |
| 2.0 | 0.680 | 0.626 | 0.588 | 0.750 | 0.405 | 0.324 |
| 3.0 | 0.440 | 0.405 | 0.373 | 0.500 | 0.270 | 0.216 |
| 4.0 | 0.312 | 0.287 | 0.251 | 0.375 | 0.203 | 0.162 |
| 5.0 | 0.238 | 0.219 | 0.182 | 0.300 | 0.162 | 0.130 |
| 7.5 | 0.146 | 0.135 | 0.089 | 0.200 | 0.108 | 0.086 |
| 10.0 | 0.096 | 0.088 | 0.048 | 0.120 | 0.081 | 0.065 |

a. For Probabilistic and Determonistic MCE's, the PGA values are adopted from the spectral values corresponding to a period of 0.01 second.

| | | | | |
|---|---|---|---|---|
| **Screening per Chapter 21, ASCE 7-16, Supplement 1:** | Largest spectral acceleration from Deterministic $MCE_R \geq$ 1.5Fa? (Section 21.2.2) | *Yes and No scaling is needed!* | Largest probabilistic spectral acceleration ≤ 1.2Fa? (Sections 21.2.2 & 21.2.3) | *No and Deterministic Response Spectrum needs to be considered!* |

# Derivation of Site-Specific Seismic Design Parameters per ASCE 7-16 (incl. Supplement 1)

*** $MCE_R$ Spectral Values Derivation:**

| Structural Period (sec) | $S_{aM}$ (G) | Remarks | $S_a$ (G) |
|---|---|---|---|
| PGA | 0.606 | from Average 84% 2014 NGA-West2 Deterministic MCE w/ Max.-Rotated Component | 0.466 |
| 0.02 | 0.690 | from Deterministic Lower Limit MCE | 0.460 |
| 0.03 | 0.735 | from Deterministic Lower Limit MCE | 0.490 |
| 0.05 | 0.825 | from Deterministic Lower Limit MCE | 0.550 |
| 0.075 | 0.938 | from Deterministic Lower Limit MCE | 0.625 |
| 0.1 | 1.050 | from Deterministic Lower Limit MCE | 0.700 |
| 0.15 | 1.275 | from Deterministic Lower Limit MCE | 0.850 |
| 0.2 | 1.500 | from Deterministic Lower Limit MCE | 1.000 |
| 0.25 | 1.500 | from Deterministic Lower Limit MCE | 1.000 |
| 0.3 | 1.573 | from Average 84% 2014 NGA-West2 Deterministic MCE w/ Max.-Rotated Component | 1.049 |
| 0.4 | 1.608 | from Average 84% 2014 NGA-West2 Deterministic MCE w/ Max.-Rotated Component | 1.072 |
| 0.5 | 1.565 | from Average 84% 2014 NGA-West2 Deterministic MCE w/ Max.-Rotated Component | 1.043 |
| 0.75 | 1.426 | from Avg. of 4 - 2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component & Risk Cofficient | 0.951 |
| 1.0 | 1.176 | from Avg. of 4 - 2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component & Risk Cofficient | 0.784 |
| 1.5 | 0.831 | from Avg. of 4 - 2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component & Risk Cofficient | 0.554 |
| 2.0 | 0.626 | from Avg. of 4 - 2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component & Risk Cofficient | 0.417 |
| 3.0 | 0.405 | from Avg. of 4 - 2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component & Risk Cofficient | 0.270 |
| 4.0 | 0.287 | from Avg. of 4 - 2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component & Risk Cofficient | 0.192 |
| 5.0 | 0.219 | from Avg. of 4 - 2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component & Risk Cofficient | 0.146 |
| 7.5 | 0.135 | from Avg. of 4 - 2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component & Risk Cofficient | 0.090 |
| 10.0 | 0.088 | from Avg. of 4 - 2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component & Risk Cofficient | 0.059 |

| | 90% of the Maximum Sa Value for T between 0.2 sec & 5 sec | Maximum T*Sa Value for T Range Indicated Above |
|---|---|---|
| | | T Range (sec): between 1-5 |
| Prob. MCE | 1.117 | 0.835 |
| Det. MCE | 0.965 | 0.783 |
| Det. Lower Limit MCE | 0.900 | 1.000 |

| Site-Specific Design $MCE_R$ Parameters | Recommended Value (G) | Remarks |
|---|---|---|
| $S_{DS}$ | **1.000** | Per Section 21.4 of ASCE Standard 7-16, $S_{DS}$ = larger of 1) $S_a$ @ 0.2 sec and 2) 90% of any $S_a$ with structural period between 0.2 sec and 5 sec, but no less than 80% of $S_{DS}$ value obtained from OSHPD web-application. |
| $S_{D1}$ | **0.835** | Per Section 21.4 of ASCE Standard 7-16, $S_{D1}$ = largest T*Sa value for T between 1 and 2 sec when site $V_S^{30}$ > 365.76 m/sec or for T between 1 and 5 sec when site VS30 ≤ 365.76 m/sec, but no less than 80% of $S_{D1}$ value obtained from OSHPD web-application. |
| $S_{MS}$ | **1.500** | Per Section 21.4 of ASCE Standard 7-16, $S_{MS}$ = 1.5 x $S_{DS}$, but no less than 80% of $S_{MS}$ value obtained from OSHPD web-application. |
| $S_{M1}$ | **1.252** | Per Section 21.4 of ASCE Standard 7-16, $S_{M1}$ = 1.5 x $S_{D1}$, no less than 80% of $S_{M1}$ value obtained from OSHPD web-application |

*** $MCE_G$ Peak Ground Acceleration Value Derivation:**

| | Average of 4 - 2014 NGA-West2 Probabilistic MCE w/ Max.-Rotated Component | Average 84% 2014 NGA-West2 Deterministic MCE w/ Max.-Rotated Component | 0.5 x $F_{PGA}$ | 80% of $PGA_M$ from USGS's 2019 CBC Mapped Seismic Parameters |
|---|---|---|---|---|
| Calculated PGA (G) | 0.786 | 0.606 | 0.550 | 0.514 |
| Site-Specific $PGA_M$ (G) | **0.606** | | | |

U.S. Geological Survey - Earthquake Hazards Program

# Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

Please also see the new USGS Earthquake Hazard Toolbox for access to the most recent NSHMs for the conterminous U.S. and Hawaii.

## Input

Edition
Dynamic: Conterminous U.S. 2014 (update) (4.2.0)

Spectral Period
Peak Ground Acceleration

Latitude
Decimal degrees
33.7762

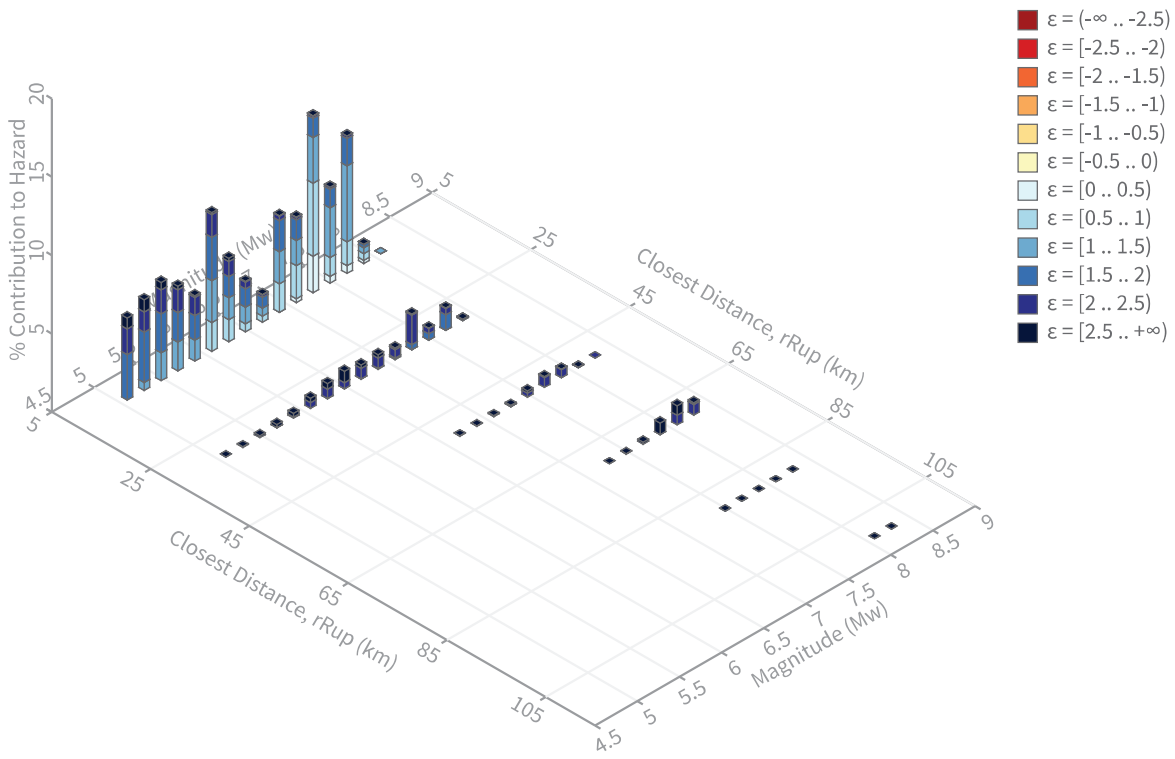
Time Horizon
Return period in years
2475

Longitude
Decimal degrees, negative values for western longitudes
-117.9365

Site Class
180 m/s (D/E boundary)

## Deaggregation

Component
Total




## Summary statistics for, Deaggregation: Total

### Deaggregation targets

**Return period:** 2475 yrs
**Exceedance rate:** 0.0004040404 yr$^{-1}$
**PGA ground motion:** 0.61175035 g

### Recovered targets

**Return period:** 3119.7503 yrs
**Exceedance rate:** 0.00032053847 yr$^{-1}$

### Totals

**Binned:** 100 %
**Residual:** 0 %
**Trace:** 0.08 %

### Mean (over all sources)

**m:** 6.62
**r:** 14.79 km
**ε₀:** 1.58 σ

### Mode (largest m-r bin)

**m:** 7.3
**r:** 10.81 km
**ε₀:** 0.95 σ
**Contribution:** 11.28 %

### Mode (largest m-r-ε₀ bin)

**m:** 7.71
**r:** 13.57 km
**ε₀:** 1.25 σ
**Contribution:** 4.86 %

### Discretization

**r:** min = 0.0, max = 1000.0, Δ = 20.0 km
**m:** min = 4.4, max = 9.4, Δ = 0.2
**ε:** min = -3.0, max = 3.0, Δ = 0.5 σ

### Epsilon keys

**ε0:** [-∞ .. -2.5)
**ε1:** [-2.5 .. -2.0)
**ε2:** [-2.0 .. -1.5)
**ε3:** [-1.5 .. -1.0)
**ε4:** [-1.0 .. -0.5)
**ε5:** [-0.5 .. 0.0)
**ε6:** [0.0 .. 0.5)
**ε7:** [0.5 .. 1.0)
**ε8:** [1.0 .. 1.5)
**ε9:** [1.5 .. 2.0)
**ε10:** [2.0 .. 2.5)
**ε11:** [2.5 .. +∞]

## Deaggregation Contributors

| Source Set ↳ Source | Type | r | m | $\varepsilon_0$ | lon | lat | az | % |
|---|---|---|---|---|---|---|---|---|
| UC33brAvg_FM32 | System | | | | | | | 30.57 |
| Compton [0] | | 10.68 | 7.25 | 0.76 | 118.043°W | 33.702°N | 230.30 | 5.34 |
| Anaheim [0] | | 4.89 | 6.66 | 0.85 | 117.943°W | 33.780°N | 307.60 | 3.23 |
| Newport-Inglewood alt 2 [1] | | 12.26 | 7.49 | 1.32 | 118.001°W | 33.681°N | 209.36 | 2.68 |
| San Joaquin Hills [0] | | 11.68 | 7.21 | 1.37 | 117.944°W | 33.675°N | 183.49 | 2.59 |
| Puente Hills (Coyote Hills) [0] | | 13.67 | 7.26 | 1.48 | 117.922°W | 33.893°N | 5.78 | 2.42 |
| Whittier alt 2 [4] | | 19.13 | 7.50 | 1.70 | 117.866°W | 33.938°N | 19.81 | 1.97 |
| Peralta Hills [1] | | 9.99 | 7.33 | 1.26 | 117.885°W | 33.854°N | 28.75 | 1.48 |
| Palos Verdes [8] | | 28.05 | 7.45 | 2.07 | 118.190°W | 33.639°N | 236.99 | 1.47 |
| Richfield [1] | | 13.73 | 6.29 | 1.97 | 117.870°W | 33.882°N | 27.55 | 1.36 |
| Yorba Linda [0] | | 10.25 | 7.56 | 0.79 | 117.889°W | 33.858°N | 25.81 | 1.08 |
| UC33brAvg_FM31 | System | | | | | | | 28.94 |
| Compton [0] | | 10.68 | 7.21 | 0.77 | 118.043°W | 33.702°N | 230.30 | 5.08 |
| Anaheim [0] | | 4.89 | 6.63 | 0.85 | 117.943°W | 33.780°N | 307.60 | 3.24 |
| Newport-Inglewood alt 1 [1] | | 12.29 | 7.45 | 1.33 | 118.011°W | 33.686°N | 214.56 | 3.01 |
| Whittier alt 1 [4] | | 19.19 | 7.52 | 1.68 | 117.862°W | 33.937°N | 20.94 | 2.45 |
| San Joaquin Hills [0] | | 11.68 | 7.55 | 1.21 | 117.944°W | 33.675°N | 183.49 | 2.21 |
| Peralta Hills [1] | | 9.99 | 6.96 | 1.45 | 117.885°W | 33.854°N | 28.75 | 1.69 |
| Palos Verdes [8] | | 28.05 | 7.29 | 2.16 | 118.190°W | 33.639°N | 236.99 | 1.37 |
| Yorba Linda [0] | | 10.25 | 7.43 | 0.79 | 117.889°W | 33.858°N | 25.81 | 1.11 |
| UC33brAvg_FM32 (opt) | Grid | | | | | | | 20.28 |
| PointSourceFinite: -117.937, 33.817 | | 6.68 | 5.69 | 1.41 | 117.936°W | 33.817°N | 0.00 | 2.97 |
| PointSourceFinite: -117.937, 33.817 | | 6.68 | 5.69 | 1.41 | 117.936°W | 33.817°N | 0.00 | 2.97 |
| PointSourceFinite: -117.937, 33.835 | | 8.15 | 5.62 | 1.63 | 117.936°W | 33.835°N | 0.00 | 2.31 |
| PointSourceFinite: -117.937, 33.835 | | 8.15 | 5.62 | 1.63 | 117.936°W | 33.835°N | 0.00 | 2.31 |
| PointSourceFinite: -117.937, 33.862 | | 10.30 | 5.72 | 1.83 | 117.936°W | 33.862°N | 0.00 | 1.04 |
| PointSourceFinite: -117.937, 33.862 | | 10.30 | 5.72 | 1.83 | 117.936°W | 33.862°N | 0.00 | 1.04 |
| UC33brAvg_FM31 (opt) | Grid | | | | | | | 20.22 |
| PointSourceFinite: -117.937, 33.817 | | 6.67 | 5.69 | 1.41 | 117.936°W | 33.817°N | 0.00 | 3.04 |
| PointSourceFinite: -117.937, 33.817 | | 6.67 | 5.69 | 1.41 | 117.936°W | 33.817°N | 0.00 | 3.04 |
| PointSourceFinite: -117.937, 33.835 | | 8.14 | 5.62 | 1.62 | 117.936°W | 33.835°N | 0.00 | 2.32 |
| PointSourceFinite: -117.937, 33.835 | | 8.14 | 5.62 | 1.62 | 117.936°W | 33.835°N | 0.00 | 2.32 |
| PointSourceFinite: -117.937, 33.862 | | 10.24 | 5.74 | 1.81 | 117.936°W | 33.862°N | 0.00 | 1.08 |
| PointSourceFinite: -117.937, 33.862 | | 10.24 | 5.74 | 1.81 | 117.936°W | 33.862°N | 0.00 | 1.08 |

## APPENDIX C – ANALYSIS OF SITE SEISMIC HAZARD AND MITIGATION

| | |
|---|---|
| Plates K-1 through K-35 | Liquefaction Analysis using CPT Test Data, including |
| Plates K-7, K-14, K-21, K-28 and K-35 | (a) Correlation between FOS against Liquefaction vs. Depth<br>(b) Correlation between Seismic Settlement vs. Depth |
| Plate L-1 | Soil Stratification and Properties for "Liquefy2" Analysis |
| Plates L-2 through L-7 | “Liquefy2” Liquefaction Analyses using Data from Borings B-1 and B-5 |
| Plates L-8 and L-9 | Dynamic Settlement Analyses of Borings B-1 and B-5 |
| Plates M-1 through M-7 | Assessment of Post-Liquefaction Surface Manifestation Potential |

**LIQUEFACTION ANALYSIS WITH CPT DATA**

**TEST LOCATION:** CPT-1

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft): 1 | MAGNITUDE: 6.62 | MAGNITUDE SCALING FACTOR: 1.38

GROUNDWATER LEVEL: 10 feet | ACCELERATION: 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | | | | | | | | | | | | | | | | | 5.701 | 0.000 | | |
| 0.08 | 105.03 | 0.00 | 25.50 | 1.05 | 4.12% | 4.118 | 0.59 | 6068.69 | 1.95 | 1.24 | 248 | 1.499 | 1.00 | 0.000 | 0.394 | | 3.81 | **5.24** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.13 | 115.93 | 0.01 | 13.92 | 0.89 | 6.39% | 6.397 | 0.67 | 1959.72 | 2.21 | 1.70 | 340 | 3.724 | 1.00 | 0.000 | 0.394 | | 9.46 | **13.01** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.21 | 112.71 | 0.01 | 9.73 | 0.65 | 6.68% | 6.688 | 0.71 | 837.23 | 2.33 | 2.05 | 411 | 6.529 | 1.00 | 0.000 | 0.394 | | 16.58 | **22.82** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.27 | 113.07 | 0.01 | 19.66 | 0.54 | 2.75% | 2.749 | 0.60 | 1309.67 | 1.98 | 1.28 | 256 | 1.634 | 1.00 | 0.000 | 0.394 | | 4.15 | **5.71** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.33 | 114.11 | 0.02 | 53.05 | 0.45 | 0.85% | 0.849 | 0.50 | 2878.51 | 1.45 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.394 | | 2.09 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.39 | 113.24 | 0.02 | 79.43 | 0.35 | 0.44% | 0.441 | 0.50 | 3639.16 | 1.14 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.394 | | 2.09 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.47 | 112.89 | 0.03 | 89.46 | 0.32 | 0.36% | 0.358 | 0.50 | 3395.86 | 1.07 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.09 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.53 | 113.51 | 0.03 | 88.29 | 0.35 | 0.40% | 0.397 | 0.50 | 2967.59 | 1.12 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.09 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.60 | 113.47 | 0.03 | 88.24 | 0.34 | 0.39% | 0.385 | 0.50 | 2616.40 | 1.13 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.09 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.67 | 113.47 | 0.04 | 88.19 | 0.34 | 0.39% | 0.386 | 0.50 | 2339.23 | 1.15 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.73 | 113.65 | 0.04 | 91.01 | 0.35 | 0.38% | 0.385 | 0.50 | 2213.69 | 1.15 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.80 | 114.44 | 0.05 | 98.02 | 0.38 | 0.39% | 0.388 | 0.50 | 2172.43 | 1.15 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.88 | 115.13 | 0.05 | 104.93 | 0.41 | 0.39% | 0.391 | 0.50 | 2110.08 | 1.14 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.93 | 115.39 | 0.05 | 106.49 | 0.42 | 0.39% | 0.395 | 0.50 | 2023.94 | 1.15 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 0.99 | 115.48 | 0.06 | 109.61 | 0.42 | 0.38% | 0.383 | 0.50 | 1954.45 | 1.14 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.06 | 114.56 | 0.06 | 107.95 | 0.37 | 0.34% | 0.343 | 0.50 | 1796.28 | 1.13 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.13 | 110.93 | 0.06 | 99.87 | 0.23 | 0.23% | 0.230 | 0.50 | 1560.80 | 1.06 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.20 | 111.57 | 0.07 | 93.64 | 0.26 | 0.28% | 0.278 | 0.50 | 1379.09 | 1.14 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.26 | 112.01 | 0.07 | 84.88 | 0.29 | 0.34% | 0.342 | 0.50 | 1190.95 | 1.23 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.33 | 112.22 | 0.08 | 79.72 | 0.30 | 0.38% | 0.377 | 0.50 | 1059.97 | 1.29 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.40 | 112.12 | 0.08 | 72.42 | 0.31 | 0.43% | 0.429 | 0.50 | 914.98 | 1.37 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.46 | 111.56 | 0.08 | 58.99 | 0.30 | 0.51% | 0.509 | 0.50 | 714.81 | 1.49 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.51 | 111.51 | 0.09 | 60.74 | 0.30 | 0.49% | 0.495 | 0.50 | 711.93 | 1.48 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.392 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.61 | 111.07 | 0.09 | 56.36 | 0.29 | 0.51% | 0.515 | 0.50 | 620.04 | 1.53 | 1.00 | 183 | 0.651 | 1.00 | 0.000 | 0.392 | | 1.66 | **2.28** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.65 | 110.90 | 0.09 | 54.22 | 0.29 | 0.53% | 0.536 | 0.50 | 582.21 | 1.55 | 1.00 | 174 | 0.571 | 1.00 | 0.000 | 0.392 | | 1.45 | **2.00** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.71 | 110.69 | 0.10 | 51.59 | 0.28 | 0.54% | 0.544 | 0.50 | 534.78 | 1.58 | 1.00 | 163 | 0.481 | 1.00 | 0.000 | 0.392 | | 1.23 | **1.69** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.79 | 110.41 | 0.10 | 50.23 | 0.27 | 0.54% | 0.539 | 0.50 | 497.78 | 1.59 | 1.00 | 155 | 0.426 | 1.00 | 0.000 | 0.392 | | 1.09 | **1.49** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.85 | 110.31 | 0.10 | 49.64 | 0.27 | 0.54% | 0.545 | 0.50 | 476.24 | 1.61 | 1.00 | 151 | 0.398 | 1.00 | 0.000 | 0.392 | | 1.01 | **1.40** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.92 | 110.20 | 0.11 | 49.74 | 0.27 | 0.54% | 0.544 | 0.50 | 460.10 | 1.61 | 1.00 | 148 | 0.383 | 1.00 | 0.000 | 0.392 | | 0.98 | **1.34** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 1.98 | 110.09 | 0.11 | 50.81 | 0.26 | 0.51% | 0.513 | 0.50 | 456.03 | 1.60 | 1.00 | 149 | 0.388 | 1.00 | 0.000 | 0.392 | | 0.99 | **1.36** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.05 | 110.05 | 0.12 | 52.47 | 0.26 | 0.50% | 0.497 | 0.50 | 455.15 | 1.58 | 1.00 | 151 | 0.403 | 1.00 | 0.000 | 0.392 | | 1.03 | **1.41** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.13 | 110.01 | 0.12 | 55.19 | 0.25 | 0.45% | 0.454 | 0.50 | 461.12 | 1.55 | 1.00 | 156 | 0.435 | 0.99 | 0.000 | 0.392 | | 1.11 | **1.53** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.17 | 110.01 | 0.12 | 56.55 | 0.25 | 0.44% | 0.443 | 0.50 | 463.94 | 1.54 | 1.00 | 159 | 0.451 | 0.99 | 0.000 | 0.392 | | 1.15 | **1.59** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.23 | 110.09 | 0.12 | 58.31 | 0.25 | 0.43% | 0.430 | 0.50 | 465.74 | 1.52 | 1.00 | 161 | 0.471 | 0.99 | 0.000 | 0.392 | | 1.20 | **1.65** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.32 | 110.26 | 0.13 | 61.23 | 0.25 | 0.41% | 0.409 | 0.50 | 470.39 | 1.50 | 1.00 | 166 | 0.507 | 0.99 | 0.000 | 0.392 | | 1.29 | **1.78** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.37 | 110.36 | 0.13 | 62.39 | 0.25 | 0.40% | 0.402 | 0.50 | 469.33 | 1.49 | 1.00 | 168 | 0.518 | 0.99 | 0.000 | 0.392 | | 1.32 | **1.82** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.43 | 110.79 | 0.14 | 67.07 | 0.26 | 0.39% | 0.388 | 0.50 | 492.25 | 1.46 | 1.00 | 178 | 0.604 | 0.99 | 0.000 | 0.392 | | 1.54 | **2.12** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.50 | 111.47 | 0.14 | 71.74 | 0.28 | 0.39% | 0.391 | 0.50 | 511.88 | 1.45 | 1.00 | 188 | 0.695 | 0.99 | 0.000 | 0.392 | | 1.78 | **2.44** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.58 | 112.34 | 0.14 | 77.58 | 0.31 | 0.40% | 0.400 | 0.50 | 536.37 | 1.43 | 1.00 | 200 | 0.822 | 0.99 | 0.000 | 0.391 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.64 | 113.01 | 0.15 | 80.89 | 0.33 | 0.41% | 0.409 | 0.50 | 546.44 | 1.42 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.72 | 113.82 | 0.15 | 85.37 | 0.37 | 0.43% | 0.434 | 0.50 | 559.49 | 1.43 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.76 | 114.09 | 0.15 | 87.41 | 0.38 | 0.43% | 0.436 | 0.50 | 564.42 | 1.42 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.83 | 114.47 | 0.16 | 90.33 | 0.39 | 0.43% | 0.433 | 0.50 | 568.54 | 1.41 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.90 | 114.91 | 0.16 | 93.54 | 0.41 | 0.44% | 0.439 | 0.50 | 574.20 | 1.41 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 2.97 | 115.41 | 0.17 | 97.05 | 0.43 | 0.44% | 0.444 | 0.50 | 581.32 | 1.40 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.04 | 116.36 | 0.17 | 99.48 | 0.49 | 0.49% | 0.493 | 0.50 | 581.66 | 1.43 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.11 | 114.50 | 0.17 | 100.55 | 0.38 | 0.38% | 0.379 | 0.50 | 574.42 | 1.36 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.15 | 113.49 | 0.18 | 101.23 | 0.33 | 0.33% | 0.327 | 0.50 | 570.88 | 1.32 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.22 | 113.92 | 0.18 | 101.72 | 0.35 | 0.34% | 0.345 | 0.50 | 560.99 | 1.34 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.31 | 114.46 | 0.19 | 102.40 | 0.38 | 0.37% | 0.372 | 0.50 | 549.09 | 1.36 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.35 | 114.57 | 0.19 | 102.69 | 0.38 | 0.37% | 0.371 | 0.50 | 543.94 | 1.36 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.42 | 114.35 | 0.19 | 91.01 | 0.38 | 0.42% | 0.418 | 0.50 | 471.92 | 1.44 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.48 | 114.62 | 0.20 | 97.44 | 0.39 | 0.40% | 0.401 | 0.50 | 496.44 | 1.40 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.55 | 114.85 | 0.20 | 97.63 | 0.40 | 0.41% | 0.411 | 0.50 | 487.39 | 1.41 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.64 | 115.05 | 0.21 | 96.17 | 0.42 | 0.44% | 0.438 | 0.50 | 467.94 | 1.44 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.391 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.68 | 115.18 | 0.21 | 95.49 | 0.42 | 0.44% | 0.441 | 0.50 | 459.45 | 1.44 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.390 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.74 | 115.28 | 0.21 | 93.54 | 0.43 | 0.46% | 0.461 | 0.50 | 442.65 | 1.47 | 1.00 | 199 | 0.816 | 0.99 | 0.000 | 0.390 | | 2.09 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.82 | 115.46 | 0.22 | 92.57 | 0.45 | 0.49% | 0.487 | 0.50 | 428.64 | 1.49 | 1.00 | 195 | 0.771 | 0.99 | 0.000 | 0.390 | | 1.97 | **2.72** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.88 | 115.52 | 0.22 | 91.21 | 0.45 | 0.49% | 0.495 | 0.50 | 415.63 | 1.50 | 1.00 | 191 | 0.725 | 0.99 | 0.000 | 0.390 | | 1.86 | **2.56** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 3.94 | 115.58 | 0.22 | 89.65 | 0.46 | 0.51% | 0.514 | 0.50 | 402.12 | 1.52 | 1.00 | 186 | 0.678 | 0.99 | 0.000 | 0.390 | | 1.74 | **2.39** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.02 | 115.64 | 0.23 | 87.31 | 0.46 | 0.53% | 0.528 | 0.50 | 383.59 | 1.54 | 1.00 | 179 | 0.615 | 0.99 | 0.000 | 0.390 | | 1.58 | **2.17** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.08 | 115.65 | 0.23 | 85.85 | 0.47 | 0.55% | 0.549 | 0.50 | 371.47 | 1.56 | 1.00 | 175 | 0.577 | 0.99 | 0.000 | 0.390 | | 1.48 | **2.04** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.14 | 115.61 | 0.23 | 84.20 | 0.47 | 0.56% | 0.560 | 0.50 | 358.90 | 1.57 | 1.00 | 170 | 0.539 | 0.99 | 0.000 | 0.390 | | 1.38 | **1.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.21 | 115.57 | 0.24 | 82.84 | 0.47 | 0.57% | 0.569 | 0.50 | 347.07 | 1.59 | 1.00 | 166 | 0.506 | 0.99 | 0.000 | 0.390 | | 1.30 | **1.78** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.26 | 115.54 | 0.24 | 81.77 | 0.47 | 0.57% | 0.576 | 0.50 | 338.45 | 1.60 | 1.00 | 163 | 0.482 | 0.99 | 0.000 | 0.390 | | 1.24 | **1.70** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.34 | 115.45 | 0.25 | 80.11 | 0.47 | 0.59% | 0.588 | 0.50 | 325.30 | 1.61 | 1.00 | 158 | 0.447 | 0.99 | 0.000 | 0.390 | | 1.15 | **1.58** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.43 | 115.27 | 0.25 | 79.04 | 0.46 | 0.58% | 0.584 | 0.50 | 314.28 | 1.62 | 1.00 | 154 | 0.422 | 0.99 | 0.000 | 0.390 | | 1.08 | **1.49** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.48 | 115.18 | 0.25 | 78.55 | 0.45 | 0.57% | 0.575 | 0.50 | 308.77 | 1.62 | 1.00 | 152 | 0.410 | 0.99 | 0.000 | 0.390 | | 1.05 | **1.45** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.53 | 115.12 | 0.26 | 78.55 | 0.45 | 0.57% | 0.575 | 0.50 | 305.30 | 1.62 | 1.00 | 152 | 0.404 | 0.99 | 0.000 | 0.390 | | 1.04 | **1.43** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.62 | 115.03 | 0.26 | 78.55 | 0.44 | 0.56% | 0.562 | 0.50 | 299.24 | 1.62 | 1.00 | 150 | 0.394 | 0.99 | 0.000 | 0.390 | | 1.01 | **1.39** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.67 | 114.96 | 0.26 | 78.75 | 0.44 | 0.56% | 0.561 | 0.50 | 296.73 | 1.62 | 1.00 | 150 | 0.392 | 0.99 | 0.000 | 0.390 | | 1.01 | **1.38** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.74 | 114.92 | 0.27 | 79.53 | 0.43 | 0.54% | 0.543 | 0.50 | 295.17 | 1.61 | 1.00 | 150 | 0.394 | 0.99 | 0.000 | 0.389 | | 1.01 | **1.39** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.80 | 114.95 | 0.27 | 80.40 | 0.43 | 0.53% | 0.537 | 0.50 | 294.62 | 1.60 | 1.00 | 151 | 0.398 | 0.99 | 0.000 | 0.389 | | 1.02 | **1.41** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.89 | 115.05 | 0.28 | 81.77 | 0.44 | 0.54% | 0.540 | 0.50 | 294.04 | 1.60 | 1.00 | 152 | 0.405 | 0.99 | 0.000 | 0.389 | | 1.04 | **1.43** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 4.93 | 115.15 | 0.28 | 82.54 | 0.44 | 0.53% | 0.535 | 0.50 | 294.36 | 1.60 | 1.00 | 153 | 0.410 | 0.99 | 0.000 | 0.389 | | 1.05 | **1.45** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.02 | 115.29 | 0.28 | 84.30 | 0.45 | 0.53% | 0.536 | 0.50 | 295.16 | 1.59 | 1.00 | 154 | 0.422 | 0.99 | 0.000 | 0.389 | | 1.09 | **1.49** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.07 | 115.40 | 0.29 | 85.85 | 0.45 | 0.52% | 0.526 | 0.50 | 297.58 | 1.59 | 1.00 | 156 | 0.436 | 0.99 | 0.000 | 0.389 | | 1.12 | **1.54** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.13 | 115.54 | 0.29 | 87.51 | 0.46 | 0.53% | 0.527 | 0.50 | 299.73 | 1.58 | 1.00 | 159 | 0.451 | 0.99 | 0.000 | 0.389 | | 1.16 | **1.59** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.20 | 115.64 | 0.30 | 88.68 | 0.46 | 0.52% | 0.520 | 0.50 | 299.57 | 1.58 | 1.00 | 160 | 0.458 | 0.99 | 0.000 | 0.389 | | 1.18 | **1.62** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.27 | 115.72 | 0.30 | 90.14 | 0.47 | 0.52% | 0.523 | 0.50 | 300.38 | 1.57 | 1.00 | 161 | 0.469 | 0.99 | 0.000 | 0.389 | | 1.21 | **1.66** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.34 | 116.33 | 0.30 | 92.67 | 0.50 | 0.54% | 0.541 | 0.50 | 304.68 | 1.58 | 1.00 | 164 | 0.494 | 0.99 | 0.000 | 0.389 | | 1.27 | **1.75** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.38 | 115.55 | 0.31 | 94.61 | 0.45 | 0.48% | 0.477 | 0.50 | 308.72 | 1.54 | 1.00 | 167 | 0.516 | 0.99 | 0.000 | 0.389 | | 1.33 | **1.82** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.45 | 111.42 | 0.31 | 99.09 | 0.25 | 0.25% | 0.253 | 0.50 | 319.29 | 1.38 | 1.00 | 174 | 0.571 | 0.99 | 0.000 | 0.389 | | 1.47 | **2.02** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.51 | 112.60 | 0.31 | 102.01 | 0.29 | 0.28% | 0.285 | 0.50 | 325.17 | 1.39 | 1.00 | 178 | 0.607 | 0.99 | 0.000 | 0.389 | | 1.56 | **2.15** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.61 | 113.66 | 0.32 | 104.15 | 0.33 | 0.32% | 0.318 | 0.50 | 326.07 | 1.41 | 1.00 | 180 | 0.626 | 0.99 | 0.000 | 0.389 | | 1.61 | **2.22** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.64 | 113.92 | 0.32 | 104.64 | 0.35 | 0.33% | 0.336 | 0.50 | 325.85 | 1.42 | 1.00 | 181 | 0.630 | 0.99 | 0.000 | 0.389 | | 1.62 | **2.23** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.72 | 114.01 | 0.32 | 95.88 | 0.36 | 0.38% | 0.377 | 0.50 | 294.29 | 1.49 | 1.00 | 164 | 0.493 | 0.99 | 0.000 | 0.389 | | 1.27 | **1.75** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.79 | 114.29 | 0.33 | 95.78 | 0.37 | 0.39% | 0.388 | 0.50 | 290.39 | 1.49 | 1.00 | 163 | 0.485 | 0.99 | 0.000 | 0.388 | | 1.25 | **1.72** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.85 | 114.58 | 0.33 | 98.51 | 0.39 | 0.40% | 0.397 | 0.50 | 295.59 | 1.49 | 1.00 | 167 | 0.514 | 0.99 | 0.000 | 0.388 | | 1.32 | **1.82** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.91 | 114.86 | 0.34 | 99.19 | 0.40 | 0.40% | 0.405 | 0.50 | 294.57 | 1.50 | 1.00 | 167 | 0.516 | 0.99 | 0.000 | 0.388 | | 1.33 | **1.83** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 5.98 | 115.28 | 0.34 | 101.92 | 0.42 | 0.41% | 0.413 | 0.50 | 299.10 | 1.49 | 1.00 | 171 | 0.544 | 0.99 | 0.000 | 0.388 | | 1.40 | **1.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.04 | 115.57 | 0.34 | 103.38 | 0.44 | 0.43% | 0.427 | 0.50 | 300.32 | 1.50 | 1.00 | 172 | 0.557 | 0.99 | 0.000 | 0.388 | | 1.44 | **1.98** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.12 | 116.06 | 0.35 | 104.54 | 0.46 | 0.44% | 0.441 | 0.50 | 299.64 | 1.50 | 1.00 | 173 | 0.564 | 0.99 | 0.000 | 0.388 | | 1.45 | **2.00** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.18 | 116.45 | 0.35 | 105.52 | 0.49 | 0.46% | 0.466 | 0.50 | 299.44 | 1.52 | 1.00 | 174 | 0.570 | 0.99 | 0.000 | 0.388 | | 1.47 | **2.02** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.24 | 116.62 | 0.35 | 107.66 | 0.50 | 0.46% | 0.466 | 0.50 | 302.51 | 1.51 | 1.00 | 177 | 0.593 | 0.99 | 0.000 | 0.388 | | 1.53 | **2.10** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.30 | 117.01 | 0.36 | 109.90 | 0.52 | 0.47% | 0.475 | 0.50 | 305.78 | 1.51 | 1.00 | 179 | 0.618 | 0.99 | 0.000 | 0.388 | | 1.59 | **2.19** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.37 | 117.38 | 0.36 | 112.72 | 0.54 | 0.48% | 0.481 | 0.50 | 310.09 | 1.51 | 1.00 | 183 | 0.650 | 0.98 | 0.000 | 0.388 | | 1.68 | **2.31** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.45 | 117.95 | 0.37 | 117.59 | 0.58 | 0.49% | 0.495 | 0.50 | 319.36 | 1.50 | 1.00 | 190 | 0.715 | 0.98 | 0.000 | 0.388 | | 1.84 | **2.54** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.50 | 118.17 | 0.37 | 120.22 | 0.59 | 0.49% | 0.492 | 0.50 | 323.91 | 1.49 | 1.00 | 193 | 0.751 | 0.98 | 0.000 | 0.388 | | 1.94 | **2.66** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.58 | 118.52 | 0.37 | 121.48 | 0.62 | 0.51% | 0.512 | 0.50 | 323.16 | 1.50 | 1.00 | 194 | 0.759 | 0.98 | 0.000 | 0.388 | | 1.96 | **2.69** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.63 | 118.74 | 0.38 | 122.06 | 0.63 | 0.52% | 0.518 | 0.50 | 322.15 | 1.51 | 1.00 | 194 | 0.761 | 0.98 | 0.000 | 0.388 | | 1.96 | **2.70** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.72 | 119.03 | 0.38 | 124.98 | 0.66 | 0.53% | 0.530 | 0.50 | 325.25 | 1.51 | 1.00 | 197 | 0.795 | 0.98 | 0.000 | 0.388 | | 2.05 | **2.82** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.77 | 119.15 | 0.39 | 127.03 | 0.66 | 0.52% | 0.521 | 0.50 | 328.04 | 1.50 | 1.00 | 200 | 0.823 | 0.98 | 0.000 | 0.388 | | 2.12 | **2.92** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.83 | 119.29 | 0.39 | 131.12 | 0.67 | 0.51% | 0.513 | 0.50 | 335.52 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.388 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.90 | 119.55 | 0.39 | 133.75 | 0.69 | 0.52% | 0.517 | 0.50 | 338.62 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 6.96 | 119.73 | 0.40 | 135.50 | 0.70 | 0.52% | 0.518 | 0.50 | 339.96 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.04 | 119.79 | 0.40 | 135.89 | 0.71 | 0.52% | 0.524 | 0.50 | 336.86 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.09 | 119.84 | 0.41 | 136.57 | 0.71 | 0.52% | 0.521 | 0.50 | 336.04 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.17 | 119.89 | 0.41 | 138.42 | 0.71 | 0.51% | 0.514 | 0.50 | 336.61 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.26 | 119.96 | 0.42 | 141.44 | 0.71 | 0.50% | 0.503 | 0.50 | 339.50 | 1.46 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.29 | 119.99 | 0.42 | 143.09 | 0.71 | 0.50% | 0.498 | 0.50 | 341.98 | 1.46 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.35 | 120.04 | 0.42 | 145.13 | 0.72 | 0.50% | 0.498 | 0.50 | 343.89 | 1.46 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.42 | 119.86 | 0.42 | 147.37 | 0.69 | 0.47% | 0.470 | 0.50 | 345.76 | 1.44 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.48 | 119.69 | 0.43 | 148.93 | 0.68 | 0.46% | 0.458 | 0.50 | 346.50 | 1.43 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.55 | 119.59 | 0.43 | 149.71 | 0.67 | 0.45% | 0.449 | 0.50 | 344.94 | 1.42 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.62 | 119.46 | 0.44 | 150.59 | 0.65 | 0.43% | 0.433 | 0.50 | 343.64 | 1.41 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.70 | 119.33 | 0.44 | 150.97 | 0.64 | 0.42% | 0.425 | 0.50 | 340.78 | 1.41 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.76 | 119.52 | 0.45 | 151.36 | 0.66 | 0.44% | 0.437 | 0.50 | 338.90 | 1.42 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.84 | 120.08 | 0.45 | 150.88 | 0.71 | 0.47% | 0.472 | 0.50 | 334.21 | 1.44 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.89 | 118.79 | 0.45 | 150.39 | 0.60 | 0.40% | 0.400 | 0.50 | 330.93 | 1.40 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 7.94 | 116.92 | 0.46 | 151.56 | 0.46 | 0.30% | 0.304 | 0.50 | 331.37 | 1.33 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.02 | 117.86 | 0.46 | 152.53 | 0.52 | 0.34% | 0.342 | 0.50 | 330.07 | 1.36 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.09 | 118.62 | 0.46 | 153.51 | 0.58 | 0.38% | 0.379 | 0.50 | 329.22 | 1.38 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.15 | 119.05 | 0.47 | 150.88 | 0.62 | 0.41% | 0.412 | 0.50 | 321.09 | 1.41 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.22 | 119.25 | 0.47 | 150.00 | 0.64 | 0.43% | 0.428 | 0.50 | 316.38 | 1.42 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.28 | 119.20 | 0.48 | 142.12 | 0.64 | 0.45% | 0.452 | 0.50 | 297.45 | 1.46 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.34 | 119.34 | 0.48 | 143.67 | 0.65 | 0.45% | 0.454 | 0.50 | 298.46 | 1.46 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.41 | 119.61 | 0.48 | 145.72 | 0.67 | 0.46% | 0.461 | 0.50 | 300.10 | 1.46 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.49 | 119.99 | 0.49 | 143.87 | 0.71 | 0.49% | 0.495 | 0.50 | 293.36 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.53 | 120.29 | 0.49 | 143.97 | 0.74 | 0.51% | 0.516 | 0.50 | 292.12 | 1.49 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.60 | 120.23 | 0.50 | 143.09 | 0.74 | 0.52% | 0.519 | 0.50 | 287.86 | 1.50 | 1.00 | 199 | 0.809 | 0.98 | 0.000 | 0.386 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.67 | 120.13 | 0.50 | 142.02 | 0.73 | 0.51% | 0.516 | 0.50 | 283.28 | 1.50 | 1.00 | 196 | 0.784 | 0.98 | 0.000 | 0.386 | | 2.03 | **2.80** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.76 | 120.44 | 0.50 | 140.36 | 0.76 | 0.54% | 0.543 | 0.50 | 276.94 | 1.52 | 1.00 | 193 | 0.748 | 0.98 | 0.000 | 0.386 | | 1.94 | **2.67** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.80 | 120.66 | 0.51 | 141.24 | 0.79 | 0.56% | 0.561 | 0.50 | 277.36 | 1.53 | 1.00 | 194 | 0.756 | 0.98 | 0.000 | 0.386 | | 1.96 | **2.70** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.87 | 121.01 | 0.51 | 143.77 | 0.82 | 0.57% | 0.572 | 0.50 | 280.00 | 1.53 | 1.00 | 196 | 0.784 | 0.98 | 0.000 | 0.386 | | 2.03 | **2.80** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 8.93 | 121.33 | 0.52 | 148.44 | 0.85 | 0.57% | 0.575 | 0.50 | 287.08 | 1.52 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.01 | 121.95 | 0.52 | 158.28 | 0.90 | 0.57% | 0.570 | 0.50 | 303.29 | 1.50 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.06 | 122.32 | 0.52 | 164.99 | 0.94 | 0.57% | 0.572 | 0.50 | 314.34 | 1.49 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.14 | 122.96 | 0.53 | 175.50 | 1.00 | 0.57% | 0.572 | 0.50 | 331.30 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.20 | 123.33 | 0.53 | 180.18 | 1.04 | 0.58% | 0.579 | 0.50 | 337.79 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.27 | 123.58 | 0.54 | 186.50 | 1.07 | 0.57% | 0.575 | 0.50 | 346.84 | 1.45 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.33 | 123.73 | 0.54 | 188.74 | 1.08 | 0.57% | 0.574 | 0.50 | 348.60 | 1.45 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.39 | 123.92 | 0.54 | 189.91 | 1.11 | 0.58% | 0.586 | 0.50 | 348.36 | 1.46 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.46 | 123.97 | 0.55 | 189.62 | 1.12 | 0.59% | 0.592 | 0.50 | 345.07 | 1.46 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.53 | 123.93 | 0.55 | 187.87 | 1.12 | 0.60% | 0.598 | 0.50 | 339.18 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.61 | 123.79 | 0.56 | 186.70 | 1.10 | 0.59% | 0.591 | 0.50 | 334.06 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.95** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.69 | 123.55 | 0.56 | 182.42 | 1.07 | 0.59% | 0.588 | 0.50 | 323.50 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.95** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.73 | 120.51 | 0.56 | 180.96 | 0.71 | 0.39% | 0.394 | 0.50 | 319.53 | 1.37 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.95** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.78 | 117.19 | 0.57 | 179.50 | 0.45 | 0.25% | 0.251 | 0.50 | 315.30 | 1.27 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.95** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.86 | 117.95 | 0.57 | 177.06 | 0.50 | 0.28% | 0.283 | 0.50 | 308.43 | 1.30 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.95** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 9.91 | 118.70 | 0.58 | 175.99 | 0.56 | 0.32% | 0.319 | 0.50 | 304.97 | 1.33 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.95** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.01 | 119.60 | 0.58 | 175.50 | 0.63 | 0.36% | 0.360 | 0.50 | 301.14 | 1.36 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | **2.95** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.05 | 119.84 | 0.58 | 175.12 | 0.65 | 0.37% | 0.372 | 0.50 | 299.89 | 1.37 | 1.00 | 200 | 0.824 | 0.98 | 0.002 | 0.386 | | 2.14 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.11 | 119.91 | 0.59 | 161.97 | 0.68 | 0.42% | 0.421 | 0.50 | 276.47 | 1.43 | 1.00 | 200 | 0.824 | 0.98 | 0.003 | 0.387 | | 2.13 | **2.93** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.18 | 120.34 | 0.59 | 167.62 | 0.71 | 0.42% | 0.425 | 0.50 | 285.15 | 1.42 | 1.00 | 200 | 0.824 | 0.98 | 0.006 | 0.388 | | 2.12 | **2.92** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.24 | 120.69 | 0.59 | 169.37 | 0.74 | 0.44% | 0.438 | 0.50 | 287.27 | 1.43 | 1.00 | 200 | 0.824 | 0.98 | 0.007 | 0.389 | | 2.12 | **2.91** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.30 | 120.99 | 0.60 | 168.59 | 0.77 | 0.46% | 0.458 | 0.50 | 285.09 | 1.44 | 1.00 | 200 | 0.824 | 0.98 | 0.009 | 0.390 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.39 | 120.97 | 0.60 | 162.36 | 0.78 | 0.48% | 0.482 | 0.50 | 273.28 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.012 | 0.392 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.45 | 120.98 | 0.61 | 158.28 | 0.79 | 0.50% | 0.501 | 0.50 | 265.60 | 1.49 | 1.00 | 200 | 0.824 | 0.98 | 0.014 | 0.393 | | 2.10 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.51 | 121.00 | 0.61 | 154.97 | 0.80 | 0.52% | 0.518 | 0.50 | 259.25 | 1.50 | 1.00 | 196 | 0.782 | 0.98 | 0.016 | 0.394 | | 1.98 | **2.73** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.58 | 120.98 | 0.62 | 153.21 | 0.80 | 0.52% | 0.524 | 0.50 | 255.40 | 1.51 | 1.00 | 194 | 0.755 | 0.97 | 0.018 | 0.396 | | 1.91 | **2.62** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.64 | 120.96 | 0.62 | 152.34 | 0.80 | 0.53% | 0.527 | 0.50 | 253.20 | 1.51 | 1.00 | 192 | 0.740 | 0.97 | 0.020 | 0.397 | | 1.87 | **2.57** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.72 | 120.97 | 0.62 | 152.53 | 0.80 | 0.52% | 0.527 | 0.50 | 252.52 | 1.51 | 1.00 | 192 | 0.739 | 0.97 | 0.022 | 0.398 | | 1.86 | **2.55** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.76 | 120.97 | 0.63 | 153.70 | 0.80 | 0.52% | 0.523 | 0.50 | 253.96 | 1.51 | 1.00 | 193 | 0.752 | 0.97 | 0.024 | 0.399 | | 1.89 | **2.59** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.84 | 121.09 | 0.63 | 156.72 | 0.81 | 0.52% | 0.519 | 0.50 | 257.96 | 1.50 | 1.00 | 197 | 0.788 | 0.97 | 0.026 | 0.400 | | 1.97 | **2.71** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.90 | 121.16 | 0.63 | 155.65 | 0.82 | 0.53% | 0.529 | 0.50 | 255.44 | 1.51 | 1.00 | 195 | 0.771 | 0.97 | 0.028 | 0.401 | | 1.92 | **2.64** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 10.98 | 120.96 | 0.64 | 149.81 | 0.80 | 0.53% | 0.536 | 0.50 | 244.87 | 1.53 | 1.00 | 187 | 0.692 | 0.97 | 0.031 | 0.403 | | 1.72 | **2.36** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 11.03 | 120.71 | 0.64 | 145.13 | 0.78 | 0.54% | 0.540 | 0.50 | 236.61 | 1.54 | 1.00 | 181 | 0.634 | 0.97 | 0.032 | 0.404 | | 1.57 | **2.16** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 11.12 | 120.34 | 0.65 | 140.36 | 0.75 | 0.53% | 0.537 | 0.50 | 227.82 | 1.55 | 1.00 | 175 | 0.578 | 0.97 | 0.035 | 0.405 | | 1.43 | **1.96** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 11.16 | 120.23 | 0.65 | 138.03 | 0.75 | 0.54% | 0.546 | 0.50 | 223.60 | 1.56 | 1.00 | 172 | 0.552 | 0.97 | 0.036 | 0.406 | | 1.36 | **1.87** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 11.25 | 119.92 | 0.66 | 128.10 | 0.73 | 0.57% | 0.573 | 0.50 | 206.55 | 1.60 | 1.00 | 159 | 0.455 | 0.97 | 0.039 | 0.408 | | 1.12 | **1.53** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 11.30 | 117.83 | 0.66 | 120.02 | 0.56 | 0.47% | 0.469 | 0.50 | 193.02 | 1.57 | 1.00 | 149 | 0.387 | 0.97 | 0.041 | 0.408 | | 0.95 | **1.30** | | 0.000 | 0.000 | 0.000 | 5.701 | 0.000 | | |
| 11.37 | 114.22 | 0.66 | 105.42 | 0.36 | 0.34% | 0.344 | 0.50 | 168.91 | 1.55 | 1.00 | 130 | 0.286 | 0.97 | 0.043 | 0.410 | | 0.70 | **0.96** | <= | 0.906 | 0.008 | 0.000 | 5.701 | 0.000 | **11.30** | **11.37** |
| 11.43 | 114.77 | 0.67 | 96.46 | 0.40 | 0.41% | 0.418 | 0.50 | 154.07 | 1.63 | 1.00 | 119 | 0.237 | 0.97 | 0.045 | 0.411 | | 0.58 | **0.79** | <= | 1.884 | 0.014 | 0.000 | 5.693 | 0.000 | **11.37** | **11.43** |
| 11.48 | 115.40 | 0.67 | 88.58 | 0.45 | 0.51% | 0.512 | 0.52 | 141.09 | 1.70 | 1.04 | 115 | 0.220 | 0.97 | 0.046 | 0.412 | | 0.54 | **0.74** | <= | 1.793 | 0.011 | 0.000 | 5.679 | 0.000 | **11.43** | **11.48** |
| 11.57 | 117.07 | 0.67 | 80.21 | 0.58 | 0.72% | 0.729 | 0.55 | 127.14 | 1.82 | 1.12 | 114 | 0.217 | 0.97 | 0.049 | 0.413 | | 0.53 | **0.72** | <= | 1.778 | 0.019 | 0.000 | 5.669 | 0.000 | **11.48** | **11.57** |
| 11.62 | 117.41 | 0.68 | 73.39 | 0.63 | 0.86% | 0.866 | 0.58 | 115.98 | 1.89 | 1.18 | 111 | 0.206 | 0.97 | 0.051 | 0.414 | | 0.50 | **0.69** | <= | 2.125 | 0.013 | 0.000 | 5.649 | 0.000 | **11.57** | **11.62** |
| 11.70 | 117.42 | 0.68 | 59.77 | 0.67 | 1.12% | 1.134 | 0.62 | 93.92 | 2.03 | 1.34 | 104 | 0.185 | 0.97 | 0.053 | 0.415 | | 0.44 | **0.61** | <= | 2.235 | 0.021 | 0.000 | 5.637 | 0.000 | **11.62** | **11.70** |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-1

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**Analysis Scenario:** MCE (2% exceedance probability in 50 years)

D(ft) 1 | **MAGNITUDE:** 6.62 | **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet | **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.76 | 117.78 | 0.69 | 63.66 | 0.69 | 1.08% | 1.096 | 0.61 | 99.83 | 2.00 | 1.30 | 107 | 0.194 | 0.97 | 0.055 | 0.416 | | 0.47 | **0.64** | <= | 2.186 | 0.016 | 0.000 | 5.615 | 0.000 | 11.70 | 11.76 |
| 11.83 | 117.71 | 0.69 | 63.71 | 0.68 | 1.07% | 1.079 | 0.61 | 99.60 | 2.00 | 1.30 | 106 | 0.192 | 0.97 | 0.057 | 0.417 | | 0.46 | **0.63** | <= | 2.195 | 0.018 | 0.000 | 5.599 | 0.000 | 11.76 | 11.83 |
| 11.88 | 117.59 | 0.69 | 63.71 | 0.67 | 1.05% | 1.063 | 0.61 | 99.38 | 1.99 | 1.29 | 106 | 0.190 | 0.97 | 0.059 | 0.418 | | 0.45 | **0.63** | <= | 2.204 | 0.013 | 0.000 | 5.581 | 0.000 | 11.83 | 11.88 |
| 11.95 | 117.32 | 0.70 | 63.76 | 0.65 | 1.02% | 1.031 | 0.60 | 99.15 | 1.99 | 1.28 | 105 | 0.187 | 0.97 | 0.061 | 0.419 | | 0.45 | **0.61** | <= | 2.222 | 0.019 | 0.000 | 5.568 | 0.000 | 11.88 | 11.95 |
| 12.01 | 116.81 | 0.70 | 65.32 | 0.60 | 0.92% | 0.929 | 0.59 | 101.34 | 1.95 | 1.24 | 103 | 0.183 | 0.97 | 0.063 | 0.420 | | 0.43 | **0.60** | <= | 2.247 | 0.016 | 0.000 | 5.549 | 0.000 | 11.95 | 12.01 |
| 12.10 | 116.20 | 0.71 | 70.28 | 0.54 | 0.77% | 0.776 | 0.57 | 108.70 | 1.89 | 1.18 | 104 | 0.184 | 0.97 | 0.066 | 0.422 | | 0.44 | **0.60** | <= | 2.237 | 0.024 | 0.000 | 5.533 | 0.000 | 12.01 | 12.10 |
| 12.15 | 115.59 | 0.71 | 70.18 | 0.50 | 0.71% | 0.720 | 0.57 | 108.31 | 1.87 | 1.16 | 102 | 0.179 | 0.97 | 0.067 | 0.423 | | 0.42 | **0.58** | <= | 2.271 | 0.014 | 0.000 | 5.509 | 0.000 | 12.10 | 12.15 |
| 12.23 | 115.30 | 0.71 | 64.73 | 0.49 | 0.76% | 0.765 | 0.58 | 99.48 | 1.91 | 1.20 | 98 | 0.166 | 0.97 | 0.070 | 0.424 | | 0.39 | **0.54** | <= | 2.353 | 0.023 | 0.000 | 5.495 | 0.000 | 12.15 | 12.23 |
| 12.28 | 115.42 | 0.72 | 61.91 | 0.51 | 0.82% | 0.833 | 0.59 | 94.90 | 1.95 | 1.24 | 97 | 0.164 | 0.97 | 0.071 | 0.425 | | 0.39 | **0.53** | <= | 2.373 | 0.014 | 0.000 | 5.473 | 0.000 | 12.23 | 12.28 |
| 12.37 | 115.19 | 0.72 | 55.97 | 0.51 | 0.91% | 0.923 | 0.61 | 85.36 | 2.01 | 1.31 | 93 | 0.154 | 0.97 | 0.074 | 0.426 | | 0.36 | **0.50** | <= | 2.449 | 0.026 | 0.000 | 5.458 | 0.000 | 12.28 | 12.37 |
| 12.41 | 115.50 | 0.72 | 53.34 | 0.54 | 1.01% | 1.026 | 0.62 | 81.16 | 2.05 | 1.37 | 93 | 0.155 | 0.97 | 0.075 | 0.427 | | 0.36 | **0.50** | <= | 2.445 | 0.012 | 0.000 | 5.432 | 0.000 | 12.37 | 12.41 |
| 12.48 | 116.20 | 0.73 | 47.70 | 0.61 | 1.28% | 1.299 | 0.65 | 72.25 | 2.15 | 1.55 | 95 | 0.159 | 0.97 | 0.077 | 0.428 | | 0.37 | **0.51** | <= | 2.408 | 0.020 | 0.000 | 5.420 | 0.000 | 12.41 | 12.48 |
| 12.54 | 116.69 | 0.73 | 45.17 | 0.67 | 1.48% | 1.508 | 0.67 | 68.18 | 2.20 | 1.68 | 98 | 0.167 | 0.97 | 0.079 | 0.429 | | 0.39 | **0.54** | <= | 2.346 | 0.017 | 0.000 | 5.400 | 0.000 | 12.48 | 12.54 |
| 12.62 | 116.47 | 0.74 | 40.01 | 0.68 | 1.70% | 1.731 | 0.69 | 60.06 | 2.28 | 1.89 | 98 | 0.168 | 0.97 | 0.082 | 0.430 | | 0.39 | **0.54** | <= | 2.339 | 0.022 | 0.000 | 5.383 | 0.000 | 12.54 | 12.62 |
| 12.67 | 116.33 | 0.74 | 36.89 | 0.68 | 1.84% | 1.881 | 0.71 | 55.17 | 2.33 | 2.05 | 99 | 0.169 | 0.97 | 0.083 | 0.431 | | 0.39 | **0.54** | <= | 2.332 | 0.014 | 0.000 | 5.361 | 0.000 | 12.62 | 12.67 |
| 12.74 | 116.41 | 0.74 | 34.75 | 0.70 | 2.01% | 2.058 | 0.72 | 51.75 | 2.37 | 2.21 | 101 | 0.174 | 0.97 | 0.085 | 0.432 | | 0.40 | **0.56** | <= | 2.297 | 0.019 | 0.000 | 5.347 | 0.000 | 12.67 | 12.74 |
| 12.82 | 116.59 | 0.75 | 34.26 | 0.72 | 2.10% | 2.148 | 0.73 | 50.83 | 2.39 | 2.27 | 102 | 0.179 | 0.97 | 0.088 | 0.433 | | 0.41 | **0.57** | <= | 2.270 | 0.022 | 0.000 | 5.327 | 0.000 | 12.74 | 12.82 |
| 12.87 | 116.83 | 0.75 | 34.07 | 0.75 | 2.20% | 2.251 | 0.73 | 50.43 | 2.41 | 2.34 | 104 | 0.185 | 0.97 | 0.090 | 0.434 | | 0.43 | **0.59** | <= | 2.232 | 0.013 | 0.000 | 5.306 | 0.000 | 12.82 | 12.87 |
| 12.93 | 117.70 | 0.75 | 35.24 | 0.83 | 2.36% | 2.407 | 0.73 | 52.06 | 2.41 | 2.37 | 109 | 0.201 | 0.97 | 0.091 | 0.435 | | 0.46 | **0.64** | <= | 2.147 | 0.015 | 0.000 | 5.292 | 0.000 | 12.87 | 12.93 |
| 12.99 | 117.82 | 0.76 | 36.11 | 0.84 | 2.33% | 2.376 | 0.73 | 53.24 | 2.40 | 2.32 | 110 | 0.202 | 0.97 | 0.093 | 0.435 | | 0.46 | **0.64** | <= | 2.142 | 0.015 | 0.000 | 5.277 | 0.000 | 12.93 | 12.99 |
| 13.08 | 117.72 | 0.76 | 33.78 | 0.85 | 2.52% | 2.574 | 0.74 | 49.54 | 2.45 | 2.52 | 111 | 0.208 | 0.97 | 0.096 | 0.437 | | 0.48 | **0.65** | <= | 2.119 | 0.023 | 0.000 | 5.261 | 0.000 | 12.99 | 13.08 |
| 13.13 | 117.91 | 0.77 | 32.12 | 0.88 | 2.74% | 2.807 | 0.75 | 46.94 | 2.49 | 2.71 | 114 | 0.218 | 0.97 | 0.098 | 0.437 | | 0.50 | **0.69** | <= | 2.075 | 0.012 | 0.000 | 5.238 | 0.000 | 13.08 | 13.13 |
| 13.21 | 117.71 | 0.77 | 27.26 | 0.91 | 3.34% | 3.435 | 0.79 | 39.53 | 2.60 | 3.31 | 119 | 0.237 | 0.97 | 0.100 | 0.439 | | 0.54 | **0.74** | <= | 2.003 | 0.019 | 0.000 | 5.226 | 0.000 | 13.13 | 13.21 |
| 13.26 | 117.43 | 0.77 | 25.11 | 0.90 | 3.58% | 3.698 | 0.80 | 36.24 | 2.64 | 3.61 | 120 | 0.241 | 0.97 | 0.102 | 0.439 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.207 | 0.000 | | |
| 13.33 | 117.19 | 0.78 | 23.75 | 0.89 | 3.75% | 3.874 | 0.81 | 34.11 | 2.68 | 3.83 | 126 | 0.267 | 0.97 | 0.104 | 0.440 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.207 | 0.000 | | |
| 13.39 | 117.16 | 0.78 | 23.46 | 0.89 | 3.79% | 3.924 | 0.81 | 33.59 | 2.68 | 3.88 | 128 | 0.276 | 0.97 | 0.106 | 0.441 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.207 | 0.000 | | |
| 13.49 | 117.13 | 0.79 | 21.71 | 0.91 | 4.19% | 4.349 | 0.83 | 30.87 | 2.74 | 4.29 | 142 | 0.344 | 0.97 | 0.109 | 0.443 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.207 | 0.000 | | |
| 13.53 | 117.14 | 0.79 | 21.71 | 0.91 | 4.19% | 4.350 | 0.83 | 30.82 | 2.74 | 4.29 | 142 | 0.344 | 0.97 | 0.110 | 0.443 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.207 | 0.000 | | |
| 13.61 | 117.42 | 0.79 | 21.71 | 0.94 | 4.33% | 4.494 | 0.83 | 30.71 | 2.75 | 4.37 | 144 | 0.359 | 0.97 | 0.113 | 0.444 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.207 | 0.000 | | |
| 13.66 | 118.03 | 0.80 | 22.00 | 1.02 | 4.64% | 4.811 | 0.84 | 31.07 | 2.77 | 4.50 | 148 | 0.384 | 0.97 | 0.114 | 0.445 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.207 | 0.000 | | |
| 13.72 | 117.52 | 0.80 | 22.19 | 0.95 | 4.28% | 4.441 | 0.83 | 31.26 | 2.74 | 4.30 | 142 | 0.346 | 0.97 | 0.116 | 0.446 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.207 | 0.000 | | |
| 13.80 | 117.09 | 0.80 | 23.85 | 0.87 | 3.65% | 3.775 | 0.81 | 33.58 | 2.67 | 3.80 | 125 | 0.264 | 0.97 | 0.119 | 0.447 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.207 | 0.000 | | |
| 13.86 | 117.66 | 0.81 | 35.72 | 0.83 | 2.32% | 2.377 | 0.73 | 50.74 | 2.42 | 2.38 | 108 | 0.197 | 0.97 | 0.120 | 0.448 | | 0.44 | **0.61** | <= | 2.169 | 0.016 | 0.000 | 5.207 | 0.000 | 13.80 | 13.86 |
| 13.93 | 115.19 | 0.81 | 51.30 | 0.52 | 1.01% | 1.030 | 0.63 | 73.19 | 2.08 | 1.41 | 89 | 0.145 | 0.97 | 0.123 | 0.449 | | 0.32 | **0.45** | <= | 2.535 | 0.021 | 0.000 | 5.191 | 0.000 | 13.86 | 13.93 |
| 14.02 | 113.71 | 0.82 | 88.77 | 0.36 | 0.41% | 0.409 | 0.51 | 127.07 | 1.67 | 1.02 | 106 | 0.191 | 0.97 | 0.125 | 0.450 | | 0.43 | **0.59** | <= | 2.198 | 0.024 | 0.000 | 5.170 | 0.000 | 13.93 | 14.02 |
| 14.05 | 114.90 | 0.82 | 104.15 | 0.40 | 0.38% | 0.387 | 0.50 | 149.12 | 1.60 | 1.00 | 122 | 0.248 | 0.97 | 0.126 | 0.450 | | 0.55 | **0.76** | <= | 1.709 | 0.006 | 0.000 | 5.146 | 0.000 | 14.02 | 14.05 |
| 14.11 | 116.52 | 0.82 | 123.04 | 0.47 | 0.38% | 0.385 | 0.50 | 175.96 | 1.54 | 1.00 | 144 | 0.357 | 0.97 | 0.128 | 0.451 | | 0.79 | **1.09** | <= | 0.604 | 0.004 | 0.000 | 5.140 | 0.000 | 14.05 | 14.11 |
| 14.20 | 118.00 | 0.83 | 138.71 | 0.55 | 0.40% | 0.399 | 0.50 | 197.80 | 1.50 | 1.00 | 162 | 0.475 | 0.97 | 0.131 | 0.452 | | 1.05 | **1.45** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.24 | 118.62 | 0.83 | 145.62 | 0.59 | 0.41% | 0.407 | 0.50 | 207.38 | 1.49 | 1.00 | 170 | 0.536 | 0.97 | 0.132 | 0.453 | | 1.18 | **1.63** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.32 | 119.55 | 0.84 | 146.30 | 0.67 | 0.46% | 0.461 | 0.50 | 207.66 | 1.52 | 1.00 | 170 | 0.540 | 0.97 | 0.135 | 0.454 | | 1.19 | **1.64** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.37 | 120.22 | 0.84 | 158.28 | 0.71 | 0.45% | 0.451 | 0.50 | 224.30 | 1.49 | 1.00 | 184 | 0.662 | 0.97 | 0.136 | 0.454 | | 1.46 | **2.00** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.45 | 121.55 | 0.84 | 172.19 | 0.83 | 0.48% | 0.484 | 0.50 | 243.29 | 1.48 | 1.00 | 200 | 0.824 | 0.97 | 0.139 | 0.455 | | 1.81 | **2.49** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.51 | 122.49 | 0.85 | 181.93 | 0.93 | 0.51% | 0.514 | 0.50 | 256.46 | 1.48 | 1.00 | 200 | 0.824 | 0.97 | 0.141 | 0.456 | | 1.81 | **2.49** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.57 | 123.41 | 0.85 | 192.54 | 1.03 | 0.53% | 0.537 | 0.50 | 270.78 | 1.47 | 1.00 | 200 | 0.824 | 0.97 | 0.143 | 0.457 | | 1.80 | **2.48** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.64 | 124.14 | 0.85 | 200.42 | 1.12 | 0.56% | 0.561 | 0.50 | 281.04 | 1.47 | 1.00 | 200 | 0.824 | 0.97 | 0.145 | 0.458 | | 1.80 | **2.48** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.73 | 124.84 | 0.86 | 202.86 | 1.23 | 0.61% | 0.609 | 0.50 | 283.35 | 1.49 | 1.00 | 200 | 0.824 | 0.97 | 0.148 | 0.459 | | 1.80 | **2.47** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.77 | 125.08 | 0.86 | 204.61 | 1.27 | 0.62% | 0.623 | 0.50 | 285.30 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.149 | 0.459 | | 1.79 | **2.47** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.85 | 125.34 | 0.87 | 210.16 | 1.31 | 0.62% | 0.626 | 0.50 | 292.03 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.151 | 0.460 | | 1.79 | **2.46** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.91 | 125.47 | 0.87 | 213.18 | 1.32 | 0.62% | 0.622 | 0.50 | 295.46 | 1.48 | 1.00 | 200 | 0.824 | 0.96 | 0.153 | 0.461 | | 1.79 | **2.46** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 14.99 | 125.73 | 0.88 | 214.15 | 1.37 | 0.64% | 0.642 | 0.50 | 295.76 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.156 | 0.462 | | 1.78 | **2.45** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.04 | 125.85 | 0.88 | 215.80 | 1.39 | 0.64% | 0.647 | 0.50 | 297.39 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.157 | 0.463 | | 1.78 | **2.45** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.11 | 126.09 | 0.88 | 214.64 | 1.43 | 0.67% | 0.669 | 0.50 | 294.87 | 1.50 | 1.00 | 200 | 0.824 | 0.96 | 0.159 | 0.463 | | 1.78 | **2.45** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.16 | 126.39 | 0.89 | 214.25 | 1.50 | 0.70% | 0.703 | 0.50 | 293.68 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.161 | 0.464 | | 1.78 | **2.44** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.26 | 127.23 | 0.89 | 212.20 | 1.68 | 0.79% | 0.795 | 0.50 | 289.56 | 1.56 | 1.00 | 200 | 0.824 | 0.96 | 0.164 | 0.465 | | 1.77 | **2.44** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.31 | 127.53 | 0.90 | 211.42 | 1.76 | 0.83% | 0.836 | 0.50 | 287.84 | 1.58 | 1.00 | 200 | 0.824 | 0.96 | 0.166 | 0.466 | | 1.77 | **2.44** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.37 | 128.01 | 0.90 | 211.23 | 1.87 | 0.89% | 0.889 | 0.50 | 286.81 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.168 | 0.466 | | 1.77 | **2.43** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.45 | 128.62 | 0.91 | 213.47 | 2.03 | 0.95% | 0.955 | 0.50 | 288.81 | 1.62 | 1.00 | 200 | 0.824 | 0.96 | 0.170 | 0.467 | | 1.76 | **2.43** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.52 | 129.27 | 0.91 | 215.51 | 2.21 | 1.03% | 1.030 | 0.50 | 290.65 | 1.64 | 1.00 | 200 | 0.824 | 0.96 | 0.172 | 0.468 | | 1.76 | **2.42** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.57 | 129.81 | 0.91 | 218.63 | 2.37 | 1.08% | 1.089 | 0.50 | 294.20 | 1.65 | 1.01 | 201 | 0.837 | 0.96 | 0.174 | 0.468 | | 1.79 | **2.46** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.62 | 130.16 | 0.92 | 221.35 | 2.48 | 1.12% | 1.125 | 0.51 | 297.19 | 1.66 | 1.01 | 202 | 0.849 | 0.96 | 0.175 | 0.469 | | 1.81 | **2.49** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.71 | 130.43 | 0.92 | 222.71 | 2.56 | 1.15% | 1.154 | 0.51 | 297.79 | 1.67 | 1.02 | 203 | 0.861 | 0.96 | 0.178 | 0.470 | | 1.83 | **2.52** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.76 | 130.58 | 0.93 | 226.22 | 2.60 | 1.15% | 1.154 | 0.51 | 301.81 | 1.66 | 1.01 | 203 | 0.855 | 0.96 | 0.180 | 0.470 | | 1.82 | **2.50** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.82 | 130.50 | 0.93 | 229.33 | 2.56 | 1.12% | 1.121 | 0.50 | 305.13 | 1.65 | 1.00 | 201 | 0.834 | 0.96 | 0.182 | 0.471 | | 1.77 | **2.44** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.88 | 130.32 | 0.93 | 232.64 | 2.49 | 1.07% | 1.075 | 0.50 | 308.71 | 1.63 | 1.00 | 200 | 0.824 | 0.96 | 0.183 | 0.472 | | 1.75 | **2.40** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 15.95 | 130.09 | 0.94 | 236.73 | 2.40 | 1.01% | 1.018 | 0.50 | 313.16 | 1.61 | 1.00 | 200 | 0.824 | 0.96 | 0.186 | 0.472 | | 1.74 | **2.40** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.03 | 129.71 | 0.94 | 239.36 | 2.27 | 0.95% | 0.952 | 0.50 | 315.52 | 1.59 | 1.00 | 200 | 0.824 | 0.96 | 0.188 | 0.473 | | 1.74 | **2.40** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.11 | 127.65 | 0.95 | 241.70 | 1.71 | 0.71% | 0.710 | 0.50 | 317.52 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.191 | 0.474 | | 1.74 | **2.39** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.14 | 126.66 | 0.95 | 243.06 | 1.49 | 0.61% | 0.615 | 0.50 | 318.90 | 1.45 | 1.00 | 200 | 0.824 | 0.96 | 0.192 | 0.474 | | 1.74 | **2.39** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.22 | 126.70 | 0.96 | 245.01 | 1.49 | 0.61% | 0.611 | 0.50 | 320.38 | 1.44 | 1.00 | 200 | 0.824 | 0.96 | 0.194 | 0.475 | | 1.73 | **2.39** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.29 | 126.92 | 0.96 | 245.98 | 1.54 | 0.63% | 0.629 | 0.50 | 320.69 | 1.45 | 1.00 | 200 | 0.824 | 0.96 | 0.196 | 0.476 | | 1.73 | **2.38** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.34 | 127.11 | 0.96 | 245.78 | 1.58 | 0.64% | 0.645 | 0.50 | 319.75 | 1.46 | 1.00 | 200 | 0.824 | 0.96 | 0.198 | 0.476 | | 1.73 | **2.38** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.41 | 127.03 | 0.97 | 230.31 | 1.59 | 0.69% | 0.693 | 0.50 | 298.66 | 1.50 | 1.00 | 200 | 0.824 | 0.96 | 0.200 | 0.477 | | 1.73 | **2.38** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.48 | 127.12 | 0.97 | 235.27 | 1.60 | 0.68% | 0.683 | 0.50 | 304.21 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.202 | 0.478 | | 1.72 | **2.37** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.55 | 127.28 | 0.98 | 237.12 | 1.63 | 0.69% | 0.690 | 0.50 | 305.71 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.204 | 0.479 | | 1.72 | **2.37** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.61 | 127.46 | 0.98 | 237.02 | 1.67 | 0.70% | 0.708 | 0.50 | 304.80 | 1.50 | 1.00 | 200 | 0.824 | 0.96 | 0.206 | 0.479 | | 1.72 | **2.37** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.68 | 127.64 | 0.99 | 236.05 | 1.72 | 0.73% | 0.732 | 0.50 | 302.65 | 1.51 | 1.00 | 200 | 0.824 | 0.96 | 0.208 | 0.480 | | 1.72 | **2.36** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.73 | 127.80 | 0.99 | 236.54 | 1.75 | 0.74% | 0.743 | 0.50 | 302.64 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.210 | 0.480 | | 1.72 | **2.36** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.80 | 127.95 | 0.99 | 238.97 | 1.79 | 0.75% | 0.752 | 0.50 | 304.86 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.212 | 0.481 | | 1.71 | **2.36** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.87 | 128.07 | 1.00 | 243.93 | 1.80 | 0.74% | 0.741 | 0.50 | 310.30 | 1.51 | 1.00 | 200 | 0.824 | 0.96 | 0.214 | 0.482 | | 1.71 | **2.35** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 16.93 | 128.19 | 1.00 | 249.78 | 1.82 | 0.73% | 0.732 | 0.50 | 316.96 | 1.50 | 1.00 | 200 | 0.824 | 0.96 | 0.216 | 0.482 | | 1.71 | **2.35** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.00 | 128.35 | 1.01 | 255.52 | 1.84 | 0.72% | 0.723 | 0.50 | 323.32 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.218 | 0.483 | | 1.71 | **2.35** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.08 | 128.60 | 1.01 | 261.46 | 1.89 | 0.72% | 0.726 | 0.50 | 329.75 | 1.48 | 1.00 | 200 | 0.824 | 0.96 | 0.221 | 0.484 | | 1.70 | **2.34** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.13 | 128.74 | 1.01 | 263.21 | 1.93 | 0.73% | 0.736 | 0.50 | 331.27 | 1.48 | 1.00 | 200 | 0.824 | 0.96 | 0.222 | 0.484 | | 1.70 | **2.34** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.21 | 128.86 | 1.02 | 264.77 | 1.95 | 0.74% | 0.739 | 0.50 | 332.12 | 1.48 | 1.00 | 200 | 0.824 | 0.96 | 0.225 | 0.485 | | 1.70 | **2.34** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.27 | 128.91 | 1.02 | 264.38 | 1.97 | 0.75% | 0.748 | 0.50 | 330.79 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.227 | 0.485 | | 1.70 | **2.34** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.34 | 128.95 | 1.03 | 264.08 | 1.98 | 0.75% | 0.753 | 0.50 | 329.44 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.229 | 0.486 | | 1.70 | **2.33** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.40 | 129.08 | 1.03 | 263.79 | 2.01 | 0.76% | 0.765 | 0.50 | 328.25 | 1.50 | 1.00 | 200 | 0.824 | 0.96 | 0.231 | 0.487 | | 1.69 | **2.33** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.48 | 129.29 | 1.04 | 263.21 | 2.08 | 0.79% | 0.793 | 0.50 | 326.43 | 1.51 | 1.00 | 200 | 0.824 | 0.96 | 0.233 | 0.487 | | 1.69 | **2.33** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.53 | 129.31 | 1.04 | 262.72 | 2.08 | 0.79% | 0.795 | 0.50 | 325.14 | 1.51 | 1.00 | 200 | 0.824 | 0.96 | 0.235 | 0.488 | | 1.69 | **2.32** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.60 | 129.24 | 1.04 | 260.39 | 2.07 | 0.79% | 0.798 | 0.50 | 321.30 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.237 | 0.488 | | 1.69 | **2.32** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.67 | 129.25 | 1.05 | 261.07 | 2.07 | 0.79% | 0.796 | 0.50 | 321.21 | 1.51 | 1.00 | 200 | 0.824 | 0.96 | 0.239 | 0.489 | | 1.69 | **2.32** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.74 | 129.26 | 1.05 | 258.92 | 2.08 | 0.80% | 0.807 | 0.50 | 317.63 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.241 | 0.490 | | 1.68 | **2.32** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.80 | 129.35 | 1.06 | 256.78 | 2.11 | 0.82% | 0.825 | 0.50 | 314.21 | 1.53 | 1.00 | 200 | 0.824 | 0.96 | 0.243 | 0.490 | | 1.68 | **2.31** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.86 | 129.45 | 1.06 | 255.81 | 2.14 | 0.84% | 0.840 | 0.50 | 312.24 | 1.54 | 1.00 | 200 | 0.824 | 0.96 | 0.245 | 0.491 | | 1.68 | **2.31** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.94 | 129.47 | 1.07 | 252.21 | 2.16 | 0.86% | 0.860 | 0.50 | 306.82 | 1.55 | 1.00 | 200 | 0.824 | 0.96 | 0.248 | 0.491 | | 1.68 | **2.31** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 17.98 | 129.45 | 1.07 | 249.19 | 2.16 | 0.87% | 0.871 | 0.50 | 302.63 | 1.56 | 1.00 | 200 | 0.824 | 0.96 | 0.249 | 0.492 | | 1.68 | **2.31** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.05 | 129.38 | 1.07 | 241.70 | 2.16 | 0.89% | 0.898 | 0.50 | 292.65 | 1.58 | 1.00 | 200 | 0.824 | 0.96 | 0.251 | 0.492 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.12 | 129.27 | 1.08 | 234.40 | 2.15 | 0.92% | 0.921 | 0.50 | 282.96 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.253 | 0.493 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.19 | 129.05 | 1.08 | 227.58 | 2.11 | 0.93% | 0.932 | 0.50 | 273.91 | 1.61 | 1.00 | 200 | 0.824 | 0.96 | 0.256 | 0.493 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.25 | 128.70 | 1.09 | 221.55 | 2.03 | 0.92% | 0.921 | 0.50 | 265.97 | 1.61 | 1.00 | 200 | 0.824 | 0.96 | 0.257 | 0.494 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.34 | 128.13 | 1.09 | 212.79 | 1.90 | 0.89% | 0.898 | 0.50 | 254.49 | 1.62 | 1.00 | 200 | 0.824 | 0.96 | 0.260 | 0.495 | | 1.67 | **2.29** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.39 | 127.80 | 1.10 | 204.90 | 1.84 | 0.90% | 0.903 | 0.50 | 244.52 | 1.63 | 1.00 | 200 | 0.824 | 0.96 | 0.262 | 0.495 | | 1.66 | **2.29** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.46 | 127.41 | 1.10 | 194.87 | 1.78 | 0.91% | 0.919 | 0.50 | 231.85 | 1.65 | 1.00 | 201 | 0.834 | 0.96 | 0.264 | 0.496 | | 1.68 | **2.31** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.51 | 127.17 | 1.10 | 187.48 | 1.74 | 0.93% | 0.934 | 0.51 | 222.57 | 1.67 | 1.02 | 203 | 0.860 | 0.96 | 0.266 | 0.496 | | 1.73 | **2.39** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.61 | 126.88 | 1.11 | 167.33 | 1.74 | 1.04% | 1.047 | 0.53 | 197.74 | 1.74 | 1.06 | 190 | 0.720 | 0.96 | 0.269 | 0.497 | | 1.45 | **1.99** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.65 | 127.24 | 1.11 | 159.15 | 1.85 | 1.16% | 1.171 | 0.54 | 187.72 | 1.79 | 1.10 | 187 | 0.689 | 0.96 | 0.270 | 0.497 | | 1.39 | **1.91** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.71 | 126.70 | 1.12 | 150.10 | 1.76 | 1.17% | 1.181 | 0.55 | 176.56 | 1.81 | 1.11 | 179 | 0.611 | 0.96 | 0.272 | 0.498 | | 1.23 | **1.69** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.78 | 125.26 | 1.12 | 142.90 | 1.47 | 1.03% | 1.037 | 0.54 | 167.58 | 1.78 | 1.10 | 167 | 0.513 | 0.96 | 0.274 | 0.498 | | 1.03 | **1.42** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.86 | 125.83 | 1.13 | 138.71 | 1.60 | 1.15% | 1.163 | 0.56 | 162.14 | 1.83 | 1.13 | 167 | 0.513 | 0.96 | 0.276 | 0.499 | | 1.03 | **1.42** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.92 | 126.40 | 1.13 | 139.29 | 1.73 | 1.24% | 1.252 | 0.56 | 162.45 | 1.85 | 1.14 | 170 | 0.539 | 0.96 | 0.278 | 0.499 | | 1.08 | **1.49** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 18.96 | 126.91 | 1.13 | 141.83 | 1.84 | 1.30% | 1.308 | 0.57 | 165.18 | 1.86 | 1.15 | 174 | 0.573 | 0.96 | 0.280 | 0.500 | | 1.15 | **1.58** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.03 | 127.31 | 1.14 | 128.78 | 2.01 | 1.56% | 1.575 | 0.59 | 149.46 | 1.94 | 1.23 | 170 | 0.537 | 0.95 | 0.282 | 0.500 | | 1.07 | **1.48** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.11 | 128.26 | 1.14 | 147.96 | 2.19 | 1.48% | 1.492 | 0.57 | 171.38 | 1.89 | 1.18 | 186 | 0.675 | 0.95 | 0.284 | 0.501 | | 1.35 | **1.86** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.17 | 128.72 | 1.14 | 150.59 | 2.31 | 1.53% | 1.546 | 0.58 | 174.04 | 1.89 | 1.18 | 190 | 0.716 | 0.95 | 0.286 | 0.501 | | 1.43 | **1.96** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.23 | 129.19 | 1.15 | 152.24 | 2.46 | 1.62% | 1.628 | 0.58 | 175.55 | 1.91 | 1.20 | 194 | 0.758 | 0.95 | 0.288 | 0.502 | | 1.51 | **2.08** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.30 | 129.56 | 1.15 | 153.02 | 2.58 | 1.69% | 1.699 | 0.58 | 175.97 | 1.92 | 1.21 | 197 | 0.788 | 0.95 | 0.290 | 0.502 | | 1.57 | **2.16** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.36 | 129.78 | 1.16 | 152.82 | 2.66 | 1.74% | 1.754 | 0.59 | 175.32 | 1.93 | 1.22 | 198 | 0.804 | 0.95 | 0.292 | 0.503 | | 1.60 | **2.20** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.45 | 129.75 | 1.16 | 151.85 | 2.65 | 1.75% | 1.759 | 0.59 | 173.59 | 1.93 | 1.22 | 197 | 0.792 | 0.95 | 0.295 | 0.503 | | 1.57 | **2.16** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.49 | 129.67 | 1.17 | 150.39 | 2.64 | 1.76% | 1.769 | 0.59 | 171.64 | 1.94 | 1.23 | 196 | 0.779 | 0.95 | 0.296 | 0.504 | | 1.55 | **2.13** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.58 | 129.45 | 1.17 | 147.18 | 2.57 | 1.75% | 1.760 | 0.59 | 167.36 | 1.94 | 1.23 | 192 | 0.740 | 0.95 | 0.299 | 0.504 | | 1.47 | **2.02** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.63 | 129.36 | 1.17 | 145.23 | 2.56 | 1.76% | 1.777 | 0.59 | 164.80 | 1.95 | 1.24 | 191 | 0.724 | 0.95 | 0.300 | 0.505 | | 1.44 | **1.97** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.71 | 127.82 | 1.18 | 143.38 | 2.08 | 1.45% | 1.463 | 0.58 | 162.19 | 1.89 | 1.18 | 178 | 0.609 | 0.95 | 0.303 | 0.505 | | 1.20 | **1.66** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.76 | 125.76 | 1.18 | 144.26 | 1.57 | 1.09% | 1.097 | 0.55 | 162.90 | 1.80 | 1.11 | 168 | 0.517 | 0.95 | 0.305 | 0.506 | | 1.02 | **1.41** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.84 | 126.24 | 1.19 | 146.21 | 1.67 | 1.14% | 1.152 | 0.55 | 164.63 | 1.82 | 1.12 | 171 | 0.544 | 0.95 | 0.307 | 0.506 | | 1.07 | **1.48** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.89 | 126.67 | 1.19 | 147.47 | 1.76 | 1.19% | 1.203 | 0.56 | 165.76 | 1.83 | 1.13 | 174 | 0.566 | 0.95 | 0.309 | 0.507 | | 1.12 | **1.54** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 19.95 | 126.89 | 1.19 | 145.62 | 1.82 | 1.25% | 1.260 | 0.56 | 163.30 | 1.84 | 1.14 | 173 | 0.566 | 0.95 | 0.310 | 0.507 | | 1.12 | **1.53** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 20.03 | 127.07 | 1.20 | 143.09 | 1.88 | 1.31% | 1.325 | 0.57 | 159.97 | 1.87 | 1.16 | 173 | 0.561 | 0.95 | 0.313 | 0.508 | | 1.11 | **1.52** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 20.10 | 126.96 | 1.20 | 130.63 | 1.91 | 1.46% | 1.476 | 0.59 | 145.54 | 1.93 | 1.22 | 166 | 0.503 | 0.95 | 0.315 | 0.508 | | 0.99 | **1.36** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 20.16 | 126.96 | 1.21 | 128.29 | 1.92 | 1.50% | 1.511 | 0.59 | 142.60 | 1.94 | 1.23 | 164 | 0.494 | 0.95 | 0.317 | 0.508 | | 0.97 | **1.34** | | 0.000 | 0.000 | 0.000 | 5.136 | 0.000 | | |
| 20.22 | 126.89 | 1.21 | 122.55 | 1.93 | 1.57% | 1.591 | 0.60 | 135.86 | 1.97 | 1.26 | 161 | 0.471 | 0.95 | 0.319 | 0.509 | | 0.92 | **1.27** | <= | 0.263 | 0.002 | 0.000 | 5.136 | 0.000 | 20.16 | 20.22 |
| 20.30 | 126.87 | 1.22 | 118.85 | 1.94 | 1.63% | 1.649 | 0.61 | 131.33 | 1.99 | 1.29 | 159 | 0.457 | 0.95 | 0.321 | 0.509 | | 0.90 | **1.23** | <= | 0.233 | 0.002 | 0.000 | 5.134 | 0.000 | 20.22 | 20.30 |
| 20.34 | 126.82 | 1.22 | 116.71 | 1.94 | 1.66% | 1.680 | 0.61 | 128.75 | 2.00 | 1.30 | 158 | 0.449 | 0.95 | 0.323 | 0.510 | | 0.88 | **1.21** | <= | 0.215 | 0.001 | 0.000 | 5.131 | 0.000 | 20.30 | 20.34 |
| 20.43 | 126.64 | 1.23 | 111.45 | 1.92 | 1.72% | 1.742 | 0.62 | 122.49 | 2.03 | 1.34 | 155 | 0.426 | 0.95 | 0.325 | 0.510 | | 0.84 | **1.15** | <= | 0.354 | 0.004 | 0.000 | 5.130 | 0.000 | 20.34 | 20.43 |
| 20.47 | 126.51 | 1.23 | 109.31 | 1.90 | 1.74% | 1.758 | 0.62 | 119.93 | 2.04 | 1.35 | 153 | 0.416 | 0.95 | 0.327 | 0.511 | | 0.81 | **1.12** | <= | 0.321 | 0.002 | 0.000 | 5.127 | 0.000 | 20.43 | 20.47 |
| 20.55 | 126.22 | 1.23 | 105.13 | 1.85 | 1.76% | 1.781 | 0.62 | 114.97 | 2.05 | 1.38 | 150 | 0.394 | 0.95 | 0.329 | 0.511 | | 0.77 | **1.06** | <= | 0.532 | 0.005 | 0.000 | 5.125 | 0.000 | 20.47 | 20.55 |
| 20.61 | 125.97 | 1.24 | 101.62 | 1.81 | 1.78% | 1.803 | 0.63 | 110.84 | 2.07 | 1.40 | 147 | 0.377 | 0.95 | 0.331 | 0.512 | | 0.74 | **1.01** | <= | 0.454 | 0.003 | 0.000 | 5.120 | 0.000 | 20.55 | 20.61 |
| 20.68 | 125.62 | 1.24 | 96.27 | 1.76 | 1.83% | 1.852 | 0.64 | 104.68 | 2.09 | 1.44 | 144 | 0.355 | 0.95 | 0.333 | 0.512 | | 0.69 | **0.95** | <= | 0.780 | 0.007 | 0.000 | 5.117 | 0.000 | 20.61 | 20.68 |
| 20.73 | 125.40 | 1.24 | 92.67 | 1.73 | 1.87% | 1.892 | 0.64 | 100.53 | 2.11 | 1.48 | 141 | 0.343 | 0.95 | 0.335 | 0.512 | | 0.67 | **0.92** | <= | 0.695 | 0.004 | 0.000 | 5.110 | 0.000 | 20.68 | 20.73 |
| 20.81 | 124.34 | 1.25 | 87.90 | 1.52 | 1.73% | 1.754 | 0.64 | 95.02 | 2.11 | 1.46 | 133 | 0.297 | 0.95 | 0.337 | 0.513 | | 0.58 | **0.80** | <= | 1.824 | 0.018 | 0.000 | 5.106 | 0.000 | 20.73 | 20.81 |
| 20.88 | 122.11 | 1.25 | 85.17 | 1.13 | 1.33% | 1.347 | 0.62 | 91.81 | 2.04 | 1.35 | 118 | 0.234 | 0.95 | 0.339 | 0.513 | | 0.46 | **0.63** | <= | 2.013 | 0.017 | 0.000 | 5.088 | 0.000 | 20.81 | 20.88 |
| 20.93 | 122.61 | 1.26 | 86.34 | 1.21 | 1.40% | 1.422 | 0.62 | 92.94 | 2.05 | 1.37 | 121 | 0.247 | 0.95 | 0.341 | 0.514 | | 0.48 | **0.66** | <= | 1.972 | 0.012 | 0.000 | 5.071 | 0.000 | 20.88 | 20.93 |
| 21.01 | 123.31 | 1.26 | 91.01 | 1.31 | 1.44% | 1.460 | 0.62 | 97.77 | 2.04 | 1.36 | 127 | 0.269 | 0.95 | 0.344 | 0.514 | | 0.52 | **0.72** | <= | 1.532 | 0.015 | 0.000 | 5.060 | 0.000 | 20.93 | 21.01 |
| 21.10 | 123.89 | 1.27 | 96.37 | 1.39 | 1.44% | 1.462 | 0.62 | 103.29 | 2.02 | 1.33 | 131 | 0.291 | 0.95 | 0.346 | 0.515 | | 0.56 | **0.78** | <= | 1.740 | 0.019 | 0.000 | 5.045 | 0.000 | 21.01 | 21.10 |
| 21.13 | 123.86 | 1.27 | 90.62 | 1.41 | 1.56% | 1.578 | 0.63 | 96.95 | 2.07 | 1.40 | 129 | 0.282 | 0.95 | 0.347 | 0.515 | | 0.55 | **0.75** | <= | 1.649 | 0.006 | 0.000 | 5.026 | 0.000 | 21.10 | 21.13 |
| 21.21 | 124.05 | 1.27 | 93.35 | 1.43 | 1.53% | 1.553 | 0.62 | 99.64 | 2.05 | 1.38 | 131 | 0.290 | 0.95 | 0.350 | 0.516 | | 0.56 | **0.77** | <= | 1.721 | 0.017 | 0.000 | 5.020 | 0.000 | 21.13 | 21.21 |
| 21.27 | 123.93 | 1.28 | 92.38 | 1.42 | 1.54% | 1.559 | 0.63 | 98.39 | 2.06 | 1.38 | 130 | 0.286 | 0.95 | 0.352 | 0.516 | | 0.55 | **0.76** | <= | 1.679 | 0.012 | 0.000 | 5.004 | 0.000 | 21.21 | 21.27 |
| 21.33 | 123.76 | 1.28 | 91.40 | 1.39 | 1.52% | 1.542 | 0.63 | 97.13 | 2.06 | 1.38 | 129 | 0.279 | 0.95 | 0.353 | 0.516 | | 0.54 | **0.74** | <= | 1.609 | 0.012 | 0.000 | 4.992 | 0.000 | 21.27 | 21.33 |
| 21.40 | 123.69 | 1.29 | 91.11 | 1.38 | 1.51% | 1.536 | 0.63 | 96.59 | 2.06 | 1.38 | 128 | 0.276 | 0.95 | 0.356 | 0.517 | | 0.53 | **0.74** | <= | 1.582 | 0.013 | 0.000 | 4.980 | 0.000 | 21.33 | 21.40 |
| 21.47 | 123.57 | 1.29 | 89.07 | 1.36 | 1.53% | 1.549 | 0.63 | 94.18 | 2.07 | 1.40 | 127 | 0.269 | 0.95 | 0.358 | 0.517 | | 0.52 | **0.72** | <= | 1.514 | 0.013 | 0.000 | 4.967 | 0.000 | 21.40 | 21.47 |
| 21.53 | 123.50 | 1.29 | 87.51 | 1.36 | 1.55% | 1.577 | 0.63 | 92.32 | 2.08 | 1.42 | 126 | 0.266 | 0.95 | 0.360 | 0.518 | | 0.51 | **0.71** | <= | 1.485 | 0.011 | 0.000 | 4.954 | 0.000 | 21.47 | 21.53 |
| 21.60 | 123.22 | 1.30 | 82.64 | 1.33 | 1.61% | 1.635 | 0.64 | 86.90 | 2.11 | 1.47 | 123 | 0.254 | 0.95 | 0.362 | 0.518 | | 0.49 | **0.67** | <= | 1.950 | 0.016 | 0.000 | 4.943 | 0.000 | 21.53 | 21.60 |
| 21.66 | 122.91 | 1.30 | 78.07 | 1.30 | 1.67% | 1.693 | 0.65 | 81.86 | 2.14 | 1.53 | 121 | 0.243 | 0.95 | 0.364 | 0.519 | | 0.47 | **0.65** | <= | 1.982 | 0.014 | 0.000 | 4.927 | 0.000 | 21.60 | 21.66 |
| 21.73 | 122.63 | 1.31 | 71.84 | 1.29 | 1.80% | 1.829 | 0.66 | 75.04 | 2.19 | 1.64 | 119 | 0.236 | 0.95 | 0.366 | 0.519 | | 0.45 | **0.63** | <= | 2.007 | 0.017 | 0.000 | 4.913 | 0.000 | 21.66 | 21.73 |
| 21.80 | 122.51 | 1.31 | 67.46 | 1.30 | 1.93% | 1.965 | 0.68 | 70.22 | 2.23 | 1.74 | 119 | 0.235 | 0.95 | 0.368 | 0.520 | | 0.45 | **0.62** | <= | 2.011 | 0.017 | 0.000 | 4.896 | 0.000 | 21.73 | 21.80 |
| 21.85 | 122.33 | 1.31 | 62.78 | 1.29 | 2.05% | 2.099 | 0.69 | 65.14 | 2.27 | 1.86 | 118 | 0.232 | 0.95 | 0.370 | 0.520 | | 0.45 | **0.61** | <= | 2.022 | 0.012 | 0.000 | 4.879 | 0.000 | 21.80 | 21.85 |
| 21.93 | 122.27 | 1.32 | 59.09 | 1.31 | 2.22% | 2.268 | 0.70 | 61.07 | 2.32 | 2.00 | 119 | 0.235 | 0.95 | 0.372 | 0.520 | | 0.45 | **0.62** | <= | 2.009 | 0.019 | 0.000 | 4.867 | 0.000 | 21.85 | 21.93 |
| 22.00 | 122.33 | 1.32 | 55.00 | 1.35 | 2.45% | 2.515 | 0.72 | 56.62 | 2.37 | 2.19 | 121 | 0.244 | 0.95 | 0.374 | 0.521 | | 0.47 | **0.65** | <= | 1.980 | 0.017 | 0.000 | 4.847 | 0.000 | 21.93 | 22.00 |
| 22.07 | 122.46 | 1.33 | 52.95 | 1.39 | 2.63% | 2.693 | 0.73 | 54.33 | 2.40 | 2.32 | 123 | 0.253 | 0.95 | 0.377 | 0.521 | | 0.49 | **0.67** | <= | 1.951 | 0.016 | 0.000 | 4.831 | 0.000 | 22.00 | 22.07 |
| 22.14 | 122.40 | 1.33 | 49.94 | 1.41 | 2.82% | 2.901 | 0.74 | 51.05 | 2.44 | 2.50 | 125 | 0.260 | 0.95 | 0.379 | 0.522 | | 0.50 | **0.69** | <= | 1.931 | 0.016 | 0.000 | 4.814 | 0.000 | 22.07 | 22.14 |
| 22.18 | 122.26 | 1.33 | 47.89 | 1.40 | 2.92% | 3.007 | 0.75 | 48.83 | 2.47 | 2.61 | 125 | 0.261 | 0.95 | 0.380 | 0.522 | | 0.50 | **0.69** | <= | 1.930 | 0.009 | 0.000 | 4.798 | 0.000 | 22.14 | 22.18 |
| 22.25 | 121.67 | 1.34 | 40.98 | 1.36 | 3.32% | 3.431 | 0.78 | 41.49 | 2.56 | 3.08 | 125 | 0.263 | 0.95 | 0.382 | 0.522 | | 0.50 | **0.69** | <= | 1.923 | 0.016 | 0.000 | 4.789 | 0.000 | 22.18 | 22.25 |
| 22.33 | 120.53 | 1.34 | 32.71 | 1.26 | 3.85% | 4.017 | 0.81 | 32.75 | 2.68 | 3.84 | 127 | 0.270 | 0.95 | 0.385 | 0.523 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.773 | 0.000 | | |
| 22.38 | 119.92 | 1.35 | 28.81 | 1.21 | 4.20% | 4.406 | 0.83 | 28.63 | 2.75 | 4.36 | 144 | 0.357 | 0.95 | 0.386 | 0.523 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.773 | 0.000 | | |
| 22.44 | 119.13 | 1.35 | 23.95 | 1.15 | 4.80% | 5.088 | 0.86 | 23.52 | 2.85 | 5.25 | 173 | 0.562 | 0.95 | 0.388 | 0.524 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.773 | 0.000 | | |
| 22.51 | 118.34 | 1.35 | 20.34 | 1.09 | 5.36% | 5.741 | 0.89 | 19.72 | 2.94 | 6.14 | 202 | 0.852 | 0.95 | 0.390 | 0.524 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.773 | 0.000 | | |
| 22.59 | 117.33 | 1.36 | 16.35 | 1.03 | 6.30% | 6.870 | 0.93 | 15.53 | 3.07 | 7.58 | 250 | 1.533 | 0.95 | 0.393 | 0.525 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.773 | 0.000 | | |
| 22.64 | 116.65 | 1.36 | 14.41 | 0.97 | 6.73% | 7.433 | 0.95 | 13.50 | 3.14 | 8.43 | 278 | 2.080 | 0.95 | 0.394 | 0.525 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.773 | 0.000 | | |
| 22.70 | 114.72 | 1.36 | 13.92 | 0.76 | 5.46% | 6.053 | 0.94 | 12.97 | 3.09 | 7.85 | 259 | 1.698 | 0.95 | 0.396 | 0.525 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.773 | 0.000 | | |
| 23.03 | 119.02 | 1.38 | 66.63 | 0.81 | 1.22% | 1.241 | 0.64 | 66.75 | 2.11 | 1.48 | 97 | 0.164 | 0.95 | 0.407 | 0.527 | | 0.31 | **0.43** | <= | 2.372 | 0.094 | 0.000 | 4.773 | 0.000 | 22.70 | 23.03 |
| 23.03 | 119.34 | 1.38 | 74.18 | 0.81 | 1.09% | 1.113 | 0.62 | 74.48 | 2.05 | 1.37 | 99 | 0.171 | 0.95 | 0.407 | 0.527 | | 0.32 | **0.45** | <= | 2.318 | 0.000 | 0.000 | 4.679 | 0.000 | 23.03 | 23.03 |
| 23.10 | 121.40 | 1.39 | 110.69 | 0.94 | 0.85% | 0.860 | 0.56 | 111.59 | 1.84 | 1.14 | 124 | 0.256 | 0.95 | 0.409 | 0.528 | | 0.48 | **0.67** | <= | 1.944 | 0.016 | 0.000 | 4.679 | 0.000 | 23.03 | 23.10 |
| 23.17 | 122.45 | 1.39 | 118.80 | 1.06 | 0.89% | 0.903 | 0.56 | 119.61 | 1.83 | 1.13 | 132 | 0.293 | 0.95 | 0.411 | 0.528 | | 0.55 | **0.76** | <= | 1.541 | 0.013 | 0.000 | 4.663 | 0.000 | 23.10 | 23.17 |
| 23.24 | 123.11 | 1.40 | 119.19 | 1.16 | 0.97% | 0.985 | 0.56 | 119.75 | 1.85 | 1.15 | 134 | 0.305 | 0.94 | 0.413 | 0.529 | | 0.58 | **0.79** | <= | 1.590 | 0.013 | 0.000 | 4.650 | 0.000 | 23.17 | 23.24 |
| 23.30 | 123.61 | 1.40 | 116.46 | 1.25 | 1.07% | 1.086 | 0.58 | 116.75 | 1.89 | 1.18 | 135 | 0.307 | 0.94 | 0.415 | 0.529 | | 0.58 | **0.80** | <= | 1.597 | 0.011 | 0.000 | 4.636 | 0.000 | 23.24 | 23.30 |
| 23.37 | 124.22 | 1.40 | 114.50 | 1.37 | 1.20% | 1.211 | 0.59 | 114.50 | 1.93 | 1.22 | 136 | 0.316 | 0.94 | 0.417 | 0.529 | | 0.60 | **0.82** | <= | 1.041 | 0.009 | 0.000 | 4.625 | 0.000 | 23.30 | 23.37 |
| 23.44 | 124.72 | 1.41 | 112.35 | 1.48 | 1.32% | 1.334 | 0.60 | 112.08 | 1.96 | 1.25 | 138 | 0.323 | 0.94 | 0.419 | 0.530 | | 0.61 | **0.84** | <= | 1.085 | 0.009 | 0.000 | 4.616 | 0.000 | 23.37 | 23.44 |
| 23.51 | 125.14 | 1.41 | 111.77 | 1.57 | 1.40% | 1.423 | 0.60 | 111.24 | 1.98 | 1.28 | 140 | 0.333 | 0.94 | 0.422 | 0.530 | | 0.63 | **0.87** | <= | 1.143 | 0.010 | 0.000 | 4.607 | 0.000 | 23.44 | 23.51 |
| 23.57 | 125.35 | 1.42 | 112.06 | 1.61 | 1.44% | 1.455 | 0.61 | 111.32 | 1.99 | 1.29 | 141 | 0.339 | 0.94 | 0.423 | 0.530 | | 0.64 | **0.88** | <= | 1.175 | 0.008 | 0.000 | 4.597 | 0.000 | 23.51 | 23.57 |
| 23.62 | 125.59 | 1.42 | 112.94 | 1.66 | 1.47% | 1.489 | 0.61 | 112.02 | 1.99 | 1.29 | 142 | 0.349 | 0.94 | 0.425 | 0.531 | | 0.66 | **0.90** | <= | 0.645 | 0.004 | 0.000 | 4.589 | 0.000 | 23.57 | 23.62 |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-1

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**Analysis Scenario:** MCE (2% exceedance probability in 50 years)

D(ft) 1 | **MAGNITUDE:** 6.62 | **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet | **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.70 | 125.98 | 1.43 | 115.38 | 1.74 | 1.51% | 1.527 | 0.61 | 114.17 | 2.00 | 1.30 | 146 | 0.367 | 0.94 | 0.427 | 0.531 | | 0.69 | 0.95 | <= | 0.753 | 0.007 | 0.000 | 4.585 | 0.000 | 23.62 | 23.70 |
| 23.78 | 126.18 | 1.43 | 116.65 | 1.78 | 1.53% | 1.545 | 0.61 | 115.15 | 2.00 | 1.30 | 147 | 0.375 | 0.94 | 0.430 | 0.531 | | 0.71 | 0.97 | <= | 0.801 | 0.008 | 0.000 | 4.578 | 0.000 | 23.70 | 23.78 |
| 23.82 | 126.29 | 1.43 | 118.51 | 1.80 | 1.52% | 1.537 | 0.61 | 116.85 | 1.99 | 1.29 | 148 | 0.384 | 0.94 | 0.431 | 0.532 | | 0.72 | 0.99 | <= | 0.843 | 0.004 | 0.000 | 4.570 | 0.000 | 23.78 | 23.82 |
| 23.89 | 126.19 | 1.44 | 120.17 | 1.77 | 1.47% | 1.491 | 0.60 | 118.24 | 1.98 | 1.27 | 148 | 0.383 | 0.94 | 0.433 | 0.532 | | 0.72 | 0.99 | <= | 0.840 | 0.007 | 0.000 | 4.566 | 0.000 | 23.82 | 23.89 |
| 23.96 | 125.93 | 1.44 | 122.12 | 1.69 | 1.38% | 1.400 | 0.59 | 119.91 | 1.95 | 1.24 | 147 | 0.377 | 0.94 | 0.436 | 0.532 | | 0.71 | 0.97 | <= | 0.804 | 0.007 | 0.000 | 4.559 | 0.000 | 23.89 | 23.96 |
| 24.04 | 125.60 | 1.45 | 126.51 | 1.60 | 1.26% | 1.279 | 0.58 | 123.96 | 1.92 | 1.20 | 147 | 0.378 | 0.94 | 0.438 | 0.533 | | 0.71 | 0.98 | <= | 0.808 | 0.008 | 0.000 | 4.552 | 0.000 | 23.96 | 24.04 |
| 24.09 | 125.38 | 1.45 | 129.64 | 1.54 | 1.19% | 1.201 | 0.57 | 126.86 | 1.89 | 1.18 | 148 | 0.380 | 0.94 | 0.440 | 0.533 | | 0.71 | 0.98 | <= | 0.819 | 0.005 | 0.000 | 4.544 | 0.000 | 24.04 | 24.09 |
| 24.17 | 124.97 | 1.46 | 135.40 | 1.44 | 1.06% | 1.075 | 0.56 | 132.23 | 1.84 | 1.14 | 149 | 0.388 | 0.94 | 0.442 | 0.533 | | 0.73 | 1.00 | <= | 0.855 | 0.008 | 0.000 | 4.540 | 0.000 | 24.09 | 24.17 |
| 24.23 | 124.74 | 1.46 | 138.33 | 1.38 | 1.00% | 1.008 | 0.55 | 134.87 | 1.82 | 1.12 | 149 | 0.390 | 0.94 | 0.444 | 0.534 | | 0.73 | 1.01 | <= | 0.435 | 0.003 | 0.000 | 4.531 | 0.000 | 24.17 | 24.23 |
| 24.29 | 124.44 | 1.46 | 140.87 | 1.32 | 0.94% | 0.947 | 0.55 | 137.12 | 1.79 | 1.10 | 150 | 0.392 | 0.94 | 0.446 | 0.534 | | 0.73 | 1.01 | <= | 0.440 | 0.003 | 0.000 | 4.528 | 0.000 | 24.23 | 24.29 |
| 24.34 | 124.35 | 1.47 | 140.77 | 1.30 | 0.92% | 0.933 | 0.55 | 136.81 | 1.79 | 1.10 | 149 | 0.388 | 0.94 | 0.447 | 0.534 | | 0.73 | 1.00 | <= | 0.852 | 0.005 | 0.000 | 4.525 | 0.000 | 24.29 | 24.34 |
| 24.44 | 124.18 | 1.47 | 138.13 | 1.28 | 0.93% | 0.937 | 0.55 | 133.80 | 1.80 | 1.11 | 147 | 0.374 | 0.94 | 0.451 | 0.535 | | 0.70 | 0.96 | <= | 0.776 | 0.009 | 0.000 | 4.520 | 0.000 | 24.34 | 24.44 |
| 24.49 | 124.26 | 1.47 | 136.67 | 1.30 | 0.95% | 0.962 | 0.55 | 132.17 | 1.81 | 1.11 | 146 | 0.370 | 0.94 | 0.452 | 0.535 | | 0.69 | 0.95 | <= | 0.755 | 0.005 | 0.000 | 4.511 | 0.000 | 24.44 | 24.49 |
| 24.55 | 124.44 | 1.48 | 131.00 | 1.35 | 1.03% | 1.042 | 0.56 | 126.39 | 1.85 | 1.14 | 144 | 0.355 | 0.94 | 0.454 | 0.535 | | 0.66 | 0.91 | <= | 0.663 | 0.005 | 0.000 | 4.506 | 0.000 | 24.49 | 24.55 |
| 24.62 | 124.75 | 1.48 | 123.00 | 1.44 | 1.17% | 1.185 | 0.58 | 118.33 | 1.91 | 1.19 | 141 | 0.338 | 0.94 | 0.456 | 0.536 | | 0.63 | 0.87 | <= | 1.142 | 0.010 | 0.000 | 4.501 | 0.000 | 24.55 | 24.62 |
| 24.67 | 124.95 | 1.49 | 114.80 | 1.51 | 1.32% | 1.333 | 0.60 | 110.17 | 1.96 | 1.25 | 138 | 0.322 | 0.94 | 0.458 | 0.536 | | 0.60 | 0.83 | <= | 1.048 | 0.006 | 0.000 | 4.492 | 0.000 | 24.62 | 24.67 |
| 24.76 | 123.05 | 1.49 | 96.83 | 1.24 | 1.28% | 1.301 | 0.61 | 92.45 | 2.01 | 1.32 | 121 | 0.246 | 0.94 | 0.461 | 0.536 | | 0.46 | 0.63 | <= | 1.975 | 0.021 | 0.000 | 4.485 | 0.000 | 24.67 | 24.76 |
| 24.81 | 122.31 | 1.49 | 84.82 | 1.17 | 1.38% | 1.404 | 0.63 | 80.69 | 2.08 | 1.42 | 114 | 0.218 | 0.94 | 0.462 | 0.537 | | 0.41 | 0.56 | <= | 2.076 | 0.012 | 0.000 | 4.464 | 0.000 | 24.76 | 24.81 |
| 24.89 | 122.34 | 1.50 | 67.54 | 1.27 | 1.88% | 1.923 | 0.68 | 63.80 | 2.24 | 1.78 | 114 | 0.216 | 0.94 | 0.465 | 0.537 | | 0.40 | 0.55 | <= | 2.082 | 0.020 | 0.000 | 4.452 | 0.000 | 24.81 | 24.89 |
| 24.94 | 122.03 | 1.50 | 56.50 | 1.29 | 2.28% | 2.346 | 0.72 | 53.05 | 2.36 | 2.16 | 115 | 0.220 | 0.94 | 0.466 | 0.537 | | 0.41 | 0.56 | <= | 2.067 | 0.012 | 0.000 | 4.432 | 0.000 | 24.89 | 24.94 |
| 25.03 | 121.01 | 1.51 | 39.42 | 1.26 | 3.20% | 3.324 | 0.78 | 36.48 | 2.58 | 3.23 | 118 | 0.232 | 0.94 | 0.469 | 0.538 | | 0.43 | 0.59 | <= | 2.023 | 0.022 | 0.000 | 4.419 | 0.000 | 24.94 | 25.03 |
| 25.07 | 120.38 | 1.51 | 34.05 | 1.22 | 3.58% | 3.749 | 0.81 | 31.28 | 2.67 | 3.77 | 124 | 0.259 | 0.94 | 0.470 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.13 | 118.81 | 1.51 | 22.82 | 1.12 | 4.91% | 5.257 | 0.88 | 20.45 | 2.90 | 5.73 | 189 | 0.709 | 0.94 | 0.472 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.21 | 117.65 | 1.52 | 19.30 | 1.01 | 5.23% | 5.680 | 0.90 | 17.03 | 2.98 | 6.58 | 217 | 1.031 | 0.94 | 0.475 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.26 | 116.94 | 1.52 | 18.32 | 0.94 | 5.13% | 5.596 | 0.91 | 16.06 | 3.00 | 6.74 | 222 | 1.103 | 0.94 | 0.476 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.35 | 115.25 | 1.53 | 15.20 | 0.79 | 5.20% | 5.778 | 0.93 | 13.05 | 3.08 | 7.65 | 252 | 1.574 | 0.94 | 0.479 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.41 | 113.87 | 1.53 | 13.64 | 0.68 | 4.99% | 5.615 | 0.94 | 11.54 | 3.11 | 8.06 | 266 | 1.829 | 0.94 | 0.481 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.48 | 112.92 | 1.53 | 13.05 | 0.60 | 4.60% | 5.210 | 0.94 | 10.95 | 3.11 | 8.02 | 265 | 1.805 | 0.94 | 0.483 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.57 | 111.72 | 1.54 | 12.86 | 0.52 | 4.04% | 4.593 | 0.93 | 10.74 | 3.08 | 7.68 | 254 | 1.595 | 0.94 | 0.486 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.61 | 111.41 | 1.54 | 12.17 | 0.50 | 4.11% | 4.704 | 0.94 | 10.08 | 3.11 | 8.04 | 265 | 1.814 | 0.94 | 0.487 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.66 | 111.27 | 1.54 | 12.47 | 0.49 | 3.93% | 4.485 | 0.93 | 10.35 | 3.09 | 7.76 | 256 | 1.644 | 0.94 | 0.489 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.74 | 112.35 | 1.55 | 12.66 | 0.57 | 4.50% | 5.130 | 0.94 | 10.50 | 3.12 | 8.15 | 269 | 1.888 | 0.94 | 0.491 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.79 | 112.98 | 1.55 | 12.95 | 0.61 | 4.71% | 5.352 | 0.94 | 10.76 | 3.12 | 8.19 | 270 | 1.915 | 0.94 | 0.493 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.86 | 114.47 | 1.56 | 13.93 | 0.73 | 5.24% | 5.899 | 0.94 | 11.66 | 3.12 | 8.18 | 270 | 1.911 | 0.94 | 0.495 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 25.93 | 115.98 | 1.56 | 17.15 | 0.84 | 4.90% | 5.388 | 0.91 | 14.67 | 3.02 | 6.95 | 229 | 1.203 | 0.94 | 0.497 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 26.02 | 118.33 | 1.57 | 23.99 | 1.03 | 4.29% | 4.593 | 0.86 | 21.05 | 2.85 | 5.26 | 174 | 0.567 | 0.94 | 0.500 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 26.06 | 119.30 | 1.57 | 29.07 | 1.11 | 3.82% | 4.036 | 0.83 | 25.79 | 2.75 | 4.38 | 144 | 0.360 | 0.94 | 0.501 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.397 | 0.000 | | |
| 26.14 | 121.01 | 1.57 | 40.29 | 1.25 | 3.10% | 3.228 | 0.78 | 36.23 | 2.58 | 3.18 | 116 | 0.224 | 0.94 | 0.504 | 0.544 | | 0.41 | 0.57 | <= | 2.049 | 0.020 | 0.000 | 4.397 | 0.000 | 26.06 | 26.14 |
| 26.19 | 121.70 | 1.58 | 45.57 | 1.32 | 2.90% | 3.000 | 0.76 | 41.11 | 2.51 | 2.83 | 117 | 0.230 | 0.94 | 0.505 | 0.544 | | 0.42 | 0.58 | <= | 2.028 | 0.012 | 0.000 | 4.378 | 0.000 | 26.14 | 26.19 |
| 26.28 | 122.85 | 1.58 | 57.09 | 1.43 | 2.50% | 2.576 | 0.73 | 51.74 | 2.39 | 2.29 | 119 | 0.238 | 0.94 | 0.508 | 0.544 | | 0.44 | 0.60 | <= | 1.999 | 0.022 | 0.000 | 4.366 | 0.000 | 26.19 | 26.28 |
| 26.32 | 123.28 | 1.58 | 64.51 | 1.46 | 2.26% | 2.320 | 0.70 | 58.58 | 2.32 | 2.03 | 120 | 0.240 | 0.94 | 0.509 | 0.544 | | 0.44 | 0.61 | <= | 1.994 | 0.010 | 0.000 | 4.344 | 0.000 | 26.28 | 26.32 |
| 26.41 | 123.91 | 1.59 | 79.45 | 1.48 | 1.86% | 1.901 | 0.67 | 72.30 | 2.20 | 1.66 | 121 | 0.246 | 0.94 | 0.512 | 0.545 | | 0.45 | 0.62 | <= | 1.974 | 0.021 | 0.000 | 4.334 | 0.000 | 26.32 | 26.41 |
| 26.45 | 124.10 | 1.59 | 88.43 | 1.47 | 1.66% | 1.693 | 0.65 | 80.54 | 2.13 | 1.51 | 123 | 0.253 | 0.94 | 0.513 | 0.545 | | 0.46 | 0.64 | <= | 1.953 | 0.009 | 0.000 | 4.313 | 0.000 | 26.41 | 26.45 |
| 26.55 | 124.34 | 1.60 | 109.33 | 1.42 | 1.30% | 1.318 | 0.60 | 99.64 | 1.99 | 1.28 | 130 | 0.283 | 0.94 | 0.516 | 0.545 | | 0.52 | 0.71 | <= | 1.456 | 0.017 | 0.000 | 4.304 | 0.000 | 26.45 | 26.55 |
| 26.58 | 124.46 | 1.60 | 113.53 | 1.42 | 1.25% | 1.269 | 0.60 | 103.43 | 1.96 | 1.25 | 132 | 0.293 | 0.94 | 0.517 | 0.546 | | 0.54 | 0.74 | <= | 1.546 | 0.006 | 0.000 | 4.286 | 0.000 | 26.55 | 26.58 |
| 26.64 | 124.69 | 1.60 | 123.49 | 1.42 | 1.15% | 1.165 | 0.58 | 112.44 | 1.91 | 1.20 | 137 | 0.320 | 0.94 | 0.519 | 0.546 | | 0.59 | 0.81 | <= | 0.985 | 0.007 | 0.000 | 4.281 | 0.000 | 26.58 | 26.64 |
| 26.73 | 124.77 | 1.61 | 131.69 | 1.41 | 1.07% | 1.084 | 0.57 | 119.68 | 1.87 | 1.16 | 142 | 0.344 | 0.94 | 0.522 | 0.546 | | 0.63 | 0.87 | <= | 1.121 | 0.012 | 0.000 | 4.274 | 0.000 | 26.64 | 26.73 |
| 26.77 | 124.93 | 1.61 | 134.13 | 1.43 | 1.07% | 1.079 | 0.57 | 121.79 | 1.86 | 1.15 | 143 | 0.354 | 0.94 | 0.523 | 0.546 | | 0.65 | 0.89 | <= | 1.176 | 0.006 | 0.000 | 4.261 | 0.000 | 26.73 | 26.77 |
| 26.86 | 125.07 | 1.62 | 134.62 | 1.46 | 1.08% | 1.098 | 0.57 | 121.92 | 1.87 | 1.16 | 144 | 0.358 | 0.94 | 0.526 | 0.547 | | 0.66 | 0.90 | <= | 0.632 | 0.007 | 0.000 | 4.256 | 0.000 | 26.77 | 26.86 |
| 26.91 | 125.07 | 1.62 | 133.15 | 1.46 | 1.10% | 1.110 | 0.57 | 120.39 | 1.87 | 1.16 | 143 | 0.353 | 0.94 | 0.528 | 0.547 | | 0.64 | 0.89 | <= | 1.167 | 0.007 | 0.000 | 4.249 | 0.000 | 26.86 | 26.91 |
| 26.99 | 124.96 | 1.63 | 130.52 | 1.45 | 1.11% | 1.125 | 0.57 | 117.71 | 1.88 | 1.17 | 141 | 0.342 | 0.94 | 0.530 | 0.547 | | 0.62 | 0.86 | <= | 1.107 | 0.011 | 0.000 | 4.242 | 0.000 | 26.91 | 26.99 |
| 27.04 | 124.79 | 1.63 | 126.22 | 1.43 | 1.13% | 1.148 | 0.58 | 113.62 | 1.90 | 1.19 | 138 | 0.325 | 0.94 | 0.532 | 0.547 | | 0.59 | 0.82 | <= | 1.012 | 0.006 | 0.000 | 4.231 | 0.000 | 26.99 | 27.04 |
| 27.11 | 124.39 | 1.63 | 120.46 | 1.38 | 1.15% | 1.161 | 0.58 | 108.15 | 1.92 | 1.21 | 134 | 0.302 | 0.94 | 0.534 | 0.548 | | 0.55 | 0.76 | <= | 1.500 | 0.013 | 0.000 | 4.225 | 0.000 | 27.04 | 27.11 |
| 27.18 | 123.76 | 1.64 | 113.43 | 1.29 | 1.14% | 1.154 | 0.59 | 101.55 | 1.94 | 1.23 | 128 | 0.273 | 0.94 | 0.536 | 0.548 | | 0.50 | 0.69 | <= | 1.896 | 0.016 | 0.000 | 4.213 | 0.000 | 27.11 | 27.18 |
| 27.23 | 122.96 | 1.64 | 104.54 | 1.19 | 1.14% | 1.156 | 0.60 | 93.34 | 1.97 | 1.26 | 120 | 0.242 | 0.94 | 0.538 | 0.548 | | 0.44 | 0.61 | <= | 1.988 | 0.012 | 0.000 | 4.197 | 0.000 | 27.18 | 27.23 |
| 27.31 | 121.79 | 1.64 | 94.49 | 1.05 | 1.11% | 1.131 | 0.61 | 84.04 | 1.99 | 1.29 | 111 | 0.208 | 0.94 | 0.540 | 0.549 | | 0.38 | 0.52 | <= | 2.116 | 0.020 | 0.000 | 4.185 | 0.000 | 27.23 | 27.31 |
| 27.40 | 120.81 | 1.65 | 81.01 | 0.97 | 1.20% | 1.222 | 0.63 | 71.66 | 2.07 | 1.40 | 103 | 0.181 | 0.94 | 0.543 | 0.549 | | 0.33 | 0.45 | <= | 2.255 | 0.024 | 0.000 | 4.165 | 0.000 | 27.31 | 27.40 |
| 27.44 | 120.56 | 1.65 | 74.47 | 0.96 | 1.29% | 1.318 | 0.64 | 65.69 | 2.12 | 1.49 | 100 | 0.174 | 0.93 | 0.544 | 0.549 | | 0.32 | 0.44 | <= | 2.302 | 0.011 | 0.000 | 4.140 | 0.000 | 27.40 | 27.44 |
| 27.52 | 120.28 | 1.66 | 61.58 | 0.98 | 1.59% | 1.635 | 0.68 | 53.94 | 2.25 | 1.79 | 98 | 0.169 | 0.93 | 0.547 | 0.549 | | 0.31 | 0.42 | <= | 2.336 | 0.022 | 0.000 | 4.129 | 0.000 | 27.44 | 27.52 |
| 27.57 | 120.17 | 1.66 | 54.26 | 1.01 | 1.86% | 1.920 | 0.71 | 47.29 | 2.34 | 2.07 | 100 | 0.172 | 0.93 | 0.548 | 0.550 | | 0.31 | 0.43 | <= | 2.313 | 0.014 | 0.000 | 4.107 | 0.000 | 27.52 | 27.57 |
| 27.63 | 119.92 | 1.66 | 44.00 | 1.05 | 2.39% | 2.480 | 0.75 | 38.00 | 2.48 | 2.67 | 103 | 0.182 | 0.93 | 0.550 | 0.550 | | 0.33 | 0.46 | <= | 2.248 | 0.016 | 0.000 | 4.093 | 0.000 | 27.57 | 27.63 |
| 27.69 | 119.33 | 1.67 | 35.31 | 1.04 | 2.95% | 3.091 | 0.79 | 30.15 | 2.62 | 3.45 | 114 | 0.217 | 0.93 | 0.552 | 0.550 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 27.77 | 118.22 | 1.67 | 27.60 | 0.97 | 3.51% | 3.741 | 0.84 | 23.19 | 2.76 | 4.46 | 147 | 0.377 | 0.93 | 0.554 | 0.550 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 27.85 | 116.45 | 1.68 | 23.40 | 0.81 | 3.46% | 3.729 | 0.85 | 19.39 | 2.82 | 4.96 | 164 | 0.487 | 0.93 | 0.557 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 27.89 | 115.63 | 1.68 | 20.86 | 0.75 | 3.60% | 3.910 | 0.87 | 17.11 | 2.88 | 5.46 | 180 | 0.625 | 0.93 | 0.558 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 27.98 | 113.91 | 1.68 | 16.27 | 0.64 | 3.93% | 4.388 | 0.91 | 12.98 | 3.00 | 6.76 | 223 | 1.111 | 0.93 | 0.561 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.02 | 113.18 | 1.69 | 14.32 | 0.61 | 4.26% | 4.829 | 0.93 | 11.23 | 3.08 | 7.64 | 252 | 1.571 | 0.93 | 0.562 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.11 | 109.50 | 1.69 | 12.56 | 0.38 | 3.03% | 3.496 | 0.92 | 9.65 | 3.05 | 7.27 | 240 | 1.362 | 0.93 | 0.565 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.16 | 104.33 | 1.69 | 11.98 | 0.19 | 1.59% | 1.847 | 0.88 | 9.12 | 2.91 | 5.83 | 192 | 0.743 | 0.93 | 0.567 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.24 | 106.01 | 1.70 | 11.98 | 0.24 | 2.00% | 2.334 | 0.90 | 9.10 | 2.97 | 6.39 | 211 | 0.953 | 0.93 | 0.569 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.30 | 107.12 | 1.70 | 11.98 | 0.28 | 2.34% | 2.724 | 0.91 | 9.09 | 3.01 | 6.80 | 224 | 1.131 | 0.93 | 0.571 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.36 | 108.10 | 1.71 | 11.98 | 0.32 | 2.67% | 3.114 | 0.92 | 9.08 | 3.04 | 7.18 | 237 | 1.318 | 0.93 | 0.573 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.43 | 108.89 | 1.71 | 12.08 | 0.36 | 2.98% | 3.471 | 0.93 | 9.15 | 3.06 | 7.47 | 246 | 1.472 | 0.93 | 0.575 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.51 | 109.38 | 1.71 | 11.98 | 0.38 | 3.17% | 3.701 | 0.93 | 9.04 | 3.08 | 7.71 | 255 | 1.615 | 0.93 | 0.578 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.55 | 109.59 | 1.72 | 12.08 | 0.39 | 3.23% | 3.763 | 0.93 | 9.12 | 3.08 | 7.73 | 255 | 1.623 | 0.93 | 0.579 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.64 | 109.93 | 1.72 | 11.69 | 0.42 | 3.59% | 4.213 | 0.95 | 8.75 | 3.13 | 8.28 | 273 | 1.975 | 0.93 | 0.582 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.68 | 110.21 | 1.72 | 12.08 | 0.43 | 3.56% | 4.152 | 0.94 | 9.09 | 3.11 | 8.06 | 266 | 1.829 | 0.93 | 0.583 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.75 | 109.85 | 1.73 | 12.08 | 0.41 | 3.39% | 3.960 | 0.94 | 9.07 | 3.10 | 7.91 | 261 | 1.736 | 0.93 | 0.585 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.82 | 109.93 | 1.73 | 12.08 | 0.41 | 3.39% | 3.961 | 0.94 | 9.05 | 3.10 | 7.92 | 261 | 1.741 | 0.93 | 0.587 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.89 | 109.88 | 1.73 | 12.08 | 0.41 | 3.39% | 3.963 | 0.94 | 9.04 | 3.10 | 7.93 | 262 | 1.747 | 0.93 | 0.589 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 28.95 | 110.02 | 1.74 | 12.37 | 0.41 | 3.31% | 3.856 | 0.93 | 9.28 | 3.08 | 7.73 | 255 | 1.622 | 0.93 | 0.591 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.03 | 110.85 | 1.74 | 13.15 | 0.45 | 3.42% | 3.945 | 0.93 | 9.94 | 3.07 | 7.50 | 248 | 1.491 | 0.93 | 0.594 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.09 | 111.64 | 1.75 | 13.83 | 0.50 | 3.62% | 4.137 | 0.93 | 10.51 | 3.06 | 7.41 | 245 | 1.442 | 0.93 | 0.596 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.15 | 112.44 | 1.75 | 13.83 | 0.55 | 3.98% | 4.552 | 0.93 | 10.50 | 3.08 | 7.73 | 255 | 1.622 | 0.93 | 0.597 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.21 | 113.50 | 1.75 | 14.42 | 0.63 | 4.37% | 4.973 | 0.94 | 10.99 | 3.09 | 7.82 | 258 | 1.681 | 0.93 | 0.599 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.27 | 114.25 | 1.76 | 15.10 | 0.69 | 4.57% | 5.171 | 0.93 | 11.56 | 3.09 | 7.74 | 255 | 1.630 | 0.93 | 0.601 | 0.558 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.33 | 115.20 | 1.76 | 16.18 | 0.76 | 4.70% | 5.270 | 0.93 | 12.48 | 3.06 | 7.49 | 247 | 1.483 | 0.93 | 0.603 | 0.558 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.40 | 116.00 | 1.76 | 18.23 | 0.82 | 4.50% | 4.980 | 0.91 | 14.23 | 3.00 | 6.79 | 224 | 1.126 | 0.93 | 0.605 | 0.558 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.49 | 116.55 | 1.77 | 20.08 | 0.86 | 4.28% | 4.696 | 0.89 | 15.79 | 2.95 | 6.23 | 206 | 0.888 | 0.93 | 0.608 | 0.558 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.54 | 117.00 | 1.77 | 21.84 | 0.89 | 4.08% | 4.435 | 0.88 | 17.28 | 2.91 | 5.75 | 190 | 0.717 | 0.93 | 0.610 | 0.559 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.61 | 117.33 | 1.78 | 22.82 | 0.91 | 3.99% | 4.324 | 0.87 | 18.09 | 2.88 | 5.53 | 183 | 0.647 | 0.93 | 0.612 | 0.559 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.67 | 117.44 | 1.78 | 24.38 | 0.91 | 3.73% | 4.026 | 0.86 | 19.40 | 2.84 | 5.13 | 169 | 0.531 | 0.93 | 0.614 | 0.559 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.73 | 117.34 | 1.78 | 24.38 | 0.90 | 3.69% | 3.983 | 0.86 | 19.37 | 2.84 | 5.11 | 168 | 0.525 | 0.93 | 0.616 | 0.559 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.80 | 116.24 | 1.79 | 24.38 | 0.77 | 3.16% | 3.408 | 0.85 | 19.34 | 2.79 | 4.73 | 156 | 0.434 | 0.93 | 0.618 | 0.560 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.89 | 117.13 | 1.79 | 24.38 | 0.87 | 3.57% | 3.852 | 0.86 | 19.29 | 2.83 | 5.03 | 166 | 0.506 | 0.93 | 0.621 | 0.560 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 29.94 | 117.14 | 1.79 | 24.18 | 0.88 | 3.64% | 3.931 | 0.86 | 19.09 | 2.84 | 5.11 | 169 | 0.527 | 0.93 | 0.622 | 0.560 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 30.03 | 117.24 | 1.80 | 24.57 | 0.88 | 3.58% | 3.865 | 0.86 | 19.38 | 2.83 | 5.03 | 166 | 0.504 | 0.93 | 0.625 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 30.11 | 117.75 | 1.80 | 29.98 | 0.89 | 2.97% | 3.159 | 0.82 | 23.94 | 2.70 | 3.99 | 132 | 0.293 | 0.93 | 0.627 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 30.16 | 117.92 | 1.81 | 30.57 | 0.90 | 2.94% | 3.129 | 0.82 | 24.41 | 2.69 | 3.93 | 130 | 0.282 | 0.93 | 0.629 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 30.25 | 118.94 | 1.81 | 28.61 | 1.06 | 3.70% | 3.956 | 0.84 | 22.69 | 2.78 | 4.63 | 153 | 0.411 | 0.93 | 0.632 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 30.30 | 119.00 | 1.82 | 27.24 | 1.08 | 3.96% | 4.248 | 0.85 | 21.50 | 2.82 | 4.95 | 163 | 0.486 | 0.93 | 0.633 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 30.38 | 119.35 | 1.82 | 28.81 | 1.12 | 3.89% | 4.150 | 0.85 | 22.78 | 2.79 | 4.73 | 156 | 0.434 | 0.93 | 0.636 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 30.43 | 120.00 | 1.82 | 34.87 | 1.15 | 3.30% | 3.480 | 0.81 | 27.86 | 2.68 | 3.82 | 126 | 0.267 | 0.93 | 0.637 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.077 | 0.000 | | |
| 30.51 | 121.59 | 1.83 | 59.00 | 1.19 | 2.02% | 2.081 | 0.71 | 48.11 | 2.35 | 2.10 | 105 | 0.188 | 0.93 | 0.640 | 0.562 | | 0.34 | 0.46 | <= | 2.214 | 0.021 | 0.000 | 4.077 | 0.000 | 30.43 | 30.51 |
| 30.56 | 122.32 | 1.83 | 75.52 | 1.21 | 1.60% | 1.642 | 0.67 | 61.93 | 2.19 | 1.65 | 107 | 0.194 | 0.93 | 0.641 | 0.562 | | 0.34 | 0.47 | <= | 2.185 | 0.013 | 0.000 | 4.055 | 0.000 | 30.51 | 30.56 |
| 30.63 | 121.44 | 1.84 | 91.15 | 1.01 | 1.11% | 1.131 | 0.62 | 74.93 | 2.02 | 1.33 | 105 | 0.188 | 0.93 | 0.644 | 0.562 | | 0.34 | 0.46 | <= | 2.215 | 0.019 | 0.000 | 4.042 | 0.000 | 30.56 | 30.63 |
| 30.69 | 120.33 | 1.84 | 101.61 | 0.84 | 0.83% | 0.842 | 0.58 | 83.58 | 1.91 | 1.19 | 106 | 0.190 | 0.93 | 0.646 | 0.562 | | 0.34 | 0.47 | <= | 2.205 | 0.016 | 0.000 | 4.024 | 0.000 | 30.63 | 30.69 |
| 30.76 | 121.25 | 1.84 | 107.08 | 0.93 | 0.87% | 0.884 | 0.58 | 88.00 | 1.90 | 1.19 | 111 | 0.207 | 0.92 | 0.648 | 0.562 | | 0.37 | 0.51 | <= | 2.121 | 0.018 | 0.000 | 4.008 | 0.000 | 30.69 | 30.76 |
| 30.83 | 122.09 | 1.85 | 110.89 | 1.04 | 0.94% | 0.954 | 0.58 | 91.03 | 1.91 | 1.20 | 116 | 0.224 | 0.92 | 0.650 | 0.562 | | 0.40 | 0.55 | <= | 2.051 | 0.017 | 0.000 | 3.990 | 0.000 | 30.76 | 30.83 |
| 30.89 | 122.76 | 1.85 | 113.33 | 1.13 | 1.00% | 1.014 | 0.58 | 92.92 | 1.92 | 1.21 | 119 | 0.237 | 0.92 | 0.652 | 0.562 | | 0.42 | 0.58 | <= | 2.004 | 0.014 | 0.000 | 3.973 | 0.000 | 30.83 | 30.89 |
| 30.96 | 123.38 | 1.86 | 113.92 | 1.22 | 1.07% | 1.089 | 0.59 | 93.24 | 1.94 | 1.23 | 121 | 0.246 | 0.92 | 0.654 | 0.562 | | 0.44 | 0.60 | <= | 1.973 | 0.017 | 0.000 | 3.958 | 0.000 | 30.89 | 30.96 |
| 31.01 | 123.69 | 1.86 | 107.66 | 1.30 | 1.21% | 1.229 | 0.61 | 87.92 | 1.99 | 1.29 | 120 | 0.241 | 0.92 | 0.656 | 0.562 | | 0.43 | 0.59 | <= | 1.990 | 0.012 | 0.000 | 3.942 | 0.000 | 30.96 | 31.01 |
| 31.08 | 124.14 | 1.86 | 110.20 | 1.37 | 1.24% | 1.265 | 0.61 | 89.87 | 1.99 | 1.29 | 123 | 0.253 | 0.92 | 0.658 | 0.561 | | 0.45 | 0.62 | <= | 1.953 | 0.016 | 0.000 | 3.930 | 0.000 | 31.01 | 31.08 |
| 31.14 | 124.42 | 1.87 | 108.45 | 1.43 | 1.32% | 1.342 | 0.61 | 88.27 | 2.02 | 1.32 | 124 | 0.255 | 0.92 | 0.660 | 0.561 | | 0.46 | 0.63 | <= | 1.945 | 0.014 | 0.000 | 3.913 | 0.000 | 31.08 | 31.14 |
| 31.22 | 124.57 | 1.87 | 103.76 | 1.49 | 1.44% | 1.462 | 0.62 | 84.21 | 2.06 | 1.38 | 123 | 0.253 | 0.92 | 0.662 | 0.561 | | 0.45 | 0.62 | <= | 1.951 | 0.019 | 0.000 | 3.899 | 0.000 | 31.14 | 31.22 |
| 31.28 | 124.65 | 1.88 | 100.14 | 1.52 | 1.52% | 1.547 | 0.63 | 81.09 | 2.09 | 1.43 | 123 | 0.251 | 0.92 | 0.664 | 0.561 | | 0.45 | 0.62 | <= | 1.958 | 0.014 | 0.000 | 3.881 | 0.000 | 31.22 | 31.28 |
| 31.37 | 124.66 | 1.88 | 91.74 | 1.57 | 1.71% | 1.747 | 0.65 | 73.98 | 2.15 | 1.55 | 121 | 0.246 | 0.92 | 0.667 | 0.561 | | 0.44 | 0.60 | <= | 1.973 | 0.021 | 0.000 | 3.867 | 0.000 | 31.28 | 31.37 |
| 31.41 | 124.63 | 1.88 | 87.73 | 1.58 | 1.80% | 1.841 | 0.66 | 70.61 | 2.18 | 1.62 | 121 | 0.244 | 0.92 | 0.668 | 0.561 | | 0.43 | 0.60 | <= | 1.981 | 0.010 | 0.000 | 3.845 | 0.000 | 31.37 | 31.41 |
| 31.48 | 124.51 | 1.89 | 80.60 | 1.60 | 1.99% | 2.033 | 0.68 | 64.62 | 2.24 | 1.77 | 120 | 0.242 | 0.92 | 0.670 | 0.561 | | 0.43 | 0.59 | <= | 1.987 | 0.017 | 0.000 | 3.836 | 0.000 | 31.41 | 31.48 |
| 31.54 | 124.39 | 1.89 | 76.69 | 1.60 | 2.09% | 2.139 | 0.69 | 61.32 | 2.27 | 1.86 | 120 | 0.241 | 0.92 | 0.672 | 0.561 | | 0.43 | 0.59 | <= | 1.992 | 0.014 | 0.000 | 3.819 | 0.000 | 31.48 | 31.54 |
| 31.61 | 124.00 | 1.90 | 69.75 | 1.57 | 2.25% | 2.314 | 0.71 | 55.53 | 2.33 | 2.04 | 119 | 0.236 | 0.92 | 0.674 | 0.561 | | 0.42 | 0.58 | <= | 2.008 | 0.017 | 0.000 | 3.805 | 0.000 | 31.54 | 31.61 |
| 31.68 | 123.81 | 1.90 | 64.57 | 1.57 | 2.43% | 2.505 | 0.72 | 51.19 | 2.38 | 2.22 | 119 | 0.237 | 0.92 | 0.676 | 0.561 | | 0.42 | 0.58 | <= | 2.004 | 0.017 | 0.000 | 3.788 | 0.000 | 31.61 | 31.68 |
| 31.75 | 123.52 | 1.90 | 57.24 | 1.57 | 2.74% | 2.837 | 0.74 | 45.12 | 2.46 | 2.55 | 120 | 0.241 | 0.92 | 0.679 | 0.561 | | 0.43 | 0.59 | <= | 1.989 | 0.017 | 0.000 | 3.771 | 0.000 | 31.68 | 31.75 |
| 31.81 | 123.23 | 1.91 | 50.89 | 1.57 | 3.09% | 3.205 | 0.77 | 39.88 | 2.53 | 2.93 | 122 | 0.247 | 0.92 | 0.680 | 0.561 | | 0.44 | 0.61 | <= | 1.969 | 0.014 | 0.000 | 3.754 | 0.000 | 31.75 | 31.81 |
| 31.89 | 122.55 | 1.91 | 41.71 | 1.53 | 3.67% | 3.845 | 0.80 | 32.34 | 2.65 | 3.67 | 123 | 0.252 | 0.92 | 0.683 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 31.95 | 121.80 | 1.92 | 35.94 | 1.45 | 4.03% | 4.262 | 0.83 | 27.61 | 2.74 | 4.27 | 141 | 0.340 | 0.92 | 0.685 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 32.00 | 120.77 | 1.92 | 30.37 | 1.33 | 4.38% | 4.675 | 0.85 | 23.06 | 2.82 | 4.98 | 164 | 0.492 | 0.91 | 0.686 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 32.08 | 117.48 | 1.92 | 25.58 | 0.90 | 3.52% | 3.805 | 0.86 | 19.14 | 2.83 | 5.00 | 165 | 0.498 | 0.91 | 0.689 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 32.16 | 116.58 | 1.93 | 21.58 | 0.84 | 3.89% | 4.275 | 0.88 | 15.87 | 2.92 | 5.91 | 195 | 0.771 | 0.91 | 0.691 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 32.20 | 116.75 | 1.93 | 19.23 | 0.90 | 4.68% | 5.203 | 0.91 | 13.96 | 3.02 | 6.98 | 230 | 1.216 | 0.91 | 0.693 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 32.28 | 116.66 | 1.94 | 17.57 | 0.91 | 5.18% | 5.821 | 0.93 | 12.59 | 3.09 | 7.77 | 256 | 1.648 | 0.91 | 0.695 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 32.32 | 116.73 | 1.94 | 17.96 | 0.91 | 5.07% | 5.680 | 0.93 | 12.89 | 3.07 | 7.59 | 250 | 1.540 | 0.91 | 0.696 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 32.39 | 117.24 | 1.94 | 19.62 | 0.95 | 4.84% | 5.374 | 0.92 | 14.21 | 3.02 | 7.01 | 231 | 1.233 | 0.91 | 0.699 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 32.46 | 117.74 | 1.95 | 22.46 | 0.97 | 4.32% | 4.729 | 0.89 | 16.46 | 2.94 | 6.08 | 201 | 0.830 | 0.91 | 0.701 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 32.54 | 117.95 | 1.95 | 24.61 | 0.97 | 3.94% | 4.281 | 0.87 | 18.15 | 2.88 | 5.47 | 180 | 0.627 | 0.91 | 0.703 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 32.59 | 118.39 | 1.95 | 29.39 | 0.97 | 3.30% | 3.536 | 0.84 | 21.95 | 2.76 | 4.43 | 146 | 0.371 | 0.91 | 0.705 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.740 | 0.000 | | |
| 32.66 | 119.09 | 1.96 | 38.77 | 0.97 | 2.50% | 2.635 | 0.78 | 29.40 | 2.57 | 3.17 | 105 | 0.187 | 0.91 | 0.707 | 0.561 | | 0.33 | 0.46 | <= | 2.222 | 0.019 | 0.000 | 3.740 | 0.000 | 32.59 | 32.66 |
| 32.72 | 119.86 | 1.96 | 50.50 | 0.99 | 1.96% | 2.040 | 0.73 | 38.72 | 2.41 | 2.35 | 96 | 0.161 | 0.91 | 0.709 | 0.560 | | 0.29 | 0.40 | <= | 2.393 | 0.017 | 0.000 | 3.721 | 0.000 | 32.66 | 32.72 |
| 32.79 | 120.72 | 1.97 | 63.11 | 1.04 | 1.65% | 1.701 | 0.69 | 48.69 | 2.28 | 1.88 | 97 | 0.165 | 0.91 | 0.711 | 0.560 | | 0.29 | 0.41 | <= | 2.361 | 0.020 | 0.000 | 3.704 | 0.000 | 32.72 | 32.79 |
| 32.85 | 121.33 | 1.97 | 71.02 | 1.08 | 1.52% | 1.564 | 0.67 | 54.91 | 2.21 | 1.70 | 99 | 0.171 | 0.91 | 0.713 | 0.560 | | 0.31 | 0.42 | <= | 2.317 | 0.017 | 0.000 | 3.684 | 0.000 | 32.79 | 32.85 |
| 32.92 | 121.75 | 1.97 | 75.71 | 1.12 | 1.48% | 1.519 | 0.66 | 58.54 | 2.18 | 1.63 | 102 | 0.178 | 0.91 | 0.715 | 0.560 | | 0.32 | 0.44 | <= | 2.277 | 0.019 | 0.000 | 3.668 | 0.000 | 32.85 | 32.92 |
| 32.99 | 122.17 | 1.98 | 79.52 | 1.17 | 1.47% | 1.509 | 0.66 | 61.46 | 2.17 | 1.59 | 104 | 0.185 | 0.91 | 0.717 | 0.560 | | 0.33 | 0.45 | <= | 2.233 | 0.019 | 0.000 | 3.649 | 0.000 | 32.92 | 32.99 |
| 33.05 | 122.58 | 1.98 | 82.45 | 1.22 | 1.48% | 1.516 | 0.65 | 63.69 | 2.15 | 1.56 | 106 | 0.192 | 0.91 | 0.719 | 0.560 | | 0.34 | 0.47 | <= | 2.194 | 0.016 | 0.000 | 3.630 | 0.000 | 32.99 | 33.05 |
| 33.13 | 122.98 | 1.99 | 84.99 | 1.28 | 1.51% | 1.542 | 0.65 | 65.57 | 2.15 | 1.55 | 109 | 0.200 | 0.91 | 0.722 | 0.560 | | 0.36 | 0.49 | <= | 2.154 | 0.021 | 0.000 | 3.614 | 0.000 | 33.05 | 33.13 |
| 33.21 | 123.36 | 1.99 | 87.83 | 1.33 | 1.51% | 1.549 | 0.65 | 67.68 | 2.14 | 1.53 | 111 | 0.208 | 0.90 | 0.724 | 0.560 | | 0.37 | 0.51 | <= | 2.119 | 0.020 | 0.000 | 3.593 | 0.000 | 33.13 | 33.21 |
| 33.25 | 123.52 | 1.99 | 88.32 | 1.36 | 1.54% | 1.575 | 0.65 | 68.00 | 2.14 | 1.54 | 112 | 0.211 | 0.90 | 0.725 | 0.560 | | 0.38 | 0.52 | <= | 2.103 | 0.010 | 0.000 | 3.573 | 0.000 | 33.21 | 33.25 |
| 33.31 | 123.73 | 2.00 | 88.61 | 1.40 | 1.58% | 1.616 | 0.65 | 68.12 | 2.15 | 1.55 | 113 | 0.216 | 0.90 | 0.727 | 0.560 | | 0.38 | 0.53 | <= | 2.084 | 0.015 | 0.000 | 3.563 | 0.000 | 33.25 | 33.31 |
| 33.39 | 123.84 | 2.00 | 88.41 | 1.42 | 1.61% | 1.643 | 0.65 | 67.83 | 2.16 | 1.57 | 114 | 0.217 | 0.90 | 0.730 | 0.560 | | 0.39 | 0.53 | <= | 2.077 | 0.020 | 0.000 | 3.548 | 0.000 | 33.31 | 33.39 |
| 33.44 | 123.96 | 2.01 | 88.02 | 1.44 | 1.64% | 1.674 | 0.66 | 67.44 | 2.16 | 1.58 | 114 | 0.219 | 0.90 | 0.731 | 0.560 | | 0.39 | 0.54 | <= | 2.070 | 0.012 | 0.000 | 3.528 | 0.000 | 33.39 | 33.44 |
| 33.52 | 123.98 | 2.01 | 86.66 | 1.46 | 1.68% | 1.725 | 0.66 | 66.24 | 2.18 | 1.61 | 115 | 0.220 | 0.90 | 0.734 | 0.560 | | 0.39 | 0.54 | <= | 2.066 | 0.020 | 0.000 | 3.516 | 0.000 | 33.44 | 33.52 |
| 33.62 | 123.88 | 2.02 | 84.11 | 1.45 | 1.72% | 1.766 | 0.67 | 64.09 | 2.20 | 1.66 | 114 | 0.217 | 0.90 | 0.737 | 0.560 | | 0.39 | 0.53 | <= | 2.080 | 0.025 | 0.000 | 3.496 | 0.000 | 33.52 | 33.62 |
| 33.66 | 124.29 | 2.02 | 83.04 | 1.54 | 1.85% | 1.901 | 0.67 | 63.19 | 2.22 | 1.72 | 116 | 0.227 | 0.90 | 0.738 | 0.559 | | 0.41 | 0.56 | <= | 2.040 | 0.010 | 0.000 | 3.471 | 0.000 | 33.62 | 33.66 |
| 33.70 | 124.64 | 2.02 | 81.09 | 1.63 | 2.01% | 2.062 | 0.68 | 61.61 | 2.25 | 1.81 | 119 | 0.237 | 0.90 | 0.739 | 0.559 | | 0.42 | 0.58 | <= | 2.002 | 0.010 | 0.000 | 3.461 | 0.000 | 33.66 | 33.70 |
| 33.78 | 125.09 | 2.03 | 74.83 | 1.78 | 2.38% | 2.445 | 0.71 | 56.62 | 2.33 | 2.06 | 124 | 0.258 | 0.90 | 0.742 | 0.559 | | 0.46 | 0.63 | <= | 1.939 | 0.019 | 0.000 | 3.451 | 0.000 | 33.70 | 33.78 |
| 33.84 | 125.13 | 2.03 | 74.64 | 1.79 | 2.40% | 2.465 | 0.71 | 56.38 | 2.34 | 2.07 | 124 | 0.259 | 0.90 | 0.744 | 0.559 | | 0.46 | 0.64 | <= | 1.935 | 0.014 | 0.000 | 3.433 | 0.000 | 33.78 | 33.84 |
| 33.93 | 124.92 | 2.04 | 74.64 | 1.74 | 2.33% | 2.397 | 0.71 | 56.26 | 2.33 | 2.04 | 123 | 0.251 | 0.90 | 0.747 | 0.559 | | 0.45 | 0.62 | <= | 1.958 | 0.021 | 0.000 | 3.419 | 0.000 | 33.84 | 33.93 |
| 33.97 | 124.92 | 2.04 | 74.44 | 1.74 | 2.34% | 2.403 | 0.71 | 56.04 | 2.33 | 2.05 | 122 | 0.251 | 0.90 | 0.748 | 0.559 | | 0.45 | 0.62 | <= | 1.959 | 0.009 | 0.000 | 3.398 | 0.000 | 33.93 | 33.97 |
| 34.05 | 125.09 | 2.04 | 74.54 | 1.78 | 2.39% | 2.455 | 0.71 | 56.01 | 2.34 | 2.07 | 124 | 0.256 | 0.90 | 0.750 | 0.559 | | 0.46 | 0.63 | <= | 1.942 | 0.019 | 0.000 | 3.388 | 0.000 | 33.97 | 34.05 |
| 34.10 | 125.12 | 2.05 | 74.44 | 1.79 | 2.40% | 2.473 | 0.71 | 55.86 | 2.34 | 2.08 | 124 | 0.258 | 0.90 | 0.752 | 0.559 | | 0.46 | 0.63 | <= | 1.938 | 0.012 | 0.000 | 3.370 | 0.000 | 34.05 | 34.10 |
| 34.16 | 125.06 | 2.05 | 74.44 | 1.77 | 2.38% | 2.445 | 0.71 | 55.78 | 2.34 | 2.07 | 123 | 0.254 | 0.90 | 0.754 | 0.559 | | 0.46 | 0.63 | <= | 1.948 | 0.014 | 0.000 | 3.358 | 0.000 | 34.10 | 34.16 |
| 34.24 | 124.41 | 2.06 | 74.34 | 1.63 | 2.19% | 2.255 | 0.70 | 55.59 | 2.31 | 1.99 | 118 | 0.234 | 0.90 | 0.756 | 0.559 | | 0.42 | 0.58 | <= | 2.013 | 0.019 | 0.000 | 3.344 | 0.000 | 34.16 | 34.24 |
| 34.31 | 124.21 | 2.06 | 83.24 | 1.52 | 1.83% | 1.872 | 0.67 | 62.33 | 2.22 | 1.72 | 115 | 0.222 | 0.90 | 0.758 | 0.559 | | 0.40 | 0.55 | <= | 2.058 | 0.017 | 0.000 | 3.325 | 0.000 | 34.24 | 34.31 |
| 34.37 | 124.29 | 2.06 | 86.07 | 1.52 | 1.77% | 1.809 | 0.67 | 64.41 | 2.20 | 1.66 | 116 | 0.223 | 0.90 | 0.760 | 0.558 | | 0.40 | 0.55 | <= | 2.053 | 0.015 | 0.000 | 3.307 | 0.000 | 34.31 | 34.37 |
| 34.43 | 124.54 | 2.07 | 81.57 | 1.60 | 1.96% | 2.013 | 0.68 | 60.87 | 2.25 | 1.80 | 117 | 0.231 | 0.90 | 0.762 | 0.558 | | 0.41 | 0.57 | <= | 2.026 | 0.015 | 0.000 | 3.293 | 0.000 | 34.37 | 34.43 |
| 34.51 | 124.55 | 2.07 | 70.24 | 1.69 | 2.41% | 2.479 | 0.72 | 52.09 | 2.36 | 2.17 | 120 | 0.242 | 0.89 | 0.765 | 0.558 | | 0.43 | 0.60 | <= | 1.986 | 0.019 | 0.000 | 3.278 | 0.000 | 34.43 | 34.51 |
| 34.58 | 122.58 | 2.08 | 59.00 | 1.37 | 2.32% | 2.407 | 0.73 | 43.43 | 2.41 | 2.37 | 109 | 0.202 | 0.89 | 0.767 | 0.558 | | 0.36 | 0.50 | <= | 2.146 | 0.018 | 0.000 | 3.259 | 0.000 | 34.51 | 34.58 |
| 34.64 | 121.40 | 2.08 | 58.66 | 1.17 | 1.99% | 2.068 | 0.72 | 43.11 | 2.37 | 2.20 | 101 | 0.176 | 0.89 | 0.769 | 0.558 | | 0.32 | 0.43 | <= | 2.285 | 0.016 | 0.000 | 3.241 | 0.000 | 34.58 | 34.64 |
| 34.72 | 121.54 | 2.09 | 56.36 | 1.20 | 2.13% | 2.211 | 0.73 | 41.28 | 2.41 | 2.33 | 103 | 0.181 | 0.89 | 0.771 | 0.558 | | 0.32 | 0.45 | <= | 2.259 | 0.022 | 0.000 | 3.224 | 0.000 | 34.64 | 34.72 |
| 34.77 | 121.90 | 2.09 | 58.32 | 1.25 | 2.14% | 2.223 | 0.73 | 42.72 | 2.40 | 2.29 | 104 | 0.186 | 0.89 | 0.773 | 0.558 | | 0.33 | 0.46 | <= | 2.227 | 0.013 | 0.000 | 3.203 | 0.000 | 34.72 | 34.77 |
| 34.86 | 122.60 | 2.09 | 60.37 | 1.36 | 2.25% | 2.334 | 0.73 | 44.18 | 2.40 | 2.30 | 109 | 0.199 | 0.89 | 0.776 | 0.558 | | 0.36 | 0.49 | <= | 2.158 | 0.023 | 0.000 | 3.189 | 0.000 | 34.77 | 34.86 |
| 34.89 | 122.65 | 2.10 | 57.24 | 1.39 | 2.43% | 2.521 | 0.74 | 41.78 | 2.44 | 2.48 | 110 | 0.204 | 0.89 | 0.777 | 0.558 | | 0.37 | 0.50 | <= | 2.133 | 0.008 | 0.000 | 3.166 | 0.000 | 34.86 | 34.89 |
| 34.95 | 122.96 | 2.10 | 56.85 | 1.46 | 2.57% | 2.667 | 0.75 | 41.42 | 2.46 | 2.57 | 113 | 0.214 | 0.89 | 0.778 | 0.558 | | 0.38 | 0.53 | <= | 2.090 | 0.015 | 0.000 | 3.158 | 0.000 | 34.89 | 34.95 |
| 35.02 | 122.69 | 2.10 | 50.89 | 1.46 | 2.87% | 2.993 | 0.77 | 36.85 | 2.53 | 2.93 | 114 | 0.219 | 0.89 | 0.781 | 0.557 | | 0.39 | 0.54 | <= | 2.071 | 0.017 | 0.000 | 3.143 | 0.000 | 34.95 | 35.02 |
| 35.09 | 122.17 | 2.11 | 41.02 | 1.46 | 3.56% | 3.752 | 0.81 | 29.34 | 2.67 | 3.81 | 126 | 0.265 | 0.89 | 0.783 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.16 | 121.67 | 2.11 | 35.16 | 1.44 | 4.10% | 4.357 | 0.84 | 24.88 | 2.77 | 4.56 | 150 | 0.396 | 0.89 | 0.785 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.21 | 121.04 | 2.12 | 29.30 | 1.40 | 4.78% | 5.150 | 0.87 | 20.45 | 2.89 | 5.58 | 184 | 0.659 | 0.89 | 0.787 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.30 | 119.93 | 2.12 | 23.53 | 1.29 | 5.48% | 6.026 | 0.91 | 16.07 | 3.01 | 6.90 | 228 | 1.177 | 0.89 | 0.789 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.34 | 119.38 | 2.12 | 21.28 | 1.24 | 5.83% | 6.473 | 0.93 | 14.37 | 3.07 | 7.58 | 250 | 1.538 | 0.89 | 0.791 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.42 | 118.58 | 2.13 | 18.55 | 1.16 | 6.25% | 7.064 | 0.95 | 12.30 | 3.15 | 8.57 | 283 | 2.183 | 0.89 | 0.793 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |

**LIQUEFACTION ANALYSIS WITH CPT DATA** TEST LOCATION: **CPT-1**

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**Analysis Scenario:** MCE (2% exceedance probability in 50 years)

D(ft) 1 MAGNITUDE: 6.62 MAGNITUDE SCALING FACTOR: 1.38

GROUNDWATER LEVEL: 10 feet ACCELERATION: 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35.47 | 118.17 | 2.13 | 18.60 | 1.10 | 5.91% | 6.679 | 0.95 | 12.32 | 3.13 | 8.35 | 275 | 2.024 | 0.89 | 0.795 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.57 | 117.26 | 2.14 | 18.16 | 0.98 | 5.40% | 6.116 | 0.94 | 11.96 | 3.12 | 8.15 | 269 | 1.888 | 0.89 | 0.798 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.61 | 117.06 | 2.14 | 18.65 | 0.94 | 5.04% | 5.693 | 0.93 | 12.31 | 3.09 | 7.77 | 256 | 1.645 | 0.89 | 0.799 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.67 | 117.10 | 2.14 | 17.77 | 0.96 | 5.40% | 6.143 | 0.95 | 11.64 | 3.13 | 8.28 | 273 | 1.979 | 0.89 | 0.801 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.74 | 117.70 | 2.15 | 17.77 | 1.04 | 5.85% | 6.657 | 0.95 | 11.62 | 3.15 | 8.59 | 284 | 2.200 | 0.88 | 0.803 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.81 | 118.46 | 2.15 | 19.04 | 1.12 | 5.88% | 6.632 | 0.95 | 12.54 | 3.12 | 8.24 | 272 | 1.949 | 0.88 | 0.805 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.88 | 118.79 | 2.16 | 19.92 | 1.16 | 5.82% | 6.530 | 0.94 | 13.18 | 3.10 | 7.97 | 263 | 1.773 | 0.88 | 0.807 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 35.94 | 118.79 | 2.16 | 21.38 | 1.13 | 5.29% | 5.879 | 0.92 | 14.24 | 3.05 | 7.28 | 240 | 1.369 | 0.88 | 0.809 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.00 | 118.52 | 2.16 | 22.26 | 1.08 | 4.85% | 5.374 | 0.91 | 14.87 | 3.01 | 6.81 | 225 | 1.136 | 0.88 | 0.811 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.08 | 118.33 | 2.17 | 23.63 | 1.03 | 4.36% | 4.799 | 0.89 | 15.85 | 2.95 | 6.22 | 205 | 0.884 | 0.88 | 0.814 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.15 | 118.21 | 2.17 | 24.90 | 1.00 | 4.02% | 4.400 | 0.88 | 16.76 | 2.91 | 5.77 | 190 | 0.723 | 0.88 | 0.816 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.20 | 117.90 | 2.17 | 24.31 | 0.96 | 3.95% | 4.337 | 0.88 | 16.31 | 2.91 | 5.82 | 192 | 0.740 | 0.88 | 0.817 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.26 | 117.32 | 2.18 | 22.55 | 0.91 | 4.04% | 4.467 | 0.89 | 14.99 | 2.95 | 6.21 | 205 | 0.879 | 0.88 | 0.819 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.34 | 116.60 | 2.18 | 20.50 | 0.86 | 4.20% | 4.695 | 0.91 | 13.46 | 3.00 | 6.76 | 223 | 1.112 | 0.88 | 0.822 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.41 | 116.07 | 2.19 | 19.33 | 0.81 | 4.19% | 4.725 | 0.92 | 12.58 | 3.03 | 7.05 | 233 | 1.249 | 0.88 | 0.824 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.46 | 115.90 | 2.19 | 18.84 | 0.80 | 4.25% | 4.805 | 0.92 | 12.20 | 3.04 | 7.22 | 238 | 1.339 | 0.88 | 0.826 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.54 | 115.92 | 2.19 | 19.04 | 0.80 | 4.20% | 4.749 | 0.92 | 12.33 | 3.04 | 7.14 | 236 | 1.298 | 0.88 | 0.828 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.59 | 115.92 | 2.20 | 18.94 | 0.80 | 4.22% | 4.778 | 0.92 | 12.24 | 3.04 | 7.19 | 237 | 1.323 | 0.88 | 0.830 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.68 | 116.04 | 2.20 | 18.89 | 0.81 | 4.29% | 4.854 | 0.92 | 12.18 | 3.05 | 7.26 | 240 | 1.360 | 0.88 | 0.832 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.72 | 116.13 | 2.20 | 18.89 | 0.82 | 4.34% | 4.915 | 0.92 | 12.17 | 3.05 | 7.31 | 241 | 1.384 | 0.88 | 0.834 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.82 | 116.93 | 2.21 | 18.84 | 0.92 | 4.88% | 5.532 | 0.93 | 12.10 | 3.08 | 7.73 | 255 | 1.624 | 0.88 | 0.837 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.85 | 117.52 | 2.21 | 19.33 | 0.98 | 5.07% | 5.725 | 0.93 | 12.45 | 3.08 | 7.73 | 255 | 1.625 | 0.88 | 0.838 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.95 | 117.65 | 2.22 | 21.87 | 0.96 | 4.39% | 4.885 | 0.91 | 14.27 | 2.99 | 6.66 | 220 | 1.066 | 0.87 | 0.841 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 36.98 | 117.42 | 2.22 | 23.53 | 0.91 | 3.87% | 4.270 | 0.89 | 15.46 | 2.93 | 5.96 | 197 | 0.787 | 0.87 | 0.842 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.07 | 118.82 | 2.23 | 27.64 | 1.05 | 3.80% | 4.131 | 0.87 | 18.40 | 2.86 | 5.29 | 174 | 0.574 | 0.87 | 0.845 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.13 | 120.77 | 2.23 | 32.52 | 1.29 | 3.97% | 4.259 | 0.85 | 21.91 | 2.81 | 4.84 | 160 | 0.459 | 0.87 | 0.846 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.18 | 122.18 | 2.23 | 36.62 | 1.51 | 4.12% | 4.391 | 0.84 | 24.84 | 2.77 | 4.56 | 151 | 0.397 | 0.87 | 0.848 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.26 | 123.33 | 2.24 | 38.29 | 1.74 | 4.54% | 4.826 | 0.84 | 26.00 | 2.79 | 4.67 | 154 | 0.421 | 0.87 | 0.851 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.32 | 123.53 | 2.24 | 35.84 | 1.83 | 5.11% | 5.447 | 0.86 | 24.20 | 2.85 | 5.20 | 172 | 0.550 | 0.87 | 0.852 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.39 | 123.16 | 2.25 | 31.74 | 1.82 | 5.73% | 6.171 | 0.89 | 21.21 | 2.93 | 5.98 | 197 | 0.795 | 0.87 | 0.855 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.44 | 122.29 | 2.25 | 28.22 | 1.68 | 5.95% | 6.469 | 0.90 | 18.66 | 2.98 | 6.57 | 217 | 1.029 | 0.87 | 0.856 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.53 | 120.64 | 2.25 | 24.02 | 1.42 | 5.91% | 6.524 | 0.92 | 15.61 | 3.05 | 7.27 | 240 | 1.364 | 0.87 | 0.859 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.57 | 119.54 | 2.26 | 21.58 | 1.26 | 5.84% | 6.520 | 0.93 | 13.84 | 3.09 | 7.75 | 256 | 1.635 | 0.87 | 0.860 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.66 | 117.47 | 2.26 | 18.45 | 1.00 | 5.42% | 6.177 | 0.95 | 11.58 | 3.13 | 8.32 | 274 | 2.003 | 0.87 | 0.863 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.74 | 116.12 | 2.27 | 16.98 | 0.86 | 5.06% | 5.845 | 0.95 | 10.51 | 3.15 | 8.55 | 282 | 2.168 | 0.87 | 0.865 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.77 | 115.70 | 2.27 | 16.69 | 0.81 | 4.85% | 5.616 | 0.95 | 10.29 | 3.14 | 8.50 | 280 | 2.129 | 0.87 | 0.866 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.84 | 114.50 | 2.27 | 15.81 | 0.70 | 4.43% | 5.170 | 0.95 | 9.65 | 3.14 | 8.49 | 280 | 2.126 | 0.87 | 0.869 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.93 | 113.26 | 2.28 | 14.93 | 0.60 | 4.02% | 4.742 | 0.95 | 9.00 | 3.14 | 8.50 | 281 | 2.135 | 0.87 | 0.871 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 37.98 | 113.01 | 2.28 | 14.83 | 0.59 | 3.98% | 4.701 | 0.95 | 8.92 | 3.15 | 8.52 | 281 | 2.144 | 0.87 | 0.873 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.06 | 113.18 | 2.28 | 15.62 | 0.59 | 3.78% | 4.424 | 0.94 | 9.47 | 3.11 | 8.03 | 265 | 1.811 | 0.87 | 0.875 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.10 | 112.94 | 2.29 | 15.03 | 0.58 | 3.86% | 4.551 | 0.95 | 9.04 | 3.13 | 8.34 | 275 | 2.018 | 0.87 | 0.877 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.20 | 111.34 | 2.29 | 14.25 | 0.47 | 3.30% | 3.930 | 0.94 | 8.47 | 3.12 | 8.14 | 269 | 1.885 | 0.86 | 0.880 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.23 | 110.15 | 2.29 | 14.25 | 0.40 | 2.81% | 3.345 | 0.93 | 8.46 | 3.08 | 7.63 | 252 | 1.563 | 0.86 | 0.881 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.31 | 107.59 | 2.30 | 14.44 | 0.28 | 1.94% | 2.306 | 0.90 | 8.58 | 2.98 | 6.51 | 215 | 1.002 | 0.86 | 0.883 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.37 | 109.01 | 2.30 | 14.74 | 0.34 | 2.31% | 2.733 | 0.91 | 8.78 | 3.01 | 6.87 | 227 | 1.163 | 0.86 | 0.885 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.44 | 110.51 | 2.31 | 14.74 | 0.42 | 2.85% | 3.378 | 0.93 | 8.77 | 3.06 | 7.50 | 247 | 1.488 | 0.86 | 0.887 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.51 | 112.02 | 2.31 | 14.74 | 0.51 | 3.46% | 4.103 | 0.94 | 8.76 | 3.12 | 8.13 | 268 | 1.876 | 0.86 | 0.890 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.57 | 112.62 | 2.31 | 12.59 | 0.59 | 4.69% | 5.741 | 0.99 | 7.23 | 3.27 | 10.33 | 341 | 3.769 | 0.86 | 0.891 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.63 | 113.85 | 2.32 | 15.03 | 0.65 | 4.32% | 5.112 | 0.96 | 8.94 | 3.17 | 8.81 | 291 | 2.364 | 0.86 | 0.893 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.70 | 114.82 | 2.32 | 16.59 | 0.72 | 4.34% | 5.045 | 0.95 | 10.02 | 3.12 | 8.23 | 271 | 1.941 | 0.86 | 0.895 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.76 | 115.44 | 2.32 | 17.28 | 0.78 | 4.51% | 5.215 | 0.94 | 10.49 | 3.12 | 8.14 | 269 | 1.881 | 0.86 | 0.897 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.83 | 116.35 | 2.33 | 17.96 | 0.87 | 4.84% | 5.565 | 0.94 | 10.95 | 3.12 | 8.18 | 270 | 1.908 | 0.86 | 0.899 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.91 | 117.43 | 2.33 | 18.74 | 0.99 | 5.28% | 6.034 | 0.95 | 11.47 | 3.13 | 8.26 | 273 | 1.967 | 0.86 | 0.902 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 38.95 | 117.99 | 2.33 | 19.23 | 1.06 | 5.51% | 6.274 | 0.95 | 11.81 | 3.13 | 8.28 | 273 | 1.979 | 0.86 | 0.903 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 39.04 | 119.48 | 2.34 | 21.77 | 1.25 | 5.74% | 6.433 | 0.93 | 13.55 | 3.09 | 7.78 | 257 | 1.655 | 0.86 | 0.906 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 39.09 | 120.28 | 2.34 | 24.70 | 1.33 | 5.38% | 5.949 | 0.91 | 15.58 | 3.02 | 6.95 | 229 | 1.202 | 0.86 | 0.908 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 39.16 | 121.01 | 2.35 | 27.83 | 1.42 | 5.10% | 5.572 | 0.89 | 17.73 | 2.96 | 6.26 | 207 | 0.900 | 0.86 | 0.910 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 39.22 | 121.54 | 2.35 | 31.54 | 1.46 | 4.63% | 5.002 | 0.87 | 20.29 | 2.88 | 5.49 | 181 | 0.632 | 0.86 | 0.912 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 39.29 | 122.22 | 2.35 | 38.09 | 1.50 | 3.94% | 4.198 | 0.84 | 24.80 | 2.76 | 4.44 | 147 | 0.373 | 0.86 | 0.914 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.126 | 0.000 | | |
| 39.35 | 123.18 | 2.36 | 51.77 | 1.55 | 2.99% | 3.137 | 0.78 | 34.25 | 2.56 | 3.11 | 115 | 0.220 | 0.86 | 0.916 | 0.551 | | 0.40 | 0.55 | <= | 2.067 | 0.015 | 0.000 | 3.126 | 0.000 | 39.29 | 39.35 |
| 39.42 | 124.21 | 2.36 | 73.07 | 1.59 | 2.18% | 2.249 | 0.71 | 48.93 | 2.34 | 2.10 | 113 | 0.214 | 0.85 | 0.918 | 0.551 | | 0.39 | 0.53 | <= | 2.091 | 0.018 | 0.000 | 3.111 | 0.000 | 39.35 | 39.42 |
| 39.49 | 125.10 | 2.37 | 97.31 | 1.63 | 1.68% | 1.717 | 0.66 | 65.60 | 2.17 | 1.59 | 117 | 0.227 | 0.85 | 0.920 | 0.550 | | 0.41 | 0.57 | <= | 2.039 | 0.017 | 0.000 | 3.094 | 0.000 | 39.42 | 39.49 |
| 39.55 | 125.51 | 2.37 | 118.02 | 1.62 | 1.37% | 1.401 | 0.62 | 79.81 | 2.04 | 1.35 | 123 | 0.251 | 0.85 | 0.922 | 0.550 | | 0.46 | 0.63 | <= | 1.957 | 0.014 | 0.000 | 3.076 | 0.000 | 39.49 | 39.55 |
| 39.62 | 125.68 | 2.38 | 136.88 | 1.58 | 1.15% | 1.175 | 0.59 | 92.68 | 1.94 | 1.22 | 130 | 0.285 | 0.85 | 0.924 | 0.550 | | 0.52 | 0.71 | <= | 1.449 | 0.012 | 0.000 | 3.062 | 0.000 | 39.55 | 39.62 |
| 39.70 | 125.66 | 2.38 | 159.45 | 1.49 | 0.93% | 0.949 | 0.55 | 108.04 | 1.82 | 1.12 | 141 | 0.339 | 0.85 | 0.927 | 0.550 | | 0.62 | 0.85 | <= | 1.080 | 0.010 | 0.000 | 3.050 | 0.000 | 39.62 | 39.70 |
| 39.75 | 125.76 | 2.38 | 169.91 | 1.48 | 0.87% | 0.883 | 0.54 | 115.10 | 1.78 | 1.09 | 146 | 0.372 | 0.85 | 0.928 | 0.550 | | 0.68 | 0.93 | <= | 0.701 | 0.004 | 0.000 | 3.040 | 0.000 | 39.70 | 39.75 |
| 39.83 | 126.05 | 2.39 | 187.50 | 1.49 | 0.79% | 0.805 | 0.52 | 126.96 | 1.72 | 1.05 | 157 | 0.437 | 0.85 | 0.931 | 0.549 | | 0.79 | 1.09 | <= | 0.569 | 0.005 | 0.000 | 3.036 | 0.000 | 39.75 | 39.83 |
| 39.87 | 126.14 | 2.39 | 195.41 | 1.49 | 0.76% | 0.772 | 0.52 | 132.27 | 1.69 | 1.03 | 161 | 0.467 | 0.85 | 0.932 | 0.549 | | 0.85 | 1.17 | <= | 0.367 | 0.002 | 0.000 | 3.030 | 0.000 | 39.83 | 39.87 |
| 39.96 | 126.47 | 2.40 | 207.63 | 1.53 | 0.74% | 0.745 | 0.51 | 140.36 | 1.66 | 1.01 | 168 | 0.519 | 0.85 | 0.935 | 0.549 | | 0.95 | 1.30 | | 0.000 | 0.000 | 0.000 | 3.028 | 0.000 | | |
| 40.02 | 126.70 | 2.40 | 213.10 | 1.56 | 0.73% | 0.740 | 0.50 | 143.91 | 1.65 | 1.00 | 171 | 0.545 | 0.85 | 0.937 | 0.549 | | 0.99 | 1.37 | | 0.000 | 0.000 | 0.000 | 3.028 | 0.000 | | |
| 40.08 | 126.06 | 2.40 | 214.66 | 1.43 | 0.67% | 0.674 | 0.50 | 144.79 | 1.62 | 1.00 | 172 | 0.552 | 0.85 | 0.938 | 0.549 | | 1.01 | 1.39 | | 0.000 | 0.000 | 0.000 | 3.028 | 0.000 | | |
| 40.16 | 123.91 | 2.41 | 213.49 | 1.07 | 0.50% | 0.507 | 0.50 | 143.74 | 1.54 | 1.00 | 171 | 0.543 | 0.85 | 0.941 | 0.549 | | 0.99 | 1.36 | | 0.000 | 0.000 | 0.000 | 3.028 | 0.000 | | |
| 40.20 | 123.88 | 2.41 | 210.75 | 1.07 | 0.51% | 0.514 | 0.50 | 141.76 | 1.55 | 1.00 | 169 | 0.525 | 0.85 | 0.942 | 0.548 | | 0.96 | 1.32 | | 0.000 | 0.000 | 0.000 | 3.028 | 0.000 | | |
| 40.29 | 118.40 | 2.42 | 199.71 | 0.51 | 0.26% | 0.258 | 0.50 | 134.01 | 1.42 | 1.00 | 159 | 0.457 | 0.85 | 0.945 | 0.548 | | 0.83 | 1.15 | <= | 0.344 | 0.004 | 0.000 | 3.028 | 0.000 | 40.20 | 40.29 |
| 40.33 | 120.48 | 2.42 | 191.70 | 0.69 | 0.36% | 0.365 | 0.50 | 128.47 | 1.50 | 1.00 | 153 | 0.412 | 0.85 | 0.946 | 0.548 | | 0.75 | 1.04 | <= | 0.480 | 0.002 | 0.000 | 3.025 | 0.000 | 40.29 | 40.33 |
| 40.42 | 124.23 | 2.43 | 168.93 | 1.21 | 0.72% | 0.727 | 0.53 | 112.80 | 1.73 | 1.06 | 141 | 0.338 | 0.85 | 0.949 | 0.548 | | 0.62 | 0.85 | <= | 1.083 | 0.012 | 0.000 | 3.022 | 0.000 | 40.33 | 40.42 |
| 40.47 | 125.04 | 2.43 | 130.04 | 1.47 | 1.13% | 1.152 | 0.59 | 86.36 | 1.95 | 1.24 | 124 | 0.256 | 0.85 | 0.951 | 0.548 | | 0.47 | 0.64 | <= | 1.944 | 0.012 | 0.000 | 3.011 | 0.000 | 40.42 | 40.47 |
| 40.55 | 126.49 | 2.43 | 118.41 | 1.85 | 1.56% | 1.595 | 0.63 | 78.35 | 2.08 | 1.42 | 127 | 0.270 | 0.85 | 0.953 | 0.548 | | 0.49 | 0.68 | <= | 1.903 | 0.018 | 0.000 | 2.999 | 0.000 | 40.47 | 40.55 |
| 40.60 | 126.34 | 2.44 | 97.80 | 1.93 | 1.97% | 2.024 | 0.67 | 64.35 | 2.22 | 1.72 | 124 | 0.257 | 0.85 | 0.955 | 0.547 | | 0.47 | 0.65 | <= | 1.940 | 0.012 | 0.000 | 2.981 | 0.000 | 40.55 | 40.60 |
| 40.67 | 125.81 | 2.44 | 76.30 | 1.95 | 2.56% | 2.640 | 0.72 | 49.77 | 2.39 | 2.25 | 124 | 0.256 | 0.84 | 0.957 | 0.547 | | 0.47 | 0.64 | <= | 1.943 | 0.016 | 0.000 | 2.969 | 0.000 | 40.60 | 40.67 |
| 40.73 | 125.54 | 2.44 | 69.16 | 1.94 | 2.81% | 2.908 | 0.74 | 44.90 | 2.45 | 2.52 | 124 | 0.258 | 0.84 | 0.959 | 0.547 | | 0.47 | 0.65 | <= | 1.938 | 0.014 | 0.000 | 2.953 | 0.000 | 40.67 | 40.73 |
| 40.79 | 125.24 | 2.45 | 63.40 | 1.92 | 3.03% | 3.150 | 0.76 | 40.97 | 2.50 | 2.78 | 124 | 0.259 | 0.84 | 0.961 | 0.547 | | 0.47 | 0.65 | <= | 1.935 | 0.014 | 0.000 | 2.939 | 0.000 | 40.73 | 40.79 |
| 40.87 | 125.11 | 2.45 | 60.08 | 1.92 | 3.20% | 3.332 | 0.77 | 38.67 | 2.54 | 2.97 | 125 | 0.261 | 0.84 | 0.963 | 0.547 | | 0.48 | 0.66 | <= | 1.928 | 0.019 | 0.000 | 2.925 | 0.000 | 40.79 | 40.87 |
| 40.93 | 125.18 | 2.46 | 61.15 | 1.92 | 3.14% | 3.271 | 0.77 | 39.33 | 2.53 | 2.91 | 125 | 0.260 | 0.84 | 0.965 | 0.546 | | 0.48 | 0.66 | <= | 1.931 | 0.014 | 0.000 | 2.906 | 0.000 | 40.87 | 40.93 |
| 41.00 | 125.43 | 2.46 | 65.65 | 1.95 | 2.97% | 3.086 | 0.75 | 42.28 | 2.49 | 2.70 | 125 | 0.261 | 0.84 | 0.967 | 0.546 | | 0.48 | 0.66 | <= | 1.930 | 0.016 | 0.000 | 2.892 | 0.000 | 40.93 | 41.00 |
| 41.06 | 125.38 | 2.47 | 69.85 | 1.89 | 2.71% | 2.805 | 0.74 | 45.03 | 2.44 | 2.46 | 122 | 0.249 | 0.84 | 0.969 | 0.546 | | 0.46 | 0.63 | <= | 1.964 | 0.014 | 0.000 | 2.876 | 0.000 | 41.00 | 41.06 |
| 41.13 | 124.94 | 2.47 | 70.34 | 1.78 | 2.53% | 2.623 | 0.73 | 45.29 | 2.41 | 2.37 | 118 | 0.234 | 0.84 | 0.971 | 0.546 | | 0.43 | 0.59 | <= | 2.015 | 0.017 | 0.000 | 2.862 | 0.000 | 41.06 | 41.13 |
| 41.20 | 124.44 | 2.47 | 69.95 | 1.66 | 2.37% | 2.460 | 0.73 | 44.96 | 2.40 | 2.30 | 114 | 0.218 | 0.84 | 0.973 | 0.546 | | 0.40 | 0.55 | <= | 2.074 | 0.017 | 0.000 | 2.845 | 0.000 | 41.13 | 41.20 |
| 41.26 | 124.14 | 2.48 | 69.26 | 1.60 | 2.31% | 2.396 | 0.73 | 44.45 | 2.39 | 2.28 | 112 | 0.211 | 0.84 | 0.975 | 0.546 | | 0.39 | 0.53 | <= | 2.104 | 0.015 | 0.000 | 2.828 | 0.000 | 41.20 | 41.26 |
| 41.35 | 124.06 | 2.48 | 68.58 | 1.59 | 2.32% | 2.406 | 0.73 | 43.91 | 2.40 | 2.30 | 112 | 0.210 | 0.84 | 0.978 | 0.545 | | 0.38 | 0.53 | <= | 2.110 | 0.023 | 0.000 | 2.813 | 0.000 | 41.26 | 41.35 |
| 41.40 | 124.06 | 2.49 | 68.77 | 1.59 | 2.31% | 2.399 | 0.73 | 43.99 | 2.40 | 2.29 | 112 | 0.209 | 0.84 | 0.980 | 0.545 | | 0.38 | 0.53 | <= | 2.110 | 0.013 | 0.000 | 2.790 | 0.000 | 41.35 | 41.40 |
| 41.45 | 124.05 | 2.49 | 68.77 | 1.59 | 2.31% | 2.399 | 0.73 | 43.94 | 2.40 | 2.29 | 112 | 0.209 | 0.84 | 0.981 | 0.545 | | 0.38 | 0.53 | <= | 2.111 | 0.013 | 0.000 | 2.777 | 0.000 | 41.40 | 41.45 |
| 41.53 | 124.10 | 2.49 | 69.65 | 1.59 | 2.28% | 2.368 | 0.72 | 44.45 | 2.39 | 2.26 | 111 | 0.209 | 0.84 | 0.984 | 0.545 | | 0.38 | 0.53 | <= | 2.113 | 0.020 | 0.000 | 2.764 | 0.000 | 41.45 | 41.53 |
| 41.58 | 124.16 | 2.50 | 70.73 | 1.60 | 2.26% | 2.345 | 0.72 | 45.11 | 2.38 | 2.23 | 112 | 0.210 | 0.84 | 0.985 | 0.545 | | 0.39 | 0.53 | <= | 2.109 | 0.013 | 0.000 | 2.744 | 0.000 | 41.53 | 41.58 |
| 41.65 | 124.25 | 2.50 | 72.29 | 1.60 | 2.21% | 2.293 | 0.72 | 46.08 | 2.37 | 2.18 | 112 | 0.209 | 0.84 | 0.987 | 0.544 | | 0.38 | 0.53 | <= | 2.112 | 0.018 | 0.000 | 2.732 | 0.000 | 41.58 | 41.65 |
| 41.71 | 124.37 | 2.51 | 74.25 | 1.62 | 2.18% | 2.258 | 0.71 | 47.31 | 2.35 | 2.13 | 112 | 0.211 | 0.84 | 0.989 | 0.544 | | 0.39 | 0.53 | <= | 2.103 | 0.015 | 0.000 | 2.714 | 0.000 | 41.65 | 41.71 |
| 41.80 | 124.52 | 2.51 | 77.18 | 1.63 | 2.11% | 2.183 | 0.71 | 49.15 | 2.33 | 2.05 | 112 | 0.212 | 0.84 | 0.992 | 0.544 | | 0.39 | 0.54 | <= | 2.100 | 0.023 | 0.000 | 2.699 | 0.000 | 41.71 | 41.80 |
| 41.85 | 124.62 | 2.51 | 78.94 | 1.64 | 2.08% | 2.146 | 0.70 | 50.25 | 2.32 | 2.00 | 113 | 0.213 | 0.84 | 0.994 | 0.544 | | 0.39 | 0.54 | <= | 2.096 | 0.013 | 0.000 | 2.676 | 0.000 | 41.80 | 41.85 |
| 41.91 | 124.70 | 2.52 | 80.21 | 1.65 | 2.06% | 2.124 | 0.70 | 51.02 | 2.31 | 1.97 | 113 | 0.214 | 0.83 | 0.996 | 0.544 | | 0.39 | 0.54 | <= | 2.091 | 0.015 | 0.000 | 2.663 | 0.000 | 41.85 | 41.91 |
| 41.98 | 124.79 | 2.52 | 80.69 | 1.66 | 2.06% | 2.124 | 0.70 | 51.26 | 2.31 | 1.97 | 113 | 0.215 | 0.83 | 0.998 | 0.543 | | 0.40 | 0.54 | <= | 2.087 | 0.018 | 0.000 | 2.648 | 0.000 | 41.91 | 41.98 |
| 42.07 | 124.92 | 2.53 | 80.79 | 1.69 | 2.09% | 2.159 | 0.70 | 51.23 | 2.31 | 1.99 | 114 | 0.218 | 0.83 | 1.001 | 0.543 | | 0.40 | 0.55 | <= | 2.074 | 0.022 | 0.000 | 2.631 | 0.000 | 41.98 | 42.07 |
| 42.11 | 125.01 | 2.53 | 80.89 | 1.71 | 2.11% | 2.182 | 0.70 | 51.25 | 2.31 | 2.00 | 115 | 0.220 | 0.83 | 1.002 | 0.543 | | 0.41 | 0.56 | <= | 2.065 | 0.010 | 0.000 | 2.608 | 0.000 | 42.07 | 42.11 |
| 42.17 | 125.20 | 2.53 | 82.06 | 1.75 | 2.13% | 2.201 | 0.70 | 51.95 | 2.31 | 1.99 | 116 | 0.225 | 0.83 | 1.004 | 0.543 | | 0.41 | 0.57 | <= | 2.047 | 0.015 | 0.000 | 2.598 | 0.000 | 42.11 | 42.17 |
| 42.24 | 125.44 | 2.54 | 84.21 | 1.79 | 2.13% | 2.192 | 0.70 | 53.27 | 2.30 | 1.96 | 117 | 0.230 | 0.83 | 1.006 | 0.543 | | 0.42 | 0.58 | <= | 2.030 | 0.017 | 0.000 | 2.584 | 0.000 | 42.17 | 42.24 |
| 42.30 | 125.65 | 2.54 | 87.05 | 1.83 | 2.10% | 2.165 | 0.69 | 55.06 | 2.29 | 1.91 | 118 | 0.235 | 0.83 | 1.008 | 0.542 | | 0.43 | 0.59 | <= | 2.012 | 0.014 | 0.000 | 2.567 | 0.000 | 42.24 | 42.30 |
| 42.38 | 125.92 | 2.55 | 91.74 | 1.86 | 2.03% | 2.085 | 0.69 | 58.01 | 2.26 | 1.82 | 120 | 0.239 | 0.83 | 1.010 | 0.542 | | 0.44 | 0.61 | <= | 1.997 | 0.019 | 0.000 | 2.552 | 0.000 | 42.30 | 42.38 |
| 42.47 | 126.14 | 2.55 | 98.87 | 1.87 | 1.89% | 1.942 | 0.67 | 62.53 | 2.21 | 1.70 | 121 | 0.243 | 0.83 | 1.013 | 0.542 | | 0.45 | 0.62 | <= | 1.982 | 0.021 | 0.000 | 2.533 | 0.000 | 42.38 | 42.47 |
| 42.50 | 126.15 | 2.56 | 102.49 | 1.85 | 1.81% | 1.851 | 0.66 | 64.84 | 2.19 | 1.63 | 121 | 0.244 | 0.83 | 1.014 | 0.542 | | 0.45 | 0.62 | <= | 1.982 | 0.007 | 0.000 | 2.512 | 0.000 | 42.47 | 42.50 |
| 42.58 | 125.97 | 2.56 | 109.72 | 1.77 | 1.61% | 1.652 | 0.65 | 69.41 | 2.13 | 1.51 | 120 | 0.242 | 0.83 | 1.016 | 0.542 | | 0.45 | 0.61 | <= | 1.988 | 0.019 | 0.000 | 2.504 | 0.000 | 42.50 | 42.58 |
| 42.64 | 125.85 | 2.56 | 115.48 | 1.71 | 1.48% | 1.514 | 0.63 | 73.05 | 2.08 | 1.43 | 120 | 0.243 | 0.83 | 1.018 | 0.541 | | 0.45 | 0.62 | <= | 1.985 | 0.014 | 0.000 | 2.485 | 0.000 | 42.58 | 42.64 |
| 42.69 | 125.76 | 2.57 | 120.27 | 1.67 | 1.39% | 1.419 | 0.62 | 76.07 | 2.05 | 1.37 | 121 | 0.246 | 0.83 | 1.020 | 0.541 | | 0.45 | 0.62 | <= | 1.975 | 0.012 | 0.000 | 2.471 | 0.000 | 42.64 | 42.69 |
| 42.78 | 125.98 | 2.57 | 130.04 | 1.67 | 1.28% | 1.310 | 0.61 | 82.23 | 2.00 | 1.30 | 125 | 0.262 | 0.83 | 1.023 | 0.541 | | 0.48 | 0.67 | <= | 1.927 | 0.021 | 0.000 | 2.459 | 0.000 | 42.69 | 42.78 |
| 42.83 | 125.36 | 2.58 | 135.03 | 1.52 | 1.13% | 1.148 | 0.59 | 85.36 | 1.95 | 1.24 | 124 | 0.259 | 0.83 | 1.024 | 0.541 | | 0.48 | 0.66 | <= | 1.935 | 0.012 | 0.000 | 2.438 | 0.000 | 42.78 | 42.83 |
| 42.89 | 123.78 | 2.58 | 142.06 | 1.20 | 0.84% | 0.860 | 0.56 | 89.78 | 1.85 | 1.14 | 122 | 0.250 | 0.83 | 1.026 | 0.541 | | 0.46 | 0.64 | <= | 1.962 | 0.014 | 0.000 | 2.427 | 0.000 | 42.83 | 42.89 |
| 42.96 | 124.22 | 2.58 | 147.43 | 1.26 | 0.85% | 0.870 | 0.56 | 93.10 | 1.84 | 1.13 | 126 | 0.267 | 0.83 | 1.028 | 0.540 | | 0.49 | 0.68 | <= | 1.879 | 0.016 | 0.000 | 2.413 | 0.000 | 42.89 | 42.96 |
| 43.03 | 124.50 | 2.59 | 148.71 | 1.30 | 0.87% | 0.890 | 0.56 | 93.79 | 1.84 | 1.14 | 127 | 0.272 | 0.83 | 1.031 | 0.540 | | 0.50 | 0.69 | <= | 1.887 | 0.016 | 0.000 | 2.397 | 0.000 | 42.96 | 43.03 |
| 43.09 | 124.60 | 2.59 | 145.09 | 1.33 | 0.92% | 0.933 | 0.57 | 91.36 | 1.86 | 1.16 | 126 | 0.265 | 0.82 | 1.032 | 0.540 | | 0.49 | 0.68 | <= | 1.916 | 0.014 | 0.000 | 2.381 | 0.000 | 43.03 | 43.09 |
| 43.16 | 124.63 | 2.60 | 132.78 | 1.38 | 1.04% | 1.060 | 0.59 | 83.35 | 1.93 | 1.22 | 120 | 0.242 | 0.82 | 1.035 | 0.540 | | 0.45 | 0.62 | <= | 1.988 | 0.017 | 0.000 | 2.367 | 0.000 | 43.09 | 43.16 |
| 43.23 | 124.97 | 2.60 | 123.98 | 1.48 | 1.19% | 1.219 | 0.61 | 77.60 | 2.00 | 1.30 | 118 | 0.233 | 0.82 | 1.037 | 0.540 | | 0.43 | 0.59 | <= | 2.018 | 0.017 | 0.000 | 2.351 | 0.000 | 43.16 | 43.23 |
| 43.30 | 125.32 | 2.61 | 112.16 | 1.60 | 1.43% | 1.460 | 0.63 | 69.94 | 2.09 | 1.43 | 116 | 0.226 | 0.82 | 1.039 | 0.539 | | 0.42 | 0.58 | <= | 2.044 | 0.017 | 0.000 | 2.334 | 0.000 | 43.23 | 43.30 |
| 43.36 | 125.88 | 2.61 | 100.24 | 1.80 | 1.80% | 1.844 | 0.67 | 62.25 | 2.20 | 1.66 | 118 | 0.234 | 0.82 | 1.041 | 0.539 | | 0.43 | 0.60 | <= | 2.016 | 0.015 | 0.000 | 2.316 | 0.000 | 43.30 | 43.36 |
| 43.42 | 125.92 | 2.61 | 82.06 | 1.93 | 2.35% | 2.429 | 0.71 | 50.60 | 2.35 | 2.12 | 120 | 0.243 | 0.82 | 1.043 | 0.539 | | 0.45 | 0.62 | <= | 1.985 | 0.014 | 0.000 | 2.302 | 0.000 | 43.36 | 43.42 |
| 43.48 | 125.81 | 2.62 | 71.31 | 2.00 | 2.80% | 2.911 | 0.74 | 43.70 | 2.45 | 2.54 | 123 | 0.255 | 0.82 | 1.045 | 0.539 | | 0.47 | 0.65 | <= | 1.946 | 0.014 | 0.000 | 2.288 | 0.000 | 43.42 | 43.48 |
| 43.55 | 125.56 | 2.62 | 59.20 | 2.05 | 3.46% | 3.623 | 0.78 | 35.94 | 2.59 | 3.24 | 127 | 0.272 | 0.82 | 1.047 | 0.539 | | 0.50 | 0.69 | <= | 1.899 | 0.016 | 0.000 | 2.274 | 0.000 | 43.48 | 43.55 |
| 43.63 | 125.19 | 2.63 | 52.36 | 2.03 | 3.88% | 4.082 | 0.81 | 31.54 | 2.66 | 3.75 | 128 | 0.275 | 0.82 | 1.049 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 43.68 | 125.02 | 2.63 | 49.82 | 2.02 | 4.05% | 4.280 | 0.82 | 29.90 | 2.70 | 3.98 | 131 | 0.290 | 0.82 | 1.051 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 43.75 | 124.57 | 2.63 | 43.47 | 1.99 | 4.58% | 4.873 | 0.84 | 25.84 | 2.79 | 4.66 | 154 | 0.418 | 0.82 | 1.053 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 43.81 | 124.31 | 2.64 | 41.90 | 1.94 | 4.63% | 4.941 | 0.85 | 24.81 | 2.80 | 4.81 | 159 | 0.452 | 0.82 | 1.055 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 43.88 | 123.68 | 2.64 | 37.11 | 1.85 | 4.99% | 5.367 | 0.87 | 21.75 | 2.87 | 5.43 | 179 | 0.615 | 0.82 | 1.057 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 43.95 | 123.34 | 2.65 | 35.26 | 1.80 | 5.10% | 5.519 | 0.88 | 20.55 | 2.90 | 5.69 | 188 | 0.696 | 0.82 | 1.059 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.01 | 122.87 | 2.65 | 33.69 | 1.71 | 5.08% | 5.509 | 0.88 | 19.54 | 2.92 | 5.85 | 193 | 0.750 | 0.82 | 1.061 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.08 | 122.32 | 2.65 | 33.30 | 1.60 | 4.80% | 5.221 | 0.88 | 19.27 | 2.90 | 5.74 | 189 | 0.711 | 0.82 | 1.063 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.14 | 122.01 | 2.66 | 33.99 | 1.52 | 4.47% | 4.851 | 0.87 | 19.68 | 2.87 | 5.45 | 180 | 0.622 | 0.82 | 1.065 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.21 | 121.74 | 2.66 | 33.99 | 1.46 | 4.30% | 4.660 | 0.87 | 19.65 | 2.86 | 5.35 | 176 | 0.591 | 0.82 | 1.067 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.28 | 120.77 | 2.67 | 33.99 | 1.28 | 3.77% | 4.086 | 0.86 | 19.62 | 2.82 | 5.00 | 165 | 0.497 | 0.82 | 1.070 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.33 | 119.79 | 2.67 | 33.79 | 1.12 | 3.31% | 3.599 | 0.85 | 19.48 | 2.79 | 4.70 | 155 | 0.427 | 0.81 | 1.071 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.40 | 119.19 | 2.67 | 31.93 | 1.06 | 3.32% | 3.623 | 0.85 | 18.29 | 2.81 | 4.90 | 162 | 0.474 | 0.81 | 1.073 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.48 | 118.20 | 2.68 | 29.39 | 0.95 | 3.23% | 3.556 | 0.86 | 16.67 | 2.84 | 5.15 | 170 | 0.535 | 0.81 | 1.076 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.56 | 117.34 | 2.68 | 25.49 | 0.88 | 3.45% | 3.858 | 0.88 | 14.22 | 2.92 | 5.91 | 195 | 0.769 | 0.81 | 1.078 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.61 | 117.03 | 2.69 | 23.34 | 0.87 | 3.73% | 4.212 | 0.90 | 12.86 | 2.98 | 6.54 | 216 | 1.014 | 0.81 | 1.080 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.68 | 116.62 | 2.69 | 20.99 | 0.85 | 4.05% | 4.645 | 0.92 | 11.38 | 3.05 | 7.35 | 242 | 1.405 | 0.81 | 1.082 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.74 | 116.42 | 2.69 | 19.92 | 0.85 | 4.27% | 4.934 | 0.94 | 10.71 | 3.09 | 7.82 | 258 | 1.677 | 0.81 | 1.084 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.79 | 116.34 | 2.70 | 19.52 | 0.84 | 4.30% | 4.993 | 0.94 | 10.45 | 3.10 | 7.97 | 263 | 1.771 | 0.81 | 1.085 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.88 | 116.54 | 2.70 | 19.33 | 0.87 | 4.50% | 5.232 | 0.94 | 10.31 | 3.12 | 8.20 | 270 | 1.920 | 0.81 | 1.088 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 44.92 | 116.68 | 2.70 | 19.62 | 0.88 | 4.49% | 5.202 | 0.94 | 10.48 | 3.11 | 8.10 | 267 | 1.856 | 0.81 | 1.090 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.00 | 117.15 | 2.71 | 21.38 | 0.91 | 4.26% | 4.874 | 0.93 | 11.55 | 3.06 | 7.44 | 246 | 1.459 | 0.81 | 1.092 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.06 | 117.60 | 2.71 | 21.38 | 0.97 | 4.54% | 5.196 | 0.93 | 11.54 | 3.08 | 7.67 | 253 | 1.588 | 0.81 | 1.094 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.14 | 117.82 | 2.72 | 21.48 | 1.00 | 4.66% | 5.330 | 0.93 | 11.58 | 3.09 | 7.74 | 255 | 1.631 | 0.81 | 1.096 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.20 | 115.61 | 2.72 | 21.28 | 0.74 | 3.48% | 3.987 | 0.91 | 11.44 | 3.01 | 6.83 | 225 | 1.145 | 0.81 | 1.098 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.28 | 110.50 | 2.72 | 20.21 | 0.38 | 1.88% | 2.173 | 0.87 | 10.77 | 2.87 | 5.42 | 179 | 0.613 | 0.81 | 1.101 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.32 | 111.98 | 2.73 | 19.72 | 0.46 | 2.33% | 2.707 | 0.89 | 10.46 | 2.94 | 6.08 | 201 | 0.831 | 0.81 | 1.102 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.39 | 113.46 | 2.73 | 19.13 | 0.57 | 2.98% | 3.476 | 0.91 | 10.08 | 3.02 | 6.93 | 229 | 1.194 | 0.81 | 1.104 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.45 | 114.49 | 2.73 | 19.13 | 0.66 | 3.45% | 4.025 | 0.93 | 10.07 | 3.06 | 7.40 | 244 | 1.433 | 0.81 | 1.106 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.52 | 115.28 | 2.74 | 18.84 | 0.74 | 3.93% | 4.596 | 0.94 | 9.88 | 3.10 | 7.93 | 262 | 1.745 | 0.81 | 1.108 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.60 | 115.82 | 2.74 | 19.04 | 0.79 | 4.15% | 4.847 | 0.94 | 9.99 | 3.11 | 8.06 | 266 | 1.833 | 0.80 | 1.111 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.65 | 116.06 | 2.75 | 19.23 | 0.81 | 4.21% | 4.914 | 0.94 | 10.09 | 3.11 | 8.06 | 266 | 1.833 | 0.80 | 1.112 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.71 | 116.14 | 2.75 | 19.04 | 0.83 | 4.36% | 5.095 | 0.95 | 9.96 | 3.13 | 8.25 | 272 | 1.958 | 0.80 | 1.114 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.78 | 116.43 | 2.75 | 19.04 | 0.86 | 4.52% | 5.280 | 0.95 | 9.95 | 3.14 | 8.39 | 277 | 2.053 | 0.80 | 1.116 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.84 | 116.79 | 2.76 | 18.94 | 0.90 | 4.75% | 5.561 | 0.95 | 9.88 | 3.15 | 8.62 | 284 | 2.218 | 0.80 | 1.118 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.91 | 117.21 | 2.76 | 19.43 | 0.95 | 4.89% | 5.699 | 0.95 | 10.16 | 3.15 | 8.57 | 283 | 2.187 | 0.80 | 1.120 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 45.98 | 117.50 | 2.76 | 20.21 | 0.97 | 4.80% | 5.560 | 0.95 | 10.62 | 3.13 | 8.28 | 273 | 1.975 | 0.80 | 1.123 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.05 | 118.03 | 2.77 | 20.50 | 1.04 | 5.07% | 5.865 | 0.95 | 10.78 | 3.14 | 8.41 | 277 | 2.066 | 0.80 | 1.125 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.11 | 118.52 | 2.77 | 20.79 | 1.11 | 5.34% | 6.161 | 0.95 | 10.95 | 3.15 | 8.52 | 281 | 2.150 | 0.80 | 1.127 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.17 | 119.24 | 2.78 | 21.19 | 1.22 | 5.76% | 6.625 | 0.96 | 11.18 | 3.16 | 8.71 | 287 | 2.289 | 0.80 | 1.129 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.26 | 119.60 | 2.78 | 22.36 | 1.25 | 5.59% | 6.385 | 0.95 | 11.86 | 3.13 | 8.29 | 274 | 1.987 | 0.80 | 1.131 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.32 | 119.60 | 2.79 | 22.55 | 1.25 | 5.54% | 6.324 | 0.94 | 11.96 | 3.12 | 8.22 | 271 | 1.936 | 0.80 | 1.133 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.38 | 119.64 | 2.79 | 22.55 | 1.26 | 5.59% | 6.376 | 0.95 | 11.95 | 3.13 | 8.26 | 272 | 1.961 | 0.80 | 1.135 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.44 | 119.85 | 2.79 | 22.26 | 1.30 | 5.84% | 6.678 | 0.95 | 11.76 | 3.15 | 8.51 | 281 | 2.136 | 0.80 | 1.137 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.52 | 120.18 | 2.80 | 22.16 | 1.36 | 6.14% | 7.024 | 0.96 | 11.68 | 3.16 | 8.74 | 288 | 2.308 | 0.80 | 1.139 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.58 | 120.49 | 2.80 | 22.75 | 1.41 | 6.20% | 7.068 | 0.95 | 12.02 | 3.15 | 8.63 | 285 | 2.227 | 0.80 | 1.141 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.63 | 120.78 | 2.80 | 24.12 | 1.44 | 5.97% | 6.755 | 0.94 | 12.83 | 3.12 | 8.16 | 269 | 1.895 | 0.80 | 1.143 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.72 | 121.27 | 2.81 | 25.49 | 1.51 | 5.92% | 6.658 | 0.94 | 13.63 | 3.09 | 7.84 | 259 | 1.692 | 0.80 | 1.146 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.76 | 121.42 | 2.81 | 26.46 | 1.52 | 5.74% | 6.428 | 0.93 | 14.21 | 3.07 | 7.54 | 249 | 1.513 | 0.80 | 1.147 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.84 | 120.07 | 2.82 | 27.15 | 1.25 | 4.60% | 5.137 | 0.91 | 14.60 | 2.99 | 6.66 | 220 | 1.068 | 0.79 | 1.149 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.90 | 118.24 | 2.82 | 27.54 | 0.97 | 3.52% | 3.924 | 0.88 | 14.81 | 2.91 | 5.79 | 191 | 0.729 | 0.79 | 1.151 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 46.98 | 119.14 | 2.82 | 28.22 | 1.09 | 3.86% | 4.292 | 0.89 | 15.20 | 2.93 | 5.96 | 197 | 0.786 | 0.79 | 1.154 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.03 | 119.64 | 2.83 | 28.61 | 1.16 | 4.05% | 4.499 | 0.89 | 15.42 | 2.93 | 6.04 | 199 | 0.818 | 0.79 | 1.155 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.09 | 120.14 | 2.83 | 28.03 | 1.25 | 4.46% | 4.961 | 0.90 | 15.05 | 2.97 | 6.43 | 212 | 0.969 | 0.79 | 1.157 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.16 | 120.63 | 2.84 | 27.54 | 1.35 | 4.90% | 5.465 | 0.91 | 14.74 | 3.01 | 6.83 | 225 | 1.143 | 0.79 | 1.159 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-1

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft): 1 | MAGNITUDE: 6.62 | MAGNITUDE SCALING FACTOR: 1.38

GROUNDWATER LEVEL: 10 feet | ACCELERATION: 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47.23 | 121.21 | 2.84 | 28.12 | 1.45 | 5.16% | 5.736 | 0.91 | 15.06 | 3.01 | 6.90 | 228 | 1.179 | 0.79 | 1.162 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.29 | 121.38 | 2.84 | 26.36 | 1.51 | 5.73% | 6.421 | 0.93 | 14.00 | 3.07 | 7.60 | 251 | 1.544 | 0.79 | 1.163 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.35 | 122.11 | 2.85 | 28.22 | 1.63 | 5.78% | 6.424 | 0.92 | 15.09 | 3.05 | 7.29 | 241 | 1.375 | 0.79 | 1.165 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.42 | 122.72 | 2.85 | 30.96 | 1.72 | 5.56% | 6.119 | 0.91 | 16.69 | 3.00 | 6.73 | 222 | 1.098 | 0.79 | 1.168 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.52 | 123.51 | 2.86 | 37.50 | 1.80 | 4.80% | 5.196 | 0.87 | 20.54 | 2.88 | 5.49 | 181 | 0.633 | 0.79 | 1.171 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.57 | 123.95 | 2.86 | 41.12 | 1.85 | 4.50% | 4.835 | 0.85 | 22.66 | 2.82 | 4.99 | 165 | 0.494 | 0.79 | 1.172 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.61 | 124.20 | 2.86 | 42.68 | 1.90 | 4.45% | 4.772 | 0.85 | 23.56 | 2.81 | 4.84 | 160 | 0.458 | 0.79 | 1.173 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.70 | 124.68 | 2.87 | 46.20 | 1.97 | 4.26% | 4.546 | 0.84 | 25.60 | 2.76 | 4.48 | 148 | 0.381 | 0.79 | 1.176 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.74 | 124.88 | 2.87 | 47.37 | 2.01 | 4.24% | 4.517 | 0.83 | 26.27 | 2.75 | 4.39 | 145 | 0.364 | 0.79 | 1.177 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.83 | 125.23 | 2.88 | 49.13 | 2.08 | 4.23% | 4.497 | 0.83 | 27.26 | 2.74 | 4.29 | 141 | 0.343 | 0.79 | 1.180 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.88 | 125.44 | 2.88 | 51.18 | 2.11 | 4.12% | 4.369 | 0.82 | 28.44 | 2.72 | 4.11 | 136 | 0.312 | 0.79 | 1.182 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 47.95 | 125.67 | 2.88 | 54.70 | 2.13 | 3.89% | 4.111 | 0.81 | 30.47 | 2.67 | 3.81 | 127 | 0.272 | 0.79 | 1.184 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 48.01 | 125.84 | 2.89 | 56.85 | 2.16 | 3.80% | 4.003 | 0.80 | 31.70 | 2.65 | 3.66 | 128 | 0.274 | 0.79 | 1.186 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 48.09 | 126.18 | 2.89 | 61.74 | 2.20 | 3.56% | 3.739 | 0.79 | 34.52 | 2.60 | 3.34 | 128 | 0.275 | 0.78 | 1.188 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.258 | 0.000 | | |
| 48.14 | 126.33 | 2.90 | 63.79 | 2.22 | 3.48% | 3.646 | 0.78 | 35.68 | 2.58 | 3.23 | 128 | 0.276 | 0.78 | 1.190 | 0.524 | | 0.53 | 0.72 | <= | 1.887 | 0.011 | 0.000 | 2.258 | 0.000 | 48.09 | 48.14 |
| 48.23 | 126.50 | 2.90 | 66.62 | 2.24 | 3.36% | 3.515 | 0.78 | 37.28 | 2.56 | 3.08 | 128 | 0.276 | 0.78 | 1.193 | 0.524 | | 0.53 | 0.73 | <= | 1.887 | 0.020 | 0.000 | 2.246 | 0.000 | 48.14 | 48.23 |
| 48.28 | 126.55 | 2.91 | 67.99 | 2.24 | 3.29% | 3.442 | 0.77 | 38.04 | 2.54 | 3.00 | 128 | 0.275 | 0.78 | 1.194 | 0.524 | | 0.52 | 0.72 | <= | 1.891 | 0.011 | 0.000 | 2.226 | 0.000 | 48.23 | 48.28 |
| 48.34 | 126.55 | 2.91 | 68.19 | 2.24 | 3.28% | 3.431 | 0.77 | 38.11 | 2.54 | 2.99 | 128 | 0.275 | 0.78 | 1.196 | 0.523 | | 0.52 | 0.72 | <= | 1.892 | 0.014 | 0.000 | 2.215 | 0.000 | 48.28 | 48.34 |
| 48.41 | 126.58 | 2.91 | 69.16 | 2.24 | 3.24% | 3.381 | 0.77 | 38.62 | 2.53 | 2.94 | 128 | 0.274 | 0.78 | 1.198 | 0.523 | | 0.52 | 0.72 | <= | 1.894 | 0.016 | 0.000 | 2.201 | 0.000 | 48.34 | 48.41 |
| 48.47 | 126.60 | 2.92 | 69.56 | 2.24 | 3.22% | 3.361 | 0.77 | 38.81 | 2.53 | 2.92 | 128 | 0.273 | 0.78 | 1.200 | 0.523 | | 0.52 | 0.72 | <= | 1.896 | 0.014 | 0.000 | 2.185 | 0.000 | 48.41 | 48.47 |
| 48.55 | 126.74 | 2.92 | 70.53 | 2.27 | 3.22% | 3.358 | 0.77 | 39.31 | 2.53 | 2.90 | 128 | 0.276 | 0.78 | 1.203 | 0.523 | | 0.53 | 0.73 | <= | 1.887 | 0.018 | 0.000 | 2.171 | 0.000 | 48.47 | 48.55 |
| 48.61 | 126.96 | 2.93 | 72.68 | 2.32 | 3.19% | 3.326 | 0.76 | 40.52 | 2.51 | 2.83 | 129 | 0.281 | 0.78 | 1.205 | 0.522 | | 0.54 | 0.74 | <= | 1.874 | 0.013 | 0.000 | 2.153 | 0.000 | 48.55 | 48.61 |
| 48.68 | 127.16 | 2.93 | 74.05 | 2.37 | 3.20% | 3.332 | 0.76 | 41.26 | 2.51 | 2.80 | 131 | 0.287 | 0.78 | 1.207 | 0.522 | | 0.55 | 0.76 | <= | 1.860 | 0.016 | 0.000 | 2.140 | 0.000 | 48.61 | 48.68 |
| 48.75 | 127.09 | 2.94 | 74.93 | 2.34 | 3.12% | 3.250 | 0.76 | 41.71 | 2.50 | 2.74 | 129 | 0.282 | 0.78 | 1.209 | 0.522 | | 0.54 | 0.74 | <= | 1.873 | 0.016 | 0.000 | 2.124 | 0.000 | 48.68 | 48.75 |
| 48.81 | 126.67 | 2.94 | 74.25 | 2.21 | 2.98% | 3.099 | 0.75 | 41.27 | 2.48 | 2.69 | 126 | 0.265 | 0.78 | 1.211 | 0.522 | | 0.51 | 0.70 | <= | 1.918 | 0.014 | 0.000 | 2.109 | 0.000 | 48.75 | 48.81 |
| 48.86 | 126.34 | 2.94 | 71.90 | 2.14 | 2.98% | 3.103 | 0.76 | 39.87 | 2.50 | 2.75 | 124 | 0.257 | 0.78 | 1.212 | 0.521 | | 0.49 | 0.68 | <= | 1.941 | 0.012 | 0.000 | 2.095 | 0.000 | 48.81 | 48.86 |
| 48.93 | 125.70 | 2.95 | 68.09 | 1.99 | 2.92% | 3.055 | 0.76 | 37.61 | 2.51 | 2.82 | 120 | 0.240 | 0.78 | 1.215 | 0.521 | | 0.46 | 0.63 | <= | 1.995 | 0.017 | 0.000 | 2.083 | 0.000 | 48.86 | 48.93 |
| 49.02 | 124.38 | 2.95 | 60.66 | 1.73 | 2.85% | 2.998 | 0.77 | 33.27 | 2.55 | 3.01 | 112 | 0.212 | 0.78 | 1.217 | 0.521 | | 0.41 | 0.56 | <= | 2.098 | 0.023 | 0.000 | 2.066 | 0.000 | 48.93 | 49.02 |
| 49.08 | 123.86 | 2.96 | 54.02 | 1.68 | 3.11% | 3.290 | 0.79 | 29.41 | 2.62 | 3.42 | 113 | 0.214 | 0.78 | 1.219 | 0.521 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.044 | 0.000 | | |
| 49.13 | 123.62 | 2.96 | 49.91 | 1.67 | 3.35% | 3.557 | 0.81 | 27.01 | 2.67 | 3.77 | 124 | 0.259 | 0.78 | 1.221 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.044 | 0.000 | | |
| 49.19 | 123.14 | 2.96 | 44.25 | 1.63 | 3.68% | 3.948 | 0.83 | 23.73 | 2.74 | 4.33 | 143 | 0.351 | 0.78 | 1.223 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.044 | 0.000 | | |
| 49.26 | 122.58 | 2.97 | 38.97 | 1.57 | 4.03% | 4.361 | 0.85 | 20.67 | 2.82 | 4.97 | 164 | 0.490 | 0.77 | 1.225 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.044 | 0.000 | | |
| 49.35 | 122.83 | 2.97 | 33.60 | 1.71 | 5.09% | 5.583 | 0.89 | 17.56 | 2.95 | 6.23 | 206 | 0.888 | 0.77 | 1.228 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.044 | 0.000 | | |
| 49.39 | 122.98 | 2.97 | 31.64 | 1.78 | 5.63% | 6.210 | 0.91 | 16.42 | 3.01 | 6.83 | 225 | 1.144 | 0.77 | 1.229 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.044 | 0.000 | | |
| 49.48 | 123.60 | 2.98 | 34.87 | 1.87 | 5.36% | 5.864 | 0.89 | 18.24 | 2.95 | 6.25 | 206 | 0.896 | 0.77 | 1.232 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.044 | 0.000 | | |
| 49.53 | 124.32 | 2.98 | 45.42 | 1.89 | 4.16% | 4.454 | 0.84 | 24.25 | 2.77 | 4.56 | 151 | 0.397 | 0.77 | 1.233 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.044 | 0.000 | | |
| 49.59 | 124.85 | 2.99 | 55.19 | 1.90 | 3.44% | 3.640 | 0.80 | 29.80 | 2.64 | 3.59 | 119 | 0.236 | 0.77 | 1.235 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.044 | 0.000 | | |
| 49.66 | 125.08 | 2.99 | 60.76 | 1.90 | 3.13% | 3.289 | 0.78 | 32.93 | 2.58 | 3.18 | 118 | 0.231 | 0.77 | 1.237 | 0.518 | | 0.45 | 0.61 | <= | 2.024 | 0.017 | 0.000 | 2.044 | 0.000 | 49.59 | 49.66 |
| 49.71 | 125.09 | 2.99 | 66.62 | 1.85 | 2.78% | 2.908 | 0.76 | 36.24 | 2.51 | 2.80 | 115 | 0.221 | 0.77 | 1.239 | 0.518 | | 0.43 | 0.59 | <= | 2.061 | 0.012 | 0.000 | 2.027 | 0.000 | 49.66 | 49.71 |
| 49.79 | 119.57 | 3.00 | 75.42 | 0.83 | 1.10% | 1.146 | 0.67 | 41.19 | 2.19 | 1.65 | 81 | 0.129 | 0.77 | 1.241 | 0.518 | | 0.25 | 0.34 | <= | 2.740 | 0.026 | 0.000 | 2.014 | 0.000 | 49.71 | 49.79 |
| 49.85 | 120.28 | 3.00 | 78.35 | 0.91 | 1.16% | 1.208 | 0.67 | 42.81 | 2.19 | 1.64 | 84 | 0.135 | 0.77 | 1.243 | 0.518 | | 0.26 | 0.36 | <= | 2.656 | 0.019 | 0.000 | 1.988 | 0.000 | 49.79 | 49.85 |
| 49.94 | 122.52 | 3.01 | 76.49 | 1.24 | 1.62% | 1.688 | 0.70 | 41.69 | 2.29 | 1.93 | 94 | 0.158 | 0.77 | 1.246 | 0.517 | | 0.31 | 0.42 | <= | 2.415 | 0.026 | 0.000 | 1.969 | 0.000 | 49.85 | 49.94 |
| 49.99 | 123.45 | 3.01 | 71.22 | 1.45 | 2.04% | 2.126 | 0.72 | 38.67 | 2.39 | 2.27 | 101 | 0.177 | 0.77 | 1.248 | 0.517 | | 0.34 | 0.47 | <= | 2.282 | 0.014 | 0.000 | 1.943 | 0.000 | 49.94 | 49.99 |
| 50.07 | 124.59 | 3.02 | 62.81 | 1.76 | 2.80% | 2.943 | 0.77 | 33.85 | 2.53 | 2.94 | 112 | 0.212 | 0.77 | 1.250 | 0.517 | | 0.41 | 0.57 | <= | 2.098 | 0.020 | 0.000 | 1.929 | 0.000 | 49.99 | 50.07 |
| 50.11 | 124.25 | 3.02 | 44.05 | 1.89 | 4.29% | 4.606 | 0.85 | 23.21 | 2.80 | 4.77 | 157 | 0.442 | 0.77 | 1.251 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.19 | 124.78 | 3.02 | 50.11 | 1.95 | 3.89% | 4.141 | 0.82 | 26.60 | 2.72 | 4.14 | 136 | 0.317 | 0.77 | 1.254 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.25 | 124.46 | 3.03 | 45.13 | 1.93 | 4.28% | 4.584 | 0.84 | 23.76 | 2.79 | 4.69 | 155 | 0.424 | 0.77 | 1.256 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.31 | 124.14 | 3.03 | 42.39 | 1.89 | 4.46% | 4.802 | 0.86 | 22.19 | 2.83 | 5.01 | 165 | 0.500 | 0.77 | 1.258 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.37 | 123.26 | 3.04 | 43.27 | 1.66 | 3.84% | 4.126 | 0.84 | 22.66 | 2.77 | 4.55 | 150 | 0.395 | 0.77 | 1.260 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.45 | 121.63 | 3.04 | 43.86 | 1.33 | 3.03% | 3.258 | 0.82 | 22.96 | 2.70 | 3.97 | 131 | 0.290 | 0.77 | 1.262 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.52 | 121.23 | 3.04 | 45.81 | 1.24 | 2.71% | 2.900 | 0.80 | 24.02 | 2.65 | 3.62 | 120 | 0.239 | 0.76 | 1.264 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.58 | 120.94 | 3.05 | 43.17 | 1.21 | 2.80% | 3.016 | 0.81 | 22.51 | 2.68 | 3.86 | 127 | 0.272 | 0.76 | 1.266 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.64 | 120.44 | 3.05 | 37.02 | 1.19 | 3.21% | 3.503 | 0.84 | 19.04 | 2.78 | 4.65 | 153 | 0.416 | 0.76 | 1.268 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.70 | 120.31 | 3.06 | 32.42 | 1.22 | 3.76% | 4.155 | 0.87 | 16.45 | 2.89 | 5.56 | 183 | 0.655 | 0.76 | 1.270 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.78 | 119.88 | 3.06 | 29.98 | 1.19 | 3.97% | 4.421 | 0.89 | 15.06 | 2.94 | 6.05 | 200 | 0.820 | 0.76 | 1.272 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.83 | 120.24 | 3.06 | 30.37 | 1.24 | 4.08% | 4.541 | 0.89 | 15.26 | 2.94 | 6.08 | 201 | 0.832 | 0.76 | 1.274 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.91 | 121.15 | 3.07 | 31.54 | 1.39 | 4.41% | 4.882 | 0.89 | 15.89 | 2.95 | 6.16 | 203 | 0.859 | 0.76 | 1.276 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 50.96 | 121.87 | 3.07 | 34.48 | 1.48 | 4.29% | 4.712 | 0.88 | 17.52 | 2.90 | 5.71 | 188 | 0.701 | 0.76 | 1.278 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 51.05 | 122.36 | 3.08 | 35.26 | 1.57 | 4.45% | 4.878 | 0.88 | 17.92 | 2.90 | 5.73 | 189 | 0.709 | 0.76 | 1.281 | 0.513 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 51.09 | 122.58 | 3.08 | 37.21 | 1.59 | 4.27% | 4.659 | 0.87 | 18.99 | 2.87 | 5.40 | 178 | 0.607 | 0.76 | 1.282 | 0.513 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 51.18 | 123.43 | 3.08 | 46.40 | 1.66 | 3.58% | 3.832 | 0.83 | 24.07 | 2.73 | 4.21 | 139 | 0.329 | 0.76 | 1.285 | 0.513 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 51.23 | 124.06 | 3.09 | 54.60 | 1.72 | 3.15% | 3.339 | 0.80 | 28.60 | 2.63 | 3.50 | 115 | 0.223 | 0.76 | 1.286 | 0.513 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.909 | 0.000 | | |
| 51.32 | 125.31 | 3.09 | 72.39 | 1.85 | 2.56% | 2.670 | 0.75 | 38.41 | 2.46 | 2.56 | 113 | 0.215 | 0.76 | 1.289 | 0.512 | | 0.42 | 0.58 | <= | 2.086 | 0.023 | 0.000 | 1.909 | 0.000 | 51.23 | 51.32 |
| 51.36 | 125.83 | 3.10 | 78.94 | 1.93 | 2.44% | 2.545 | 0.73 | 42.01 | 2.41 | 2.36 | 115 | 0.222 | 0.76 | 1.290 | 0.512 | | 0.43 | 0.60 | <= | 2.059 | 0.010 | 0.000 | 1.886 | 0.000 | 51.32 | 51.36 |
| 51.44 | 126.65 | 3.10 | 87.93 | 2.09 | 2.38% | 2.464 | 0.72 | 46.92 | 2.36 | 2.17 | 119 | 0.238 | 0.76 | 1.293 | 0.512 | | 0.46 | 0.64 | <= | 2.001 | 0.019 | 0.000 | 1.877 | 0.000 | 51.36 | 51.44 |
| 51.48 | 127.09 | 3.10 | 93.79 | 2.17 | 2.31% | 2.393 | 0.71 | 50.12 | 2.33 | 2.06 | 121 | 0.247 | 0.76 | 1.294 | 0.511 | | 0.48 | 0.66 | <= | 1.972 | 0.009 | 0.000 | 1.857 | 0.000 | 51.44 | 51.48 |
| 51.56 | 127.83 | 3.11 | 109.13 | 2.28 | 2.09% | 2.151 | 0.68 | 58.52 | 2.25 | 1.79 | 125 | 0.262 | 0.76 | 1.297 | 0.511 | | 0.51 | 0.71 | <= | 1.925 | 0.018 | 0.000 | 1.848 | 0.000 | 51.48 | 51.56 |
| 51.63 | 128.27 | 3.11 | 120.66 | 2.34 | 1.94% | 1.991 | 0.66 | 64.79 | 2.19 | 1.64 | 128 | 0.276 | 0.76 | 1.299 | 0.511 | | 0.54 | 0.74 | <= | 1.887 | 0.016 | 0.000 | 1.829 | 0.000 | 51.56 | 51.63 |
| 51.69 | 128.62 | 3.12 | 129.46 | 2.40 | 1.85% | 1.900 | 0.65 | 69.57 | 2.15 | 1.56 | 131 | 0.291 | 0.76 | 1.301 | 0.511 | | 0.57 | 0.78 | <= | 1.770 | 0.013 | 0.000 | 1.814 | 0.000 | 51.63 | 51.69 |
| 51.76 | 128.79 | 3.12 | 136.10 | 2.42 | 1.78% | 1.820 | 0.64 | 73.13 | 2.12 | 1.49 | 133 | 0.300 | 0.75 | 1.303 | 0.510 | | 0.59 | 0.81 | <= | 1.041 | 0.009 | 0.000 | 1.801 | 0.000 | 51.69 | 51.76 |
| 51.85 | 128.61 | 3.13 | 141.87 | 2.33 | 1.64% | 1.679 | 0.63 | 76.17 | 2.08 | 1.42 | 133 | 0.300 | 0.75 | 1.306 | 0.510 | | 0.59 | 0.81 | <= | 1.038 | 0.011 | 0.000 | 1.792 | 0.000 | 51.76 | 51.85 |
| 51.90 | 127.80 | 3.13 | 143.72 | 2.07 | 1.44% | 1.472 | 0.62 | 77.12 | 2.04 | 1.35 | 129 | 0.280 | 0.75 | 1.307 | 0.510 | | 0.55 | 0.75 | <= | 1.664 | 0.010 | 0.000 | 1.781 | 0.000 | 51.85 | 51.90 |
| 51.98 | 127.19 | 3.14 | 143.33 | 1.91 | 1.33% | 1.362 | 0.61 | 76.79 | 2.01 | 1.32 | 126 | 0.266 | 0.75 | 1.310 | 0.509 | | 0.52 | 0.72 | <= | 1.536 | 0.015 | 0.000 | 1.771 | 0.000 | 51.90 | 51.98 |
| 52.02 | 127.22 | 3.14 | 140.79 | 1.93 | 1.37% | 1.402 | 0.62 | 75.34 | 2.03 | 1.34 | 125 | 0.263 | 0.75 | 1.311 | 0.509 | | 0.52 | 0.71 | <= | 1.512 | 0.007 | 0.000 | 1.756 | 0.000 | 51.98 | 52.02 |
| 52.07 | 127.23 | 3.14 | 135.12 | 1.96 | 1.45% | 1.485 | 0.63 | 72.18 | 2.06 | 1.39 | 124 | 0.256 | 0.75 | 1.313 | 0.509 | | 0.50 | 0.69 | <= | 1.943 | 0.012 | 0.000 | 1.749 | 0.000 | 52.02 | 52.07 |
| 52.15 | 127.30 | 3.15 | 127.79 | 2.01 | 1.57% | 1.613 | 0.64 | 68.07 | 2.11 | 1.47 | 122 | 0.250 | 0.75 | 1.315 | 0.509 | | 0.49 | 0.68 | <= | 1.960 | 0.019 | 0.000 | 1.737 | 0.000 | 52.07 | 52.15 |
| 52.21 | 127.48 | 3.15 | 119.29 | 2.11 | 1.77% | 1.817 | 0.66 | 63.36 | 2.17 | 1.59 | 122 | 0.250 | 0.75 | 1.317 | 0.508 | | 0.49 | 0.68 | <= | 1.961 | 0.014 | 0.000 | 1.718 | 0.000 | 52.15 | 52.21 |
| 52.27 | 127.78 | 3.15 | 106.88 | 2.28 | 2.13% | 2.198 | 0.69 | 56.52 | 2.27 | 1.84 | 124 | 0.259 | 0.75 | 1.319 | 0.508 | | 0.51 | 0.70 | <= | 1.935 | 0.014 | 0.000 | 1.704 | 0.000 | 52.21 | 52.27 |
| 52.34 | 128.36 | 3.16 | 100.63 | 2.52 | 2.50% | 2.585 | 0.71 | 53.05 | 2.34 | 2.08 | 130 | 0.284 | 0.75 | 1.321 | 0.508 | | 0.56 | 0.77 | <= | 1.867 | 0.016 | 0.000 | 1.690 | 0.000 | 52.27 | 52.34 |
| 52.43 | 128.67 | 3.16 | 92.52 | 2.70 | 2.92% | 3.022 | 0.73 | 48.55 | 2.42 | 2.38 | 135 | 0.307 | 0.75 | 1.324 | 0.507 | | 0.61 | 0.83 | <= | 1.266 | 0.014 | 0.000 | 1.675 | 0.000 | 52.34 | 52.43 |
| 52.48 | 128.90 | 3.17 | 89.78 | 2.82 | 3.14% | 3.256 | 0.74 | 47.02 | 2.45 | 2.53 | 138 | 0.324 | 0.75 | 1.325 | 0.507 | | 0.64 | 0.88 | <= | 1.779 | 0.011 | 0.000 | 1.661 | 0.000 | 52.43 | 52.48 |
| 52.54 | 129.39 | 3.17 | 89.29 | 3.02 | 3.38% | 3.507 | 0.75 | 46.70 | 2.48 | 2.66 | 143 | 0.353 | 0.75 | 1.327 | 0.507 | | 0.70 | 0.96 | <= | 1.255 | 0.009 | 0.000 | 1.650 | 0.000 | 52.48 | 52.54 |
| 52.61 | 129.90 | 3.18 | 90.17 | 3.22 | 3.57% | 3.701 | 0.76 | 47.12 | 2.49 | 2.73 | 148 | 0.381 | 0.75 | 1.329 | 0.507 | | 0.75 | 1.04 | <= | 0.493 | 0.004 | 0.000 | 1.641 | 0.000 | 52.54 | 52.61 |
| 52.69 | 130.01 | 3.18 | 96.53 | 3.20 | 3.32% | 3.428 | 0.74 | 50.48 | 2.44 | 2.51 | 147 | 0.374 | 0.75 | 1.332 | 0.506 | | 0.74 | 1.02 | <= | 0.459 | 0.004 | 0.000 | 1.637 | 0.000 | 52.61 | 52.69 |
| 52.74 | 130.18 | 3.18 | 106.59 | 3.17 | 2.97% | 3.066 | 0.72 | 55.87 | 2.38 | 2.22 | 145 | 0.366 | 0.75 | 1.333 | 0.506 | | 0.72 | 1.00 | <= | 0.874 | 0.005 | 0.000 | 1.633 | 0.000 | 52.69 | 52.74 |
| 52.80 | 130.39 | 3.19 | 119.88 | 3.14 | 2.62% | 2.691 | 0.70 | 62.98 | 2.29 | 1.93 | 145 | 0.363 | 0.75 | 1.335 | 0.506 | | 0.72 | 0.99 | <= | 0.859 | 0.006 | 0.000 | 1.627 | 0.000 | 52.74 | 52.80 |
| 52.88 | 130.36 | 3.19 | 131.90 | 3.02 | 2.29% | 2.346 | 0.67 | 69.36 | 2.22 | 1.71 | 144 | 0.355 | 0.75 | 1.338 | 0.505 | | 0.70 | 0.97 | <= | 0.813 | 0.008 | 0.000 | 1.621 | 0.000 | 52.80 | 52.88 |
| 52.94 | 130.10 | 3.20 | 138.64 | 2.87 | 2.07% | 2.119 | 0.66 | 72.91 | 2.17 | 1.59 | 142 | 0.345 | 0.75 | 1.340 | 0.505 | | 0.68 | 0.94 | <= | 0.746 | 0.005 | 0.000 | 1.613 | 0.000 | 52.88 | 52.94 |
| 53.01 | 130.04 | 3.20 | 139.03 | 2.84 | 2.04% | 2.091 | 0.66 | 73.03 | 2.16 | 1.58 | 141 | 0.341 | 0.74 | 1.342 | 0.505 | | 0.68 | 0.93 | <= | 0.725 | 0.006 | 0.000 | 1.608 | 0.000 | 52.94 | 53.01 |
| 53.06 | 130.19 | 3.21 | 137.08 | 2.92 | 2.13% | 2.181 | 0.66 | 71.91 | 2.18 | 1.63 | 142 | 0.348 | 0.74 | 1.343 | 0.505 | | 0.69 | 0.95 | <= | 0.769 | 0.005 | 0.000 | 1.602 | 0.000 | 53.01 | 53.06 |
| 53.15 | 129.37 | 3.21 | 126.03 | 2.68 | 2.13% | 2.182 | 0.67 | 65.87 | 2.21 | 1.69 | 135 | 0.310 | 0.74 | 1.346 | 0.504 | | 0.61 | 0.85 | <= | 1.360 | 0.015 | 0.000 | 1.597 | 0.000 | 53.06 | 53.15 |
| 53.19 | 129.76 | 3.21 | 118.90 | 2.88 | 2.42% | 2.489 | 0.69 | 62.00 | 2.27 | 1.87 | 139 | 0.328 | 0.74 | 1.348 | 0.504 | | 0.65 | 0.90 | <= | 1.735 | 0.008 | 0.000 | 1.583 | 0.000 | 53.15 | 53.19 |
| 53.28 | 129.68 | 3.22 | 98.97 | 3.03 | 3.06% | 3.164 | 0.73 | 51.23 | 2.41 | 2.37 | 142 | 0.346 | 0.74 | 1.350 | 0.504 | | 0.69 | 0.94 | <= | 0.761 | 0.008 | 0.000 | 1.574 | 0.000 | 53.19 | 53.28 |
| 53.32 | 129.45 | 3.22 | 91.83 | 3.02 | 3.29% | 3.408 | 0.75 | 47.37 | 2.46 | 2.59 | 142 | 0.347 | 0.74 | 1.352 | 0.504 | | 0.69 | 0.95 | <= | 1.168 | 0.006 | 0.000 | 1.566 | 0.000 | 53.28 | 53.32 |
| 53.41 | 129.39 | 3.23 | 91.59 | 2.99 | 3.26% | 3.384 | 0.75 | 47.17 | 2.46 | 2.58 | 141 | 0.343 | 0.74 | 1.354 | 0.503 | | 0.68 | 0.94 | <= | 1.045 | 0.011 | 0.000 | 1.561 | 0.000 | 53.32 | 53.41 |
| 53.46 | 129.23 | 3.23 | 91.59 | 2.93 | 3.20% | 3.316 | 0.74 | 47.12 | 2.46 | 2.55 | 140 | 0.334 | 0.74 | 1.356 | 0.503 | | 0.66 | 0.91 | <= | 0.797 | 0.005 | 0.000 | 1.549 | 0.000 | 53.41 | 53.46 |
| 53.55 | 129.28 | 3.24 | 91.35 | 2.95 | 3.23% | 3.348 | 0.75 | 46.92 | 2.46 | 2.57 | 140 | 0.336 | 0.74 | 1.359 | 0.503 | | 0.67 | 0.92 | <= | 0.877 | 0.009 | 0.000 | 1.544 | 0.000 | 53.46 | 53.55 |
| 53.59 | 130.01 | 3.24 | 101.51 | 3.15 | 3.10% | 3.205 | 0.73 | 52.29 | 2.41 | 2.35 | 144 | 0.360 | 0.74 | 1.360 | 0.502 | | 0.72 | 0.99 | <= | 0.857 | 0.004 | 0.000 | 1.535 | 0.000 | 53.55 | 53.59 |
| 53.67 | 131.49 | 3.24 | 133.85 | 3.51 | 2.62% | 2.687 | 0.69 | 69.39 | 2.26 | 1.83 | 153 | 0.414 | 0.74 | 1.363 | 0.502 | | 0.82 | 1.13 | <= | 0.338 | 0.003 | 0.000 | 1.531 | 0.000 | 53.59 | 53.67 |
| 53.72 | 131.93 | 3.25 | 150.17 | 3.59 | 2.39% | 2.443 | 0.67 | 77.99 | 2.19 | 1.65 | 157 | 0.440 | 0.74 | 1.364 | 0.502 | | 0.88 | 1.21 | <= | 0.212 | 0.001 | 0.000 | 1.528 | 0.000 | 53.67 | 53.72 |
| 53.78 | 132.22 | 3.25 | 176.36 | 3.54 | 2.01% | 2.045 | 0.63 | 91.78 | 2.08 | 1.42 | 163 | 0.480 | 0.74 | 1.366 | 0.501 | | 0.96 | 1.32 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 53.86 | 132.30 | 3.26 | 188.08 | 3.50 | 1.86% | 1.894 | 0.62 | 97.85 | 2.04 | 1.35 | 166 | 0.505 | 0.74 | 1.368 | 0.501 | | 1.01 | 1.39 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 53.91 | 132.46 | 3.26 | 193.85 | 3.55 | 1.83% | 1.863 | 0.61 | 100.81 | 2.02 | 1.33 | 169 | 0.527 | 0.74 | 1.370 | 0.501 | | 1.05 | 1.45 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 53.99 | 132.41 | 3.27 | 196.78 | 3.50 | 1.78% | 1.809 | 0.61 | 102.21 | 2.01 | 1.31 | 169 | 0.530 | 0.74 | 1.372 | 0.501 | | 1.06 | 1.46 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.05 | 132.62 | 3.27 | 203.04 | 3.57 | 1.76% | 1.787 | 0.61 | 105.39 | 1.99 | 1.29 | 172 | 0.557 | 0.74 | 1.374 | 0.500 | | 1.11 | 1.53 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.13 | 132.82 | 3.28 | 211.15 | 3.62 | 1.71% | 1.741 | 0.60 | 109.51 | 1.97 | 1.27 | 176 | 0.591 | 0.74 | 1.377 | 0.500 | | 1.18 | 1.63 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.20 | 132.77 | 3.28 | 218.77 | 3.55 | 1.62% | 1.647 | 0.59 | 113.37 | 1.94 | 1.23 | 179 | 0.612 | 0.73 | 1.379 | 0.500 | | 1.22 | 1.68 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.25 | 132.69 | 3.28 | 222.68 | 3.49 | 1.57% | 1.591 | 0.59 | 115.32 | 1.93 | 1.21 | 180 | 0.621 | 0.73 | 1.381 | 0.499 | | 1.24 | 1.71 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.34 | 132.56 | 3.29 | 226.58 | 3.41 | 1.50% | 1.527 | 0.58 | 117.17 | 1.91 | 1.20 | 181 | 0.628 | 0.73 | 1.383 | 0.499 | | 1.26 | 1.73 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.39 | 132.55 | 3.29 | 228.74 | 3.39 | 1.48% | 1.504 | 0.58 | 118.19 | 1.90 | 1.19 | 181 | 0.635 | 0.73 | 1.385 | 0.499 | | 1.27 | 1.75 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.45 | 132.54 | 3.30 | 232.45 | 3.37 | 1.45% | 1.471 | 0.57 | 120.00 | 1.89 | 1.18 | 183 | 0.649 | 0.73 | 1.387 | 0.498 | | 1.30 | 1.79 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.52 | 132.06 | 3.30 | 238.41 | 3.13 | 1.31% | 1.331 | 0.56 | 122.97 | 1.85 | 1.14 | 183 | 0.653 | 0.73 | 1.389 | 0.498 | | 1.31 | 1.80 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.57 | 131.80 | 3.30 | 243.59 | 3.00 | 1.23% | 1.249 | 0.55 | 125.56 | 1.82 | 1.12 | 185 | 0.665 | 0.73 | 1.391 | 0.498 | | 1.34 | 1.84 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.66 | 132.27 | 3.31 | 248.86 | 3.18 | 1.28% | 1.295 | 0.55 | 128.10 | 1.82 | 1.12 | 189 | 0.708 | 0.73 | 1.393 | 0.497 | | 1.42 | 1.96 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.70 | 132.66 | 3.31 | 250.82 | 3.34 | 1.33% | 1.349 | 0.56 | 129.03 | 1.83 | 1.13 | 192 | 0.733 | 0.73 | 1.395 | 0.497 | | 1.47 | 2.03 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.79 | 133.16 | 3.32 | 250.13 | 3.58 | 1.43% | 1.451 | 0.57 | 128.45 | 1.86 | 1.15 | 193 | 0.753 | 0.73 | 1.397 | 0.497 | | 1.51 | 2.08 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.83 | 133.29 | 3.32 | 247.79 | 3.66 | 1.48% | 1.497 | 0.57 | 127.14 | 1.87 | 1.17 | 193 | 0.748 | 0.73 | 1.399 | 0.497 | | 1.51 | 2.07 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.91 | 133.49 | 3.33 | 227.86 | 3.87 | 1.70% | 1.724 | 0.59 | 116.60 | 1.95 | 1.24 | 186 | 0.674 | 0.73 | 1.401 | 0.496 | | 1.36 | 1.87 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 54.97 | 134.00 | 3.33 | 222.19 | 4.18 | 1.88% | 1.910 | 0.61 | 113.52 | 1.99 | 1.29 | 187 | 0.685 | 0.73 | 1.403 | 0.496 | | 1.38 | 1.90 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.04 | 134.41 | 3.34 | 210.36 | 4.50 | 2.14% | 2.174 | 0.62 | 107.25 | 2.05 | 1.38 | 186 | 0.681 | 0.73 | 1.405 | 0.496 | | 1.37 | 1.89 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.10 | 134.51 | 3.34 | 198.35 | 4.65 | 2.34% | 2.384 | 0.64 | 100.91 | 2.10 | 1.46 | 184 | 0.664 | 0.73 | 1.407 | 0.495 | | 1.34 | 1.84 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.16 | 134.69 | 3.34 | 188.77 | 4.85 | 2.57% | 2.616 | 0.65 | 95.84 | 2.15 | 1.56 | 185 | 0.667 | 0.73 | 1.409 | 0.495 | | 1.35 | 1.86 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.23 | 134.46 | 3.35 | 174.11 | 4.83 | 2.77% | 2.829 | 0.67 | 88.15 | 2.20 | 1.67 | 181 | 0.635 | 0.73 | 1.411 | 0.495 | | 1.28 | 1.77 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.30 | 133.91 | 3.35 | 170.98 | 4.50 | 2.63% | 2.685 | 0.67 | 86.42 | 2.19 | 1.64 | 175 | 0.580 | 0.73 | 1.413 | 0.494 | | 1.17 | 1.61 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.37 | 134.10 | 3.36 | 219.55 | 4.25 | 1.94% | 1.966 | 0.61 | 111.31 | 2.01 | 1.31 | 186 | 0.677 | 0.73 | 1.416 | 0.494 | | 1.37 | 1.89 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.43 | 134.13 | 3.36 | 253.16 | 4.08 | 1.61% | 1.633 | 0.58 | 128.47 | 1.90 | 1.19 | 199 | 0.811 | 0.73 | 1.417 | 0.494 | | 1.64 | 2.26 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.51 | 133.99 | 3.37 | 296.55 | 3.79 | 1.28% | 1.293 | 0.54 | 150.56 | 1.77 | 1.09 | 217 | 1.032 | 0.72 | 1.420 | 0.493 | | 2.09 | 2.88 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.55 | 133.85 | 3.37 | 320.10 | 3.62 | 1.13% | 1.143 | 0.52 | 162.53 | 1.70 | 1.04 | 208 | 0.919 | 0.72 | 1.421 | 0.493 | | 1.86 | 2.56 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.63 | 133.06 | 3.38 | 344.63 | 3.17 | 0.92% | 0.929 | 0.50 | 174.87 | 1.61 | 1.00 | 200 | 0.824 | 0.72 | 1.424 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.71 | 131.76 | 3.38 | 356.06 | 2.63 | 0.74% | 0.746 | 0.50 | 180.46 | 1.53 | 1.00 | 200 | 0.824 | 0.72 | 1.426 | 0.492 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.75 | 131.22 | 3.38 | 357.72 | 2.44 | 0.68% | 0.689 | 0.50 | 181.18 | 1.51 | 1.00 | 200 | 0.824 | 0.72 | 1.427 | 0.492 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.82 | 130.82 | 3.39 | 359.38 | 2.31 | 0.64% | 0.649 | 0.50 | 181.81 | 1.49 | 1.00 | 200 | 0.824 | 0.72 | 1.430 | 0.492 | | 1.68 | 2.30 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.89 | 130.64 | 3.39 | 361.82 | 2.24 | 0.62% | 0.625 | 0.50 | 182.83 | 1.48 | 1.00 | 200 | 0.824 | 0.72 | 1.432 | 0.492 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 55.97 | 130.43 | 3.45 | 363.78 | 2.18 | 0.60% | 0.605 | 0.50 | 178.93 | 1.47 | 1.00 | 200 | 0.824 | 0.72 | 1.434 | 0.486 | | 1.70 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.01 | 130.37 | 3.45 | 363.68 | 2.16 | 0.59% | 0.600 | 0.50 | 178.99 | 1.47 | 1.00 | 200 | 0.824 | 0.72 | 1.436 | 0.486 | | 1.70 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.08 | 130.17 | 3.45 | 361.82 | 2.11 | 0.58% | 0.589 | 0.50 | 178.26 | 1.46 | 1.00 | 200 | 0.824 | 0.72 | 1.438 | 0.486 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.14 | 129.85 | 3.45 | 358.11 | 2.02 | 0.56% | 0.570 | 0.50 | 176.58 | 1.46 | 1.00 | 200 | 0.824 | 0.72 | 1.440 | 0.486 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.24 | 129.47 | 3.45 | 348.63 | 1.94 | 0.56% | 0.562 | 0.50 | 172.13 | 1.46 | 1.00 | 200 | 0.824 | 0.72 | 1.443 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.28 | 129.32 | 3.45 | 343.16 | 1.91 | 0.56% | 0.562 | 0.50 | 169.51 | 1.47 | 1.00 | 200 | 0.824 | 0.72 | 1.444 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.35 | 129.15 | 3.45 | 333.78 | 1.88 | 0.56% | 0.569 | 0.50 | 165.01 | 1.48 | 1.00 | 200 | 0.824 | 0.72 | 1.446 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.41 | 129.02 | 3.45 | 329.48 | 1.86 | 0.56% | 0.570 | 0.50 | 163.01 | 1.48 | 1.00 | 200 | 0.824 | 0.72 | 1.448 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.48 | 128.81 | 3.45 | 321.86 | 1.82 | 0.57% | 0.572 | 0.50 | 159.37 | 1.49 | 1.00 | 200 | 0.824 | 0.72 | 1.450 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.55 | 128.63 | 3.45 | 317.95 | 1.78 | 0.56% | 0.566 | 0.50 | 157.59 | 1.49 | 1.00 | 200 | 0.824 | 0.72 | 1.452 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.62 | 128.39 | 3.45 | 308.86 | 1.74 | 0.56% | 0.570 | 0.50 | 153.20 | 1.50 | 1.00 | 200 | 0.824 | 0.72 | 1.455 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.68 | 128.11 | 3.45 | 300.85 | 1.69 | 0.56% | 0.568 | 0.50 | 149.32 | 1.51 | 1.00 | 200 | 0.824 | 0.71 | 1.456 | 0.488 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.77 | 127.66 | 3.45 | 289.22 | 1.61 | 0.56% | 0.563 | 0.50 | 143.69 | 1.52 | 1.00 | 199 | 0.810 | 0.71 | 1.459 | 0.488 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.83 | 126.55 | 3.45 | 278.86 | 1.40 | 0.50% | 0.508 | 0.50 | 138.61 | 1.51 | 1.00 | 192 | 0.734 | 0.71 | 1.461 | 0.488 | | 1.50 | 2.07 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.87 | 126.28 | 3.45 | 273.20 | 1.36 | 0.50% | 0.504 | 0.50 | 135.85 | 1.51 | 1.00 | 188 | 0.695 | 0.71 | 1.462 | 0.488 | | 1.42 | 1.96 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 56.95 | 126.99 | 3.45 | 266.26 | 1.51 | 0.57% | 0.575 | 0.50 | 132.52 | 1.55 | 1.00 | 183 | 0.650 | 0.71 | 1.465 | 0.488 | | 1.33 | 1.83 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.00 | 126.69 | 3.45 | 264.60 | 1.45 | 0.55% | 0.555 | 0.50 | 131.78 | 1.55 | 1.00 | 182 | 0.640 | 0.71 | 1.466 | 0.488 | | 1.31 | 1.80 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.08 | 127.55 | 3.45 | 263.91 | 1.64 | 0.62% | 0.630 | 0.50 | 131.60 | 1.58 | 1.00 | 182 | 0.636 | 0.71 | 1.469 | 0.488 | | 1.30 | 1.79 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.13 | 127.96 | 3.45 | 264.21 | 1.73 | 0.65% | 0.663 | 0.50 | 131.86 | 1.60 | 1.00 | 182 | 0.639 | 0.71 | 1.470 | 0.488 | | 1.31 | 1.80 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.21 | 128.39 | 3.45 | 259.22 | 1.85 | 0.71% | 0.723 | 0.50 | 129.50 | 1.63 | 1.00 | 178 | 0.609 | 0.71 | 1.473 | 0.489 | | 1.25 | 1.71 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.26 | 128.79 | 3.45 | 258.83 | 1.95 | 0.75% | 0.764 | 0.50 | 129.40 | 1.64 | 1.00 | 178 | 0.604 | 0.71 | 1.475 | 0.489 | | 1.24 | 1.70 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.35 | 129.09 | 3.45 | 258.64 | 2.03 | 0.78% | 0.795 | 0.51 | 129.49 | 1.66 | 1.01 | 179 | 0.615 | 0.71 | 1.477 | 0.489 | | 1.26 | 1.73 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.40 | 129.15 | 3.45 | 258.64 | 2.05 | 0.79% | 0.803 | 0.51 | 129.59 | 1.66 | 1.01 | 179 | 0.618 | 0.71 | 1.479 | 0.489 | | 1.26 | 1.74 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.47 | 129.09 | 3.45 | 258.64 | 2.03 | 0.78% | 0.795 | 0.50 | 129.74 | 1.66 | 1.01 | 179 | 0.616 | 0.71 | 1.481 | 0.489 | | 1.26 | 1.73 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.53 | 128.99 | 3.45 | 260.10 | 2.00 | 0.77% | 0.779 | 0.50 | 130.60 | 1.65 | 1.00 | 180 | 0.619 | 0.71 | 1.483 | 0.489 | | 1.26 | 1.74 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.60 | 128.95 | 3.45 | 263.52 | 1.98 | 0.75% | 0.761 | 0.50 | 132.49 | 1.64 | 1.00 | 182 | 0.641 | 0.71 | 1.485 | 0.489 | | 1.31 | 1.80 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.67 | 128.89 | 3.45 | 265.09 | 1.96 | 0.74% | 0.749 | 0.50 | 133.44 | 1.63 | 1.00 | 183 | 0.652 | 0.71 | 1.487 | 0.490 | | 1.33 | 1.83 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.74 | 128.81 | 3.45 | 267.53 | 1.93 | 0.72% | 0.731 | 0.50 | 134.83 | 1.62 | 1.00 | 185 | 0.669 | 0.71 | 1.489 | 0.490 | | 1.37 | 1.88 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.80 | 128.72 | 3.45 | 269.19 | 1.91 | 0.71% | 0.719 | 0.50 | 135.81 | 1.61 | 1.00 | 186 | 0.681 | 0.71 | 1.491 | 0.490 | | 1.39 | 1.91 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.86 | 128.64 | 3.45 | 271.63 | 1.88 | 0.69% | 0.701 | 0.50 | 137.19 | 1.60 | 1.00 | 188 | 0.699 | 0.71 | 1.493 | 0.490 | | 1.43 | 1.96 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.94 | 128.56 | 3.45 | 273.88 | 1.85 | 0.68% | 0.684 | 0.50 | 138.52 | 1.59 | 1.00 | 190 | 0.716 | 0.70 | 1.496 | 0.490 | | 1.46 | 2.01 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 57.99 | 128.55 | 3.45 | 275.64 | 1.85 | 0.67% | 0.680 | 0.50 | 139.53 | 1.59 | 1.00 | 191 | 0.729 | 0.70 | 1.497 | 0.490 | | 1.49 | 2.05 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.06 | 128.54 | 3.45 | 280.33 | 1.83 | 0.65% | 0.661 | 0.50 | 142.09 | 1.57 | 1.00 | 194 | 0.764 | 0.70 | 1.499 | 0.490 | | 1.56 | 2.14 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.14 | 128.47 | 3.45 | 285.51 | 1.81 | 0.63% | 0.642 | 0.50 | 144.94 | 1.56 | 1.00 | 198 | 0.805 | 0.70 | 1.502 | 0.491 | | 1.64 | 2.26 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.20 | 128.43 | 3.45 | 290.39 | 1.79 | 0.62% | 0.624 | 0.50 | 147.59 | 1.55 | 1.00 | 200 | 0.824 | 0.70 | 1.504 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.24 | 128.39 | 3.45 | 292.74 | 1.77 | 0.60% | 0.612 | 0.50 | 148.89 | 1.54 | 1.00 | 200 | 0.824 | 0.70 | 1.505 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.32 | 128.27 | 3.45 | 293.62 | 1.74 | 0.59% | 0.600 | 0.50 | 149.54 | 1.53 | 1.00 | 200 | 0.824 | 0.70 | 1.508 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.38 | 128.08 | 3.45 | 292.93 | 1.70 | 0.58% | 0.587 | 0.50 | 149.32 | 1.52 | 1.00 | 200 | 0.824 | 0.70 | 1.509 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.47 | 127.60 | 3.45 | 287.17 | 1.60 | 0.56% | 0.564 | 0.50 | 146.57 | 1.52 | 1.00 | 200 | 0.824 | 0.70 | 1.512 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.51 | 127.32 | 3.45 | 281.89 | 1.55 | 0.55% | 0.557 | 0.50 | 143.93 | 1.52 | 1.00 | 196 | 0.784 | 0.70 | 1.514 | 0.491 | | 1.59 | 2.19 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.60 | 126.44 | 3.45 | 270.66 | 1.39 | 0.51% | 0.520 | 0.50 | 138.33 | 1.52 | 1.00 | 189 | 0.703 | 0.70 | 1.516 | 0.492 | | 1.43 | 1.97 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.64 | 126.24 | 3.45 | 265.67 | 1.36 | 0.51% | 0.519 | 0.50 | 135.83 | 1.52 | 1.00 | 185 | 0.669 | 0.70 | 1.518 | 0.492 | | 1.36 | 1.87 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.73 | 126.11 | 3.45 | 253.65 | 1.36 | 0.54% | 0.544 | 0.50 | 129.79 | 1.55 | 1.00 | 177 | 0.593 | 0.70 | 1.520 | 0.492 | | 1.21 | 1.66 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.78 | 126.00 | 3.45 | 240.95 | 1.36 | 0.56% | 0.573 | 0.50 | 123.31 | 1.58 | 1.00 | 168 | 0.519 | 0.70 | 1.522 | 0.492 | | 1.06 | 1.45 | | 0.000 | 0.000 | 0.000 | 1.526 | 0.000 | | |
| 58.85 | 126.64 | 3.45 | 220.43 | 1.53 | 0.69% | 0.705 | 0.51 | 112.78 | 1.67 | 1.02 | 155 | 0.429 | 0.70 | 1.524 | 0.492 | | 0.87 | 1.20 | <= | 0.412 | 0.003 | 0.000 | 1.526 | 0.000 | 58.78 | 58.85 |
| 58.91 | 127.16 | 3.45 | 190.33 | 1.73 | 0.91% | 0.926 | 0.55 | 97.23 | 1.81 | 1.11 | 142 | 0.349 | 0.70 | 1.526 | 0.492 | | 0.71 | 0.97 | <= | 0.844 | 0.006 | 0.000 | 1.523 | 0.000 | 58.85 | 58.91 |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-1

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

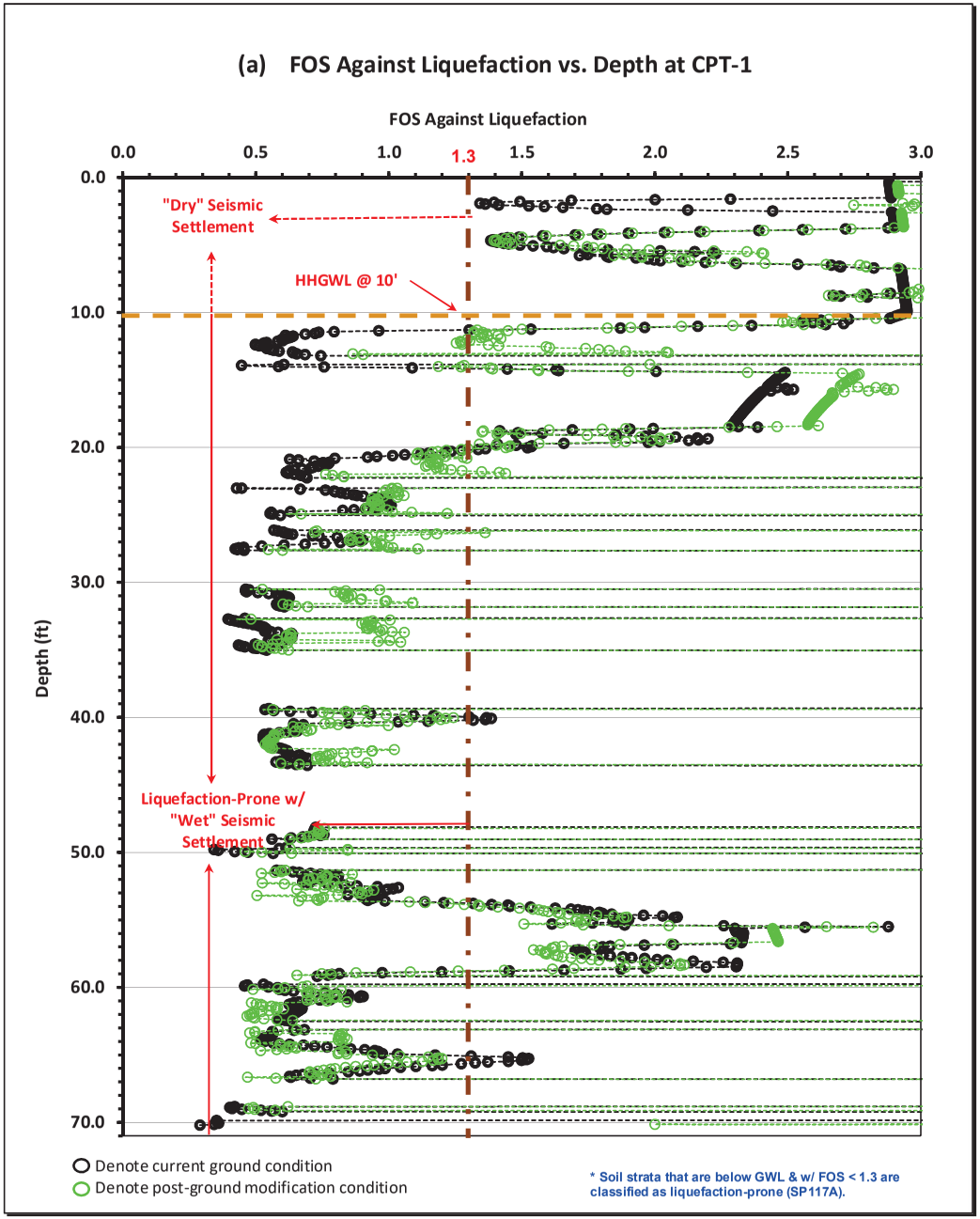
D(ft): 1  **MAGNITUDE:** 6.62  **MAGNITUDE SCALING FACTOR:** 1.38

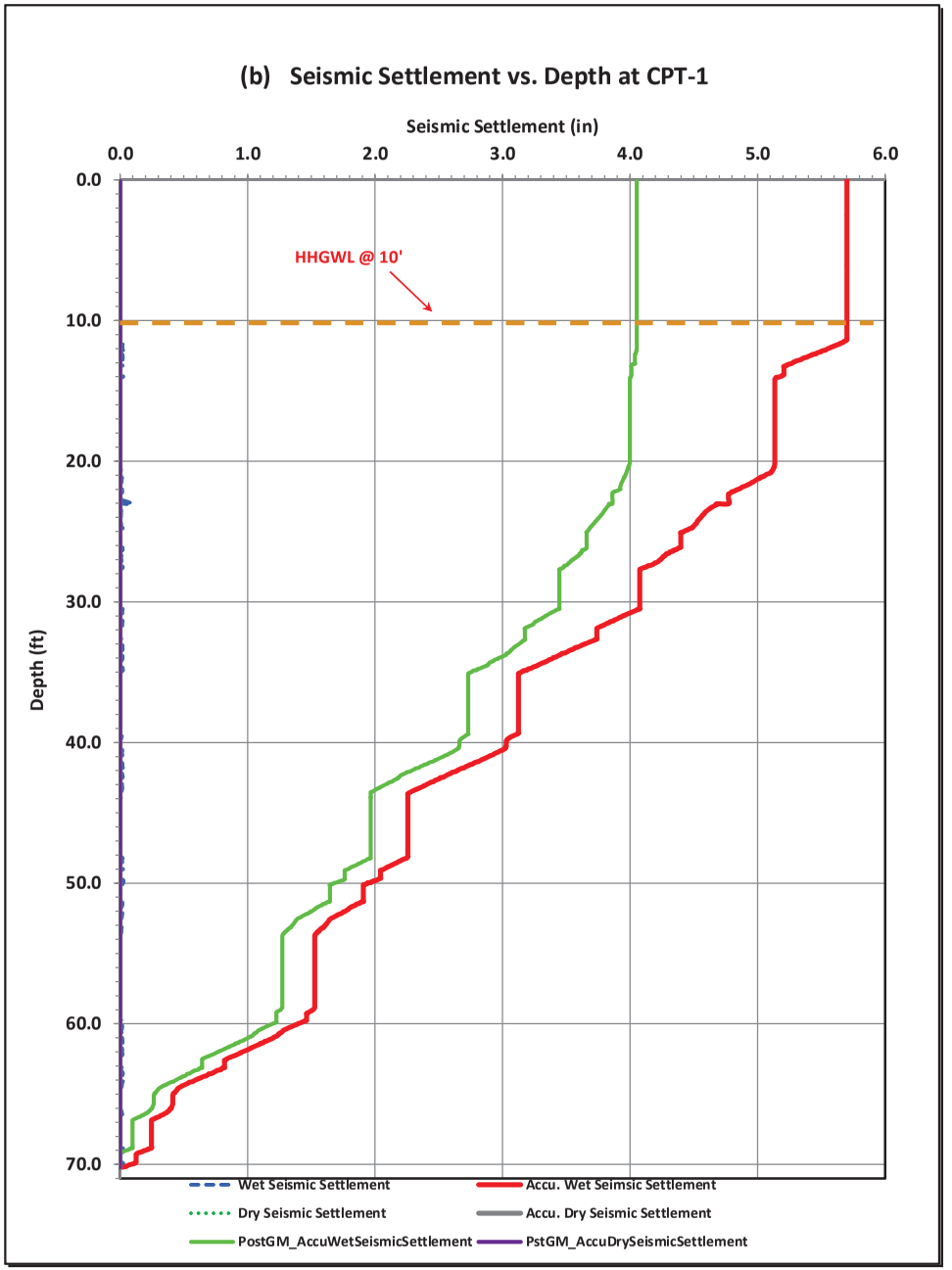
**GROUNDWATER LEVEL:** 10 feet  **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 58.98 | 128.14 | 3.45 | 156.33 | 2.11 | 1.35% | 1.380 | 0.61 | 79.63 | 2.00 | 1.30 | 131 | 0.291 | 0.70 | 1.528 | 0.493 | | 0.59 | **0.81** | <= | 1.076 | 0.009 | 0.000 | 1.517 | 0.000 | 58.91 | 58.98 |
| 59.04 | 128.71 | 3.45 | 132.97 | 2.41 | 1.81% | 1.861 | 0.65 | 67.53 | 2.15 | 1.55 | 129 | 0.282 | 0.70 | 1.530 | 0.493 | | 0.57 | **0.79** | <= | 1.810 | 0.013 | 0.000 | 1.508 | 0.000 | 58.98 | 59.04 |
| 59.10 | 128.16 | 3.45 | 92.42 | 2.52 | 2.73% | 2.832 | 0.73 | 46.43 | 2.41 | 2.34 | 128 | 0.276 | 0.70 | 1.532 | 0.493 | | 0.56 | **0.77** | <= | 1.887 | 0.014 | 0.000 | 1.495 | 0.000 | 59.04 | 59.10 |
| 59.18 | 126.82 | 3.45 | 69.16 | 2.31 | 3.34% | 3.515 | 0.78 | 34.34 | 2.58 | 3.19 | 125 | 0.262 | 0.69 | 1.534 | 0.493 | | 0.53 | **0.73** | <= | 1.926 | 0.018 | 0.000 | 1.481 | 0.000 | 59.10 | 59.18 |
| 59.26 | 125.61 | 3.45 | 51.09 | 2.17 | 4.25% | 4.555 | 0.84 | 24.93 | 2.77 | 4.50 | 149 | 0.385 | 0.69 | 1.537 | 0.493 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.463 | 0.000 | | |
| 59.31 | 124.81 | 3.45 | 43.27 | 2.05 | 4.74% | 5.148 | 0.87 | 20.85 | 2.86 | 5.36 | 177 | 0.596 | 0.69 | 1.538 | 0.493 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.463 | 0.000 | | |
| 59.38 | 123.43 | 3.45 | 36.04 | 1.81 | 5.02% | 5.554 | 0.90 | 17.09 | 2.96 | 6.27 | 207 | 0.906 | 0.69 | 1.541 | 0.493 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.463 | 0.000 | | |
| 59.42 | 122.20 | 3.45 | 29.10 | 1.64 | 5.64% | 6.393 | 0.93 | 13.46 | 3.08 | 7.71 | 254 | 1.611 | 0.69 | 1.542 | 0.494 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.463 | 0.000 | | |
| 59.49 | 120.64 | 3.45 | 29.69 | 1.32 | 4.45% | 5.030 | 0.91 | 13.78 | 3.00 | 6.77 | 223 | 1.116 | 0.69 | 1.544 | 0.494 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.463 | 0.000 | | |
| 59.56 | 118.92 | 3.45 | 30.37 | 1.03 | 3.39% | 3.826 | 0.88 | 14.16 | 2.91 | 5.83 | 192 | 0.741 | 0.69 | 1.546 | 0.494 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.463 | 0.000 | | |
| 59.64 | 116.03 | 3.45 | 32.33 | 0.68 | 2.10% | 2.354 | 0.83 | 15.21 | 2.75 | 4.39 | 145 | 0.362 | 0.69 | 1.549 | 0.494 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.463 | 0.000 | | |
| 59.69 | 115.69 | 3.45 | 35.35 | 0.63 | 1.78% | 1.975 | 0.81 | 16.81 | 2.67 | 3.76 | 124 | 0.258 | 0.69 | 1.550 | 0.494 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.463 | 0.000 | | |
| 59.77 | 118.31 | 3.45 | 44.34 | 0.83 | 1.87% | 2.030 | 0.78 | 21.58 | 2.58 | 3.21 | 106 | 0.190 | 0.69 | 1.553 | 0.494 | | 0.38 | **0.53** | <= | 2.204 | 0.021 | 0.000 | 1.463 | 0.000 | 59.69 | 59.77 |
| 59.82 | 120.50 | 3.45 | 51.97 | 1.07 | 2.06% | 2.205 | 0.77 | 25.62 | 2.54 | 2.98 | 98 | 0.168 | 0.69 | 1.554 | 0.494 | | 0.34 | **0.47** | <= | 2.340 | 0.014 | 0.000 | 1.442 | 0.000 | 59.77 | 59.82 |
| 59.89 | 122.56 | 3.45 | 59.30 | 1.35 | 2.28% | 2.417 | 0.76 | 29.53 | 2.52 | 2.85 | 97 | 0.165 | 0.69 | 1.557 | 0.495 | | 0.33 | **0.46** | <= | 2.366 | 0.020 | 0.000 | 1.428 | 0.000 | 59.82 | 59.89 |
| 59.96 | 124.47 | 3.45 | 65.06 | 1.70 | 2.61% | 2.759 | 0.76 | 32.61 | 2.52 | 2.87 | 108 | 0.197 | 0.69 | 1.559 | 0.495 | | 0.40 | **0.55** | <= | 2.171 | 0.018 | 0.000 | 1.408 | 0.000 | 59.89 | 59.96 |
| 60.02 | 125.36 | 3.45 | 73.17 | 1.85 | 2.53% | 2.653 | 0.75 | 36.94 | 2.47 | 2.60 | 112 | 0.209 | 0.69 | 1.561 | 0.495 | | 0.42 | **0.58** | <= | 2.112 | 0.015 | 0.000 | 1.389 | 0.000 | 59.96 | 60.02 |
| 60.09 | 125.82 | 3.45 | 83.14 | 1.89 | 2.27% | 2.372 | 0.72 | 42.27 | 2.38 | 2.25 | 112 | 0.211 | 0.69 | 1.563 | 0.495 | | 0.43 | **0.59** | <= | 2.103 | 0.018 | 0.000 | 1.374 | 0.000 | 60.02 | 60.09 |
| 60.15 | 126.22 | 3.45 | 105.22 | 1.85 | 1.76% | 1.818 | 0.67 | 54.04 | 2.22 | 1.71 | 112 | 0.212 | 0.69 | 1.565 | 0.495 | | 0.43 | **0.59** | <= | 2.099 | 0.015 | 0.000 | 1.357 | 0.000 | 60.09 | 60.15 |
| 60.22 | 126.37 | 3.45 | 119.59 | 1.81 | 1.51% | 1.558 | 0.65 | 61.74 | 2.13 | 1.50 | 114 | 0.220 | 0.69 | 1.567 | 0.495 | | 0.44 | **0.61** | <= | 2.068 | 0.017 | 0.000 | 1.341 | 0.000 | 60.15 | 60.22 |
| 60.28 | 126.56 | 3.45 | 129.85 | 1.81 | 1.39% | 1.432 | 0.63 | 67.26 | 2.07 | 1.40 | 118 | 0.231 | 0.69 | 1.569 | 0.496 | | 0.47 | **0.64** | <= | 2.025 | 0.015 | 0.000 | 1.324 | 0.000 | 60.22 | 60.28 |
| 60.35 | 127.08 | 3.45 | 139.42 | 1.90 | 1.36% | 1.397 | 0.62 | 72.44 | 2.04 | 1.35 | 123 | 0.252 | 0.69 | 1.571 | 0.496 | | 0.51 | **0.70** | <= | 1.957 | 0.016 | 0.000 | 1.309 | 0.000 | 60.28 | 60.35 |
| 60.41 | 127.57 | 3.45 | 148.22 | 1.99 | 1.34% | 1.375 | 0.61 | 77.20 | 2.01 | 1.31 | 128 | 0.273 | 0.68 | 1.573 | 0.496 | | 0.55 | **0.76** | <= | 1.699 | 0.012 | 0.000 | 1.293 | 0.000 | 60.35 | 60.41 |
| 60.48 | 127.96 | 3.45 | 153.20 | 2.07 | 1.35% | 1.382 | 0.61 | 79.95 | 2.00 | 1.30 | 131 | 0.289 | 0.68 | 1.575 | 0.496 | | 0.58 | **0.80** | <= | 1.040 | 0.009 | 0.000 | 1.281 | 0.000 | 60.41 | 60.48 |
| 60.55 | 128.32 | 3.45 | 158.38 | 2.15 | 1.36% | 1.388 | 0.61 | 82.81 | 1.99 | 1.29 | 134 | 0.306 | 0.68 | 1.577 | 0.496 | | 0.62 | **0.85** | <= | 1.154 | 0.010 | 0.000 | 1.272 | 0.000 | 60.48 | 60.55 |
| 60.64 | 128.70 | 3.45 | 162.39 | 2.25 | 1.39% | 1.416 | 0.60 | 85.08 | 1.99 | 1.28 | 138 | 0.323 | 0.68 | 1.580 | 0.496 | | 0.65 | **0.90** | <= | 1.262 | 0.014 | 0.000 | 1.262 | 0.000 | 60.55 | 60.64 |
| 60.68 | 128.81 | 3.45 | 162.48 | 2.28 | 1.40% | 1.434 | 0.61 | 85.19 | 1.99 | 1.29 | 138 | 0.326 | 0.68 | 1.581 | 0.497 | | 0.66 | **0.90** | <= | 0.663 | 0.003 | 0.000 | 1.249 | 0.000 | 60.64 | 60.68 |
| 60.74 | 128.82 | 3.45 | 158.67 | 2.31 | 1.46% | 1.488 | 0.61 | 83.23 | 2.01 | 1.32 | 137 | 0.321 | 0.68 | 1.583 | 0.497 | | 0.65 | **0.89** | <= | 1.246 | 0.009 | 0.000 | 1.246 | 0.000 | 60.68 | 60.74 |
| 60.82 | 128.59 | 3.45 | 153.10 | 2.26 | 1.48% | 1.510 | 0.62 | 80.35 | 2.03 | 1.34 | 134 | 0.306 | 0.68 | 1.586 | 0.497 | | 0.62 | **0.85** | <= | 1.150 | 0.011 | 0.000 | 1.237 | 0.000 | 60.74 | 60.82 |
| 60.90 | 128.07 | 3.45 | 144.89 | 2.14 | 1.48% | 1.513 | 0.62 | 76.04 | 2.05 | 1.37 | 129 | 0.282 | 0.68 | 1.588 | 0.497 | | 0.57 | **0.78** | <= | 1.777 | 0.017 | 0.000 | 1.226 | 0.000 | 60.82 | 60.90 |
| 60.94 | 127.74 | 3.45 | 139.03 | 2.08 | 1.50% | 1.534 | 0.63 | 72.94 | 2.07 | 1.40 | 126 | 0.268 | 0.68 | 1.589 | 0.497 | | 0.54 | **0.74** | <= | 1.636 | 0.008 | 0.000 | 1.208 | 0.000 | 60.90 | 60.94 |
| 61.01 | 127.29 | 3.45 | 131.12 | 1.99 | 1.52% | 1.559 | 0.64 | 68.77 | 2.09 | 1.44 | 122 | 0.249 | 0.68 | 1.592 | 0.497 | | 0.50 | **0.69** | <= | 1.963 | 0.016 | 0.000 | 1.201 | 0.000 | 60.94 | 61.01 |
| 61.08 | 127.08 | 3.45 | 122.81 | 1.98 | 1.61% | 1.659 | 0.65 | 64.37 | 2.13 | 1.52 | 120 | 0.239 | 0.68 | 1.594 | 0.498 | | 0.48 | **0.66** | <= | 1.996 | 0.017 | 0.000 | 1.184 | 0.000 | 61.01 | 61.08 |
| 61.14 | 126.92 | 3.45 | 115.48 | 1.98 | 1.71% | 1.767 | 0.66 | 60.48 | 2.17 | 1.60 | 118 | 0.233 | 0.68 | 1.596 | 0.498 | | 0.47 | **0.64** | <= | 2.018 | 0.015 | 0.000 | 1.167 | 0.000 | 61.08 | 61.14 |
| 61.22 | 126.80 | 3.45 | 109.91 | 1.98 | 1.80% | 1.860 | 0.67 | 57.55 | 2.21 | 1.68 | 117 | 0.229 | 0.68 | 1.598 | 0.498 | | 0.46 | **0.63** | <= | 2.031 | 0.020 | 0.000 | 1.153 | 0.000 | 61.14 | 61.22 |
| 61.26 | 126.68 | 3.45 | 106.10 | 1.97 | 1.86% | 1.919 | 0.68 | 55.52 | 2.23 | 1.74 | 116 | 0.226 | 0.68 | 1.599 | 0.498 | | 0.45 | **0.62** | <= | 2.043 | 0.010 | 0.000 | 1.133 | 0.000 | 61.22 | 61.26 |
| 61.35 | 126.72 | 3.45 | 100.34 | 2.02 | 2.01% | 2.085 | 0.69 | 52.49 | 2.27 | 1.87 | 117 | 0.229 | 0.68 | 1.602 | 0.498 | | 0.46 | **0.63** | <= | 2.033 | 0.022 | 0.000 | 1.124 | 0.000 | 61.26 | 61.35 |
| 61.39 | 126.86 | 3.45 | 98.19 | 2.07 | 2.11% | 2.185 | 0.70 | 51.36 | 2.30 | 1.93 | 118 | 0.233 | 0.68 | 1.603 | 0.498 | | 0.47 | **0.64** | <= | 2.017 | 0.010 | 0.000 | 1.102 | 0.000 | 61.35 | 61.39 |
| 61.47 | 127.02 | 3.45 | 94.96 | 2.14 | 2.25% | 2.338 | 0.71 | 49.68 | 2.33 | 2.04 | 120 | 0.240 | 0.68 | 1.606 | 0.498 | | 0.48 | **0.66** | <= | 1.993 | 0.019 | 0.000 | 1.092 | 0.000 | 61.39 | 61.47 |
| 61.53 | 127.21 | 3.45 | 97.84 | 2.17 | 2.22% | 2.299 | 0.70 | 51.29 | 2.31 | 1.99 | 121 | 0.244 | 0.68 | 1.608 | 0.499 | | 0.49 | **0.67** | <= | 1.980 | 0.014 | 0.000 | 1.073 | 0.000 | 61.47 | 61.53 |
| 61.59 | 127.03 | 3.45 | 91.05 | 2.17 | 2.38% | 2.477 | 0.72 | 47.65 | 2.36 | 2.16 | 121 | 0.244 | 0.68 | 1.610 | 0.499 | | 0.49 | **0.67** | <= | 1.981 | 0.014 | 0.000 | 1.059 | 0.000 | 61.53 | 61.59 |
| 61.66 | 127.11 | 3.45 | 97.50 | 2.14 | 2.19% | 2.275 | 0.70 | 51.22 | 2.31 | 1.98 | 120 | 0.241 | 0.67 | 1.612 | 0.499 | | 0.48 | **0.67** | <= | 1.990 | 0.017 | 0.000 | 1.044 | 0.000 | 61.59 | 61.66 |
| 61.72 | 127.12 | 3.45 | 102.09 | 2.12 | 2.08% | 2.149 | 0.69 | 53.77 | 2.28 | 1.87 | 120 | 0.240 | 0.67 | 1.614 | 0.499 | | 0.48 | **0.66** | <= | 1.992 | 0.014 | 0.000 | 1.028 | 0.000 | 61.66 | 61.72 |
| 61.79 | 127.10 | 3.45 | 106.00 | 2.08 | 1.96% | 2.028 | 0.68 | 55.97 | 2.24 | 1.78 | 119 | 0.238 | 0.67 | 1.616 | 0.499 | | 0.48 | **0.66** | <= | 2.000 | 0.017 | 0.000 | 1.013 | 0.000 | 61.72 | 61.79 |
| 61.86 | 127.02 | 3.45 | 109.91 | 2.04 | 1.86% | 1.916 | 0.67 | 58.17 | 2.21 | 1.70 | 119 | 0.237 | 0.67 | 1.618 | 0.499 | | 0.47 | **0.65** | <= | 2.005 | 0.017 | 0.000 | 0.996 | 0.000 | 61.79 | 61.86 |
| 61.93 | 126.87 | 3.45 | 112.16 | 1.98 | 1.77% | 1.821 | 0.66 | 59.48 | 2.19 | 1.64 | 118 | 0.233 | 0.67 | 1.620 | 0.500 | | 0.47 | **0.64** | <= | 2.019 | 0.017 | 0.000 | 0.980 | 0.000 | 61.86 | 61.93 |
| 61.99 | 126.78 | 3.45 | 113.82 | 1.95 | 1.71% | 1.767 | 0.66 | 60.45 | 2.18 | 1.61 | 118 | 0.231 | 0.67 | 1.622 | 0.500 | | 0.46 | **0.64** | <= | 2.023 | 0.015 | 0.000 | 0.963 | 0.000 | 61.93 | 61.99 |
| 62.05 | 126.64 | 3.45 | 114.41 | 1.91 | 1.67% | 1.721 | 0.66 | 60.83 | 2.16 | 1.59 | 117 | 0.229 | 0.67 | 1.624 | 0.500 | | 0.46 | **0.63** | <= | 2.034 | 0.015 | 0.000 | 0.948 | 0.000 | 61.99 | 62.05 |
| 62.13 | 126.42 | 3.45 | 114.02 | 1.85 | 1.62% | 1.673 | 0.66 | 60.70 | 2.16 | 1.57 | 115 | 0.223 | 0.67 | 1.626 | 0.500 | | 0.45 | **0.61** | <= | 2.054 | 0.020 | 0.000 | 0.933 | 0.000 | 62.05 | 62.13 |
| 62.20 | 126.39 | 3.45 | 111.77 | 1.86 | 1.66% | 1.717 | 0.66 | 59.54 | 2.17 | 1.60 | 115 | 0.222 | 0.67 | 1.629 | 0.500 | | 0.44 | **0.61** | <= | 2.057 | 0.017 | 0.000 | 0.914 | 0.000 | 62.13 | 62.20 |
| 62.27 | 126.09 | 3.45 | 105.22 | 1.82 | 1.73% | 1.788 | 0.67 | 56.00 | 2.21 | 1.68 | 113 | 0.215 | 0.67 | 1.631 | 0.500 | | 0.43 | **0.59** | <= | 2.088 | 0.018 | 0.000 | 0.896 | 0.000 | 62.20 | 62.27 |
| 62.33 | 125.95 | 3.45 | 97.70 | 1.83 | 1.87% | 1.942 | 0.68 | 51.92 | 2.26 | 1.82 | 112 | 0.212 | 0.67 | 1.633 | 0.501 | | 0.42 | **0.58** | <= | 2.099 | 0.015 | 0.000 | 0.879 | 0.000 | 62.27 | 62.33 |
| 62.39 | 125.88 | 3.45 | 85.09 | 1.90 | 2.23% | 2.327 | 0.72 | 45.02 | 2.36 | 2.16 | 114 | 0.217 | 0.67 | 1.635 | 0.501 | | 0.43 | **0.60** | <= | 2.078 | 0.015 | 0.000 | 0.864 | 0.000 | 62.33 | 62.39 |
| 62.44 | 125.58 | 3.45 | 72.78 | 1.92 | 2.64% | 2.769 | 0.75 | 38.26 | 2.47 | 2.62 | 115 | 0.222 | 0.67 | 1.636 | 0.501 | | 0.44 | **0.61** | <= | 2.057 | 0.012 | 0.000 | 0.849 | 0.000 | 62.39 | 62.44 |
| 62.51 | 125.19 | 3.45 | 61.84 | 1.92 | 3.10% | 3.288 | 0.78 | 32.27 | 2.58 | 3.21 | 117 | 0.229 | 0.67 | 1.638 | 0.501 | | 0.46 | **0.63** | <= | 2.034 | 0.017 | 0.000 | 0.836 | 0.000 | 62.44 | 62.51 |
| 62.59 | 124.74 | 3.45 | 49.23 | 1.95 | 3.96% | 4.259 | 0.83 | 25.33 | 2.74 | 4.32 | 143 | 0.349 | 0.67 | 1.641 | 0.501 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.819 | 0.000 | | |
| 62.64 | 124.64 | 3.45 | 43.17 | 2.01 | 4.66% | 5.060 | 0.86 | 22.00 | 2.84 | 5.17 | 171 | 0.542 | 0.67 | 1.642 | 0.501 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.819 | 0.000 | | |
| 62.72 | 123.92 | 3.45 | 36.14 | 1.93 | 5.34% | 5.904 | 0.90 | 18.13 | 2.96 | 6.28 | 207 | 0.908 | 0.67 | 1.645 | 0.502 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.819 | 0.000 | | |
| 62.77 | 123.69 | 3.45 | 34.48 | 1.90 | 5.51% | 6.123 | 0.90 | 17.22 | 2.99 | 6.59 | 217 | 1.036 | 0.67 | 1.646 | 0.502 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.819 | 0.000 | | |
| 62.86 | 124.10 | 3.45 | 33.99 | 2.02 | 5.94% | 6.614 | 0.91 | 16.98 | 3.01 | 6.91 | 228 | 1.182 | 0.66 | 1.649 | 0.502 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.819 | 0.000 | | |
| 62.91 | 124.41 | 3.45 | 35.45 | 2.08 | 5.87% | 6.500 | 0.91 | 17.81 | 2.99 | 6.67 | 220 | 1.072 | 0.66 | 1.651 | 0.502 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.819 | 0.000 | | |
| 63.00 | 125.78 | 3.45 | 50.60 | 2.23 | 4.41% | 4.729 | 0.84 | 26.28 | 2.76 | 4.48 | 148 | 0.381 | 0.66 | 1.654 | 0.502 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.819 | 0.000 | | |
| 63.04 | 126.46 | 3.45 | 62.91 | 2.27 | 3.61% | 3.818 | 0.79 | 33.16 | 2.62 | 3.44 | 128 | 0.274 | 0.66 | 1.655 | 0.502 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.819 | 0.000 | | |
| 63.13 | 126.83 | 3.45 | 83.72 | 2.17 | 2.59% | 2.703 | 0.73 | 44.83 | 2.41 | 2.35 | 122 | 0.249 | 0.66 | 1.658 | 0.503 | | 0.50 | **0.68** | <= | 1.963 | 0.021 | 0.000 | 0.819 | 0.000 | 63.04 | 63.13 |
| 63.17 | 126.60 | 3.45 | 90.47 | 2.05 | 2.27% | 2.356 | 0.71 | 48.64 | 2.34 | 2.08 | 119 | 0.235 | 0.66 | 1.659 | 0.503 | | 0.47 | **0.64** | <= | 2.010 | 0.010 | 0.000 | 0.798 | 0.000 | 63.13 | 63.17 |
| 63.27 | 125.55 | 3.45 | 100.24 | 1.72 | 1.72% | 1.777 | 0.67 | 54.19 | 2.22 | 1.71 | 110 | 0.205 | 0.66 | 1.662 | 0.503 | | 0.41 | **0.56** | <= | 2.128 | 0.026 | 0.000 | 0.789 | 0.000 | 63.17 | 63.27 |
| 63.31 | 125.54 | 3.45 | 103.66 | 1.70 | 1.64% | 1.696 | 0.67 | 56.15 | 2.19 | 1.64 | 111 | 0.206 | 0.66 | 1.663 | 0.503 | | 0.41 | **0.56** | <= | 2.127 | 0.010 | 0.000 | 0.763 | 0.000 | 63.27 | 63.31 |
| 63.37 | 125.51 | 3.45 | 109.33 | 1.66 | 1.52% | 1.568 | 0.65 | 59.39 | 2.15 | 1.55 | 111 | 0.207 | 0.66 | 1.665 | 0.503 | | 0.41 | **0.56** | <= | 2.123 | 0.015 | 0.000 | 0.753 | 0.000 | 63.31 | 63.37 |
| 63.44 | 125.38 | 3.45 | 113.33 | 1.61 | 1.42% | 1.465 | 0.64 | 61.71 | 2.11 | 1.48 | 111 | 0.206 | 0.66 | 1.667 | 0.503 | | 0.41 | **0.56** | <= | 2.125 | 0.018 | 0.000 | 0.737 | 0.000 | 63.37 | 63.44 |
| 63.53 | 125.22 | 3.45 | 114.50 | 1.57 | 1.37% | 1.414 | 0.64 | 62.46 | 2.10 | 1.45 | 110 | 0.205 | 0.66 | 1.670 | 0.504 | | 0.41 | **0.56** | <= | 2.133 | 0.023 | 0.000 | 0.720 | 0.000 | 63.44 | 63.53 |
| 63.56 | 125.18 | 3.45 | 114.41 | 1.56 | 1.36% | 1.406 | 0.64 | 62.44 | 2.10 | 1.45 | 110 | 0.204 | 0.66 | 1.671 | 0.504 | | 0.40 | **0.56** | <= | 2.136 | 0.008 | 0.000 | 0.697 | 0.000 | 63.53 | 63.56 |
| 63.62 | 125.12 | 3.45 | 113.72 | 1.55 | 1.36% | 1.406 | 0.64 | 62.12 | 2.10 | 1.45 | 110 | 0.202 | 0.66 | 1.673 | 0.504 | | 0.40 | **0.55** | <= | 2.142 | 0.015 | 0.000 | 0.689 | 0.000 | 63.56 | 63.62 |
| 63.71 | 124.88 | 3.45 | 112.06 | 1.51 | 1.35% | 1.390 | 0.64 | 61.28 | 2.10 | 1.46 | 108 | 0.198 | 0.66 | 1.676 | 0.504 | | 0.39 | **0.54** | <= | 2.164 | 0.023 | 0.000 | 0.673 | 0.000 | 63.62 | 63.71 |
| 63.76 | 124.63 | 3.45 | 111.28 | 1.46 | 1.31% | 1.354 | 0.64 | 60.90 | 2.10 | 1.45 | 107 | 0.194 | 0.66 | 1.677 | 0.504 | | 0.38 | **0.53** | <= | 2.186 | 0.013 | 0.000 | 0.650 | 0.000 | 63.71 | 63.76 |
| 63.83 | 124.45 | 3.45 | 110.79 | 1.43 | 1.29% | 1.332 | 0.64 | 60.69 | 2.09 | 1.44 | 106 | 0.191 | 0.66 | 1.679 | 0.505 | | 0.38 | **0.52** | <= | 2.199 | 0.018 | 0.000 | 0.637 | 0.000 | 63.76 | 63.83 |
| 63.89 | 124.47 | 3.45 | 110.79 | 1.43 | 1.29% | 1.332 | 0.64 | 60.76 | 2.09 | 1.44 | 106 | 0.191 | 0.66 | 1.681 | 0.505 | | 0.38 | **0.52** | <= | 2.198 | 0.016 | 0.000 | 0.619 | 0.000 | 63.83 | 63.89 |
| 63.95 | 124.50 | 3.45 | 110.60 | 1.44 | 1.30% | 1.344 | 0.64 | 60.72 | 2.09 | 1.45 | 106 | 0.192 | 0.66 | 1.683 | 0.505 | | 0.38 | **0.52** | <= | 2.195 | 0.016 | 0.000 | 0.603 | 0.000 | 63.89 | 63.95 |
| 64.02 | 124.74 | 3.45 | 109.52 | 1.49 | 1.36% | 1.405 | 0.64 | 60.18 | 2.11 | 1.48 | 107 | 0.195 | 0.66 | 1.685 | 0.505 | | 0.39 | **0.53** | <= | 2.180 | 0.018 | 0.000 | 0.587 | 0.000 | 63.95 | 64.02 |
| 64.11 | 125.50 | 3.45 | 105.81 | 1.68 | 1.59% | 1.641 | 0.66 | 58.17 | 2.17 | 1.60 | 111 | 0.207 | 0.65 | 1.688 | 0.505 | | 0.41 | **0.56** | <= | 2.119 | 0.023 | 0.000 | 0.569 | 0.000 | 64.02 | 64.11 |
| 64.16 | 125.92 | 3.45 | 102.78 | 1.79 | 1.74% | 1.802 | 0.67 | 56.49 | 2.21 | 1.69 | 113 | 0.215 | 0.65 | 1.690 | 0.505 | | 0.43 | **0.59** | <= | 2.085 | 0.013 | 0.000 | 0.546 | 0.000 | 64.11 | 64.16 |
| 64.22 | 126.31 | 3.45 | 89.10 | 1.98 | 2.22% | 2.312 | 0.71 | 48.77 | 2.33 | 2.07 | 117 | 0.230 | 0.65 | 1.692 | 0.506 | | 0.46 | **0.63** | <= | 2.027 | 0.015 | 0.000 | 0.533 | 0.000 | 64.16 | 64.22 |
| 64.29 | 127.04 | 3.45 | 94.77 | 2.15 | 2.27% | 2.354 | 0.70 | 52.06 | 2.32 | 2.01 | 122 | 0.250 | 0.65 | 1.694 | 0.506 | | 0.49 | **0.68** | <= | 1.962 | 0.016 | 0.000 | 0.519 | 0.000 | 64.22 | 64.29 |
| 64.36 | 127.42 | 3.45 | 92.13 | 2.28 | 2.47% | 2.571 | 0.71 | 50.62 | 2.36 | 2.14 | 126 | 0.265 | 0.65 | 1.696 | 0.506 | | 0.52 | **0.72** | <= | 1.917 | 0.016 | 0.000 | 0.502 | 0.000 | 64.29 | 64.36 |
| 64.42 | 127.89 | 3.45 | 93.98 | 2.42 | 2.58% | 2.673 | 0.72 | 51.73 | 2.36 | 2.16 | 130 | 0.282 | 0.65 | 1.698 | 0.506 | | 0.56 | **0.77** | <= | 1.871 | 0.013 | 0.000 | 0.486 | 0.000 | 64.36 | 64.42 |
| 64.50 | 128.50 | 3.45 | 99.55 | 2.58 | 2.59% | 2.685 | 0.71 | 54.99 | 2.34 | 2.09 | 134 | 0.303 | 0.65 | 1.700 | 0.506 | | 0.60 | **0.82** | <= | 1.191 | 0.011 | 0.000 | 0.473 | 0.000 | 64.42 | 64.50 |
| 64.55 | 128.90 | 3.45 | 105.51 | 2.67 | 2.53% | 2.616 | 0.70 | 58.45 | 2.32 | 2.00 | 136 | 0.315 | 0.65 | 1.702 | 0.506 | | 0.62 | **0.86** | <= | 1.438 | 0.009 | 0.000 | 0.461 | 0.000 | 64.50 | 64.55 |
| 64.61 | 129.45 | 3.45 | 114.21 | 2.80 | 2.45% | 2.528 | 0.69 | 63.50 | 2.28 | 1.88 | 140 | 0.335 | 0.65 | 1.704 | 0.507 | | 0.66 | **0.91** | <= | 0.671 | 0.005 | 0.000 | 0.452 | 0.000 | 64.55 | 64.61 |
| 64.68 | 129.80 | 3.45 | 122.62 | 2.87 | 2.34% | 2.408 | 0.68 | 68.41 | 2.24 | 1.77 | 142 | 0.349 | 0.65 | 1.706 | 0.507 | | 0.69 | **0.95** | <= | 0.766 | 0.006 | 0.000 | 0.448 | 0.000 | 64.61 | 64.68 |
| 64.75 | 129.88 | 3.45 | 135.03 | 2.81 | 2.08% | 2.136 | 0.66 | 75.63 | 2.17 | 1.59 | 143 | 0.354 | 0.65 | 1.708 | 0.507 | | 0.70 | **0.96** | <= | 0.797 | 0.007 | 0.000 | 0.441 | 0.000 | 64.68 | 64.75 |
| 64.81 | 129.57 | 3.45 | 144.80 | 2.63 | 1.82% | 1.861 | 0.64 | 81.33 | 2.10 | 1.45 | 142 | 0.348 | 0.65 | 1.710 | 0.507 | | 0.69 | **0.94** | <= | 0.760 | 0.005 | 0.000 | 0.435 | 0.000 | 64.75 | 64.81 |
| 64.91 | 128.64 | 3.45 | 168.15 | 2.21 | 1.31% | 1.342 | 0.59 | 94.94 | 1.94 | 1.23 | 144 | 0.360 | 0.65 | 1.713 | 0.507 | | 0.71 | **0.98** | <= | 0.831 | 0.010 | 0.000 | 0.429 | 0.000 | 64.81 | 64.91 |
| 64.94 | 128.40 | 3.45 | 178.80 | 2.09 | 1.17% | 1.192 | 0.57 | 101.13 | 1.89 | 1.18 | 148 | 0.381 | 0.65 | 1.714 | 0.508 | | 0.75 | **1.03** | <= | 0.487 | 0.002 | 0.000 | 0.419 | 0.000 | 64.91 | 64.94 |
| 65.01 | 127.87 | 3.45 | 199.03 | 1.88 | 0.94% | 0.961 | 0.54 | 112.94 | 1.78 | 1.09 | 156 | 0.433 | 0.65 | 1.716 | 0.508 | | 0.85 | **1.17** | <= | 0.381 | 0.003 | 0.000 | 0.417 | 0.000 | 64.94 | 65.01 |
| 65.09 | 127.70 | 3.45 | 214.08 | 1.79 | 0.84% | 0.850 | 0.52 | 121.80 | 1.72 | 1.05 | 163 | 0.483 | 0.65 | 1.719 | 0.508 | | 0.95 | **1.31** | | 0.000 | 0.000 | 0.000 | 0.414 | 0.000 | | |
| 65.15 | 127.91 | 3.45 | 226.19 | 1.81 | 0.80% | 0.813 | 0.51 | 128.95 | 1.69 | 1.03 | 170 | 0.535 | 0.65 | 1.721 | 0.508 | | 1.05 | **1.45** | | 0.000 | 0.000 | 0.000 | 0.414 | 0.000 | | |
| 65.22 | 128.17 | 3.45 | 229.42 | 1.86 | 0.81% | 0.823 | 0.51 | 130.98 | 1.69 | 1.03 | 172 | 0.555 | 0.65 | 1.723 | 0.508 | | 1.09 | **1.50** | | 0.000 | 0.000 | 0.000 | 0.414 | 0.000 | | |
| 65.27 | 128.33 | 3.45 | 229.91 | 1.91 | 0.83% | 0.843 | 0.52 | 131.39 | 1.69 | 1.03 | 173 | 0.564 | 0.65 | 1.724 | 0.508 | | 1.11 | **1.53** | | 0.000 | 0.000 | 0.000 | 0.414 | 0.000 | | |
| 65.34 | 128.55 | 3.45 | 227.46 | 1.97 | 0.87% | 0.879 | 0.52 | 130.13 | 1.71 | 1.04 | 173 | 0.561 | 0.64 | 1.727 | 0.509 | | 1.10 | **1.52** | | 0.000 | 0.000 | 0.000 | 0.414 | 0.000 | | |
| 65.40 | 128.69 | 3.45 | 224.53 | 2.02 | 0.90% | 0.914 | 0.53 | 128.57 | 1.72 | 1.05 | 172 | 0.554 | 0.64 | 1.728 | 0.509 | | 1.09 | **1.50** | | 0.000 | 0.000 | 0.000 | 0.414 | 0.000 | | |
| 65.48 | 128.81 | 3.45 | 219.06 | 2.07 | 0.94% | 0.960 | 0.53 | 125.57 | 1.75 | 1.07 | 170 | 0.536 | 0.64 | 1.731 | 0.509 | | 1.05 | **1.45** | | 0.000 | 0.000 | 0.000 | 0.414 | 0.000 | | |
| 65.53 | 128.82 | 3.45 | 211.83 | 2.09 | 0.99% | 1.003 | 0.54 | 121.47 | 1.77 | 1.09 | 166 | 0.508 | 0.64 | 1.733 | 0.509 | | 1.00 | **1.37** | | 0.000 | 0.000 | 0.000 | 0.414 | 0.000 | | |
| 65.59 | 128.79 | 3.45 | 207.24 | 2.10 | 1.01% | 1.030 | 0.54 | 118.92 | 1.79 | 1.10 | 164 | 0.490 | 0.64 | 1.734 | 0.509 | | 0.96 | **1.32** | | 0.000 | 0.000 | 0.000 | 0.414 | 0.000 | | |
| 65.66 | 128.69 | 3.45 | 202.55 | 2.09 | 1.03% | 1.050 | 0.55 | 116.33 | 1.80 | 1.11 | 161 | 0.471 | 0.64 | 1.737 | 0.510 | | 0.92 | **1.27** | <= | 0.263 | 0.002 | 0.000 | 0.414 | 0.000 | 65.59 | 65.66 |
| 65.75 | 128.53 | 3.45 | 196.20 | 2.06 | 1.05% | 1.069 | 0.55 | 112.81 | 1.82 | 1.12 | 158 | 0.445 | 0.64 | 1.739 | 0.510 | | 0.87 | **1.20** | <= | 0.206 | 0.002 | 0.000 | 0.412 | 0.000 | 65.66 | 65.75 |
| 65.80 | 128.45 | 3.45 | 192.38 | 2.06 | 1.07% | 1.090 | 0.56 | 110.67 | 1.83 | 1.13 | 156 | 0.431 | 0.64 | 1.741 | 0.510 | | 0.85 | **1.16** | <= | 0.369 | 0.002 | 0.000 | 0.410 | 0.000 | 65.75 | 65.80 |
| 65.86 | 128.35 | 3.45 | 186.03 | 2.05 | 1.10% | 1.123 | 0.56 | 107.07 | 1.85 | 1.15 | 152 | 0.408 | 0.64 | 1.743 | 0.510 | | 0.80 | **1.10** | <= | 0.300 | 0.002 | 0.000 | 0.407 | 0.000 | 65.80 | 65.86 |
| 65.92 | 128.24 | 3.45 | 179.78 | 2.04 | 1.13% | 1.157 | 0.57 | 103.52 | 1.87 | 1.16 | 149 | 0.387 | 0.64 | 1.745 | 0.510 | | 0.76 | **1.04** | <= | 0.505 | 0.004 | 0.000 | 0.405 | 0.000 | 65.86 | 65.92 |
| 66.01 | 128.03 | 3.45 | 173.53 | 2.01 | 1.16% | 1.182 | 0.58 | 100.02 | 1.89 | 1.18 | 145 | 0.366 | 0.64 | 1.748 | 0.511 | | 0.72 | **0.99** | <= | 0.850 | 0.009 | 0.000 | 0.402 | 0.000 | 65.92 | 66.01 |
| 66.05 | 127.95 | 3.45 | 170.79 | 2.00 | 1.17% | 1.195 | 0.58 | 98.48 | 1.90 | 1.19 | 144 | 0.357 | 0.64 | 1.749 | 0.511 | | 0.70 | **0.96** | <= | 0.798 | 0.004 | 0.000 | 0.393 | 0.000 | 66.01 | 66.05 |
| 66.13 | 127.81 | 3.45 | 165.90 | 1.98 | 1.19% | 1.219 | 0.58 | 95.74 | 1.91 | 1.20 | 141 | 0.342 | 0.64 | 1.751 | 0.511 | | 0.67 | **0.92** | <= | 0.701 | 0.007 | 0.000 | 0.389 | 0.000 | 66.05 | 66.13 |
| 66.20 | 127.54 | 3.45 | 163.36 | 1.92 | 1.18% | 1.201 | 0.58 | 94.36 | 1.91 | 1.20 | 139 | 0.331 | 0.64 | 1.753 | 0.511 | | 0.65 | **0.89** | <= | 1.226 | 0.010 | 0.000 | 0.382 | 0.000 | 66.13 | 66.20 |
| 66.25 | 127.04 | 3.45 | 160.82 | 1.80 | 1.12% | 1.144 | 0.58 | 92.95 | 1.91 | 1.19 | 136 | 0.315 | 0.64 | 1.755 | 0.511 | | 0.62 | **0.85** | <= | 1.129 | 0.007 | 0.000 | 0.372 | 0.000 | 66.20 | 66.25 |
| 66.33 | 125.81 | 3.45 | 158.18 | 1.53 | 0.97% | 0.989 | 0.57 | 91.53 | 1.87 | 1.16 | 131 | 0.288 | 0.64 | 1.757 | 0.512 | | 0.56 | **0.78** | <= | 1.595 | 0.015 | 0.000 | 0.365 | 0.000 | 66.25 | 66.33 |
| 66.39 | 124.88 | 3.45 | 154.57 | 1.36 | 0.88% | 0.900 | 0.56 | 89.49 | 1.85 | 1.14 | 126 | 0.268 | 0.64 | 1.759 | 0.512 | | 0.52 | **0.72** | <= | 1.509 | 0.011 | 0.000 | 0.350 | 0.000 | 66.33 | 66.39 |
| 66.46 | 124.57 | 3.45 | 148.41 | 1.32 | 0.89% | 0.911 | 0.57 | 85.95 | 1.87 | 1.16 | 123 | 0.252 | 0.64 | 1.762 | 0.512 | | 0.49 | **0.68** | <= | 1.957 | 0.016 | 0.000 | 0.339 | 0.000 | 66.39 | 66.46 |
| 66.51 | 124.59 | 3.45 | 143.53 | 1.34 | 0.93% | 0.957 | 0.58 | 83.14 | 1.89 | 1.18 | 120 | 0.243 | 0.64 | 1.763 | 0.512 | | 0.47 | **0.65** | <= | 1.985 | 0.012 | 0.000 | 0.322 | 0.000 | 66.46 | 66.51 |
| 66.59 | 125.42 | 3.45 | 130.82 | 1.54 | 1.18% | 1.209 | 0.61 | 75.71 | 1.99 | 1.29 | 118 | 0.233 | 0.63 | 1.766 | 0.512 | | 0.46 | **0.63** | <= | 2.017 | 0.019 | 0.000 | 0.310 | 0.000 | 66.51 | 66.59 |
| 66.65 | 126.23 | 3.45 | 118.22 | 1.78 | 1.51% | 1.551 | 0.64 | 68.29 | 2.10 | 1.46 | 119 | 0.235 | 0.63 | 1.767 | 0.512 | | 0.46 | **0.63** | <= | 2.009 | 0.014 | 0.000 | 0.291 | 0.000 | 66.59 | 66.65 |
| 66.72 | 127.26 | 3.45 | 99.55 | 2.18 | 2.19% | 2.268 | 0.69 | 57.26 | 2.28 | 1.89 | 125 | 0.262 | 0.63 | 1.770 | 0.513 | | 0.51 | **0.70** | <= | 1.924 | 0.016 | 0.000 | 0.277 | 0.000 | 66.65 | 66.72 |
| 66.78 | 127.50 | 3.45 | 81.09 | 2.41 | 2.97% | 3.104 | 0.74 | 46.31 | 2.45 | 2.52 | 132 | 0.294 | 0.63 | 1.772 | 0.513 | | 0.57 | **0.79** | <= | 1.843 | 0.013 | 0.000 | 0.260 | 0.000 | 66.72 | 66.78 |
| 66.85 | 127.42 | 3.45 | 63.99 | 2.58 | 4.03% | 4.262 | 0.80 | 36.16 | 2.63 | 3.52 | 140 | 0.335 | 0.63 | 1.774 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 66.90 | 126.95 | 3.45 | 49.72 | 2.63 | 5.29% | 5.684 | 0.85 | 27.66 | 2.81 | 4.86 | 160 | 0.463 | 0.63 | 1.775 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 66.98 | 126.11 | 3.45 | 43.95 | 2.44 | 5.55% | 6.024 | 0.87 | 24.25 | 2.87 | 5.41 | 179 | 0.609 | 0.63 | 1.778 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.05 | 125.18 | 3.45 | 40.63 | 2.21 | 5.44% | 5.944 | 0.88 | 22.29 | 2.89 | 5.63 | 186 | 0.677 | 0.63 | 1.780 | 0.514 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.12 | 124.88 | 3.45 | 43.56 | 2.07 | 4.75% | 5.161 | 0.86 | 24.08 | 2.82 | 4.99 | 165 | 0.495 | 0.63 | 1.782 | 0.514 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.18 | 125.10 | 3.45 | 43.17 | 2.14 | 4.96% | 5.387 | 0.86 | 23.87 | 2.84 | 5.14 | 169 | 0.533 | 0.63 | 1.784 | 0.514 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.25 | 125.64 | 3.45 | 52.75 | 2.15 | 4.08% | 4.361 | 0.82 | 29.67 | 2.70 | 4.01 | 132 | 0.296 | 0.63 | 1.786 | 0.514 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.31 | 125.83 | 3.45 | 55.48 | 2.17 | 3.91% | 4.171 | 0.81 | 31.34 | 2.67 | 3.79 | 130 | 0.283 | 0.63 | 1.788 | 0.514 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.39 | 125.04 | 3.45 | 49.62 | 2.02 | 4.07% | 4.375 | 0.83 | 27.86 | 2.72 | 4.18 | 138 | 0.324 | 0.63 | 1.791 | 0.515 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.43 | 124.36 | 3.45 | 44.25 | 1.92 | 4.34% | 4.706 | 0.84 | 24.64 | 2.79 | 4.68 | 155 | 0.423 | 0.63 | 1.792 | 0.515 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.50 | 123.54 | 3.45 | 39.65 | 1.78 | 4.49% | 4.917 | 0.86 | 21.89 | 2.84 | 5.14 | 170 | 0.535 | 0.63 | 1.794 | 0.515 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.58 | 123.19 | 3.45 | 39.56 | 1.70 | 4.30% | 4.708 | 0.86 | 21.87 | 2.83 | 5.03 | 166 | 0.505 | 0.63 | 1.796 | 0.515 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.67 | 122.26 | 3.45 | 38.77 | 1.50 | 3.87% | 4.247 | 0.85 | 21.42 | 2.80 | 4.82 | 159 | 0.454 | 0.63 | 1.799 | 0.516 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.71 | 121.91 | 3.45 | 37.99 | 1.44 | 3.79% | 4.169 | 0.85 | 20.97 | 2.81 | 4.84 | 160 | 0.458 | 0.63 | 1.801 | 0.516 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.77 | 121.64 | 3.45 | 36.72 | 1.41 | 3.84% | 4.238 | 0.86 | 20.22 | 2.82 | 4.99 | 165 | 0.494 | 0.63 | 1.802 | 0.516 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.84 | 121.72 | 3.45 | 36.33 | 1.43 | 3.94% | 4.349 | 0.86 | 20.01 | 2.83 | 5.09 | 168 | 0.520 | 0.62 | 1.805 | 0.516 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.93 | 122.14 | 3.45 | 35.65 | 1.52 | 4.26% | 4.720 | 0.87 | 19.63 | 2.87 | 5.37 | 177 | 0.598 | 0.62 | 1.807 | 0.516 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 67.97 | 122.48 | 3.45 | 35.26 | 1.60 | 4.54% | 5.030 | 0.87 | 19.40 | 2.89 | 5.59 | 185 | 0.664 | 0.62 | 1.809 | 0.517 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.02 | 122.22 | 3.45 | 34.38 | 1.56 | 4.54% | 5.043 | 0.88 | 18.89 | 2.90 | 5.69 | 188 | 0.695 | 0.62 | 1.810 | 0.517 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.09 | 121.59 | 3.45 | 33.50 | 1.44 | 4.30% | 4.792 | 0.88 | 18.37 | 2.89 | 5.63 | 186 | 0.677 | 0.62 | 1.812 | 0.517 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.16 | 121.59 | 3.45 | 33.89 | 1.43 | 4.22% | 4.697 | 0.87 | 18.64 | 2.88 | 5.53 | 182 | 0.645 | 0.62 | 1.815 | 0.517 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.24 | 120.56 | 3.45 | 36.53 | 1.21 | 3.31% | 3.658 | 0.84 | 20.28 | 2.78 | 4.61 | 152 | 0.408 | 0.62 | 1.817 | 0.517 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.29 | 120.35 | 3.45 | 40.44 | 1.14 | 2.82% | 3.082 | 0.82 | 22.70 | 2.69 | 3.93 | 130 | 0.282 | 0.62 | 1.819 | 0.518 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.35 | 120.48 | 3.45 | 42.59 | 1.14 | 2.68% | 2.912 | 0.80 | 24.05 | 2.65 | 3.67 | 121 | 0.246 | 0.62 | 1.821 | 0.518 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.42 | 120.71 | 3.45 | 42.78 | 1.18 | 2.76% | 3.000 | 0.81 | 24.20 | 2.66 | 3.72 | 123 | 0.252 | 0.62 | 1.823 | 0.518 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.49 | 121.52 | 3.45 | 39.56 | 1.35 | 3.41% | 3.738 | 0.83 | 22.25 | 2.75 | 4.41 | 145 | 0.366 | 0.62 | 1.825 | 0.518 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.55 | 121.98 | 3.45 | 34.96 | 1.50 | 4.29% | 4.760 | 0.87 | 19.44 | 2.87 | 5.43 | 179 | 0.616 | 0.62 | 1.827 | 0.518 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.62 | 123.04 | 3.45 | 39.46 | 1.66 | 4.21% | 4.610 | 0.85 | 22.24 | 2.82 | 4.93 | 163 | 0.481 | 0.62 | 1.829 | 0.519 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.69 | 122.37 | 3.45 | 32.72 | 1.61 | 4.92% | 5.500 | 0.89 | 18.10 | 2.94 | 6.10 | 201 | 0.839 | 0.62 | 1.831 | 0.519 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.76 | 122.37 | 3.45 | 39.36 | 1.52 | 3.86% | 4.233 | 0.85 | 22.24 | 2.79 | 4.71 | 155 | 0.430 | 0.62 | 1.833 | 0.519 | | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.247 | 0.000 | | |
| 68.84 | 121.43 | 3.45 | 59.88 | 1.16 | 1.94% | 2.056 | 0.73 | 35.00 | 2.42 | 2.41 | 95 | 0.159 | 0.62 | 1.836 | 0.519 | | 0.31 | **0.42** | <= | 2.413 | 0.023 | 0.000 | 0.247 | 0.000 | 68.76 | 68.84 |
| 68.89 | 121.43 | 3.45 | 71.90 | 1.09 | 1.52% | 1.592 | 0.69 | 42.50 | 2.28 | 1.89 | 92 | 0.152 | 0.62 | 1.837 | 0.519 | | 0.29 | **0.40** | <= | 2.471 | 0.015 | 0.000 | 0.224 | 0.000 | 68.84 | 68.89 |
| 68.97 | 121.73 | 3.45 | 82.36 | 1.09 | 1.32% | 1.381 | 0.66 | 49.07 | 2.19 | 1.64 | 93 | 0.155 | 0.62 | 1.840 | 0.520 | | 0.30 | **0.41** | <= | 2.441 | 0.023 | 0.000 | 0.209 | 0.000 | 68.89 | 68.97 |
| 69.03 | 122.77 | 3.45 | 81.09 | 1.26 | 1.55% | 1.623 | 0.68 | 48.33 | 2.24 | 1.77 | 99 | 0.169 | 0.61 | 1.842 | 0.520 | | 0.32 | **0.45** | <= | 2.335 | 0.017 | 0.000 | 0.186 | 0.000 | 68.97 | 69.03 |
| 69.11 | 124.07 | 3.45 | 74.54 | 1.55 | 2.08% | 2.180 | 0.72 | 44.33 | 2.36 | 2.15 | 108 | 0.196 | 0.61 | 1.844 | 0.520 | | 0.38 | **0.52** | <= | 2.171 | 0.021 | 0.000 | 0.169 | 0.000 | 69.03 | 69.11 |
| 69.16 | 124.15 | 3.45 | 63.50 | 1.65 | 2.60% | 2.748 | 0.75 | 37.48 | 2.48 | 2.69 | 112 | 0.212 | 0.61 | 1.846 | 0.520 | | 0.41 | **0.56** | <= | 2.101 | 0.013 | 0.000 | 0.148 | 0.000 | 69.11 | 69.16 |
| 69.20 | 124.18 | 3.45 | 56.27 | 1.73 | 3.07% | 3.275 | 0.78 | 32.99 | 2.58 | 3.21 | 116 | 0.227 | 0.61 | 1.847 | 0.520 | | 0.44 | **0.60** | <= | 2.040 | 0.010 | 0.000 | 0.135 | 0.000 | 69.16 | 69.20 |
| 69.29 | 123.68 | 3.45 | 47.18 | 1.71 | 3.62% | 3.910 | 0.82 | 27.36 | 2.70 | 3.98 | 131 | 0.291 | 0.61 | 1.850 | 0.521 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.126 | 0.000 | | |
| 69.34 | 123.53 | 3.45 | 44.34 | 1.71 | 3.86% | 4.182 | 0.83 | 25.61 | 2.74 | 4.30 | 142 | 0.346 | 0.61 | 1.851 | 0.521 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.126 | 0.000 | | |
| 69.42 | 123.30 | 3.45 | 40.24 | 1.71 | 4.25% | 4.648 | 0.85 | 23.08 | 2.81 | 4.85 | 160 | 0.462 | 0.61 | 1.854 | 0.521 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.126 | 0.000 | | |
| 69.47 | 123.18 | 3.45 | 38.87 | 1.70 | 4.37% | 4.799 | 0.86 | 22.24 | 2.83 | 5.05 | 167 | 0.509 | 0.61 | 1.855 | 0.521 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.126 | 0.000 | | |
| 69.56 | 122.95 | 3.45 | 38.68 | 1.65 | 4.27% | 4.683 | 0.86 | 22.16 | 2.82 | 4.99 | 165 | 0.496 | 0.61 | 1.858 | 0.522 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.126 | 0.000 | | |
| 69.60 | 122.93 | 3.45 | 39.85 | 1.63 | 4.09% | 4.478 | 0.85 | 22.92 | 2.80 | 4.78 | 158 | 0.444 | 0.61 | 1.860 | 0.522 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.126 | 0.000 | | |
| 69.68 | 122.67 | 3.45 | 41.90 | 1.55 | 3.70% | 4.031 | 0.83 | 24.24 | 2.75 | 4.36 | 144 | 0.358 | 0.61 | 1.862 | 0.522 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.126 | 0.000 | | |
| 69.73 | 122.90 | 3.45 | 42.88 | 1.58 | 3.68% | 4.007 | 0.83 | 24.89 | 2.74 | 4.28 | 141 | 0.342 | 0.61 | 1.864 | 0.522 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.126 | 0.000 | | |
| 69.81 | 124.05 | 3.45 | 43.17 | 1.85 | 4.29% | 4.657 | 0.84 | 25.11 | 2.78 | 4.62 | 153 | 0.410 | 0.61 | 1.866 | 0.522 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.126 | 0.000 | | |
| 69.86 | 87.42 | 3.45 | 42.88 | 0.00 | 0.00% | 0.003 | 0.74 | 24.95 | 2.45 | 2.52 | 83 | 0.134 | 0.61 | 1.868 | 0.523 | | 0.26 | **0.35** | <= | 2.673 | 0.016 | 0.000 | 0.126 | 0.000 | 69.81 | 69.86 |
| 69.94 | 87.42 | 3.45 | 41.80 | 0.00 | 0.00% | 0.003 | 0.74 | 24.31 | 2.45 | 2.54 | 84 | 0.135 | 0.61 | 1.870 | 0.523 | | 0.26 | **0.35** | <= | 2.661 | 0.026 | 0.000 | 0.110 | 0.000 | 69.86 | 69.94 |
| 70.00 | 87.42 | 3.45 | 40.63 | 0.00 | 0.00% | 0.003 | 0.74 | 23.59 | 2.46 | 2.55 | 84 | 0.136 | 0.61 | 1.872 | 0.523 | | 0.26 | **0.36** | <= | 2.647 | 0.019 | 0.000 | 0.084 | 0.000 | 69.94 | 70.00 |
| 70.06 | 87.42 | 3.45 | 39.26 | 0.00 | 0.00% | 0.003 | 0.75 | 22.75 | 2.46 | 2.58 | 85 | 0.137 | 0.61 | 1.874 | 0.523 | | 0.26 | **0.36** | <= | 2.630 | 0.019 | 0.000 | 0.065 | 0.000 | 70.00 | 70.06 |
| 70.15 | 87.42 | 3.45 | 46.40 | 0.00 | 0.00% | 0.002 | 0.74 | 27.33 | 2.44 | 2.47 | 82 | 0.131 | 0.61 | 1.877 | 0.524 | | 0.25 | **0.34** | <= | 2.717 | 0.029 | 0.000 | 0.046 | 0.000 | 70.06 | 70.15 |
| 70.20 | 87.42 | 3.12 | 45.32 | 0.00 | 0.00% | 0.002 | 0.72 | 34.02 | 2.38 | 2.22 | 79 | 0.126 | 0.61 | 1.878 | 0.600 | | 0.21 | **0.29** | <= | 2.780 | 0.017 | 0.000 | 0.017 | 0.000 | 70.15 | 70.20 |

| Total Wet Seismic Settlement (in) | 5.70 | Total Wet Seismic Settlement within 50' Depth (in) | 3.79 |
|---|---|---|---|
| Total Dry Seismic Settlement (in) | 0.00 | Total Post-Grading Dry Seismic Settlement (in) * | 0.00 |

* Upon implementation of remedial grading recommended in Section 6.2.3 of the Soils Report.


(a) FOS Against Liquefaction vs. Depth at CPT-1
FOS Against Liquefaction
0.0
0.5
1.0
1.3
1.5
2.0
2.5
3.0
Depth (ft)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
"Dry" Seismic Settlement
HHGWL @ 10'
Liquefaction-Prone w/ "Wet" Seismic Settlement
Denote current ground condition
Denote post-ground modification condition
* Soil strata that are below GWL & w/ FOS < 1.3 are classified as liquefaction-prone (SP117A).


(b) Seismic Settlement vs. Depth at CPT-1
Seismic Settlement (in)
0.0
1.0
2.0
3.0
4.0
5.0
6.0
Depth (ft)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
HHGWL @ 10'
Wet Seismic Settlement
Accu. Wet Seimsic Settlement
Dry Seismic Settlement
Accu. Dry Seismic Settlement
PostGM_AccuWetSeismicSettlement
PstGM_AccuDrySeismicSettlement

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-2

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft) 1 | **MAGNITUDE:** 6.62 | **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet | **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | | | | | | | | | | | | | | | | | 4.570 | 0.787 | | |
| 0.07 | 107.05 | 0.00 | 8.79 | 0.31 | 3.53% | 3.528 | 0.62 | 2345.03 | 2.05 | 1.36 | 273 | 1.969 | 1.00 | 0.000 | 0.394 | | 5.00 | **6.88** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.15 | 109.78 | 0.01 | 13.87 | 0.39 | 2.81% | 2.813 | 0.60 | 1703.36 | 1.99 | 1.28 | 257 | 1.650 | 1.00 | 0.000 | 0.394 | | 4.19 | **5.76** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.20 | 111.00 | 0.01 | 16.21 | 0.43 | 2.65% | 2.654 | 0.60 | 1484.39 | 1.97 | 1.27 | 253 | 1.595 | 1.00 | 0.000 | 0.394 | | 4.05 | **5.57** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.28 | 113.04 | 0.02 | 22.37 | 0.51 | 2.28% | 2.281 | 0.58 | 1448.35 | 1.91 | 1.20 | 240 | 1.362 | 1.00 | 0.000 | 0.394 | | 3.46 | **4.76** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.33 | 113.95 | 0.02 | 26.96 | 0.55 | 2.04% | 2.041 | 0.57 | 1473.57 | 1.86 | 1.16 | 231 | 1.229 | 1.00 | 0.000 | 0.394 | | 3.12 | **4.30** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.40 | 115.34 | 0.02 | 38.19 | 0.59 | 1.54% | 1.546 | 0.53 | 1710.01 | 1.74 | 1.07 | 213 | 0.979 | 1.00 | 0.000 | 0.394 | | 2.49 | **3.42** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.46 | 116.02 | 0.03 | 46.69 | 0.60 | 1.29% | 1.286 | 0.51 | 1808.63 | 1.67 | 1.01 | 203 | 0.856 | 1.00 | 0.000 | 0.393 | | 2.18 | **2.99** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.55 | 116.47 | 0.03 | 57.92 | 0.60 | 1.04% | 1.036 | 0.50 | 1864.86 | 1.57 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.09 | **2.88** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.60 | 116.91 | 0.03 | 66.81 | 0.60 | 0.90% | 0.899 | 0.50 | 1966.04 | 1.49 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.09 | **2.88** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.67 | 117.90 | 0.04 | 76.67 | 0.66 | 0.86% | 0.861 | 0.50 | 2011.80 | 1.45 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.88** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.74 | 118.61 | 0.04 | 82.63 | 0.71 | 0.86% | 0.860 | 0.50 | 1955.08 | 1.45 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.88** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.81 | 119.19 | 0.05 | 83.51 | 0.77 | 0.92% | 0.923 | 0.50 | 1798.23 | 1.48 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.88** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.87 | 119.78 | 0.05 | 82.92 | 0.83 | 1.00% | 1.002 | 0.50 | 1657.15 | 1.52 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.88** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 0.93 | 120.24 | 0.05 | 81.07 | 0.89 | 1.10% | 1.099 | 0.50 | 1511.08 | 1.57 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.88** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.00 | 120.64 | 0.06 | 78.14 | 0.96 | 1.23% | 1.229 | 0.50 | 1350.03 | 1.63 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.06 | 120.82 | 0.06 | 72.57 | 1.00 | 1.38% | 1.379 | 0.51 | 1179.73 | 1.69 | 1.03 | 206 | 0.888 | 1.00 | 0.000 | 0.393 | | 2.26 | **3.11** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.14 | 120.55 | 0.07 | 65.05 | 1.00 | 1.54% | 1.539 | 0.53 | 980.39 | 1.75 | 1.07 | 214 | 0.993 | 1.00 | 0.000 | 0.393 | | 2.53 | **3.48** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.22 | 120.38 | 0.07 | 58.11 | 1.02 | 1.76% | 1.757 | 0.55 | 816.31 | 1.82 | 1.12 | 224 | 1.127 | 1.00 | 0.000 | 0.393 | | 2.87 | **3.95** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.25 | 120.27 | 0.07 | 55.38 | 1.02 | 1.84% | 1.844 | 0.56 | 758.64 | 1.85 | 1.14 | 228 | 1.188 | 1.00 | 0.000 | 0.393 | | 3.03 | **4.16** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.32 | 119.69 | 0.08 | 52.25 | 0.96 | 1.84% | 1.840 | 0.57 | 676.76 | 1.86 | 1.16 | 232 | 1.234 | 1.00 | 0.000 | 0.393 | | 3.14 | **4.32** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.40 | 120.16 | 0.08 | 47.17 | 1.06 | 2.25% | 2.251 | 0.59 | 574.96 | 1.95 | 1.24 | 249 | 1.510 | 1.00 | 0.000 | 0.393 | | 3.85 | **5.29** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.45 | 120.23 | 0.08 | 46.00 | 1.08 | 2.35% | 2.352 | 0.60 | 540.79 | 1.98 | 1.27 | 253 | 1.580 | 1.00 | 0.000 | 0.393 | | 4.02 | **5.54** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.52 | 119.85 | 0.09 | 40.63 | 1.07 | 2.63% | 2.639 | 0.62 | 455.01 | 2.04 | 1.36 | 244 | 1.430 | 1.00 | 0.000 | 0.392 | | 3.64 | **5.01** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.59 | 119.55 | 0.09 | 38.58 | 1.04 | 2.70% | 2.702 | 0.63 | 412.58 | 2.07 | 1.40 | 236 | 1.296 | 1.00 | 0.000 | 0.392 | | 3.30 | **4.54** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.67 | 119.66 | 0.10 | 38.58 | 1.06 | 2.75% | 2.755 | 0.63 | 392.39 | 2.08 | 1.42 | 234 | 1.268 | 1.00 | 0.000 | 0.392 | | 3.23 | **4.45** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.71 | 119.53 | 0.10 | 38.58 | 1.04 | 2.70% | 2.703 | 0.63 | 383.03 | 2.08 | 1.42 | 229 | 1.201 | 1.00 | 0.000 | 0.392 | | 3.06 | **4.21** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.78 | 118.90 | 0.10 | 38.58 | 0.95 | 2.46% | 2.469 | 0.63 | 367.76 | 2.06 | 1.38 | 215 | 1.006 | 1.00 | 0.000 | 0.392 | | 2.56 | **3.53** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.85 | 118.23 | 0.11 | 39.17 | 0.86 | 2.20% | 2.202 | 0.62 | 359.15 | 2.03 | 1.34 | 202 | 0.845 | 1.00 | 0.000 | 0.392 | | 2.15 | **2.96** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.95 | 116.98 | 0.11 | 38.68 | 0.73 | 1.89% | 1.893 | 0.61 | 336.50 | 2.00 | 1.29 | 183 | 0.650 | 1.00 | 0.000 | 0.392 | | 1.66 | **2.28** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 1.99 | 116.41 | 0.12 | 37.21 | 0.69 | 1.85% | 1.860 | 0.61 | 317.21 | 2.00 | 1.30 | 176 | 0.588 | 1.00 | 0.000 | 0.392 | | 1.50 | **2.06** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 2.05 | 115.47 | 0.12 | 36.04 | 0.61 | 1.69% | 1.698 | 0.61 | 298.33 | 1.99 | 1.29 | 164 | 0.492 | 1.00 | 0.000 | 0.392 | | 1.25 | **1.73** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 2.12 | 114.60 | 0.12 | 34.97 | 0.55 | 1.57% | 1.578 | 0.60 | 280.08 | 1.98 | 1.28 | 155 | 0.423 | 0.99 | 0.000 | 0.392 | | 1.08 | **1.49** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.787 | | |
| 2.20 | 113.33 | 0.13 | 34.18 | 0.46 | 1.35% | 1.351 | 0.59 | 264.07 | 1.96 | 1.25 | 141 | 0.343 | 0.99 | 0.000 | 0.392 | | 0.88 | **1.20** | <= | 0.227 | 0.000 | 0.002 | 4.570 | 0.787 | | |
| 2.25 | 113.04 | 0.13 | 33.40 | 0.45 | 1.35% | 1.353 | 0.60 | 252.47 | 1.97 | 1.26 | 138 | 0.327 | 0.99 | 0.000 | 0.392 | | 0.83 | **1.15** | <= | 0.379 | 0.000 | 0.002 | 4.570 | 0.785 | | |
| 2.30 | 112.92 | 0.13 | 32.43 | 0.45 | 1.39% | 1.393 | 0.60 | 239.95 | 1.99 | 1.28 | 137 | 0.317 | 0.99 | 0.000 | 0.392 | | 0.81 | **1.11** | <= | 0.339 | 0.000 | 0.002 | 4.570 | 0.783 | | |
| 2.38 | 112.43 | 0.14 | 29.79 | 0.43 | 1.44% | 1.450 | 0.61 | 213.18 | 2.02 | 1.33 | 131 | 0.288 | 0.99 | 0.000 | 0.392 | | 0.74 | **1.01** | <= | 0.488 | 0.000 | 0.005 | 4.570 | 0.781 | | |
| 2.44 | 112.25 | 0.14 | 27.93 | 0.43 | 1.54% | 1.547 | 0.63 | 195.06 | 2.06 | 1.39 | 129 | 0.278 | 0.99 | 0.000 | 0.392 | | 0.71 | **0.98** | <= | 0.980 | 0.000 | 0.007 | 4.570 | 0.776 | | |
| 2.52 | 112.03 | 0.15 | 26.18 | 0.42 | 1.60% | 1.613 | 0.64 | 177.17 | 2.09 | 1.44 | 125 | 0.263 | 0.99 | 0.000 | 0.392 | | 0.67 | **0.93** | <= | 0.813 | 0.000 | 0.008 | 4.570 | 0.769 | | |
| 2.57 | 111.77 | 0.15 | 24.32 | 0.42 | 1.73% | 1.738 | 0.65 | 161.42 | 2.14 | 1.52 | 124 | 0.259 | 0.99 | 0.000 | 0.392 | | 0.66 | **0.91** | <= | 0.756 | 0.000 | 0.005 | 4.570 | 0.761 | | |
| 2.64 | 111.44 | 0.15 | 23.05 | 0.41 | 1.78% | 1.791 | 0.66 | 149.03 | 2.16 | 1.58 | 122 | 0.249 | 0.99 | 0.000 | 0.391 | | 0.63 | **0.87** | <= | 1.750 | 0.000 | 0.015 | 4.570 | 0.757 | | |
| 2.70 | 110.98 | 0.16 | 21.98 | 0.39 | 1.77% | 1.787 | 0.66 | 139.03 | 2.18 | 1.61 | 118 | 0.234 | 0.99 | 0.000 | 0.391 | | 0.60 | **0.82** | <= | 1.387 | 0.000 | 0.010 | 4.570 | 0.742 | | |
| 2.76 | 110.43 | 0.16 | 20.80 | 0.37 | 1.78% | 1.793 | 0.67 | 128.78 | 2.20 | 1.66 | 115 | 0.221 | 0.99 | 0.000 | 0.391 | | 0.56 | **0.78** | <= | 2.064 | 0.000 | 0.015 | 4.570 | 0.732 | | |
| 2.83 | 109.72 | 0.16 | 19.83 | 0.34 | 1.71% | 1.729 | 0.67 | 119.83 | 2.21 | 1.68 | 110 | 0.202 | 0.99 | 0.000 | 0.391 | | 0.52 | **0.71** | <= | 2.142 | 0.000 | 0.018 | 4.570 | 0.717 | | |
| 2.89 | 110.34 | 0.17 | 19.14 | 0.37 | 1.93% | 1.950 | 0.68 | 113.32 | 2.25 | 1.80 | 114 | 0.218 | 0.99 | 0.000 | 0.391 | | 0.56 | **0.77** | <= | 2.074 | 0.000 | 0.015 | 4.570 | 0.699 | | |
| 2.97 | 109.97 | 0.17 | 18.56 | 0.36 | 1.94% | 1.958 | 0.69 | 107.02 | 2.26 | 1.84 | 112 | 0.211 | 0.99 | 0.000 | 0.391 | | 0.54 | **0.74** | <= | 2.105 | 0.000 | 0.020 | 4.570 | 0.684 | | |
| 3.02 | 110.58 | 0.17 | 18.36 | 0.39 | 2.12% | 2.145 | 0.70 | 104.16 | 2.29 | 1.93 | 117 | 0.227 | 0.99 | 0.000 | 0.391 | | 0.58 | **0.80** | <= | 2.039 | 0.000 | 0.012 | 4.570 | 0.664 | | |
| 3.10 | 111.47 | 0.18 | 18.17 | 0.44 | 2.42% | 2.446 | 0.71 | 100.48 | 2.33 | 2.06 | 124 | 0.257 | 0.99 | 0.000 | 0.391 | | 0.66 | **0.90** | <= | 0.741 | 0.000 | 0.007 | 4.570 | 0.652 | | |
| 3.19 | 112.11 | 0.18 | 17.19 | 0.49 | 2.85% | 2.881 | 0.73 | 92.38 | 2.40 | 2.30 | 132 | 0.296 | 0.99 | 0.000 | 0.391 | | 0.76 | **1.04** | <= | 0.549 | 0.000 | 0.006 | 4.570 | 0.645 | | |
| 3.24 | 112.45 | 0.19 | 16.21 | 0.53 | 3.27% | 3.308 | 0.74 | 85.73 | 2.45 | 2.54 | 140 | 0.336 | 0.99 | 0.000 | 0.391 | | 0.86 | **1.18** | <= | 0.418 | 0.000 | 0.003 | 4.570 | 0.639 | | |
| 3.31 | 113.03 | 0.19 | 14.94 | 0.59 | 3.95% | 4.000 | 0.77 | 77.28 | 2.53 | 2.92 | 152 | 0.406 | 0.99 | 0.000 | 0.391 | | 1.04 | **1.43** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 3.36 | 113.52 | 0.19 | 14.65 | 0.63 | 4.30% | 4.358 | 0.78 | 74.63 | 2.56 | 3.09 | 158 | 0.450 | 0.99 | 0.000 | 0.391 | | 1.15 | **1.59** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 3.41 | 114.04 | 0.20 | 14.06 | 0.69 | 4.91% | 4.977 | 0.79 | 70.53 | 2.61 | 3.39 | 169 | 0.530 | 0.99 | 0.000 | 0.391 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 3.50 | 115.20 | 0.20 | 14.26 | 0.80 | 5.61% | 5.691 | 0.80 | 69.69 | 2.65 | 3.65 | 184 | 0.660 | 0.99 | 0.000 | 0.391 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 3.55 | 115.89 | 0.20 | 15.63 | 0.85 | 5.44% | 5.510 | 0.79 | 75.38 | 2.62 | 3.45 | 186 | 0.682 | 0.99 | 0.000 | 0.391 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 3.61 | 117.15 | 0.21 | 18.95 | 0.95 | 5.01% | 5.069 | 0.77 | 90.04 | 2.55 | 3.04 | 190 | 0.718 | 0.99 | 0.000 | 0.391 | | 1.84 | **2.53** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 3.68 | 119.07 | 0.21 | 25.10 | 1.12 | 4.46% | 4.500 | 0.74 | 117.22 | 2.45 | 2.53 | 197 | 0.789 | 0.99 | 0.000 | 0.390 | | 2.02 | **2.78** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 3.77 | 121.94 | 0.22 | 39.36 | 1.43 | 3.63% | 3.653 | 0.69 | 179.72 | 2.28 | 1.89 | 210 | 0.944 | 0.99 | 0.000 | 0.390 | | 2.42 | **3.33** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 3.81 | 122.88 | 0.22 | 47.08 | 1.53 | 3.25% | 3.265 | 0.67 | 212.75 | 2.21 | 1.68 | 214 | 0.998 | 0.99 | 0.000 | 0.390 | | 2.56 | **3.52** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 3.90 | 120.87 | 0.23 | 64.17 | 1.05 | 1.64% | 1.642 | 0.59 | 283.32 | 1.93 | 1.22 | 184 | 0.658 | 0.99 | 0.000 | 0.390 | | 1.69 | **2.32** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 3.94 | 121.04 | 0.23 | 65.63 | 1.07 | 1.63% | 1.636 | 0.59 | 286.70 | 1.93 | 1.21 | 186 | 0.675 | 0.99 | 0.000 | 0.390 | | 1.73 | **2.38** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 4.03 | 121.89 | 0.23 | 88.20 | 1.09 | 1.24% | 1.239 | 0.54 | 376.56 | 1.77 | 1.09 | 206 | 0.895 | 0.99 | 0.000 | 0.390 | | 2.29 | **3.16** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 4.08 | 122.10 | 0.24 | 99.04 | 1.08 | 1.09% | 1.093 | 0.52 | 417.50 | 1.71 | 1.04 | 209 | 0.928 | 0.99 | 0.000 | 0.390 | | 2.38 | **3.27** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 4.17 | 121.51 | 0.24 | 99.23 | 0.99 | 1.00% | 1.000 | 0.51 | 408.83 | 1.69 | 1.03 | 206 | 0.892 | 0.99 | 0.000 | 0.390 | | 2.29 | **3.15** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 4.22 | 120.98 | 0.25 | 95.13 | 0.94 | 0.99% | 0.991 | 0.52 | 387.05 | 1.70 | 1.04 | 200 | 0.821 | 0.99 | 0.000 | 0.390 | | 2.11 | **2.90** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 4.26 | 120.54 | 0.25 | 97.18 | 0.88 | 0.91% | 0.908 | 0.51 | 391.55 | 1.67 | 1.02 | 197 | 0.789 | 0.99 | 0.000 | 0.390 | | 2.02 | **2.78** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 4.34 | 119.49 | 0.25 | 92.49 | 0.77 | 0.83% | 0.835 | 0.51 | 365.53 | 1.66 | 1.01 | 184 | 0.662 | 0.99 | 0.000 | 0.390 | | 1.70 | **2.34** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 4.41 | 118.72 | 0.26 | 86.93 | 0.71 | 0.82% | 0.819 | 0.51 | 337.92 | 1.68 | 1.02 | 175 | 0.574 | 0.99 | 0.000 | 0.390 | | 1.47 | **2.03** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 4.48 | 118.08 | 0.26 | 82.14 | 0.66 | 0.80% | 0.806 | 0.52 | 314.16 | 1.69 | 1.03 | 166 | 0.506 | 0.99 | 0.000 | 0.390 | | 1.30 | **1.79** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 4.53 | 117.49 | 0.26 | 76.57 | 0.62 | 0.81% | 0.813 | 0.52 | 289.52 | 1.72 | 1.05 | 158 | 0.446 | 0.99 | 0.000 | 0.390 | | 1.14 | **1.57** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.636 | | |
| 4.61 | 116.32 | 0.27 | 68.47 | 0.55 | 0.80% | 0.806 | 0.53 | 254.28 | 1.75 | 1.07 | 145 | 0.362 | 0.99 | 0.000 | 0.390 | | 0.93 | **1.28** | <= | 0.289 | 0.000 | 0.003 | 4.570 | 0.636 | | |
| 4.69 | 115.47 | 0.27 | 59.97 | 0.51 | 0.85% | 0.854 | 0.55 | 218.80 | 1.81 | 1.11 | 133 | 0.299 | 0.99 | 0.000 | 0.390 | | 0.77 | **1.06** | <= | 0.583 | 0.000 | 0.006 | 4.570 | 0.634 | | |
| 4.75 | 115.21 | 0.28 | 56.06 | 0.51 | 0.91% | 0.914 | 0.56 | 201.90 | 1.84 | 1.14 | 129 | 0.279 | 0.99 | 0.000 | 0.389 | | 0.72 | **0.98** | <= | 1.005 | 0.000 | 0.007 | 4.570 | 0.628 | | |
| 4.79 | 115.18 | 0.28 | 51.76 | 0.52 | 1.00% | 1.010 | 0.58 | 184.79 | 1.89 | 1.18 | 125 | 0.262 | 0.99 | 0.000 | 0.389 | | 0.67 | **0.93** | <= | 0.821 | 0.000 | 0.004 | 4.570 | 0.621 | | |
| 4.86 | 115.66 | 0.28 | 46.69 | 0.57 | 1.22% | 1.228 | 0.60 | 164.19 | 1.98 | 1.27 | 124 | 0.257 | 0.99 | 0.000 | 0.389 | | 0.66 | **0.91** | <= | 0.759 | 0.000 | 0.006 | 4.570 | 0.617 | | |
| 4.93 | 116.26 | 0.29 | 44.05 | 0.64 | 1.45% | 1.462 | 0.62 | 152.64 | 2.04 | 1.36 | 127 | 0.270 | 0.99 | 0.000 | 0.389 | | 0.69 | **0.96** | <= | 0.916 | 0.000 | 0.008 | 4.570 | 0.611 | | |
| 5.02 | 116.57 | 0.29 | 41.41 | 0.68 | 1.64% | 1.654 | 0.64 | 140.83 | 2.09 | 1.44 | 128 | 0.276 | 0.99 | 0.000 | 0.389 | | 0.71 | **0.97** | <= | 0.975 | 0.000 | 0.011 | 4.570 | 0.603 | | |
| 5.06 | 116.60 | 0.29 | 39.75 | 0.69 | 1.74% | 1.749 | 0.64 | 134.07 | 2.12 | 1.50 | 128 | 0.275 | 0.99 | 0.000 | 0.389 | | 0.71 | **0.97** | <= | 0.973 | 0.000 | 0.005 | 4.570 | 0.592 | | |
| 5.13 | 116.60 | 0.30 | 37.90 | 0.70 | 1.85% | 1.862 | 0.65 | 126.02 | 2.15 | 1.56 | 128 | 0.275 | 0.99 | 0.000 | 0.389 | | 0.71 | **0.97** | <= | 0.968 | 0.000 | 0.008 | 4.570 | 0.588 | | |
| 5.19 | 116.53 | 0.30 | 37.11 | 0.70 | 1.89% | 1.902 | 0.66 | 121.93 | 2.17 | 1.59 | 127 | 0.272 | 0.99 | 0.000 | 0.389 | | 0.70 | **0.96** | <= | 0.939 | 0.000 | 0.007 | 4.570 | 0.579 | | |
| 5.25 | 116.36 | 0.31 | 37.90 | 0.68 | 1.79% | 1.809 | 0.65 | 123.12 | 2.15 | 1.56 | 125 | 0.263 | 0.99 | 0.000 | 0.389 | | 0.68 | **0.93** | <= | 0.831 | 0.000 | 0.006 | 4.570 | 0.573 | | |
| 5.33 | 116.02 | 0.31 | 37.60 | 0.65 | 1.73% | 1.743 | 0.65 | 120.29 | 2.15 | 1.55 | 122 | 0.249 | 0.99 | 0.000 | 0.389 | | 0.64 | **0.88** | <= | 1.811 | 0.000 | 0.017 | 4.570 | 0.567 | | |
| 5.38 | 115.68 | 0.31 | 37.90 | 0.62 | 1.64% | 1.650 | 0.65 | 120.13 | 2.13 | 1.52 | 119 | 0.237 | 0.99 | 0.000 | 0.389 | | 0.61 | **0.84** | <= | 1.516 | 0.000 | 0.009 | 4.570 | 0.549 | | |
| 5.46 | 115.34 | 0.32 | 38.77 | 0.58 | 1.50% | 1.508 | 0.64 | 121.11 | 2.10 | 1.46 | 116 | 0.223 | 0.99 | 0.000 | 0.389 | | 0.57 | **0.79** | <= | 2.054 | 0.000 | 0.020 | 4.570 | 0.540 | | |
| 5.55 | 115.04 | 0.32 | 39.65 | 0.56 | 1.41% | 1.424 | 0.63 | 121.88 | 2.09 | 1.43 | 114 | 0.216 | 0.99 | 0.000 | 0.389 | | 0.56 | **0.77** | <= | 2.082 | 0.000 | 0.022 | 4.570 | 0.521 | | |
| 5.58 | 114.97 | 0.32 | 40.24 | 0.55 | 1.37% | 1.378 | 0.63 | 123.04 | 2.07 | 1.41 | 113 | 0.213 | 0.99 | 0.000 | 0.389 | | 0.55 | **0.76** | <= | 2.093 | 0.000 | 0.008 | 4.570 | 0.498 | | |
| 5.68 | 114.82 | 0.33 | 41.80 | 0.53 | 1.27% | 1.278 | 0.62 | 125.61 | 2.05 | 1.37 | 111 | 0.208 | 0.99 | 0.000 | 0.389 | | 0.54 | **0.74** | <= | 2.116 | 0.000 | 0.025 | 4.570 | 0.491 | | |
| 5.73 | 114.77 | 0.33 | 43.17 | 0.52 | 1.20% | 1.214 | 0.62 | 128.63 | 2.03 | 1.34 | 111 | 0.207 | 0.99 | 0.000 | 0.389 | | 0.53 | **0.73** | <= | 1.876 | 0.000 | 0.011 | 4.570 | 0.465 | | |
| 5.79 | 114.62 | 0.34 | 44.63 | 0.51 | 1.14% | 1.151 | 0.61 | 131.65 | 2.00 | 1.31 | 111 | 0.206 | 0.99 | 0.000 | 0.388 | | 0.53 | **0.73** | <= | 1.870 | 0.000 | 0.013 | 4.570 | 0.454 | | |
| 5.86 | 114.43 | 0.34 | 46.88 | 0.48 | 1.02% | 1.031 | 0.60 | 136.70 | 1.96 | 1.26 | 110 | 0.202 | 0.99 | 0.000 | 0.388 | | 0.52 | **0.72** | <= | 1.847 | 0.000 | 0.016 | 4.570 | 0.440 | | |
| 5.92 | 114.38 | 0.34 | 49.32 | 0.47 | 0.95% | 0.960 | 0.59 | 142.42 | 1.93 | 1.22 | 110 | 0.205 | 0.99 | 0.000 | 0.388 | | 0.53 | **0.73** | <= | 1.863 | 0.000 | 0.013 | 4.570 | 0.425 | | |
| 5.99 | 114.34 | 0.35 | 51.67 | 0.46 | 0.89% | 0.896 | 0.58 | 147.52 | 1.90 | 1.19 | 111 | 0.207 | 0.99 | 0.000 | 0.388 | | 0.53 | **0.74** | <= | 1.881 | 0.000 | 0.016 | 4.570 | 0.411 | | |
| 6.04 | 114.36 | 0.35 | 53.33 | 0.46 | 0.86% | 0.868 | 0.57 | 151.04 | 1.89 | 1.18 | 112 | 0.211 | 0.99 | 0.000 | 0.388 | | 0.54 | **0.75** | <= | 1.908 | 0.000 | 0.011 | 4.570 | 0.396 | | |
| 6.13 | 114.49 | 0.36 | 56.36 | 0.46 | 0.82% | 0.821 | 0.57 | 157.36 | 1.86 | 1.15 | 114 | 0.218 | 0.99 | 0.000 | 0.388 | | 0.56 | **0.77** | <= | 1.968 | 0.000 | 0.021 | 4.570 | 0.384 | | |
| 6.18 | 114.70 | 0.36 | 58.60 | 0.47 | 0.80% | 0.807 | 0.56 | 162.33 | 1.85 | 1.14 | 116 | 0.226 | 0.99 | 0.000 | 0.388 | | 0.58 | **0.80** | <= | 1.241 | 0.000 | 0.007 | 4.570 | 0.363 | | |
| 6.26 | 115.63 | 0.36 | 61.14 | 0.52 | 0.85% | 0.856 | 0.56 | 167.25 | 1.85 | 1.14 | 121 | 0.244 | 0.99 | 0.000 | 0.388 | | 0.63 | **0.87** | <= | 1.416 | 0.000 | 0.014 | 4.570 | 0.356 | | |
| 6.30 | 116.17 | 0.37 | 62.90 | 0.56 | 0.89% | 0.896 | 0.56 | 170.99 | 1.85 | 1.15 | 124 | 0.259 | 0.99 | 0.000 | 0.388 | | 0.67 | **0.92** | <= | 0.791 | 0.000 | 0.004 | 4.570 | 0.342 | | |
| 6.40 | 117.22 | 0.37 | 65.63 | 0.63 | 0.96% | 0.965 | 0.57 | 175.62 | 1.86 | 1.15 | 130 | 0.283 | 0.98 | 0.000 | 0.388 | | 0.73 | **1.01** | <= | 0.476 | 0.000 | 0.006 | 4.570 | 0.338 | | |
| 6.44 | 117.71 | 0.37 | 66.02 | 0.68 | 1.03% | 1.036 | 0.57 | 175.55 | 1.88 | 1.17 | 132 | 0.296 | 0.98 | 0.000 | 0.388 | | 0.76 | **1.05** | <= | 0.571 | 0.000 | 0.003 | 4.570 | 0.332 | | |
| 6.52 | 117.61 | 0.38 | 66.51 | 0.67 | 1.01% | 1.013 | 0.57 | 174.65 | 1.87 | 1.16 | 132 | 0.293 | 0.98 | 0.000 | 0.388 | | 0.75 | **1.04** | <= | 0.544 | 0.000 | 0.005 | 4.570 | 0.330 | | |
| 6.61 | 119.29 | 0.38 | 66.71 | 0.84 | 1.26% | 1.266 | 0.59 | 172.72 | 1.93 | 1.22 | 140 | 0.336 | 0.98 | 0.000 | 0.388 | | 0.87 | **1.19** | <= | 0.431 | 0.000 | 0.005 | 4.570 | 0.324 | | |
| 6.63 | 119.70 | 0.39 | 66.90 | 0.88 | 1.32% | 1.323 | 0.59 | 172.67 | 1.95 | 1.23 | 142 | 0.347 | 0.98 | 0.000 | 0.388 | | 0.90 | **1.23** | <= | 0.251 | 0.000 | 0.001 | 4.570 | 0.320 | | |
| 6.71 | 120.74 | 0.39 | 66.51 | 1.02 | 1.53% | 1.543 | 0.61 | 169.52 | 1.99 | 1.29 | 148 | 0.384 | 0.98 | 0.000 | 0.388 | | 0.99 | **1.36** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.319 | | |
| 6.79 | 121.40 | 0.39 | 65.15 | 1.12 | 1.72% | 1.730 | 0.62 | 163.98 | 2.03 | 1.34 | 152 | 0.408 | 0.98 | 0.000 | 0.388 | | 1.05 | **1.45** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.319 | | |
| 6.84 | 121.33 | 0.40 | 55.67 | 1.17 | 2.10% | 2.117 | 0.65 | 138.90 | 2.14 | 1.52 | 151 | 0.400 | 0.98 | 0.000 | 0.388 | | 1.03 | **1.42** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.319 | | |
| 6.90 | 121.93 | 0.40 | 61.63 | 1.23 | 2.00% | 2.009 | 0.64 | 152.47 | 2.09 | 1.44 | 156 | 0.431 | 0.98 | 0.000 | 0.387 | | 1.11 | **1.53** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.319 | | |
| 6.97 | 122.48 | 0.41 | 58.80 | 1.35 | 2.30% | 2.312 | 0.65 | 143.87 | 2.15 | 1.55 | 161 | 0.469 | 0.98 | 0.000 | 0.387 | | 1.21 | **1.67** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.319 | | |
| 7.03 | 122.89 | 0.41 | 56.16 | 1.45 | 2.58% | 2.601 | 0.67 | 136.12 | 2.20 | 1.66 | 166 | 0.507 | 0.98 | 0.000 | 0.387 | | 1.31 | **1.80** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.319 | | |
| 7.10 | 122.87 | 0.41 | 51.57 | 1.49 | 2.89% | 2.913 | 0.69 | 123.61 | 2.26 | 1.82 | 168 | 0.524 | 0.98 | 0.000 | 0.387 | | 1.35 | **1.86** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.319 | | |
| 7.17 | 122.55 | 0.42 | 47.17 | 1.47 | 3.12% | 3.144 | 0.70 | 111.81 | 2.31 | 1.97 | 168 | 0.519 | 0.98 | 0.000 | 0.387 | | 1.34 | **1.84** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.319 | | |
| 7.24 | 121.78 | 0.42 | 43.07 | 1.36 | 3.16% | 3.189 | 0.71 | 100.96 | 2.34 | 2.08 | 161 | 0.471 | 0.98 | 0.000 | 0.387 | | 1.22 | **1.67** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.319 | | |
| 7.30 | 121.23 | 0.43 | 42.88 | 1.26 | 2.94% | 2.968 | 0.70 | 99.65 | 2.32 | 2.01 | 154 | 0.420 | 0.98 | 0.000 | 0.387 | | 1.08 | **1.49** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.319 | | |
| 7.36 | 120.81 | 0.43 | 42.88 | 1.19 | 2.78% | 2.803 | 0.70 | 98.80 | 2.30 | 1.96 | 149 | 0.386 | 0.98 | 0.000 | 0.387 | | 1.00 | **1.37** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.319 | | |
| 7.44 | 120.37 | 0.43 | 49.42 | 1.07 | 2.17% | 2.184 | 0.67 | 112.74 | 2.19 | 1.65 | 139 | 0.332 | 0.98 | 0.000 | 0.387 | | 0.86 | **1.18** | <= | 0.417 | 0.000 | 0.004 | 4.570 | 0.319 | | |
| 7.48 | 120.23 | 0.44 | 55.28 | 1.01 | 1.83% | 1.842 | 0.64 | 125.53 | 2.12 | 1.48 | 137 | 0.317 | 0.98 | 0.000 | 0.387 | | 0.82 | **1.13** | <= | 0.354 | 0.000 | 0.002 | 4.570 | 0.315 | | |
| 7.57 | 119.63 | 0.44 | 67.39 | 0.87 | 1.29% | 1.300 | 0.60 | 151.37 | 1.96 | 1.25 | 134 | 0.306 | 0.98 | 0.000 | 0.387 | | 0.79 | **1.09** | <= | 0.645 | 0.000 | 0.007 | 4.570 | 0.314 | | |
| 7.61 | 119.30 | 0.44 | 69.93 | 0.83 | 1.19% | 1.194 | 0.59 | 156.27 | 1.93 | 1.22 | 134 | 0.304 | 0.98 | 0.000 | 0.387 | | 0.79 | **1.08** | <= | 0.629 | 0.000 | 0.003 | 4.570 | 0.307 | | |
| 7.69 | 119.14 | 0.45 | 70.13 | 0.81 | 1.15% | 1.162 | 0.59 | 155.04 | 1.92 | 1.21 | 133 | 0.297 | 0.98 | 0.000 | 0.387 | | 0.77 | **1.06** | <= | 0.582 | 0.000 | 0.006 | 4.570 | 0.304 | | |
| 7.75 | 119.21 | 0.45 | 67.39 | 0.83 | 1.23% | 1.240 | 0.59 | 147.76 | 1.95 | 1.24 | 131 | 0.290 | 0.98 | 0.000 | 0.387 | | 0.75 | **1.03** | <= | 0.534 | 0.000 | 0.004 | 4.570 | 0.298 | | |
| 7.83 | 119.35 | 0.46 | 62.80 | 0.86 | 1.37% | 1.379 | 0.61 | 136.19 | 2.01 | 1.31 | 129 | 0.281 | 0.98 | 0.000 | 0.387 | | 0.73 | **1.00** | <= | 0.467 | 0.000 | 0.004 | 4.570 | 0.294 | | |
| 7.90 | 119.72 | 0.46 | 56.94 | 0.94 | 1.65% | 1.664 | 0.63 | 122.26 | 2.09 | 1.43 | 130 | 0.286 | 0.98 | 0.000 | 0.387 | | 0.74 | **1.02** | <= | 0.504 | 0.000 | 0.004 | 4.570 | 0.290 | | |
| 7.97 | 120.32 | 0.47 | 50.98 | 1.05 | 2.06% | 2.079 | 0.66 | 108.36 | 2.19 | 1.63 | 135 | 0.308 | 0.98 | 0.000 | 0.386 | | 0.80 | **1.10** | <= | 0.662 | 0.000 | 0.006 | 4.570 | 0.285 | | |
| 8.02 | 119.79 | 0.47 | 44.24 | 1.03 | 2.33% | 2.353 | 0.69 | 93.29 | 2.26 | 1.83 | 133 | 0.301 | 0.98 | 0.000 | 0.386 | | 0.78 | **1.07** | <= | 0.611 | 0.000 | 0.004 | 4.570 | 0.280 | | |
| 8.07 | 118.08 | 0.47 | 41.12 | 0.83 | 2.02% | 2.042 | 0.68 | 86.10 | 2.25 | 1.79 | 120 | 0.239 | 0.98 | 0.000 | 0.386 | | 0.62 | **0.85** | <= | 1.608 | 0.000 | 0.010 | 4.570 | 0.276 | | |
| 8.15 | 118.20 | 0.48 | 38.58 | 0.87 | 2.26% | 2.283 | 0.70 | 79.91 | 2.30 | 1.94 | 123 | 0.251 | 0.98 | 0.000 | 0.386 | | 0.65 | **0.89** | <= | 1.916 | 0.000 | 0.018 | 4.570 | 0.267 | | |
| 8.23 | 118.30 | 0.48 | 34.28 | 0.91 | 2.65% | 2.692 | 0.72 | 70.18 | 2.38 | 2.24 | 127 | 0.270 | 0.98 | 0.000 | 0.386 | | 0.70 | **0.96** | <= | 0.934 | 0.000 | 0.009 | 4.570 | 0.248 | | |
| 8.30 | 118.22 | 0.49 | 32.33 | 0.92 | 2.85% | 2.889 | 0.73 | 65.56 | 2.42 | 2.40 | 128 | 0.276 | 0.98 | 0.000 | 0.386 | | 0.72 | **0.99** | <= | 1.710 | 0.000 | 0.014 | 4.570 | 0.239 | | |
| 8.35 | 117.91 | 0.49 | 28.91 | 0.92 | 3.18% | 3.237 | 0.75 | 58.16 | 2.49 | 2.70 | 130 | 0.287 | 0.98 | 0.000 | 0.386 | | 0.74 | **1.02** | <= | 0.511 | 0.000 | 0.003 | 4.570 | 0.225 | | |
| 8.44 | 118.28 | 0.49 | 36.53 | 0.89 | 2.44% | 2.470 | 0.71 | 72.95 | 2.34 | 2.10 | 123 | 0.254 | 0.98 | 0.000 | 0.386 | | 0.66 | **0.91** | <= | 0.752 | 0.000 | 0.008 | 4.570 | 0.222 | | |
| 8.48 | 118.28 | 0.50 | 38.29 | 0.88 | 2.30% | 2.328 | 0.70 | 76.14 | 2.31 | 1.99 | 122 | 0.248 | 0.98 | 0.000 | 0.386 | | 0.64 | **0.88** | <= | 1.844 | 0.000 | 0.009 | 4.570 | 0.214 | | |
| 8.56 | 118.04 | 0.50 | 39.95 | 0.84 | 2.10% | 2.129 | 0.69 | 78.73 | 2.28 | 1.88 | 118 | 0.234 | 0.98 | 0.000 | 0.386 | | 0.61 | **0.83** | <= | 1.476 | 0.000 | 0.014 | 4.570 | 0.205 | | |
| 8.61 | 117.76 | 0.50 | 40.14 | 0.80 | 1.99% | 2.018 | 0.69 | 78.64 | 2.26 | 1.84 | 115 | 0.222 | 0.98 | 0.000 | 0.386 | | 0.58 | **0.79** | <= | 2.058 | 0.000 | 0.012 | 4.570 | 0.191 | | |
| 8.68 | 117.41 | 0.51 | 39.95 | 0.77 | 1.93% | 1.952 | 0.69 | 77.62 | 2.26 | 1.82 | 113 | 0.213 | 0.98 | 0.000 | 0.386 | | 0.55 | **0.76** | <= | 2.094 | 0.000 | 0.018 | 4.570 | 0.178 | | |
| 8.74 | 117.21 | 0.51 | 39.46 | 0.75 | 1.90% | 1.926 | 0.69 | 76.12 | 2.26 | 1.82 | 111 | 0.208 | 0.98 | 0.000 | 0.386 | | 0.54 | **0.74** | <= | 2.118 | 0.000 | 0.015 | 4.570 | 0.161 | | |
| 8.83 | 116.93 | 0.52 | 37.99 | 0.73 | 1.92% | 1.948 | 0.69 | 72.49 | 2.28 | 1.87 | 109 | 0.202 | 0.98 | 0.000 | 0.386 | | 0.52 | **0.72** | <= | 2.144 | 0.000 | 0.023 | 4.570 | 0.145 | | |
| 8.86 | 116.84 | 0.52 | 37.51 | 0.73 | 1.95% | 1.973 | 0.69 | 71.32 | 2.28 | 1.90 | 109 | 0.202 | 0.98 | 0.000 | 0.386 | | 0.52 | **0.72** | <= | 2.145 | 0.000 | 0.008 | 4.570 | 0.122 | | |
| 8.95 | 116.63 | 0.52 | 36.63 | 0.71 | 1.94% | 1.966 | 0.70 | 68.92 | 2.29 | 1.93 | 108 | 0.196 | 0.98 | 0.000 | 0.386 | | 0.51 | **0.70** | <= | 2.172 | 0.000 | 0.023 | 4.570 | 0.115 | | |
| 8.99 | 116.63 | 0.53 | 36.43 | 0.71 | 1.95% | 1.978 | 0.70 | 68.23 | 2.30 | 1.94 | 108 | 0.196 | 0.98 | 0.000 | 0.386 | | 0.51 | **0.70** | <= | 2.174 | 0.000 | 0.010 | 4.570 | 0.091 | | |
| 9.08 | 116.84 | 0.53 | 36.43 | 0.73 | 2.00% | 2.034 | 0.70 | 67.54 | 2.31 | 1.97 | 109 | 0.200 | 0.98 | 0.000 | 0.385 | | 0.52 | **0.71** | <= | 2.155 | 0.000 | 0.023 | 4.570 | 0.081 | | |
| 9.14 | 117.11 | 0.54 | 35.55 | 0.77 | 2.17% | 2.199 | 0.71 | 65.45 | 2.34 | 2.07 | 112 | 0.210 | 0.98 | 0.000 | 0.385 | | 0.55 | **0.75** | <= | 2.108 | 0.000 | 0.015 | 4.570 | 0.057 | | |
| 9.19 | 117.27 | 0.54 | 33.60 | 0.80 | 2.38% | 2.420 | 0.72 | 61.46 | 2.38 | 2.24 | 115 | 0.220 | 0.98 | 0.000 | 0.385 | | 0.57 | **0.79** | <= | 2.066 | 0.000 | 0.012 | 4.570 | 0.042 | | |
| 9.28 | 117.67 | 0.54 | 30.08 | 0.87 | 2.89% | 2.945 | 0.75 | 54.37 | 2.47 | 2.63 | 122 | 0.247 | 0.98 | 0.000 | 0.385 | | 0.64 | **0.88** | <= | 1.970 | 0.000 | 0.021 | 4.570 | 0.030 | | |
| 9.33 | 117.77 | 0.55 | 27.45 | 0.91 | 3.32% | 3.382 | 0.77 | 49.26 | 2.54 | 2.98 | 127 | 0.269 | 0.98 | 0.000 | 0.385 | | 0.70 | **0.96** | <= | 1.419 | 0.000 | 0.009 | 4.570 | 0.009 | | |
| 9.39 | 117.80 | 0.55 | 25.10 | 0.95 | 3.78% | 3.870 | 0.79 | 44.66 | 2.61 | 3.37 | 132 | 0.292 | 0.98 | 0.000 | 0.385 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 9.46 | 117.03 | 0.55 | 23.25 | 0.87 | 3.74% | 3.833 | 0.80 | 40.98 | 2.63 | 3.51 | 127 | 0.269 | 0.98 | 0.000 | 0.385 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 9.55 | 117.36 | 0.56 | 20.80 | 0.95 | 4.57% | 4.693 | 0.82 | 36.20 | 2.72 | 4.16 | 137 | 0.321 | 0.98 | 0.000 | 0.385 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 9.60 | 117.14 | 0.56 | 19.63 | 0.94 | 4.79% | 4.930 | 0.83 | 33.93 | 2.76 | 4.42 | 146 | 0.369 | 0.98 | 0.000 | 0.385 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 9.68 | 116.95 | 0.57 | 20.22 | 0.91 | 4.50% | 4.630 | 0.83 | 34.68 | 2.73 | 4.23 | 139 | 0.332 | 0.98 | 0.000 | 0.385 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 9.73 | 116.86 | 0.57 | 22.07 | 0.87 | 3.94% | 4.046 | 0.81 | 37.74 | 2.67 | 3.76 | 127 | 0.269 | 0.98 | 0.000 | 0.385 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 9.81 | 116.12 | 0.57 | 19.53 | 0.82 | 4.20% | 4.326 | 0.83 | 33.01 | 2.73 | 4.19 | 138 | 0.326 | 0.98 | 0.000 | 0.385 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 9.90 | 115.46 | 0.58 | 16.21 | 0.79 | 4.87% | 5.054 | 0.86 | 26.97 | 2.83 | 5.04 | 166 | 0.509 | 0.98 | 0.000 | 0.385 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 9.94 | 115.59 | 0.58 | 17.19 | 0.79 | 4.60% | 4.757 | 0.85 | 28.55 | 2.80 | 4.75 | 157 | 0.437 | 0.98 | 0.000 | 0.385 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 9.99 | 115.50 | 0.58 | 17.29 | 0.78 | 4.51% | 4.669 | 0.84 | 28.57 | 2.79 | 4.70 | 155 | 0.427 | 0.98 | 0.000 | 0.385 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.08 | 115.10 | 0.59 | 17.29 | 0.74 | 4.28% | 4.431 | 0.84 | 28.43 | 2.78 | 4.59 | 151 | 0.403 | 0.98 | 0.002 | 0.386 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.12 | 115.20 | 0.59 | 17.29 | 0.75 | 4.34% | 4.492 | 0.84 | 28.38 | 2.78 | 4.62 | 153 | 0.410 | 0.98 | 0.004 | 0.387 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.17 | 115.25 | 0.60 | 16.70 | 0.77 | 4.61% | 4.781 | 0.85 | 27.31 | 2.81 | 4.87 | 161 | 0.466 | 0.98 | 0.005 | 0.388 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.26 | 115.40 | 0.60 | 15.82 | 0.79 | 4.99% | 5.191 | 0.86 | 25.70 | 2.85 | 5.23 | 173 | 0.559 | 0.98 | 0.008 | 0.390 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.32 | 115.50 | 0.60 | 15.24 | 0.82 | 5.38% | 5.603 | 0.87 | 24.65 | 2.88 | 5.55 | 183 | 0.652 | 0.98 | 0.010 | 0.391 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.40 | 115.76 | 0.61 | 15.63 | 0.84 | 5.37% | 5.592 | 0.87 | 25.21 | 2.88 | 5.48 | 181 | 0.630 | 0.98 | 0.012 | 0.392 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.44 | 115.85 | 0.61 | 15.63 | 0.85 | 5.44% | 5.659 | 0.87 | 25.16 | 2.88 | 5.52 | 182 | 0.641 | 0.98 | 0.014 | 0.393 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.53 | 116.02 | 0.62 | 15.63 | 0.87 | 5.57% | 5.795 | 0.87 | 25.05 | 2.89 | 5.59 | 185 | 0.665 | 0.98 | 0.017 | 0.395 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.57 | 116.09 | 0.62 | 15.63 | 0.88 | 5.63% | 5.862 | 0.88 | 25.00 | 2.89 | 5.63 | 186 | 0.676 | 0.97 | 0.018 | 0.395 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.65 | 112.37 | 0.62 | 15.63 | 0.53 | 3.39% | 3.532 | 0.83 | 24.91 | 2.75 | 4.41 | 146 | 0.367 | 0.97 | 0.020 | 0.397 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.70 | 113.17 | 0.63 | 15.82 | 0.59 | 3.73% | 3.883 | 0.84 | 25.17 | 2.78 | 4.59 | 152 | 0.403 | 0.97 | 0.022 | 0.398 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.76 | 113.95 | 0.63 | 15.82 | 0.65 | 4.11% | 4.279 | 0.85 | 25.10 | 2.80 | 4.82 | 159 | 0.454 | 0.97 | 0.024 | 0.399 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.84 | 114.99 | 0.63 | 16.90 | 0.74 | 4.38% | 4.549 | 0.85 | 26.78 | 2.80 | 4.79 | 158 | 0.447 | 0.97 | 0.026 | 0.400 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.93 | 116.25 | 0.64 | 18.56 | 0.85 | 4.58% | 4.743 | 0.84 | 29.39 | 2.78 | 4.65 | 153 | 0.415 | 0.97 | 0.029 | 0.402 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 10.97 | 116.56 | 0.64 | 16.60 | 0.92 | 5.54% | 5.765 | 0.87 | 26.13 | 2.87 | 5.45 | 180 | 0.621 | 0.97 | 0.030 | 0.403 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.04 | 117.86 | 0.65 | 20.41 | 1.02 | 5.00% | 5.161 | 0.84 | 32.26 | 2.78 | 4.61 | 152 | 0.408 | 0.97 | 0.032 | 0.404 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.12 | 118.85 | 0.65 | 22.27 | 1.14 | 5.12% | 5.273 | 0.84 | 35.15 | 2.76 | 4.46 | 147 | 0.376 | 0.97 | 0.035 | 0.405 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.18 | 119.34 | 0.65 | 23.25 | 1.20 | 5.16% | 5.311 | 0.83 | 36.64 | 2.75 | 4.37 | 147 | 0.375 | 0.97 | 0.037 | 0.406 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.25 | 120.16 | 0.66 | 25.69 | 1.30 | 5.06% | 5.193 | 0.82 | 40.46 | 2.71 | 4.10 | 151 | 0.402 | 0.97 | 0.039 | 0.408 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.32 | 120.85 | 0.66 | 28.13 | 1.38 | 4.91% | 5.024 | 0.81 | 44.25 | 2.68 | 3.84 | 154 | 0.421 | 0.97 | 0.041 | 0.409 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.35 | 121.13 | 0.66 | 28.81 | 1.42 | 4.93% | 5.045 | 0.81 | 45.27 | 2.67 | 3.80 | 156 | 0.434 | 0.97 | 0.042 | 0.409 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.44 | 121.68 | 0.67 | 30.28 | 1.51 | 4.99% | 5.100 | 0.81 | 47.43 | 2.66 | 3.73 | 160 | 0.464 | 0.97 | 0.045 | 0.411 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.49 | 121.84 | 0.67 | 30.77 | 1.54 | 5.00% | 5.117 | 0.81 | 48.09 | 2.66 | 3.71 | 162 | 0.473 | 0.97 | 0.046 | 0.412 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.57 | 122.37 | 0.68 | 31.94 | 1.63 | 5.10% | 5.214 | 0.80 | 49.76 | 2.66 | 3.68 | 166 | 0.506 | 0.97 | 0.049 | 0.413 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.62 | 122.60 | 0.68 | 32.52 | 1.67 | 5.14% | 5.245 | 0.80 | 50.56 | 2.65 | 3.66 | 168 | 0.520 | 0.97 | 0.051 | 0.414 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.71 | 122.47 | 0.69 | 33.60 | 1.62 | 4.82% | 4.922 | 0.80 | 52.04 | 2.62 | 3.48 | 164 | 0.487 | 0.97 | 0.053 | 0.415 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.76 | 122.04 | 0.69 | 30.96 | 1.57 | 5.07% | 5.186 | 0.81 | 47.75 | 2.66 | 3.75 | 163 | 0.480 | 0.97 | 0.055 | 0.416 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-2

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft) 1 **MAGNITUDE:** 6.62 **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.84 | 122.19 | 0.69 | 39.85 | 1.48 | 3.71% | 3.780 | 0.76 | 61.54 | 2.50 | 2.75 | 150 | 0.396 | 0.97 | 0.057 | 0.417 | | 0.95 | 1.30 | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 11.88 | 121.92 | 0.70 | 42.19 | 1.40 | 3.32% | 3.374 | 0.74 | 65.09 | 2.45 | 2.51 | 144 | 0.358 | 0.97 | 0.059 | 0.418 | | 0.86 | 1.18 | <= | 0.408 | 0.002 | 0.000 | 4.570 | 0.000 | 11.84 | 11.88 |
| 11.96 | 121.62 | 0.70 | 48.25 | 1.28 | 2.65% | 2.692 | 0.71 | 74.31 | 2.34 | 2.09 | 135 | 0.307 | 0.97 | 0.061 | 0.419 | | 0.73 | 1.01 | <= | 0.470 | 0.005 | 0.000 | 4.568 | 0.000 | 11.88 | 11.96 |
| 12.02 | 121.31 | 0.70 | 53.23 | 1.19 | 2.24% | 2.266 | 0.69 | 81.86 | 2.26 | 1.83 | 129 | 0.279 | 0.97 | 0.063 | 0.420 | | 0.66 | 0.91 | <= | 0.743 | 0.005 | 0.000 | 4.564 | 0.000 | 11.96 | 12.02 |
| 12.08 | 120.85 | 0.71 | 57.92 | 1.09 | 1.88% | 1.905 | 0.66 | 88.92 | 2.19 | 1.63 | 124 | 0.256 | 0.97 | 0.065 | 0.421 | | 0.61 | 0.84 | <= | 1.422 | 0.010 | 0.000 | 4.558 | 0.000 | 12.02 | 12.08 |
| 12.15 | 120.10 | 0.71 | 62.31 | 0.96 | 1.54% | 1.559 | 0.64 | 95.44 | 2.11 | 1.47 | 118 | 0.233 | 0.97 | 0.067 | 0.422 | | 0.55 | 0.76 | <= | 2.016 | 0.017 | 0.000 | 4.548 | 0.000 | 12.08 | 12.15 |
| 12.23 | 119.63 | 0.72 | 67.00 | 0.87 | 1.30% | 1.313 | 0.62 | 102.33 | 2.04 | 1.35 | 116 | 0.224 | 0.97 | 0.070 | 0.424 | | 0.53 | 0.73 | <= | 1.762 | 0.017 | 0.000 | 4.531 | 0.000 | 12.15 | 12.23 |
| 12.28 | 119.60 | 0.72 | 68.95 | 0.86 | 1.25% | 1.260 | 0.61 | 105.11 | 2.02 | 1.33 | 116 | 0.226 | 0.97 | 0.071 | 0.424 | | 0.53 | 0.73 | <= | 1.769 | 0.011 | 0.000 | 4.514 | 0.000 | 12.23 | 12.28 |
| 12.37 | 119.58 | 0.73 | 71.49 | 0.85 | 1.19% | 1.201 | 0.61 | 108.58 | 2.00 | 1.29 | 117 | 0.229 | 0.97 | 0.074 | 0.426 | | 0.54 | 0.74 | <= | 1.783 | 0.019 | 0.000 | 4.504 | 0.000 | 12.28 | 12.37 |
| 12.46 | 119.63 | 0.73 | 73.15 | 0.85 | 1.16% | 1.174 | 0.60 | 110.68 | 1.98 | 1.28 | 118 | 0.231 | 0.97 | 0.077 | 0.427 | | 0.54 | 0.75 | <= | 1.798 | 0.019 | 0.000 | 4.484 | 0.000 | 12.37 | 12.46 |
| 12.48 | 119.66 | 0.73 | 74.03 | 0.85 | 1.15% | 1.160 | 0.60 | 111.93 | 1.98 | 1.27 | 118 | 0.233 | 0.97 | 0.077 | 0.427 | | 0.55 | 0.75 | <= | 1.812 | 0.004 | 0.000 | 4.465 | 0.000 | 12.46 | 12.48 |
| 12.56 | 119.67 | 0.74 | 75.01 | 0.85 | 1.13% | 1.144 | 0.60 | 113.02 | 1.97 | 1.26 | 119 | 0.235 | 0.97 | 0.080 | 0.429 | | 0.55 | 0.75 | <= | 1.818 | 0.017 | 0.000 | 4.460 | 0.000 | 12.48 | 12.56 |
| 12.60 | 119.63 | 0.74 | 75.21 | 0.84 | 1.12% | 1.128 | 0.60 | 113.13 | 1.96 | 1.26 | 118 | 0.233 | 0.97 | 0.081 | 0.429 | | 0.54 | 0.75 | <= | 1.801 | 0.009 | 0.000 | 4.443 | 0.000 | 12.56 | 12.60 |
| 12.69 | 119.51 | 0.74 | 75.30 | 0.83 | 1.10% | 1.113 | 0.60 | 112.82 | 1.96 | 1.25 | 118 | 0.231 | 0.97 | 0.084 | 0.431 | | 0.54 | 0.74 | <= | 1.773 | 0.019 | 0.000 | 4.434 | 0.000 | 12.60 | 12.69 |
| 12.73 | 119.43 | 0.75 | 75.40 | 0.82 | 1.09% | 1.098 | 0.60 | 112.77 | 1.96 | 1.25 | 117 | 0.230 | 0.97 | 0.085 | 0.431 | | 0.53 | 0.73 | <= | 1.755 | 0.008 | 0.000 | 4.415 | 0.000 | 12.69 | 12.73 |
| 12.85 | 119.11 | 0.75 | 73.94 | 0.79 | 1.07% | 1.079 | 0.60 | 109.99 | 1.96 | 1.25 | 115 | 0.221 | 0.97 | 0.089 | 0.433 | | 0.51 | 0.70 | <= | 1.676 | 0.024 | 0.000 | 4.407 | 0.000 | 12.73 | 12.85 |
| 12.89 | 118.99 | 0.76 | 73.15 | 0.78 | 1.07% | 1.077 | 0.60 | 108.61 | 1.96 | 1.25 | 114 | 0.218 | 0.97 | 0.090 | 0.434 | | 0.50 | 0.69 | <= | 2.076 | 0.010 | 0.000 | 4.383 | 0.000 | 12.85 | 12.89 |
| 12.96 | 118.74 | 0.76 | 70.91 | 0.76 | 1.07% | 1.083 | 0.60 | 104.93 | 1.98 | 1.27 | 112 | 0.209 | 0.97 | 0.092 | 0.435 | | 0.48 | 0.66 | <= | 2.111 | 0.018 | 0.000 | 4.373 | 0.000 | 12.89 | 12.96 |
| 13.00 | 118.75 | 0.76 | 69.44 | 0.77 | 1.11% | 1.121 | 0.61 | 102.56 | 1.99 | 1.29 | 111 | 0.208 | 0.97 | 0.094 | 0.435 | | 0.48 | 0.66 | <= | 2.118 | 0.010 | 0.000 | 4.355 | 0.000 | 12.96 | 13.00 |
| 13.13 | 119.26 | 0.77 | 66.51 | 0.83 | 1.25% | 1.263 | 0.62 | 97.63 | 2.04 | 1.35 | 112 | 0.211 | 0.97 | 0.098 | 0.437 | | 0.48 | 0.66 | <= | 2.105 | 0.033 | 0.000 | 4.345 | 0.000 | 13.00 | 13.13 |
| 13.18 | 120.19 | 0.77 | 66.90 | 0.95 | 1.42% | 1.437 | 0.63 | 98.00 | 2.07 | 1.41 | 117 | 0.231 | 0.97 | 0.099 | 0.438 | | 0.53 | 0.73 | <= | 1.717 | 0.010 | 0.000 | 4.312 | 0.000 | 13.13 | 13.18 |
| 13.22 | 121.00 | 0.78 | 66.42 | 1.06 | 1.60% | 1.615 | 0.64 | 97.11 | 2.11 | 1.47 | 122 | 0.250 | 0.97 | 0.100 | 0.438 | | 0.57 | 0.78 | <= | 1.890 | 0.009 | 0.000 | 4.302 | 0.000 | 13.18 | 13.22 |
| 13.28 | 121.60 | 0.78 | 64.95 | 1.16 | 1.79% | 1.808 | 0.65 | 94.68 | 2.15 | 1.55 | 126 | 0.267 | 0.97 | 0.102 | 0.439 | | 0.61 | 0.84 | <= | 1.391 | 0.010 | 0.000 | 4.293 | 0.000 | 13.22 | 13.28 |
| 13.32 | 121.02 | 0.78 | 64.17 | 1.07 | 1.67% | 1.688 | 0.65 | 93.37 | 2.13 | 1.52 | 122 | 0.248 | 0.97 | 0.104 | 0.440 | | 0.56 | 0.78 | <= | 1.968 | 0.009 | 0.000 | 4.283 | 0.000 | 13.28 | 13.32 |
| 13.40 | 122.21 | 0.79 | 62.12 | 1.28 | 2.06% | 2.087 | 0.67 | 90.02 | 2.20 | 1.68 | 131 | 0.290 | 0.97 | 0.106 | 0.441 | | 0.66 | 0.90 | <= | 0.699 | 0.007 | 0.000 | 4.273 | 0.000 | 13.32 | 13.40 |
| 13.49 | 123.02 | 0.79 | 60.36 | 1.44 | 2.39% | 2.417 | 0.68 | 87.08 | 2.26 | 1.82 | 139 | 0.328 | 0.97 | 0.109 | 0.442 | | 0.74 | 1.02 | <= | 0.485 | 0.005 | 0.000 | 4.266 | 0.000 | 13.40 | 13.49 |
| 13.54 | 123.13 | 0.80 | 60.36 | 1.46 | 2.42% | 2.451 | 0.69 | 86.89 | 2.26 | 1.83 | 139 | 0.332 | 0.97 | 0.110 | 0.443 | | 0.75 | 1.03 | <= | 0.509 | 0.003 | 0.000 | 4.261 | 0.000 | 13.49 | 13.54 |
| 13.62 | 122.90 | 0.80 | 55.57 | 1.46 | 2.63% | 2.666 | 0.70 | 79.61 | 2.31 | 1.99 | 140 | 0.334 | 0.97 | 0.113 | 0.444 | | 0.75 | 1.03 | <= | 0.512 | 0.005 | 0.000 | 4.258 | 0.000 | 13.54 | 13.62 |
| 13.67 | 123.25 | 0.80 | 71.30 | 1.41 | 1.98% | 2.000 | 0.65 | 102.25 | 2.15 | 1.56 | 138 | 0.325 | 0.97 | 0.115 | 0.444 | | 0.73 | 1.01 | <= | 0.457 | 0.003 | 0.000 | 4.253 | 0.000 | 13.62 | 13.67 |
| 13.72 | 123.10 | 0.81 | 75.40 | 1.35 | 1.79% | 1.810 | 0.64 | 107.95 | 2.11 | 1.47 | 137 | 0.317 | 0.97 | 0.116 | 0.445 | | 0.71 | 0.98 | <= | 0.909 | 0.005 | 0.000 | 4.250 | 0.000 | 13.67 | 13.72 |
| 13.80 | 122.69 | 0.81 | 87.80 | 1.22 | 1.39% | 1.402 | 0.60 | 125.45 | 1.99 | 1.28 | 137 | 0.319 | 0.97 | 0.119 | 0.446 | | 0.72 | 0.98 | <= | 0.920 | 0.009 | 0.000 | 4.245 | 0.000 | 13.72 | 13.80 |
| 13.86 | 122.15 | 0.82 | 91.71 | 1.11 | 1.21% | 1.221 | 0.59 | 130.75 | 1.93 | 1.22 | 135 | 0.311 | 0.97 | 0.120 | 0.447 | | 0.70 | 0.96 | <= | 0.848 | 0.006 | 0.000 | 4.236 | 0.000 | 13.80 | 13.86 |
| 13.94 | 121.42 | 0.82 | 95.42 | 0.99 | 1.04% | 1.047 | 0.57 | 135.62 | 1.88 | 1.17 | 134 | 0.302 | 0.97 | 0.123 | 0.448 | | 0.67 | 0.93 | <= | 0.765 | 0.007 | 0.000 | 4.230 | 0.000 | 13.86 | 13.94 |
| 13.98 | 121.15 | 0.82 | 97.38 | 0.95 | 0.98% | 0.984 | 0.56 | 138.19 | 1.86 | 1.15 | 134 | 0.302 | 0.97 | 0.124 | 0.449 | | 0.67 | 0.93 | <= | 0.760 | 0.004 | 0.000 | 4.223 | 0.000 | 13.94 | 13.98 |
| 14.04 | 121.13 | 0.83 | 100.60 | 0.94 | 0.93% | 0.942 | 0.56 | 142.43 | 1.83 | 1.13 | 135 | 0.311 | 0.97 | 0.126 | 0.449 | | 0.69 | 0.95 | <= | 0.833 | 0.006 | 0.000 | 4.219 | 0.000 | 13.98 | 14.04 |
| 14.12 | 121.32 | 0.83 | 104.21 | 0.95 | 0.91% | 0.919 | 0.55 | 147.08 | 1.82 | 1.12 | 138 | 0.325 | 0.97 | 0.129 | 0.450 | | 0.72 | 0.99 | <= | 0.937 | 0.009 | 0.000 | 4.213 | 0.000 | 14.04 | 14.12 |
| 14.19 | 121.65 | 0.84 | 110.27 | 0.98 | 0.89% | 0.896 | 0.55 | 155.24 | 1.79 | 1.10 | 143 | 0.353 | 0.97 | 0.131 | 0.451 | | 0.78 | 1.08 | <= | 0.586 | 0.005 | 0.000 | 4.204 | 0.000 | 14.12 | 14.19 |
| 14.25 | 121.96 | 0.84 | 116.32 | 1.00 | 0.86% | 0.866 | 0.54 | 163.41 | 1.77 | 1.08 | 148 | 0.382 | 0.97 | 0.133 | 0.452 | | 0.84 | 1.16 | <= | 0.379 | 0.003 | 0.000 | 4.199 | 0.000 | 14.19 | 14.25 |
| 14.33 | 122.57 | 0.84 | 126.97 | 1.06 | 0.83% | 0.840 | 0.53 | 177.86 | 1.73 | 1.06 | 157 | 0.441 | 0.97 | 0.135 | 0.453 | | 0.97 | 1.34 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 14.38 | 123.03 | 0.85 | 137.23 | 1.10 | 0.80% | 0.807 | 0.52 | 191.92 | 1.70 | 1.03 | 165 | 0.499 | 0.97 | 0.137 | 0.454 | | 1.10 | 1.51 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 14.44 | 123.46 | 0.85 | 147.19 | 1.14 | 0.77% | 0.779 | 0.51 | 205.40 | 1.66 | 1.01 | 173 | 0.559 | 0.97 | 0.139 | 0.454 | | 1.23 | 1.69 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 14.52 | 123.93 | 0.86 | 155.98 | 1.19 | 0.76% | 0.767 | 0.50 | 216.98 | 1.64 | 1.00 | 180 | 0.618 | 0.97 | 0.141 | 0.455 | | 1.36 | 1.87 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 14.60 | 124.49 | 0.86 | 166.04 | 1.26 | 0.76% | 0.763 | 0.50 | 230.24 | 1.62 | 1.00 | 191 | 0.730 | 0.97 | 0.144 | 0.456 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 14.65 | 124.77 | 0.86 | 169.46 | 1.30 | 0.77% | 0.771 | 0.50 | 234.50 | 1.62 | 1.00 | 195 | 0.769 | 0.97 | 0.145 | 0.457 | | 1.68 | 2.32 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 14.71 | 125.08 | 0.87 | 174.05 | 1.34 | 0.77% | 0.774 | 0.50 | 240.25 | 1.61 | 1.00 | 200 | 0.824 | 0.97 | 0.147 | 0.458 | | 1.80 | 2.48 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 14.77 | 125.41 | 0.87 | 178.05 | 1.39 | 0.78% | 0.785 | 0.50 | 245.15 | 1.61 | 1.00 | 200 | 0.824 | 0.96 | 0.149 | 0.458 | | 1.80 | 2.47 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 14.83 | 125.69 | 0.88 | 180.88 | 1.44 | 0.80% | 0.800 | 0.50 | 248.41 | 1.61 | 1.00 | 200 | 0.824 | 0.96 | 0.151 | 0.459 | | 1.79 | 2.47 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 14.92 | 126.07 | 0.88 | 187.52 | 1.50 | 0.80% | 0.804 | 0.50 | 256.55 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.154 | 0.460 | | 1.79 | 2.46 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 14.96 | 126.25 | 0.88 | 189.87 | 1.53 | 0.81% | 0.810 | 0.50 | 259.32 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.155 | 0.461 | | 1.79 | 2.46 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.03 | 126.50 | 0.89 | 192.02 | 1.57 | 0.82% | 0.821 | 0.50 | 261.46 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.157 | 0.461 | | 1.79 | 2.46 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.10 | 126.61 | 0.89 | 193.19 | 1.59 | 0.82% | 0.827 | 0.50 | 262.25 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.159 | 0.462 | | 1.78 | 2.45 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.19 | 126.66 | 0.90 | 195.83 | 1.60 | 0.82% | 0.821 | 0.50 | 264.79 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.162 | 0.463 | | 1.78 | 2.45 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.23 | 126.74 | 0.90 | 196.80 | 1.62 | 0.82% | 0.827 | 0.50 | 265.64 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.163 | 0.464 | | 1.78 | 2.45 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.31 | 127.02 | 0.91 | 197.19 | 1.68 | 0.85% | 0.856 | 0.50 | 265.24 | 1.61 | 1.00 | 200 | 0.824 | 0.96 | 0.166 | 0.465 | | 1.77 | 2.44 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.40 | 127.03 | 0.91 | 196.32 | 1.68 | 0.86% | 0.860 | 0.50 | 263.02 | 1.61 | 1.00 | 200 | 0.824 | 0.96 | 0.168 | 0.466 | | 1.77 | 2.44 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.44 | 127.04 | 0.91 | 195.92 | 1.68 | 0.86% | 0.862 | 0.50 | 262.02 | 1.61 | 1.00 | 200 | 0.824 | 0.96 | 0.170 | 0.466 | | 1.77 | 2.43 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.53 | 127.08 | 0.92 | 194.07 | 1.70 | 0.88% | 0.880 | 0.50 | 258.52 | 1.62 | 1.00 | 200 | 0.824 | 0.96 | 0.173 | 0.467 | | 1.76 | 2.43 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.58 | 127.12 | 0.92 | 192.90 | 1.71 | 0.89% | 0.891 | 0.50 | 256.39 | 1.63 | 1.00 | 200 | 0.824 | 0.96 | 0.174 | 0.468 | | 1.76 | 2.42 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.63 | 126.38 | 0.93 | 192.31 | 1.55 | 0.81% | 0.810 | 0.50 | 255.05 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.176 | 0.468 | | 1.76 | 2.42 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.70 | 124.83 | 0.93 | 190.65 | 1.26 | 0.66% | 0.664 | 0.50 | 252.10 | 1.54 | 1.00 | 200 | 0.824 | 0.96 | 0.178 | 0.469 | | 1.76 | 2.42 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.75 | 125.21 | 0.93 | 189.09 | 1.33 | 0.70% | 0.707 | 0.50 | 249.50 | 1.57 | 1.00 | 200 | 0.824 | 0.96 | 0.179 | 0.469 | | 1.76 | 2.42 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.85 | 125.48 | 0.94 | 187.62 | 1.38 | 0.74% | 0.739 | 0.50 | 246.52 | 1.58 | 1.00 | 200 | 0.824 | 0.96 | 0.183 | 0.470 | | 1.75 | 2.41 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.89 | 125.45 | 0.94 | 186.84 | 1.38 | 0.74% | 0.742 | 0.50 | 245.07 | 1.58 | 1.00 | 200 | 0.824 | 0.96 | 0.184 | 0.471 | | 1.75 | 2.41 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 15.96 | 125.29 | 0.95 | 180.69 | 1.36 | 0.75% | 0.757 | 0.50 | 236.28 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.186 | 0.472 | | 1.75 | 2.40 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.03 | 125.24 | 0.95 | 180.74 | 1.35 | 0.75% | 0.751 | 0.50 | 235.65 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.188 | 0.472 | | 1.74 | 2.40 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.09 | 125.36 | 0.95 | 180.74 | 1.38 | 0.76% | 0.768 | 0.50 | 235.07 | 1.61 | 1.00 | 200 | 0.824 | 0.96 | 0.190 | 0.473 | | 1.74 | 2.40 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.16 | 125.64 | 0.96 | 180.79 | 1.43 | 0.79% | 0.795 | 0.50 | 234.45 | 1.62 | 1.00 | 200 | 0.824 | 0.96 | 0.192 | 0.474 | | 1.74 | 2.39 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.21 | 125.86 | 0.96 | 181.57 | 1.47 | 0.81% | 0.814 | 0.50 | 234.97 | 1.62 | 1.00 | 200 | 0.824 | 0.96 | 0.194 | 0.474 | | 1.74 | 2.39 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.28 | 126.12 | 0.97 | 183.03 | 1.52 | 0.83% | 0.835 | 0.50 | 236.18 | 1.63 | 1.00 | 200 | 0.824 | 0.96 | 0.196 | 0.475 | | 1.73 | 2.39 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.36 | 126.34 | 0.97 | 184.30 | 1.56 | 0.85% | 0.851 | 0.50 | 237.04 | 1.63 | 1.00 | 200 | 0.824 | 0.96 | 0.198 | 0.476 | | 1.73 | 2.38 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.42 | 126.52 | 0.98 | 185.57 | 1.60 | 0.86% | 0.867 | 0.50 | 238.08 | 1.64 | 1.00 | 200 | 0.824 | 0.96 | 0.200 | 0.476 | | 1.73 | 2.38 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.47 | 126.74 | 0.98 | 187.04 | 1.64 | 0.88% | 0.881 | 0.50 | 239.48 | 1.64 | 1.00 | 200 | 0.824 | 0.96 | 0.202 | 0.477 | | 1.73 | 2.38 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.57 | 127.01 | 0.99 | 189.87 | 1.69 | 0.89% | 0.895 | 0.50 | 242.11 | 1.64 | 1.00 | 199 | 0.816 | 0.96 | 0.205 | 0.478 | | 1.71 | 2.35 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.61 | 127.18 | 0.99 | 191.82 | 1.73 | 0.90% | 0.907 | 0.50 | 244.20 | 1.64 | 1.00 | 199 | 0.818 | 0.96 | 0.206 | 0.478 | | 1.71 | 2.35 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.68 | 127.39 | 0.99 | 194.85 | 1.77 | 0.91% | 0.913 | 0.50 | 247.35 | 1.64 | 1.00 | 200 | 0.824 | 0.96 | 0.208 | 0.479 | | 1.72 | 2.37 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.74 | 127.49 | 1.00 | 196.90 | 1.79 | 0.91% | 0.914 | 0.50 | 249.34 | 1.64 | 1.00 | 200 | 0.824 | 0.96 | 0.210 | 0.480 | | 1.72 | 2.36 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.80 | 127.66 | 1.00 | 199.25 | 1.82 | 0.91% | 0.918 | 0.50 | 251.70 | 1.64 | 1.00 | 200 | 0.824 | 0.96 | 0.212 | 0.480 | | 1.72 | 2.36 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.88 | 127.86 | 1.00 | 200.71 | 1.87 | 0.93% | 0.936 | 0.50 | 252.70 | 1.64 | 1.00 | 199 | 0.815 | 0.96 | 0.215 | 0.481 | | 1.70 | 2.33 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 16.96 | 128.11 | 1.01 | 202.76 | 1.93 | 0.95% | 0.957 | 0.50 | 254.44 | 1.64 | 1.00 | 200 | 0.822 | 0.96 | 0.217 | 0.482 | | 1.71 | 2.35 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.01 | 128.25 | 1.01 | 203.74 | 1.96 | 0.96% | 0.967 | 0.50 | 255.15 | 1.65 | 1.00 | 200 | 0.826 | 0.96 | 0.219 | 0.482 | | 1.71 | 2.36 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.09 | 128.60 | 1.02 | 204.52 | 2.05 | 1.00% | 1.007 | 0.51 | 255.27 | 1.66 | 1.01 | 202 | 0.845 | 0.96 | 0.221 | 0.483 | | 1.75 | 2.41 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.15 | 128.82 | 1.02 | 203.84 | 2.12 | 1.04% | 1.045 | 0.51 | 253.78 | 1.67 | 1.02 | 204 | 0.866 | 0.96 | 0.223 | 0.483 | | 1.79 | 2.46 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.21 | 129.34 | 1.03 | 203.84 | 2.27 | 1.11% | 1.119 | 0.52 | 253.14 | 1.69 | 1.03 | 207 | 0.901 | 0.96 | 0.225 | 0.484 | | 1.86 | 2.56 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.26 | 129.68 | 1.03 | 203.84 | 2.38 | 1.17% | 1.174 | 0.52 | 252.60 | 1.71 | 1.04 | 209 | 0.926 | 0.96 | 0.227 | 0.484 | | 1.91 | 2.63 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.36 | 130.19 | 1.04 | 205.98 | 2.55 | 1.24% | 1.244 | 0.53 | 254.19 | 1.73 | 1.06 | 211 | 0.954 | 0.96 | 0.230 | 0.485 | | 1.97 | 2.70 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.41 | 130.41 | 1.04 | 207.35 | 2.62 | 1.26% | 1.270 | 0.53 | 255.34 | 1.73 | 1.06 | 212 | 0.962 | 0.96 | 0.231 | 0.486 | | 1.98 | 2.73 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.46 | 130.65 | 1.04 | 208.72 | 2.70 | 1.29% | 1.300 | 0.53 | 256.49 | 1.74 | 1.06 | 213 | 0.973 | 0.96 | 0.233 | 0.486 | | 2.00 | 2.75 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.53 | 130.99 | 1.05 | 210.09 | 2.82 | 1.34% | 1.349 | 0.53 | 257.42 | 1.75 | 1.07 | 214 | 0.991 | 0.96 | 0.235 | 0.487 | | 2.04 | 2.80 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.59 | 131.25 | 1.05 | 211.65 | 2.92 | 1.38% | 1.387 | 0.53 | 258.68 | 1.75 | 1.07 | 215 | 1.004 | 0.96 | 0.237 | 0.487 | | 2.06 | 2.84 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.67 | 131.42 | 1.06 | 211.94 | 2.98 | 1.41% | 1.413 | 0.54 | 258.15 | 1.76 | 1.08 | 216 | 1.016 | 0.96 | 0.239 | 0.488 | | 2.08 | 2.86 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.72 | 131.52 | 1.06 | 211.94 | 3.03 | 1.43% | 1.437 | 0.54 | 257.60 | 1.77 | 1.08 | 217 | 1.026 | 0.96 | 0.241 | 0.488 | | 2.10 | 2.89 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.81 | 131.58 | 1.07 | 210.38 | 3.06 | 1.45% | 1.462 | 0.54 | 254.72 | 1.78 | 1.09 | 218 | 1.041 | 0.96 | 0.244 | 0.489 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.86 | 131.49 | 1.07 | 208.04 | 3.03 | 1.46% | 1.464 | 0.54 | 251.34 | 1.78 | 1.09 | 218 | 1.048 | 0.96 | 0.245 | 0.490 | | 2.14 | 2.95 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.95 | 131.25 | 1.07 | 202.47 | 2.96 | 1.46% | 1.470 | 0.54 | 243.65 | 1.79 | 1.10 | 220 | 1.066 | 0.96 | 0.248 | 0.490 | | 2.17 | 2.99 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 17.99 | 131.24 | 1.08 | 207.79 | 2.93 | 1.41% | 1.417 | 0.54 | 249.67 | 1.77 | 1.09 | 217 | 1.031 | 0.96 | 0.249 | 0.491 | | 2.10 | 2.89 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.08 | 131.09 | 1.08 | 201.88 | 2.90 | 1.44% | 1.444 | 0.54 | 241.62 | 1.78 | 1.10 | 219 | 1.058 | 0.96 | 0.252 | 0.491 | | 2.15 | 2.96 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.13 | 131.18 | 1.09 | 207.55 | 2.91 | 1.40% | 1.409 | 0.54 | 247.93 | 1.77 | 1.08 | 217 | 1.029 | 0.96 | 0.254 | 0.492 | | 2.09 | 2.88 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.18 | 131.35 | 1.09 | 213.70 | 2.95 | 1.38% | 1.388 | 0.53 | 254.78 | 1.76 | 1.08 | 215 | 1.006 | 0.96 | 0.255 | 0.492 | | 2.04 | 2.81 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.24 | 131.64 | 1.09 | 216.53 | 3.05 | 1.41% | 1.416 | 0.54 | 257.53 | 1.76 | 1.08 | 216 | 1.013 | 0.96 | 0.257 | 0.493 | | 2.06 | 2.83 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.33 | 131.97 | 1.10 | 219.07 | 3.18 | 1.45% | 1.459 | 0.54 | 259.58 | 1.77 | 1.08 | 217 | 1.026 | 0.96 | 0.260 | 0.493 | | 2.08 | 2.86 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.39 | 132.05 | 1.10 | 220.44 | 3.21 | 1.46% | 1.464 | 0.54 | 260.56 | 1.77 | 1.08 | 217 | 1.025 | 0.96 | 0.262 | 0.494 | | 2.08 | 2.86 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.44 | 132.06 | 1.11 | 221.22 | 3.21 | 1.45% | 1.458 | 0.54 | 260.95 | 1.76 | 1.08 | 216 | 1.022 | 0.96 | 0.263 | 0.494 | | 2.07 | 2.85 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.52 | 132.02 | 1.11 | 223.08 | 3.19 | 1.43% | 1.437 | 0.54 | 262.28 | 1.76 | 1.08 | 215 | 1.010 | 0.96 | 0.266 | 0.495 | | 2.04 | 2.81 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.59 | 131.45 | 1.12 | 225.23 | 2.94 | 1.31% | 1.312 | 0.53 | 264.06 | 1.73 | 1.06 | 211 | 0.954 | 0.96 | 0.268 | 0.495 | | 1.93 | 2.65 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.67 | 131.05 | 1.12 | 226.49 | 2.77 | 1.22% | 1.229 | 0.52 | 264.68 | 1.70 | 1.04 | 208 | 0.917 | 0.96 | 0.271 | 0.496 | | 1.85 | 2.54 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.75 | 131.26 | 1.13 | 227.96 | 2.85 | 1.25% | 1.256 | 0.52 | 265.54 | 1.71 | 1.04 | 209 | 0.927 | 0.96 | 0.273 | 0.497 | | 1.87 | 2.57 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.79 | 131.40 | 1.13 | 228.55 | 2.90 | 1.27% | 1.275 | 0.52 | 265.80 | 1.71 | 1.05 | 209 | 0.934 | 0.96 | 0.274 | 0.497 | | 1.88 | 2.59 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.87 | 131.62 | 1.14 | 229.91 | 2.98 | 1.30% | 1.303 | 0.52 | 266.52 | 1.72 | 1.05 | 210 | 0.944 | 0.96 | 0.277 | 0.498 | | 1.90 | 2.61 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.90 | 131.60 | 1.14 | 223.37 | 3.01 | 1.35% | 1.354 | 0.53 | 258.59 | 1.74 | 1.07 | 213 | 0.979 | 0.96 | 0.278 | 0.498 | | 1.97 | 2.71 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 18.97 | 131.73 | 1.14 | 222.78 | 3.06 | 1.37% | 1.381 | 0.53 | 257.17 | 1.75 | 1.07 | 214 | 0.992 | 0.96 | 0.280 | 0.498 | | 1.99 | 2.74 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.03 | 132.02 | 1.15 | 225.52 | 3.17 | 1.41% | 1.413 | 0.53 | 259.72 | 1.75 | 1.07 | 215 | 1.000 | 0.95 | 0.282 | 0.499 | | 2.01 | 2.76 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.10 | 132.33 | 1.15 | 227.18 | 3.30 | 1.45% | 1.460 | 0.54 | 260.89 | 1.76 | 1.08 | 216 | 1.017 | 0.95 | 0.284 | 0.499 | | 2.04 | 2.80 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.16 | 132.62 | 1.15 | 229.33 | 3.42 | 1.49% | 1.499 | 0.54 | 262.73 | 1.77 | 1.08 | 217 | 1.029 | 0.95 | 0.286 | 0.500 | | 2.06 | 2.83 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.24 | 132.92 | 1.16 | 230.69 | 3.56 | 1.54% | 1.551 | 0.54 | 263.43 | 1.78 | 1.09 | 218 | 1.048 | 0.95 | 0.288 | 0.500 | | 2.10 | 2.88 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.32 | 133.16 | 1.16 | 232.45 | 3.67 | 1.58% | 1.587 | 0.54 | 264.59 | 1.79 | 1.10 | 219 | 1.060 | 0.95 | 0.291 | 0.501 | | 2.12 | 2.91 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.36 | 133.26 | 1.17 | 233.53 | 3.71 | 1.59% | 1.597 | 0.54 | 265.39 | 1.79 | 1.10 | 219 | 1.062 | 0.95 | 0.292 | 0.501 | | 2.12 | 2.92 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.43 | 133.38 | 1.17 | 235.58 | 3.77 | 1.60% | 1.608 | 0.54 | 266.97 | 1.79 | 1.10 | 220 | 1.064 | 0.95 | 0.294 | 0.502 | | 2.12 | 2.92 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.50 | 133.47 | 1.18 | 236.85 | 3.81 | 1.61% | 1.617 | 0.54 | 267.65 | 1.79 | 1.10 | 220 | 1.065 | 0.95 | 0.296 | 0.502 | | 2.12 | 2.92 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.56 | 133.52 | 1.18 | 237.82 | 3.83 | 1.61% | 1.618 | 0.54 | 268.10 | 1.79 | 1.10 | 220 | 1.065 | 0.95 | 0.298 | 0.503 | | 2.12 | 2.91 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.63 | 133.52 | 1.19 | 238.70 | 3.82 | 1.60% | 1.608 | 0.54 | 268.34 | 1.79 | 1.10 | 219 | 1.059 | 0.95 | 0.300 | 0.503 | | 2.11 | 2.90 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.69 | 133.55 | 1.19 | 240.46 | 3.83 | 1.59% | 1.601 | 0.54 | 269.67 | 1.78 | 1.09 | 219 | 1.053 | 0.95 | 0.302 | 0.503 | | 2.09 | 2.88 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.77 | 133.60 | 1.19 | 242.51 | 3.84 | 1.58% | 1.591 | 0.54 | 271.10 | 1.78 | 1.09 | 218 | 1.046 | 0.95 | 0.305 | 0.504 | | 2.08 | 2.86 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.86 | 133.77 | 1.20 | 245.74 | 3.92 | 1.60% | 1.603 | 0.54 | 273.74 | 1.78 | 1.09 | 218 | 1.045 | 0.95 | 0.308 | 0.505 | | 2.07 | 2.85 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.90 | 133.91 | 1.20 | 248.86 | 3.98 | 1.60% | 1.607 | 0.54 | 276.78 | 1.78 | 1.09 | 218 | 1.041 | 0.95 | 0.309 | 0.505 | | 2.06 | 2.84 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 19.95 | 134.05 | 1.21 | 252.38 | 4.03 | 1.60% | 1.604 | 0.54 | 280.15 | 1.77 | 1.09 | 217 | 1.034 | 0.95 | 0.310 | 0.505 | | 2.05 | 2.82 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.03 | 132.36 | 1.21 | 257.07 | 3.18 | 1.24% | 1.243 | 0.51 | 284.49 | 1.68 | 1.02 | 205 | 0.880 | 0.95 | 0.313 | 0.506 | | 1.74 | 2.39 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.08 | 130.91 | 1.22 | 261.66 | 2.60 | 0.99% | 0.998 | 0.50 | 289.04 | 1.60 | 1.00 | 200 | 0.824 | 0.95 | 0.314 | 0.506 | | 1.63 | 2.24 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.16 | 131.52 | 1.22 | 265.76 | 2.81 | 1.06% | 1.062 | 0.50 | 292.69 | 1.62 | 1.00 | 200 | 0.824 | 0.95 | 0.317 | 0.507 | | 1.63 | 2.24 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.21 | 131.83 | 1.22 | 269.76 | 2.91 | 1.08% | 1.084 | 0.50 | 296.54 | 1.62 | 1.00 | 200 | 0.824 | 0.95 | 0.319 | 0.507 | | 1.63 | 2.24 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.30 | 132.11 | 1.23 | 276.70 | 3.00 | 1.08% | 1.089 | 0.50 | 303.15 | 1.62 | 1.00 | 200 | 0.824 | 0.95 | 0.321 | 0.508 | | 1.62 | 2.23 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.34 | 132.17 | 1.23 | 279.92 | 3.01 | 1.08% | 1.080 | 0.50 | 306.22 | 1.61 | 1.00 | 200 | 0.824 | 0.95 | 0.323 | 0.508 | | 1.62 | 2.23 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.41 | 132.17 | 1.24 | 280.60 | 3.01 | 1.07% | 1.077 | 0.50 | 306.14 | 1.61 | 1.00 | 200 | 0.824 | 0.95 | 0.325 | 0.508 | | 1.62 | 2.23 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.50 | 132.19 | 1.24 | 281.29 | 3.02 | 1.07% | 1.078 | 0.50 | 305.83 | 1.61 | 1.00 | 200 | 0.824 | 0.95 | 0.328 | 0.509 | | 1.62 | 2.23 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.58 | 132.40 | 1.25 | 285.39 | 3.09 | 1.08% | 1.087 | 0.50 | 309.36 | 1.61 | 1.00 | 200 | 0.824 | 0.95 | 0.330 | 0.509 | | 1.62 | 2.23 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.61 | 132.50 | 1.25 | 286.46 | 3.13 | 1.09% | 1.097 | 0.50 | 310.17 | 1.61 | 1.00 | 200 | 0.824 | 0.95 | 0.331 | 0.510 | | 1.62 | 2.23 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.67 | 132.68 | 1.25 | 286.56 | 3.21 | 1.12% | 1.125 | 0.50 | 309.56 | 1.62 | 1.00 | 200 | 0.824 | 0.95 | 0.333 | 0.510 | | 1.62 | 2.22 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.75 | 133.11 | 1.26 | 286.07 | 3.40 | 1.19% | 1.194 | 0.50 | 308.08 | 1.64 | 1.00 | 200 | 0.818 | 0.95 | 0.335 | 0.510 | | 1.60 | 2.21 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.81 | 133.39 | 1.26 | 288.91 | 3.52 | 1.22% | 1.224 | 0.50 | 310.43 | 1.65 | 1.00 | 200 | 0.828 | 0.95 | 0.337 | 0.511 | | 1.62 | 2.23 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.89 | 133.67 | 1.27 | 294.18 | 3.64 | 1.24% | 1.243 | 0.50 | 315.14 | 1.65 | 1.00 | 201 | 0.830 | 0.95 | 0.340 | 0.511 | | 1.62 | 2.23 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 20.94 | 133.82 | 1.27 | 298.18 | 3.70 | 1.24% | 1.246 | 0.50 | 318.83 | 1.65 | 1.00 | 200 | 0.826 | 0.95 | 0.341 | 0.512 | | 1.61 | 2.22 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.01 | 133.85 | 1.28 | 297.70 | 3.72 | 1.25% | 1.255 | 0.50 | 317.46 | 1.65 | 1.00 | 201 | 0.831 | 0.95 | 0.344 | 0.512 | | 1.62 | 2.23 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.08 | 133.77 | 1.28 | 293.89 | 3.69 | 1.26% | 1.261 | 0.50 | 312.54 | 1.66 | 1.01 | 201 | 0.840 | 0.95 | 0.346 | 0.512 | | 1.64 | 2.26 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.13 | 133.56 | 1.29 | 290.27 | 3.60 | 1.24% | 1.246 | 0.50 | 308.08 | 1.65 | 1.01 | 201 | 0.839 | 0.95 | 0.347 | 0.513 | | 1.64 | 2.25 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.21 | 133.07 | 1.29 | 286.46 | 3.38 | 1.18% | 1.185 | 0.50 | 303.10 | 1.64 | 1.00 | 199 | 0.818 | 0.95 | 0.350 | 0.513 | | 1.59 | 2.19 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.30 | 132.62 | 1.30 | 286.46 | 3.18 | 1.11% | 1.115 | 0.50 | 302.08 | 1.62 | 1.00 | 200 | 0.824 | 0.95 | 0.353 | 0.514 | | 1.60 | 2.21 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.34 | 132.52 | 1.30 | 284.90 | 3.14 | 1.10% | 1.107 | 0.50 | 299.98 | 1.62 | 1.00 | 200 | 0.824 | 0.95 | 0.354 | 0.514 | | 1.60 | 2.21 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.40 | 132.43 | 1.30 | 283.14 | 3.11 | 1.10% | 1.103 | 0.50 | 297.45 | 1.62 | 1.00 | 200 | 0.824 | 0.95 | 0.356 | 0.514 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.48 | 132.31 | 1.31 | 281.09 | 3.07 | 1.09% | 1.097 | 0.50 | 294.41 | 1.62 | 1.00 | 200 | 0.824 | 0.95 | 0.358 | 0.515 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.54 | 132.18 | 1.31 | 277.28 | 3.03 | 1.09% | 1.098 | 0.50 | 289.76 | 1.63 | 1.00 | 200 | 0.824 | 0.95 | 0.360 | 0.515 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.61 | 131.96 | 1.32 | 269.86 | 2.96 | 1.10% | 1.102 | 0.50 | 281.25 | 1.64 | 1.00 | 200 | 0.824 | 0.95 | 0.362 | 0.516 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.66 | 131.80 | 1.32 | 260.09 | 2.93 | 1.13% | 1.132 | 0.50 | 270.52 | 1.65 | 1.01 | 201 | 0.839 | 0.95 | 0.364 | 0.516 | | 1.63 | 2.24 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.74 | 131.35 | 1.33 | 245.25 | 2.81 | 1.15% | 1.152 | 0.51 | 254.27 | 1.68 | 1.02 | 204 | 0.875 | 0.95 | 0.366 | 0.516 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.79 | 131.08 | 1.33 | 236.85 | 2.74 | 1.16% | 1.163 | 0.52 | 245.07 | 1.69 | 1.03 | 206 | 0.896 | 0.95 | 0.368 | 0.517 | | 1.73 | 2.39 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.88 | 130.85 | 1.33 | 231.18 | 2.68 | 1.16% | 1.166 | 0.52 | 238.40 | 1.70 | 1.04 | 207 | 0.909 | 0.95 | 0.371 | 0.517 | | 1.76 | 2.42 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 21.93 | 131.02 | 1.34 | 232.45 | 2.74 | 1.18% | 1.186 | 0.52 | 239.29 | 1.70 | 1.04 | 208 | 0.916 | 0.95 | 0.372 | 0.517 | | 1.77 | 2.44 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.00 | 131.02 | 1.34 | 238.02 | 2.72 | 1.14% | 1.149 | 0.51 | 244.44 | 1.69 | 1.03 | 206 | 0.889 | 0.95 | 0.374 | 0.518 | | 1.72 | 2.36 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.06 | 131.24 | 1.35 | 248.47 | 2.76 | 1.11% | 1.117 | 0.51 | 254.69 | 1.66 | 1.01 | 203 | 0.855 | 0.95 | 0.376 | 0.518 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.14 | 131.81 | 1.35 | 266.05 | 2.92 | 1.10% | 1.103 | 0.50 | 272.02 | 1.64 | 1.00 | 200 | 0.819 | 0.95 | 0.379 | 0.519 | | 1.58 | 2.17 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.23 | 132.27 | 1.36 | 280.12 | 3.05 | 1.09% | 1.094 | 0.50 | 285.55 | 1.63 | 1.00 | 200 | 0.824 | 0.95 | 0.382 | 0.519 | | 1.59 | 2.18 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.26 | 132.34 | 1.36 | 281.39 | 3.08 | 1.09% | 1.100 | 0.50 | 286.54 | 1.63 | 1.00 | 200 | 0.824 | 0.95 | 0.383 | 0.519 | | 1.59 | 2.18 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.35 | 132.27 | 1.37 | 278.36 | 3.06 | 1.10% | 1.105 | 0.50 | 282.53 | 1.63 | 1.00 | 200 | 0.824 | 0.95 | 0.385 | 0.520 | | 1.59 | 2.18 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.41 | 131.93 | 1.37 | 269.96 | 2.95 | 1.09% | 1.098 | 0.50 | 273.37 | 1.64 | 1.00 | 200 | 0.824 | 0.95 | 0.387 | 0.520 | | 1.58 | 2.18 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.46 | 131.61 | 1.37 | 256.58 | 2.87 | 1.12% | 1.125 | 0.51 | 259.30 | 1.66 | 1.01 | 202 | 0.848 | 0.95 | 0.389 | 0.520 | | 1.63 | 2.24 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.52 | 129.75 | 1.38 | 238.90 | 2.28 | 0.95% | 0.960 | 0.50 | 240.83 | 1.63 | 1.00 | 200 | 0.824 | 0.95 | 0.391 | 0.521 | | 1.58 | 2.18 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.59 | 127.54 | 1.38 | 221.90 | 1.73 | 0.78% | 0.785 | 0.50 | 223.08 | 1.59 | 1.00 | 200 | 0.824 | 0.95 | 0.393 | 0.521 | | 1.58 | 2.18 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.64 | 127.36 | 1.38 | 207.16 | 1.73 | 0.84% | 0.841 | 0.50 | 207.82 | 1.63 | 1.00 | 200 | 0.824 | 0.95 | 0.394 | 0.521 | | 1.58 | 2.18 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.72 | 126.97 | 1.39 | 193.39 | 1.67 | 0.86% | 0.870 | 0.51 | 193.40 | 1.66 | 1.01 | 192 | 0.733 | 0.95 | 0.397 | 0.522 | | 1.41 | 1.93 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.78 | 126.78 | 1.39 | 184.40 | 1.66 | 0.90% | 0.907 | 0.52 | 183.99 | 1.69 | 1.03 | 186 | 0.677 | 0.95 | 0.399 | 0.522 | | 1.30 | 1.78 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.84 | 126.92 | 1.40 | 185.03 | 1.69 | 0.91% | 0.920 | 0.52 | 184.26 | 1.70 | 1.03 | 187 | 0.686 | 0.95 | 0.401 | 0.522 | | 1.31 | 1.81 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.91 | 127.02 | 1.40 | 185.03 | 1.71 | 0.92% | 0.931 | 0.52 | 183.84 | 1.70 | 1.04 | 187 | 0.689 | 0.95 | 0.403 | 0.523 | | 1.32 | 1.81 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 22.97 | 126.91 | 1.41 | 185.67 | 1.69 | 0.91% | 0.917 | 0.52 | 184.12 | 1.69 | 1.03 | 187 | 0.686 | 0.95 | 0.405 | 0.523 | | 1.31 | 1.81 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 23.04 | 126.93 | 1.41 | 188.89 | 1.68 | 0.89% | 0.896 | 0.51 | 186.91 | 1.68 | 1.03 | 188 | 0.701 | 0.95 | 0.407 | 0.523 | | 1.34 | 1.84 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 23.14 | 126.70 | 1.42 | 191.14 | 1.62 | 0.85% | 0.854 | 0.51 | 188.54 | 1.66 | 1.01 | 188 | 0.698 | 0.95 | 0.410 | 0.524 | | 1.33 | 1.83 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 23.18 | 126.49 | 1.42 | 188.50 | 1.58 | 0.84% | 0.845 | 0.51 | 185.68 | 1.67 | 1.01 | 185 | 0.673 | 0.95 | 0.411 | 0.524 | | 1.28 | 1.77 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 23.27 | 126.19 | 1.42 | 175.51 | 1.56 | 0.89% | 0.896 | 0.52 | 172.29 | 1.71 | 1.04 | 177 | 0.596 | 0.94 | 0.414 | 0.525 | | 1.14 | 1.56 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 23.32 | 126.10 | 1.43 | 165.74 | 1.57 | 0.95% | 0.955 | 0.53 | 162.36 | 1.74 | 1.07 | 171 | 0.546 | 0.94 | 0.416 | 0.525 | | 1.04 | 1.43 | | 0.000 | 0.000 | 0.000 | 4.196 | 0.000 | | |
| 23.36 | 125.97 | 1.43 | 154.51 | 1.58 | 1.02% | 1.032 | 0.54 | 151.07 | 1.79 | 1.10 | 164 | 0.491 | 0.94 | 0.417 | 0.525 | | 0.93 | 1.29 | <= | 0.271 | 0.001 | 0.000 | 4.196 | 0.000 | 23.32 | 23.36 |
| 23.45 | 126.57 | 1.44 | 135.17 | 1.79 | 1.32% | 1.338 | 0.58 | 131.60 | 1.91 | 1.20 | 156 | 0.435 | 0.94 | 0.420 | 0.526 | | 0.83 | 1.14 | <= | 0.338 | 0.004 | 0.000 | 4.195 | 0.000 | 23.36 | 23.45 |
| 23.50 | 126.82 | 1.44 | 120.43 | 1.92 | 1.59% | 1.614 | 0.61 | 116.91 | 2.00 | 1.30 | 151 | 0.402 | 0.94 | 0.421 | 0.526 | | 0.76 | 1.05 | <= | 0.513 | 0.003 | 0.000 | 4.191 | 0.000 | 23.45 | 23.50 |
| 23.58 | 128.06 | 1.44 | 107.34 | 2.37 | 2.21% | 2.238 | 0.65 | 103.78 | 2.14 | 1.54 | 158 | 0.449 | 0.94 | 0.424 | 0.526 | | 0.85 | 1.17 | <= | 0.377 | 0.004 | 0.000 | 4.188 | 0.000 | 23.50 | 23.58 |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-2

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

**Project No.:** 7109.23

**Analysis Scenario:** MCE (2% exceedance probability in 50 years)

D(ft) 1 | **MAGNITUDE:** 6.62 | **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet | **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.63 | 128.58 | 1.45 | 98.55 | 2.62 | 2.66% | 2.698 | 0.68 | 95.01 | 2.23 | 1.74 | 164 | 0.490 | 0.94 | 0.425 | 0.527 | | 0.93 | **1.28** | <= | 0.267 | 0.002 | 0.000 | 4.185 | 0.000 | 23.58 | 23.63 |
| 23.71 | 128.97 | 1.45 | 93.76 | 2.80 | 2.99% | 3.033 | 0.69 | 90.08 | 2.28 | 1.89 | 169 | 0.530 | 0.94 | 0.428 | 0.527 | | 1.01 | **1.38** | | 0.000 | 0.000 | 0.000 | 4.183 | 0.000 | | |
| 23.77 | 128.92 | 1.46 | 91.03 | 2.81 | 3.09% | 3.137 | 0.70 | 87.24 | 2.30 | 1.95 | 169 | 0.532 | 0.94 | 0.430 | 0.527 | | 1.01 | **1.39** | | 0.000 | 0.000 | 0.000 | 4.183 | 0.000 | | |
| 23.84 | 128.81 | 1.46 | 85.36 | 2.83 | 3.32% | 3.373 | 0.71 | 81.53 | 2.34 | 2.09 | 170 | 0.539 | 0.94 | 0.432 | 0.528 | | 1.02 | **1.40** | | 0.000 | 0.000 | 0.000 | 4.183 | 0.000 | | |
| 23.89 | 128.65 | 1.46 | 79.80 | 2.83 | 3.55% | 3.613 | 0.72 | 76.00 | 2.39 | 2.25 | 171 | 0.544 | 0.94 | 0.433 | 0.528 | | 1.03 | **1.42** | | 0.000 | 0.000 | 0.000 | 4.183 | 0.000 | | |
| 23.98 | 128.16 | 1.47 | 81.55 | 2.63 | 3.23% | 3.284 | 0.71 | 77.47 | 2.35 | 2.12 | 164 | 0.487 | 0.94 | 0.436 | 0.528 | | 0.92 | **1.27** | <= | 0.257 | 0.003 | 0.000 | 4.183 | 0.000 | 23.89 | 23.98 |
| 24.02 | 128.18 | 1.47 | 94.25 | 2.51 | 2.66% | 2.705 | 0.68 | 89.64 | 2.24 | 1.78 | 159 | 0.457 | 0.94 | 0.437 | 0.528 | | 0.86 | **1.19** | <= | 0.393 | 0.002 | 0.000 | 4.180 | 0.000 | 23.98 | 24.02 |
| 24.11 | 128.38 | 1.48 | 133.03 | 2.30 | 1.73% | 1.748 | 0.61 | 126.74 | 2.00 | 1.30 | 165 | 0.498 | 0.94 | 0.440 | 0.529 | | 0.94 | **1.30** | <= | 0.278 | 0.003 | 0.000 | 4.179 | 0.000 | 24.02 | 24.11 |
| 24.16 | 128.17 | 1.48 | 149.04 | 2.15 | 1.44% | 1.457 | 0.58 | 141.94 | 1.91 | 1.20 | 170 | 0.538 | 0.94 | 0.442 | 0.529 | | 1.02 | **1.40** | | 0.000 | 0.000 | 0.000 | 4.176 | 0.000 | | |
| 24.23 | 127.41 | 1.49 | 169.07 | 1.86 | 1.10% | 1.110 | 0.54 | 160.85 | 1.79 | 1.10 | 177 | 0.594 | 0.94 | 0.444 | 0.529 | | 1.12 | **1.54** | | 0.000 | 0.000 | 0.000 | 4.176 | 0.000 | | |
| 24.28 | 126.85 | 1.49 | 171.90 | 1.71 | 0.99% | 1.003 | 0.53 | 163.31 | 1.75 | 1.07 | 176 | 0.583 | 0.94 | 0.446 | 0.530 | | 1.10 | **1.51** | | 0.000 | 0.000 | 0.000 | 4.176 | 0.000 | | |
| 24.39 | 125.49 | 1.50 | 166.14 | 1.44 | 0.87% | 0.875 | 0.52 | 157.26 | 1.72 | 1.05 | 166 | 0.507 | 0.94 | 0.449 | 0.530 | | 0.96 | **1.31** | | 0.000 | 0.000 | 0.000 | 4.176 | 0.000 | | |
| 24.43 | 125.30 | 1.50 | 163.30 | 1.41 | 0.86% | 0.871 | 0.53 | 154.36 | 1.73 | 1.06 | 164 | 0.488 | 0.94 | 0.450 | 0.530 | | 0.92 | **1.27** | <= | 0.254 | 0.001 | 0.000 | 4.176 | 0.000 | 24.39 | 24.43 |
| 24.56 | 125.15 | 1.51 | 146.41 | 1.43 | 0.98% | 0.987 | 0.55 | 137.70 | 1.80 | 1.11 | 153 | 0.414 | 0.94 | 0.454 | 0.531 | | 0.78 | **1.07** | <= | 0.546 | 0.009 | 0.000 | 4.174 | 0.000 | 24.43 | 24.56 |
| 24.57 | 125.14 | 1.51 | 141.82 | 1.45 | 1.02% | 1.033 | 0.56 | 133.30 | 1.82 | 1.12 | 151 | 0.398 | 0.94 | 0.455 | 0.531 | | 0.75 | **1.03** | <= | 0.478 | 0.001 | 0.000 | 4.166 | 0.000 | 24.56 | 24.57 |
| 24.63 | 125.52 | 1.51 | 130.68 | 1.57 | 1.20% | 1.215 | 0.58 | 122.49 | 1.90 | 1.19 | 146 | 0.371 | 0.94 | 0.456 | 0.531 | | 0.70 | **0.96** | <= | 0.778 | 0.006 | 0.000 | 4.165 | 0.000 | 24.57 | 24.63 |
| 24.69 | 126.08 | 1.51 | 117.69 | 1.75 | 1.49% | 1.506 | 0.61 | 109.97 | 2.00 | 1.30 | 143 | 0.354 | 0.94 | 0.458 | 0.532 | | 0.67 | **0.92** | <= | 0.676 | 0.005 | 0.000 | 4.160 | 0.000 | 24.63 | 24.69 |
| 24.74 | 126.50 | 1.52 | 104.60 | 1.93 | 1.85% | 1.872 | 0.64 | 97.43 | 2.10 | 1.46 | 143 | 0.351 | 0.94 | 0.460 | 0.532 | | 0.66 | **0.91** | <= | 0.651 | 0.004 | 0.000 | 4.155 | 0.000 | 24.69 | 24.74 |
| 24.82 | 126.61 | 1.52 | 82.43 | 2.12 | 2.57% | 2.620 | 0.69 | 76.29 | 2.28 | 1.88 | 145 | 0.361 | 0.94 | 0.462 | 0.532 | | 0.68 | **0.93** | <= | 0.717 | 0.007 | 0.000 | 4.151 | 0.000 | 24.74 | 24.82 |
| 24.88 | 126.02 | 1.53 | 66.81 | 2.10 | 3.14% | 3.217 | 0.73 | 61.44 | 2.41 | 2.35 | 145 | 0.365 | 0.94 | 0.464 | 0.533 | | 0.68 | **0.94** | <= | 0.734 | 0.005 | 0.000 | 4.144 | 0.000 | 24.82 | 24.88 |
| 24.96 | 124.30 | 1.53 | 52.74 | 1.80 | 3.41% | 3.515 | 0.76 | 48.08 | 2.51 | 2.83 | 137 | 0.317 | 0.94 | 0.467 | 0.533 | | 0.60 | **0.82** | <= | 1.793 | 0.017 | 0.000 | 4.139 | 0.000 | 24.88 | 24.96 |
| 25.01 | 123.06 | 1.53 | 43.66 | 1.61 | 3.69% | 3.822 | 0.79 | 39.50 | 2.60 | 3.31 | 132 | 0.292 | 0.94 | 0.468 | 0.533 | | 0.55 | **0.75** | <= | 1.848 | 0.011 | 0.000 | 4.121 | 0.000 | 24.96 | 25.01 |
| 25.10 | 119.08 | 1.54 | 52.01 | 0.88 | 1.69% | 1.744 | 0.70 | 47.21 | 2.31 | 1.99 | 95 | 0.159 | 0.94 | 0.471 | 0.534 | | 0.30 | **0.41** | <= | 2.410 | 0.026 | 0.000 | 4.110 | 0.000 | 25.01 | 25.10 |
| 25.14 | 118.87 | 1.54 | 34.09 | 0.99 | 2.90% | 3.042 | 0.79 | 30.41 | 2.62 | 3.42 | 113 | 0.214 | 0.94 | 0.472 | 0.534 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.084 | 0.000 | | |
| 25.23 | 121.60 | 1.55 | 51.28 | 1.25 | 2.44% | 2.513 | 0.73 | 46.36 | 2.42 | 2.40 | 112 | 0.212 | 0.94 | 0.475 | 0.534 | | 0.40 | **0.55** | <= | 2.099 | 0.023 | 0.000 | 4.084 | 0.000 | 25.14 | 25.23 |
| 25.27 | 122.36 | 1.55 | 61.34 | 1.31 | 2.14% | 2.191 | 0.70 | 55.67 | 2.32 | 2.02 | 114 | 0.217 | 0.94 | 0.476 | 0.535 | | 0.41 | **0.56** | <= | 2.079 | 0.010 | 0.000 | 4.062 | 0.000 | 25.23 | 25.27 |
| 25.36 | 123.54 | 1.56 | 77.26 | 1.42 | 1.84% | 1.876 | 0.67 | 70.31 | 2.20 | 1.67 | 119 | 0.236 | 0.94 | 0.479 | 0.535 | | 0.44 | **0.61** | <= | 2.007 | 0.022 | 0.000 | 4.052 | 0.000 | 25.27 | 25.36 |
| 25.41 | 122.93 | 1.56 | 54.11 | 1.48 | 2.74% | 2.816 | 0.74 | 48.74 | 2.44 | 2.48 | 122 | 0.249 | 0.94 | 0.481 | 0.535 | | 0.46 | **0.64** | <= | 1.965 | 0.012 | 0.000 | 4.030 | 0.000 | 25.36 | 25.41 |
| 25.48 | 124.38 | 1.56 | 84.00 | 1.55 | 1.85% | 1.880 | 0.66 | 76.30 | 2.18 | 1.61 | 124 | 0.259 | 0.94 | 0.483 | 0.536 | | 0.48 | **0.67** | <= | 1.934 | 0.016 | 0.000 | 4.018 | 0.000 | 25.41 | 25.48 |
| 25.54 | 124.90 | 1.57 | 96.50 | 1.59 | 1.65% | 1.675 | 0.64 | 87.71 | 2.10 | 1.45 | 129 | 0.280 | 0.94 | 0.485 | 0.536 | | 0.52 | **0.72** | <= | 1.489 | 0.011 | 0.000 | 4.002 | 0.000 | 25.48 | 25.54 |
| 25.63 | 125.82 | 1.57 | 123.16 | 1.66 | 1.35% | 1.365 | 0.60 | 112.04 | 1.96 | 1.25 | 142 | 0.348 | 0.94 | 0.488 | 0.536 | | 0.65 | **0.89** | <= | 1.195 | 0.013 | 0.000 | 3.991 | 0.000 | 25.54 | 25.63 |
| 25.68 | 126.20 | 1.58 | 139.08 | 1.68 | 1.21% | 1.222 | 0.57 | 126.52 | 1.89 | 1.18 | 152 | 0.404 | 0.94 | 0.489 | 0.536 | | 0.75 | **1.04** | <= | 0.484 | 0.003 | 0.000 | 3.978 | 0.000 | 25.63 | 25.68 |
| 25.76 | 126.74 | 1.58 | 165.94 | 1.71 | 1.03% | 1.040 | 0.54 | 150.88 | 1.78 | 1.09 | 169 | 0.525 | 0.94 | 0.492 | 0.537 | | 0.98 | **1.35** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 25.79 | 126.86 | 1.58 | 174.44 | 1.71 | 0.98% | 0.989 | 0.53 | 158.54 | 1.75 | 1.07 | 174 | 0.568 | 0.94 | 0.493 | 0.537 | | 1.06 | **1.46** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 25.85 | 127.00 | 1.59 | 185.77 | 1.71 | 0.92% | 0.928 | 0.52 | 168.63 | 1.71 | 1.05 | 181 | 0.627 | 0.94 | 0.495 | 0.537 | | 1.17 | **1.61** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 25.92 | 127.35 | 1.59 | 195.44 | 1.76 | 0.90% | 0.908 | 0.51 | 177.11 | 1.69 | 1.03 | 187 | 0.689 | 0.94 | 0.497 | 0.537 | | 1.28 | **1.76** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 25.99 | 127.87 | 1.60 | 206.28 | 1.85 | 0.90% | 0.904 | 0.51 | 186.62 | 1.67 | 1.02 | 195 | 0.770 | 0.94 | 0.499 | 0.538 | | 1.43 | **1.97** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.07 | 128.65 | 1.60 | 210.67 | 2.05 | 0.97% | 0.981 | 0.52 | 190.15 | 1.69 | 1.03 | 202 | 0.841 | 0.94 | 0.501 | 0.538 | | 1.56 | **2.15** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.12 | 129.05 | 1.60 | 217.22 | 2.14 | 0.99% | 0.993 | 0.51 | 195.81 | 1.69 | 1.03 | 206 | 0.888 | 0.94 | 0.503 | 0.538 | | 1.65 | **2.27** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.21 | 129.76 | 1.61 | 225.03 | 2.33 | 1.04% | 1.043 | 0.52 | 202.34 | 1.69 | 1.03 | 206 | 0.897 | 0.94 | 0.506 | 0.539 | | 1.66 | **2.29** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.25 | 130.10 | 1.61 | 230.69 | 2.42 | 1.05% | 1.056 | 0.51 | 207.21 | 1.69 | 1.03 | 206 | 0.892 | 0.94 | 0.507 | 0.539 | | 1.66 | **2.28** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.34 | 130.71 | 1.62 | 236.56 | 2.61 | 1.10% | 1.111 | 0.52 | 211.93 | 1.70 | 1.04 | 207 | 0.907 | 0.94 | 0.510 | 0.539 | | 1.68 | **2.31** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.39 | 130.96 | 1.62 | 239.29 | 2.69 | 1.12% | 1.132 | 0.52 | 214.05 | 1.70 | 1.04 | 208 | 0.912 | 0.94 | 0.511 | 0.539 | | 1.69 | **2.33** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.45 | 131.34 | 1.63 | 241.34 | 2.83 | 1.17% | 1.181 | 0.52 | 215.50 | 1.71 | 1.05 | 209 | 0.931 | 0.94 | 0.513 | 0.540 | | 1.72 | **2.37** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.51 | 131.61 | 1.63 | 242.51 | 2.93 | 1.21% | 1.216 | 0.52 | 216.14 | 1.72 | 1.05 | 210 | 0.945 | 0.94 | 0.515 | 0.540 | | 1.75 | **2.41** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.59 | 131.76 | 1.63 | 243.29 | 2.98 | 1.22% | 1.233 | 0.53 | 216.30 | 1.72 | 1.05 | 211 | 0.952 | 0.94 | 0.518 | 0.540 | | 1.76 | **2.43** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.68 | 131.88 | 1.64 | 241.24 | 3.04 | 1.26% | 1.269 | 0.53 | 213.86 | 1.74 | 1.06 | 213 | 0.973 | 0.94 | 0.520 | 0.540 | | 1.80 | **2.48** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.71 | 131.92 | 1.64 | 241.05 | 3.06 | 1.27% | 1.278 | 0.53 | 213.49 | 1.74 | 1.06 | 213 | 0.977 | 0.94 | 0.521 | 0.541 | | 1.81 | **2.49** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.79 | 131.89 | 1.65 | 235.87 | 3.07 | 1.30% | 1.311 | 0.53 | 208.35 | 1.75 | 1.07 | 215 | 1.003 | 0.94 | 0.524 | 0.541 | | 1.86 | **2.55** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.84 | 131.85 | 1.65 | 232.84 | 3.07 | 1.32% | 1.328 | 0.54 | 205.33 | 1.76 | 1.08 | 216 | 1.018 | 0.94 | 0.525 | 0.541 | | 1.88 | **2.59** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 26.92 | 131.71 | 1.66 | 232.16 | 3.01 | 1.30% | 1.306 | 0.54 | 204.22 | 1.76 | 1.08 | 215 | 1.010 | 0.94 | 0.528 | 0.541 | | 1.87 | **2.57** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.01 | 131.55 | 1.66 | 230.01 | 2.96 | 1.29% | 1.296 | 0.54 | 201.76 | 1.76 | 1.08 | 216 | 1.011 | 0.94 | 0.531 | 0.542 | | 1.87 | **2.57** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.05 | 131.46 | 1.67 | 228.35 | 2.93 | 1.28% | 1.293 | 0.54 | 200.04 | 1.76 | 1.08 | 216 | 1.014 | 0.94 | 0.532 | 0.542 | | 1.87 | **2.58** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.12 | 131.32 | 1.67 | 226.20 | 2.88 | 1.27% | 1.283 | 0.54 | 197.72 | 1.76 | 1.08 | 216 | 1.015 | 0.94 | 0.534 | 0.542 | | 1.87 | **2.58** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.20 | 131.15 | 1.67 | 226.20 | 2.81 | 1.24% | 1.252 | 0.53 | 197.24 | 1.75 | 1.07 | 215 | 1.001 | 0.94 | 0.537 | 0.542 | | 1.85 | **2.54** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.23 | 131.10 | 1.68 | 227.28 | 2.79 | 1.23% | 1.237 | 0.53 | 198.01 | 1.75 | 1.07 | 214 | 0.992 | 0.94 | 0.538 | 0.542 | | 1.83 | **2.52** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.32 | 131.02 | 1.68 | 229.82 | 2.75 | 1.20% | 1.205 | 0.53 | 199.69 | 1.74 | 1.06 | 213 | 0.973 | 0.94 | 0.540 | 0.543 | | 1.79 | **2.47** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.36 | 131.00 | 1.69 | 230.60 | 2.74 | 1.19% | 1.197 | 0.53 | 200.13 | 1.73 | 1.06 | 212 | 0.967 | 0.94 | 0.542 | 0.543 | | 1.78 | **2.45** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.44 | 131.01 | 1.69 | 231.38 | 2.74 | 1.18% | 1.193 | 0.53 | 200.33 | 1.73 | 1.06 | 212 | 0.965 | 0.93 | 0.544 | 0.543 | | 1.78 | **2.44** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.51 | 131.09 | 1.70 | 232.36 | 2.77 | 1.19% | 1.201 | 0.53 | 200.76 | 1.73 | 1.06 | 212 | 0.967 | 0.93 | 0.546 | 0.543 | | 1.78 | **2.45** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.59 | 130.20 | 1.70 | 233.04 | 2.45 | 1.05% | 1.059 | 0.52 | 200.87 | 1.69 | 1.03 | 206 | 0.899 | 0.93 | 0.549 | 0.544 | | 1.65 | **2.27** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.63 | 128.29 | 1.70 | 232.55 | 1.89 | 0.81% | 0.819 | 0.50 | 200.21 | 1.61 | 1.00 | 200 | 0.824 | 0.93 | 0.550 | 0.544 | | 1.52 | **2.09** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.72 | 128.72 | 1.71 | 228.84 | 2.01 | 0.88% | 0.885 | 0.50 | 196.48 | 1.64 | 1.00 | 199 | 0.817 | 0.93 | 0.553 | 0.544 | | 1.50 | **2.07** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.77 | 128.93 | 1.71 | 226.01 | 2.08 | 0.92% | 0.927 | 0.51 | 193.75 | 1.66 | 1.01 | 202 | 0.847 | 0.93 | 0.554 | 0.544 | | 1.56 | **2.14** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.84 | 129.06 | 1.72 | 218.29 | 2.14 | 0.98% | 0.988 | 0.52 | 186.70 | 1.69 | 1.03 | 203 | 0.859 | 0.93 | 0.557 | 0.544 | | 1.58 | **2.17** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.92 | 128.83 | 1.72 | 205.01 | 2.12 | 1.03% | 1.043 | 0.53 | 174.85 | 1.73 | 1.06 | 195 | 0.766 | 0.93 | 0.559 | 0.545 | | 1.41 | **1.94** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 27.99 | 128.39 | 1.73 | 190.06 | 2.05 | 1.08% | 1.088 | 0.54 | 161.66 | 1.76 | 1.08 | 184 | 0.662 | 0.93 | 0.561 | 0.545 | | 1.21 | **1.67** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 28.03 | 128.19 | 1.73 | 185.96 | 2.01 | 1.08% | 1.091 | 0.54 | 157.96 | 1.77 | 1.09 | 181 | 0.631 | 0.93 | 0.563 | 0.545 | | 1.16 | **1.59** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 28.10 | 127.92 | 1.73 | 176.29 | 1.97 | 1.12% | 1.129 | 0.55 | 149.38 | 1.80 | 1.11 | 174 | 0.572 | 0.93 | 0.565 | 0.545 | | 1.05 | **1.44** | | 0.000 | 0.000 | 0.000 | 3.975 | 0.000 | | |
| 28.16 | 127.57 | 1.74 | 163.69 | 1.92 | 1.17% | 1.186 | 0.56 | 138.36 | 1.84 | 1.14 | 166 | 0.502 | 0.93 | 0.567 | 0.546 | | 0.92 | **1.27** | <= | 0.254 | 0.002 | 0.000 | 3.975 | 0.000 | 28.10 | 28.16 |
| 28.22 | 127.15 | 1.74 | 154.71 | 1.85 | 1.20% | 1.209 | 0.57 | 130.47 | 1.86 | 1.16 | 159 | 0.453 | 0.93 | 0.568 | 0.546 | | 0.83 | **1.14** | <= | 0.338 | 0.002 | 0.000 | 3.974 | 0.000 | 28.16 | 28.22 |
| 28.28 | 126.53 | 1.74 | 144.94 | 1.74 | 1.20% | 1.215 | 0.57 | 121.93 | 1.89 | 1.18 | 151 | 0.400 | 0.93 | 0.570 | 0.546 | | 0.73 | **1.01** | <= | 0.435 | 0.003 | 0.000 | 3.971 | 0.000 | 28.22 | 28.28 |
| 28.36 | 125.71 | 1.75 | 129.31 | 1.61 | 1.25% | 1.262 | 0.59 | 108.38 | 1.93 | 1.22 | 139 | 0.332 | 0.93 | 0.573 | 0.546 | | 0.61 | **0.84** | <= | 1.057 | 0.010 | 0.000 | 3.968 | 0.000 | 28.28 | 28.36 |
| 28.43 | 125.46 | 1.75 | 118.67 | 1.61 | 1.36% | 1.377 | 0.60 | 99.15 | 1.99 | 1.29 | 134 | 0.304 | 0.93 | 0.575 | 0.547 | | 0.56 | **0.76** | <= | 1.646 | 0.014 | 0.000 | 3.958 | 0.000 | 28.36 | 28.43 |
| 28.48 | 125.28 | 1.76 | 107.05 | 1.62 | 1.51% | 1.539 | 0.62 | 89.18 | 2.06 | 1.38 | 129 | 0.280 | 0.93 | 0.577 | 0.547 | | 0.51 | **0.71** | <= | 1.427 | 0.009 | 0.000 | 3.944 | 0.000 | 28.43 | 28.48 |
| 28.56 | 124.82 | 1.76 | 94.06 | 1.59 | 1.69% | 1.723 | 0.65 | 78.01 | 2.13 | 1.52 | 124 | 0.257 | 0.93 | 0.579 | 0.547 | | 0.47 | **0.65** | <= | 1.941 | 0.019 | 0.000 | 3.936 | 0.000 | 28.48 | 28.56 |
| 28.61 | 124.65 | 1.77 | 81.65 | 1.63 | 2.00% | 2.040 | 0.68 | 67.43 | 2.23 | 1.74 | 123 | 0.252 | 0.93 | 0.581 | 0.547 | | 0.46 | **0.63** | <= | 1.956 | 0.012 | 0.000 | 3.917 | 0.000 | 28.56 | 28.61 |
| 28.70 | 123.94 | 1.77 | 63.09 | 1.61 | 2.55% | 2.626 | 0.73 | 51.64 | 2.39 | 2.28 | 122 | 0.249 | 0.93 | 0.583 | 0.547 | | 0.45 | **0.63** | <= | 1.965 | 0.021 | 0.000 | 3.905 | 0.000 | 28.61 | 28.70 |
| 28.74 | 123.53 | 1.77 | 57.62 | 1.57 | 2.72% | 2.811 | 0.74 | 46.98 | 2.44 | 2.49 | 121 | 0.246 | 0.93 | 0.585 | 0.548 | | 0.45 | **0.62** | <= | 1.975 | 0.009 | 0.000 | 3.884 | 0.000 | 28.70 | 28.74 |
| 28.84 | 123.10 | 1.78 | 48.54 | 1.57 | 3.23% | 3.358 | 0.77 | 39.24 | 2.55 | 3.05 | 124 | 0.255 | 0.93 | 0.588 | 0.548 | | 0.47 | **0.64** | <= | 1.945 | 0.023 | 0.000 | 3.874 | 0.000 | 28.74 | 28.84 |
| 28.88 | 123.12 | 1.78 | 47.27 | 1.58 | 3.34% | 3.473 | 0.78 | 38.13 | 2.57 | 3.16 | 124 | 0.259 | 0.93 | 0.589 | 0.548 | | 0.47 | **0.65** | <= | 1.935 | 0.009 | 0.000 | 3.851 | 0.000 | 28.84 | 28.88 |
| 28.97 | 122.96 | 1.79 | 44.73 | 1.58 | 3.53% | 3.679 | 0.79 | 35.91 | 2.61 | 3.38 | 125 | 0.262 | 0.93 | 0.592 | 0.548 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.01 | 122.73 | 1.79 | 42.00 | 1.56 | 3.71% | 3.880 | 0.80 | 33.59 | 2.65 | 3.62 | 125 | 0.262 | 0.93 | 0.593 | 0.549 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.10 | 121.97 | 1.80 | 35.94 | 1.48 | 4.12% | 4.335 | 0.83 | 28.46 | 2.73 | 4.24 | 140 | 0.335 | 0.93 | 0.596 | 0.549 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.14 | 121.65 | 1.80 | 34.18 | 1.44 | 4.21% | 4.447 | 0.84 | 26.97 | 2.76 | 4.44 | 146 | 0.372 | 0.93 | 0.597 | 0.549 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.23 | 120.97 | 1.80 | 29.30 | 1.38 | 4.71% | 5.019 | 0.86 | 22.85 | 2.85 | 5.20 | 172 | 0.551 | 0.93 | 0.600 | 0.549 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.27 | 120.82 | 1.81 | 28.62 | 1.37 | 4.79% | 5.109 | 0.87 | 22.26 | 2.86 | 5.33 | 176 | 0.586 | 0.93 | 0.601 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.37 | 120.88 | 1.81 | 28.32 | 1.38 | 4.87% | 5.206 | 0.87 | 21.95 | 2.87 | 5.42 | 179 | 0.613 | 0.93 | 0.604 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.41 | 120.95 | 1.81 | 28.81 | 1.39 | 4.82% | 5.149 | 0.87 | 22.33 | 2.86 | 5.34 | 176 | 0.589 | 0.93 | 0.606 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.47 | 121.12 | 1.82 | 30.67 | 1.39 | 4.53% | 4.818 | 0.85 | 23.84 | 2.82 | 4.97 | 164 | 0.490 | 0.93 | 0.607 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.54 | 120.96 | 1.82 | 33.01 | 1.33 | 4.03% | 4.264 | 0.84 | 25.72 | 2.76 | 4.46 | 147 | 0.376 | 0.93 | 0.610 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.63 | 120.69 | 1.83 | 36.24 | 1.24 | 3.42% | 3.603 | 0.81 | 28.32 | 2.68 | 3.85 | 127 | 0.270 | 0.93 | 0.612 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.67 | 120.63 | 1.83 | 38.29 | 1.21 | 3.16% | 3.319 | 0.80 | 29.98 | 2.64 | 3.56 | 117 | 0.230 | 0.93 | 0.614 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.842 | 0.000 | | |
| 29.73 | 120.60 | 1.83 | 43.66 | 1.15 | 2.63% | 2.749 | 0.77 | 34.34 | 2.54 | 2.96 | 105 | 0.189 | 0.93 | 0.616 | 0.551 | | 0.34 | **0.47** | <= | 2.211 | 0.016 | 0.000 | 3.842 | 0.000 | 29.67 | 29.73 |
| 29.81 | 120.30 | 1.84 | 50.10 | 1.06 | 2.12% | 2.196 | 0.74 | 39.55 | 2.42 | 2.42 | 100 | 0.172 | 0.93 | 0.618 | 0.551 | | 0.31 | **0.43** | <= | 2.313 | 0.022 | 0.000 | 3.826 | 0.000 | 29.73 | 29.81 |
| 29.88 | 120.13 | 1.84 | 55.96 | 1.00 | 1.79% | 1.848 | 0.71 | 44.27 | 2.34 | 2.07 | 96 | 0.163 | 0.93 | 0.620 | 0.552 | | 0.30 | **0.41** | <= | 2.379 | 0.020 | 0.000 | 3.804 | 0.000 | 29.81 | 29.88 |
| 29.94 | 120.02 | 1.85 | 60.46 | 0.96 | 1.59% | 1.638 | 0.69 | 47.88 | 2.28 | 1.88 | 94 | 0.158 | 0.93 | 0.622 | 0.552 | | 0.29 | **0.39** | <= | 2.415 | 0.017 | 0.000 | 3.784 | 0.000 | 29.88 | 29.94 |
| 29.99 | 119.59 | 1.85 | 62.41 | 0.89 | 1.43% | 1.470 | 0.68 | 49.42 | 2.24 | 1.76 | 92 | 0.152 | 0.93 | 0.624 | 0.552 | | 0.27 | **0.38** | <= | 2.476 | 0.015 | 0.000 | 3.766 | 0.000 | 29.94 | 29.99 |
| 30.08 | 115.70 | 1.85 | 66.22 | 0.51 | 0.77% | 0.792 | 0.62 | 52.42 | 2.05 | 1.38 | 77 | 0.122 | 0.93 | 0.626 | 0.553 | | 0.22 | **0.30** | <= | 2.851 | 0.031 | 0.000 | 3.751 | 0.000 | 29.99 | 30.08 |
| 30.12 | 116.29 | 1.86 | 67.49 | 0.55 | 0.81% | 0.838 | 0.63 | 53.40 | 2.06 | 1.39 | 79 | 0.126 | 0.93 | 0.628 | 0.553 | | 0.23 | **0.31** | <= | 2.791 | 0.013 | 0.000 | 3.721 | 0.000 | 30.08 | 30.12 |
| 30.21 | 117.33 | 1.86 | 69.25 | 0.63 | 0.91% | 0.935 | 0.63 | 54.72 | 2.08 | 1.42 | 83 | 0.132 | 0.93 | 0.631 | 0.553 | | 0.24 | **0.33** | <= | 2.691 | 0.029 | 0.000 | 3.707 | 0.000 | 30.12 | 30.21 |
| 30.28 | 117.94 | 1.87 | 69.93 | 0.69 | 0.99% | 1.014 | 0.64 | 55.18 | 2.10 | 1.45 | 85 | 0.137 | 0.93 | 0.633 | 0.553 | | 0.25 | **0.34** | <= | 2.628 | 0.022 | 0.000 | 3.678 | 0.000 | 30.21 | 30.28 |
| 30.33 | 118.35 | 1.87 | 69.25 | 0.73 | 1.05% | 1.083 | 0.64 | 54.57 | 2.12 | 1.49 | 86 | 0.140 | 0.93 | 0.634 | 0.554 | | 0.25 | **0.35** | <= | 2.596 | 0.016 | 0.000 | 3.656 | 0.000 | 30.28 | 30.33 |
| 30.42 | 118.76 | 1.87 | 67.49 | 0.78 | 1.16% | 1.189 | 0.65 | 53.03 | 2.15 | 1.56 | 88 | 0.143 | 0.93 | 0.637 | 0.554 | | 0.26 | **0.36** | <= | 2.563 | 0.028 | 0.000 | 3.641 | 0.000 | 30.33 | 30.42 |
| 30.46 | 119.07 | 1.88 | 68.56 | 0.81 | 1.18% | 1.215 | 0.65 | 53.84 | 2.15 | 1.56 | 89 | 0.146 | 0.93 | 0.638 | 0.554 | | 0.26 | **0.36** | <= | 2.530 | 0.012 | 0.000 | 3.613 | 0.000 | 30.42 | 30.46 |
| 30.51 | 119.37 | 1.88 | 68.56 | 0.84 | 1.23% | 1.260 | 0.66 | 53.78 | 2.16 | 1.58 | 90 | 0.148 | 0.93 | 0.640 | 0.554 | | 0.27 | **0.37** | <= | 2.505 | 0.015 | 0.000 | 3.601 | 0.000 | 30.46 | 30.51 |
| 30.60 | 119.92 | 1.89 | 67.68 | 0.91 | 1.34% | 1.383 | 0.67 | 52.95 | 2.19 | 1.65 | 93 | 0.154 | 0.93 | 0.643 | 0.554 | | 0.28 | **0.38** | <= | 2.451 | 0.026 | 0.000 | 3.586 | 0.000 | 30.51 | 30.60 |
| 30.65 | 120.38 | 1.89 | 67.49 | 0.97 | 1.44% | 1.479 | 0.67 | 52.74 | 2.21 | 1.70 | 95 | 0.160 | 0.93 | 0.644 | 0.554 | | 0.29 | **0.40** | <= | 2.403 | 0.014 | 0.000 | 3.559 | 0.000 | 30.60 | 30.65 |
| 30.71 | 121.04 | 1.89 | 66.51 | 1.06 | 1.59% | 1.640 | 0.68 | 51.87 | 2.25 | 1.79 | 98 | 0.169 | 0.93 | 0.646 | 0.553 | | 0.30 | **0.42** | <= | 2.336 | 0.017 | 0.000 | 3.545 | 0.000 | 30.65 | 30.71 |
| 30.78 | 121.63 | 1.90 | 65.73 | 1.16 | 1.76% | 1.817 | 0.69 | 51.16 | 2.28 | 1.89 | 102 | 0.180 | 0.92 | 0.648 | 0.553 | | 0.32 | **0.45** | <= | 2.265 | 0.019 | 0.000 | 3.528 | 0.000 | 30.71 | 30.78 |
| 30.87 | 122.06 | 1.90 | 62.61 | 1.25 | 2.00% | 2.059 | 0.71 | 48.55 | 2.33 | 2.07 | 106 | 0.190 | 0.92 | 0.651 | 0.553 | | 0.34 | **0.47** | <= | 2.204 | 0.024 | 0.000 | 3.509 | 0.000 | 30.78 | 30.87 |
| 30.91 | 122.17 | 1.90 | 62.51 | 1.27 | 2.03% | 2.096 | 0.71 | 48.42 | 2.34 | 2.09 | 107 | 0.193 | 0.92 | 0.652 | 0.553 | | 0.35 | **0.48** | <= | 2.191 | 0.011 | 0.000 | 3.485 | 0.000 | 30.87 | 30.91 |
| 31.00 | 122.43 | 1.91 | 62.51 | 1.31 | 2.10% | 2.162 | 0.71 | 48.31 | 2.35 | 2.12 | 108 | 0.198 | 0.92 | 0.655 | 0.553 | | 0.36 | **0.49** | <= | 2.166 | 0.023 | 0.000 | 3.475 | 0.000 | 30.91 | 31.00 |
| 31.04 | 122.54 | 1.91 | 62.41 | 1.33 | 2.13% | 2.198 | 0.71 | 48.18 | 2.36 | 2.14 | 109 | 0.200 | 0.92 | 0.656 | 0.553 | | 0.36 | **0.50** | <= | 2.153 | 0.010 | 0.000 | 3.451 | 0.000 | 31.00 | 31.04 |
| 31.13 | 122.91 | 1.92 | 67.98 | 1.36 | 2.00% | 2.059 | 0.70 | 52.50 | 2.31 | 1.98 | 110 | 0.203 | 0.92 | 0.659 | 0.553 | | 0.37 | **0.50** | <= | 2.139 | 0.023 | 0.000 | 3.441 | 0.000 | 31.04 | 31.13 |
| 31.18 | 123.11 | 1.92 | 71.20 | 1.38 | 1.94% | 1.992 | 0.69 | 54.99 | 2.28 | 1.90 | 111 | 0.206 | 0.92 | 0.661 | 0.553 | | 0.37 | **0.51** | <= | 2.127 | 0.013 | 0.000 | 3.418 | 0.000 | 31.13 | 31.18 |
| 31.24 | 123.22 | 1.92 | 73.15 | 1.39 | 1.90% | 1.952 | 0.69 | 56.45 | 2.27 | 1.85 | 111 | 0.207 | 0.92 | 0.663 | 0.553 | | 0.37 | **0.51** | <= | 2.121 | 0.015 | 0.000 | 3.405 | 0.000 | 31.18 | 31.24 |
| 31.32 | 123.14 | 1.93 | 74.42 | 1.37 | 1.84% | 1.890 | 0.68 | 57.35 | 2.25 | 1.81 | 110 | 0.205 | 0.92 | 0.665 | 0.553 | | 0.37 | **0.51** | <= | 2.132 | 0.020 | 0.000 | 3.390 | 0.000 | 31.24 | 31.32 |
| 31.36 | 123.18 | 1.93 | 75.11 | 1.37 | 1.82% | 1.872 | 0.68 | 57.84 | 2.25 | 1.79 | 110 | 0.205 | 0.92 | 0.666 | 0.553 | | 0.37 | **0.51** | <= | 2.132 | 0.010 | 0.000 | 3.369 | 0.000 | 31.32 | 31.36 |
| 31.43 | 123.26 | 1.94 | 75.69 | 1.38 | 1.82% | 1.871 | 0.68 | 58.19 | 2.25 | 1.79 | 111 | 0.206 | 0.92 | 0.669 | 0.553 | | 0.37 | **0.51** | <= | 2.126 | 0.018 | 0.000 | 3.359 | 0.000 | 31.36 | 31.43 |
| 31.52 | 123.37 | 1.94 | 76.87 | 1.39 | 1.81% | 1.855 | 0.68 | 58.99 | 2.24 | 1.77 | 111 | 0.207 | 0.92 | 0.671 | 0.553 | | 0.37 | **0.52** | <= | 2.120 | 0.023 | 0.000 | 3.341 | 0.000 | 31.43 | 31.52 |
| 31.58 | 123.52 | 1.95 | 77.65 | 1.42 | 1.83% | 1.876 | 0.68 | 59.52 | 2.24 | 1.77 | 112 | 0.211 | 0.92 | 0.673 | 0.553 | | 0.38 | **0.52** | <= | 2.104 | 0.015 | 0.000 | 3.318 | 0.000 | 31.52 | 31.58 |
| 31.64 | 123.64 | 1.95 | 78.43 | 1.44 | 1.84% | 1.883 | 0.68 | 60.04 | 2.24 | 1.76 | 113 | 0.213 | 0.92 | 0.675 | 0.553 | | 0.39 | **0.53** | <= | 2.093 | 0.015 | 0.000 | 3.303 | 0.000 | 31.58 | 31.64 |
| 31.71 | 123.73 | 1.95 | 78.82 | 1.45 | 1.84% | 1.886 | 0.68 | 60.24 | 2.24 | 1.76 | 113 | 0.215 | 0.92 | 0.677 | 0.553 | | 0.39 | **0.53** | <= | 2.088 | 0.018 | 0.000 | 3.288 | 0.000 | 31.64 | 31.71 |
| 31.77 | 123.74 | 1.96 | 79.11 | 1.45 | 1.83% | 1.879 | 0.68 | 60.38 | 2.23 | 1.75 | 113 | 0.215 | 0.92 | 0.679 | 0.553 | | 0.39 | **0.53** | <= | 2.089 | 0.015 | 0.000 | 3.271 | 0.000 | 31.71 | 31.77 |
| 31.84 | 123.84 | 1.96 | 79.60 | 1.47 | 1.85% | 1.893 | 0.68 | 60.66 | 2.23 | 1.75 | 114 | 0.217 | 0.92 | 0.681 | 0.553 | | 0.39 | **0.54** | <= | 2.079 | 0.017 | 0.000 | 3.256 | 0.000 | 31.77 | 31.84 |
| 31.90 | 123.88 | 1.97 | 79.60 | 1.48 | 1.86% | 1.906 | 0.68 | 60.57 | 2.24 | 1.76 | 114 | 0.218 | 0.92 | 0.683 | 0.553 | | 0.39 | **0.54** | <= | 2.075 | 0.015 | 0.000 | 3.238 | 0.000 | 31.84 | 31.90 |
| 31.98 | 124.07 | 1.97 | 80.09 | 1.51 | 1.89% | 1.933 | 0.68 | 60.83 | 2.24 | 1.77 | 115 | 0.222 | 0.91 | 0.686 | 0.553 | | 0.40 | **0.55** | <= | 2.060 | 0.020 | 0.000 | 3.223 | 0.000 | 31.90 | 31.98 |
| 32.03 | 124.24 | 1.97 | 80.87 | 1.54 | 1.90% | 1.952 | 0.68 | 61.36 | 2.24 | 1.77 | 116 | 0.225 | 0.91 | 0.687 | 0.553 | | 0.41 | **0.56** | <= | 2.045 | 0.012 | 0.000 | 3.203 | 0.000 | 31.98 | 32.03 |
| 32.11 | 122.05 | 1.98 | 82.14 | 1.14 | 1.39% | 1.422 | 0.65 | 62.23 | 2.14 | 1.54 | 103 | 0.181 | 0.91 | 0.690 | 0.553 | | 0.33 | **0.45** | <= | 2.253 | 0.022 | 0.000 | 3.191 | 0.000 | 32.03 | 32.11 |
| 32.21 | 120.72 | 1.98 | 84.78 | 0.94 | 1.11% | 1.135 | 0.63 | 64.13 | 2.07 | 1.40 | 97 | 0.166 | 0.91 | 0.693 | 0.553 | | 0.30 | **0.41** | <= | 2.359 | 0.028 | 0.000 | 3.169 | 0.000 | 32.11 | 32.21 |
| 32.25 | 121.43 | 1.99 | 86.14 | 1.03 | 1.20% | 1.224 | 0.63 | 65.12 | 2.08 | 1.43 | 101 | 0.174 | 0.91 | 0.694 | 0.553 | | 0.32 | **0.43** | <= | 2.297 | 0.011 | 0.000 | 3.141 | 0.000 | 32.21 | 32.25 |
| 32.29 | 122.08 | 1.99 | 87.41 | 1.12 | 1.28% | 1.311 | 0.64 | 66.04 | 2.10 | 1.45 | 104 | 0.184 | 0.91 | 0.695 | 0.553 | | 0.33 | **0.46** | <= | 2.240 | 0.011 | 0.000 | 3.130 | 0.000 | 32.25 | 32.29 |
| 32.37 | 122.89 | 1.99 | 89.95 | 1.24 | 1.38% | 1.410 | 0.64 | 67.87 | 2.11 | 1.47 | 108 | 0.197 | 0.91 | 0.698 | 0.553 | | 0.36 | **0.49** | <= | 2.167 | 0.021 | 0.000 | 3.119 | 0.000 | 32.29 | 32.37 |
| 32.42 | 123.20 | 2.00 | 91.03 | 1.29 | 1.42% | 1.449 | 0.64 | 68.62 | 2.11 | 1.48 | 110 | 0.203 | 0.91 | 0.700 | 0.553 | | 0.37 | **0.51** | <= | 2.139 | 0.013 | 0.000 | 3.099 | 0.000 | 32.37 | 32.42 |
| 32.50 | 123.21 | 2.00 | 92.20 | 1.28 | 1.39% | 1.419 | 0.64 | 69.39 | 2.10 | 1.46 | 110 | 0.203 | 0.91 | 0.702 | 0.552 | | 0.37 | **0.51** | <= | 2.139 | 0.021 | 0.000 | 3.086 | 0.000 | 32.42 | 32.50 |
| 32.55 | 123.06 | 2.00 | 94.15 | 1.25 | 1.33% | 1.357 | 0.63 | 70.81 | 2.08 | 1.42 | 110 | 0.202 | 0.91 | 0.704 | 0.552 | | 0.37 | **0.50** | <= | 2.143 | 0.013 | 0.000 | 3.065 | 0.000 | 32.50 | 32.55 |
| 32.63 | 123.13 | 2.01 | 93.37 | 1.26 | 1.35% | 1.379 | 0.64 | 70.07 | 2.09 | 1.44 | 109 | 0.202 | 0.91 | 0.706 | 0.552 | | 0.37 | **0.50** | <= | 2.144 | 0.021 | 0.000 | 3.052 | 0.000 | 32.55 | 32.63 |
| 32.72 | 123.42 | 2.02 | 89.66 | 1.33 | 1.48% | 1.517 | 0.65 | 67.08 | 2.13 | 1.52 | 110 | 0.205 | 0.91 | 0.709 | 0.552 | | 0.37 | **0.51** | <= | 2.130 | 0.023 | 0.000 | 3.032 | 0.000 | 32.63 | 32.72 |
| 32.76 | 123.71 | 2.02 | 84.00 | 1.42 | 1.69% | 1.732 | 0.67 | 62.69 | 2.19 | 1.65 | 112 | 0.210 | 0.91 | 0.710 | 0.552 | | 0.38 | **0.52** | <= | 2.107 | 0.010 | 0.000 | 3.009 | 0.000 | 32.72 | 32.76 |
| 32.85 | 124.12 | 2.02 | 75.89 | 1.55 | 2.04% | 2.098 | 0.69 | 56.36 | 2.29 | 1.91 | 115 | 0.223 | 0.91 | 0.713 | 0.552 | | 0.40 | **0.55** | <= | 2.056 | 0.022 | 0.000 | 2.999 | 0.000 | 32.76 | 32.85 |
| 32.89 | 123.97 | 2.03 | 70.42 | 1.56 | 2.22% | 2.281 | 0.71 | 52.14 | 2.34 | 2.07 | 116 | 0.224 | 0.91 | 0.714 | 0.552 | | 0.41 | **0.56** | <= | 2.052 | 0.010 | 0.000 | 2.976 | 0.000 | 32.85 | 32.89 |
| 32.94 | 123.70 | 2.03 | 63.09 | 1.56 | 2.47% | 2.555 | 0.73 | 46.49 | 2.41 | 2.35 | 116 | 0.226 | 0.91 | 0.716 | 0.552 | | 0.41 | **0.56** | <= | 2.044 | 0.012 | 0.000 | 2.967 | 0.000 | 32.89 | 32.94 |
| 33.03 | 123.45 | 2.03 | 57.14 | 1.56 | 2.73% | 2.831 | 0.75 | 41.87 | 2.47 | 2.64 | 117 | 0.229 | 0.91 | 0.719 | 0.552 | | 0.42 | **0.57** | <= | 2.031 | 0.022 | 0.000 | 2.954 | 0.000 | 32.94 | 33.03 |
| 33.07 | 123.29 | 2.04 | 53.82 | 1.55 | 2.88% | 2.993 | 0.76 | 39.31 | 2.51 | 2.82 | 117 | 0.230 | 0.91 | 0.720 | 0.552 | | 0.42 | **0.57** | <= | 2.027 | 0.010 | 0.000 | 2.932 | 0.000 | 33.03 | 33.07 |
| 33.16 | 122.94 | 2.04 | 50.40 | 1.51 | 3.00% | 3.123 | 0.77 | 36.63 | 2.55 | 3.01 | 117 | 0.227 | 0.91 | 0.723 | 0.552 | | 0.41 | **0.57** | <= | 2.038 | 0.022 | 0.000 | 2.923 | 0.000 | 33.07 | 33.16 |
| 33.21 | 122.71 | 2.05 | 50.40 | 1.47 | 2.92% | 3.040 | 0.77 | 36.59 | 2.54 | 2.97 | 115 | 0.221 | 0.90 | 0.724 | 0.552 | | 0.40 | **0.55** | <= | 2.063 | 0.012 | 0.000 | 2.901 | 0.000 | 33.16 | 33.21 |
| 33.30 | 122.00 | 2.05 | 50.40 | 1.33 | 2.64% | 2.751 | 0.76 | 36.51 | 2.51 | 2.82 | 109 | 0.200 | 0.90 | 0.727 | 0.552 | | 0.36 | **0.50** | <= | 2.152 | 0.023 | 0.000 | 2.888 | 0.000 | 33.21 | 33.30 |
| 33.34 | 121.76 | 2.05 | 50.50 | 1.29 | 2.55% | 2.663 | 0.76 | 36.55 | 2.50 | 2.77 | 107 | 0.195 | 0.90 | 0.728 | 0.552 | | 0.35 | **0.49** | <= | 2.181 | 0.010 | 0.000 | 2.865 | 0.000 | 33.30 | 33.34 |
| 33.43 | 121.48 | 2.06 | 51.67 | 1.23 | 2.38% | 2.479 | 0.75 | 37.36 | 2.47 | 2.63 | 104 | 0.186 | 0.90 | 0.731 | 0.552 | | 0.34 | **0.46** | <= | 2.229 | 0.024 | 0.000 | 2.855 | 0.000 | 33.34 | 33.43 |
| 33.48 | 121.44 | 2.06 | 52.64 | 1.21 | 2.30% | 2.392 | 0.74 | 38.04 | 2.45 | 2.55 | 103 | 0.182 | 0.90 | 0.733 | 0.552 | | 0.33 | **0.46** | <= | 2.248 | 0.013 | 0.000 | 2.830 | 0.000 | 33.43 | 33.48 |
| 33.56 | 121.36 | 2.07 | 53.03 | 1.20 | 2.26% | 2.355 | 0.74 | 38.26 | 2.45 | 2.52 | 103 | 0.181 | 0.90 | 0.735 | 0.551 | | 0.33 | **0.45** | <= | 2.257 | 0.022 | 0.000 | 2.817 | 0.000 | 33.48 | 33.56 |
| 33.61 | 121.30 | 2.07 | 51.96 | 1.20 | 2.31% | 2.405 | 0.75 | 37.42 | 2.46 | 2.58 | 103 | 0.181 | 0.90 | 0.737 | 0.551 | | 0.33 | **0.45** | <= | 2.255 | 0.014 | 0.000 | 2.795 | 0.000 | 33.56 | 33.61 |
| 33.70 | 121.13 | 2.08 | 48.35 | 1.20 | 2.48% | 2.593 | 0.76 | 34.64 | 2.51 | 2.82 | 104 | 0.183 | 0.90 | 0.739 | 0.551 | | 0.33 | **0.46** | <= | 2.243 | 0.024 | 0.000 | 2.782 | 0.000 | 33.61 | 33.70 |
| 33.74 | 121.20 | 2.08 | 45.61 | 1.23 | 2.70% | 2.825 | 0.77 | 32.56 | 2.56 | 3.06 | 106 | 0.189 | 0.90 | 0.741 | 0.551 | | 0.34 | **0.47** | <= | 2.209 | 0.011 | 0.000 | 2.758 | 0.000 | 33.70 | 33.74 |
| 33.82 | 121.35 | 2.08 | 39.46 | 1.32 | 3.35% | 3.532 | 0.81 | 27.90 | 2.67 | 3.80 | 125 | 0.263 | 0.90 | 0.743 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 33.88 | 120.76 | 2.09 | 34.28 | 1.28 | 3.73% | 3.976 | 0.84 | 24.00 | 2.76 | 4.43 | 146 | 0.371 | 0.90 | 0.745 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 33.97 | 119.64 | 2.09 | 28.13 | 1.17 | 4.16% | 4.493 | 0.87 | 19.38 | 2.86 | 5.36 | 177 | 0.595 | 0.90 | 0.748 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.01 | 119.63 | 2.09 | 28.13 | 1.17 | 4.16% | 4.494 | 0.87 | 19.36 | 2.87 | 5.36 | 177 | 0.596 | 0.90 | 0.749 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.06 | 119.65 | 2.10 | 28.13 | 1.17 | 4.16% | 4.494 | 0.87 | 19.33 | 2.87 | 5.37 | 177 | 0.597 | 0.90 | 0.751 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.13 | 119.42 | 2.10 | 28.13 | 1.14 | 4.05% | 4.380 | 0.87 | 19.30 | 2.86 | 5.30 | 175 | 0.578 | 0.90 | 0.753 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.19 | 119.34 | 2.10 | 32.43 | 1.07 | 3.30% | 3.528 | 0.83 | 22.46 | 2.74 | 4.33 | 143 | 0.352 | 0.90 | 0.755 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.29 | 119.68 | 2.11 | 37.31 | 1.07 | 2.87% | 3.040 | 0.80 | 26.02 | 2.65 | 3.66 | 121 | 0.243 | 0.90 | 0.758 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.33 | 119.64 | 2.11 | 36.72 | 1.07 | 2.91% | 3.092 | 0.81 | 25.56 | 2.66 | 3.73 | 123 | 0.253 | 0.90 | 0.759 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.40 | 119.47 | 2.12 | 33.99 | 1.07 | 3.15% | 3.357 | 0.82 | 23.50 | 2.71 | 4.10 | 135 | 0.311 | 0.90 | 0.761 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.45 | 119.47 | 2.12 | 31.74 | 1.10 | 3.47% | 3.714 | 0.84 | 21.82 | 2.77 | 4.52 | 149 | 0.390 | 0.89 | 0.763 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.54 | 119.69 | 2.13 | 32.23 | 1.13 | 3.51% | 3.754 | 0.84 | 22.13 | 2.77 | 4.51 | 149 | 0.387 | 0.89 | 0.766 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.60 | 119.81 | 2.13 | 32.52 | 1.14 | 3.51% | 3.751 | 0.84 | 22.32 | 2.76 | 4.49 | 148 | 0.382 | 0.89 | 0.768 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.68 | 119.99 | 2.13 | 32.72 | 1.17 | 3.58% | 3.825 | 0.84 | 22.42 | 2.77 | 4.52 | 149 | 0.388 | 0.89 | 0.770 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.71 | 119.91 | 2.14 | 32.72 | 1.16 | 3.55% | 3.793 | 0.84 | 22.41 | 2.77 | 4.50 | 148 | 0.384 | 0.89 | 0.771 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.81 | 119.72 | 2.14 | 33.89 | 1.11 | 3.28% | 3.496 | 0.83 | 23.21 | 2.73 | 4.22 | 139 | 0.331 | 0.89 | 0.774 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.85 | 119.71 | 2.14 | 34.87 | 1.10 | 3.15% | 3.361 | 0.82 | 23.90 | 2.71 | 4.06 | 134 | 0.303 | 0.89 | 0.775 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.95 | 120.05 | 2.15 | 39.85 | 1.10 | 2.76% | 2.918 | 0.79 | 27.48 | 2.62 | 3.45 | 114 | 0.217 | 0.89 | 0.778 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 34.99 | 119.92 | 2.15 | 40.73 | 1.08 | 2.65% | 2.800 | 0.79 | 28.10 | 2.60 | 3.33 | 110 | 0.203 | 0.89 | 0.780 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.05 | 120.44 | 2.16 | 40.73 | 1.15 | 2.82% | 2.981 | 0.79 | 28.06 | 2.62 | 3.44 | 114 | 0.217 | 0.89 | 0.782 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.11 | 120.32 | 2.16 | 35.16 | 1.19 | 3.38% | 3.606 | 0.83 | 23.97 | 2.73 | 4.20 | 139 | 0.328 | 0.89 | 0.783 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.21 | 120.46 | 2.17 | 35.26 | 1.22 | 3.46% | 3.686 | 0.83 | 23.99 | 2.73 | 4.25 | 140 | 0.336 | 0.89 | 0.787 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.26 | 120.20 | 2.17 | 32.33 | 1.21 | 3.74% | 4.012 | 0.84 | 21.84 | 2.79 | 4.70 | 155 | 0.427 | 0.89 | 0.788 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.34 | 119.73 | 2.17 | 28.13 | 1.19 | 4.23% | 4.585 | 0.87 | 18.77 | 2.88 | 5.51 | 182 | 0.638 | 0.89 | 0.791 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.39 | 119.41 | 2.18 | 26.37 | 1.16 | 4.40% | 4.795 | 0.88 | 17.47 | 2.92 | 5.87 | 194 | 0.756 | 0.89 | 0.792 | 0.549 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-2

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**Analysis Scenario:** MCE (2% exceedance probability in 50 years)

D(ft) 1 | **MAGNITUDE:** 6.62 | **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet | **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35.44 | 119.10 | 2.18 | 24.91 | 1.13 | 4.54% | 4.971 | 0.89 | 16.40 | 2.95 | 6.20 | 205 | 0.876 | 0.89 | 0.794 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.52 | 118.34 | 2.18 | 22.76 | 1.05 | 4.61% | 5.103 | 0.91 | 14.82 | 2.99 | 6.65 | 219 | 1.062 | 0.89 | 0.796 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.57 | 117.90 | 2.19 | 21.10 | 1.02 | 4.83% | 5.393 | 0.92 | 13.61 | 3.04 | 7.16 | 236 | 1.306 | 0.89 | 0.798 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.63 | 117.25 | 2.19 | 19.63 | 0.95 | 4.84% | 5.448 | 0.93 | 12.53 | 3.07 | 7.53 | 248 | 1.505 | 0.89 | 0.800 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.70 | 116.04 | 2.20 | 17.09 | 0.85 | 4.97% | 5.707 | 0.95 | 10.69 | 3.14 | 8.38 | 277 | 2.049 | 0.88 | 0.802 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.83 | 114.77 | 2.20 | 17.24 | 0.71 | 4.12% | 4.722 | 0.93 | 10.77 | 3.08 | 7.68 | 254 | 1.596 | 0.88 | 0.806 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.84 | 114.73 | 2.20 | 17.24 | 0.71 | 4.12% | 4.722 | 0.93 | 10.76 | 3.08 | 7.68 | 254 | 1.596 | 0.88 | 0.806 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.91 | 114.60 | 2.21 | 17.39 | 0.69 | 3.97% | 4.545 | 0.93 | 10.86 | 3.07 | 7.52 | 248 | 1.501 | 0.88 | 0.808 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 35.97 | 114.96 | 2.21 | 20.22 | 0.69 | 3.41% | 3.831 | 0.90 | 12.86 | 2.96 | 6.31 | 208 | 0.920 | 0.88 | 0.810 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.05 | 115.13 | 2.22 | 21.78 | 0.69 | 3.17% | 3.527 | 0.88 | 13.95 | 2.91 | 5.78 | 191 | 0.726 | 0.88 | 0.813 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.10 | 115.43 | 2.22 | 22.27 | 0.71 | 3.19% | 3.541 | 0.88 | 14.29 | 2.90 | 5.71 | 188 | 0.702 | 0.88 | 0.814 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.16 | 115.79 | 2.22 | 21.98 | 0.75 | 3.41% | 3.796 | 0.89 | 14.06 | 2.93 | 5.95 | 197 | 0.786 | 0.88 | 0.816 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.24 | 116.46 | 2.23 | 24.42 | 0.80 | 3.28% | 3.605 | 0.87 | 15.77 | 2.87 | 5.42 | 179 | 0.612 | 0.88 | 0.819 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.32 | 117.49 | 2.23 | 31.74 | 0.84 | 2.65% | 2.847 | 0.82 | 20.93 | 2.71 | 4.04 | 133 | 0.300 | 0.88 | 0.821 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.37 | 118.46 | 2.23 | 35.45 | 0.92 | 2.60% | 2.770 | 0.81 | 23.54 | 2.66 | 3.69 | 122 | 0.248 | 0.88 | 0.823 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.42 | 119.16 | 2.24 | 35.45 | 1.02 | 2.88% | 3.071 | 0.81 | 23.51 | 2.69 | 3.90 | 129 | 0.278 | 0.88 | 0.824 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.50 | 120.11 | 2.24 | 33.99 | 1.17 | 3.44% | 3.685 | 0.83 | 22.44 | 2.75 | 4.41 | 146 | 0.367 | 0.88 | 0.827 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.55 | 120.43 | 2.24 | 32.91 | 1.24 | 3.77% | 4.044 | 0.85 | 21.65 | 2.79 | 4.73 | 156 | 0.434 | 0.88 | 0.828 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.63 | 120.36 | 2.25 | 33.21 | 1.22 | 3.67% | 3.940 | 0.84 | 21.83 | 2.78 | 4.65 | 153 | 0.415 | 0.88 | 0.831 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.68 | 119.42 | 2.25 | 34.48 | 1.06 | 3.07% | 3.289 | 0.82 | 22.70 | 2.72 | 4.13 | 136 | 0.315 | 0.88 | 0.832 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.747 | 0.000 | | |
| 36.77 | 117.86 | 2.26 | 37.60 | 0.83 | 2.21% | 2.348 | 0.79 | 24.85 | 2.59 | 3.27 | 108 | 0.197 | 0.88 | 0.835 | 0.548 | | 0.36 | 0.50 | <= | 2.167 | 0.023 | 0.000 | 2.747 | 0.000 | 36.68 | 36.77 |
| 36.81 | 118.26 | 2.26 | 36.72 | 0.89 | 2.42% | 2.583 | 0.80 | 24.21 | 2.63 | 3.49 | 115 | 0.223 | 0.88 | 0.836 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.724 | 0.000 | | |
| 36.89 | 118.69 | 2.26 | 35.26 | 0.95 | 2.69% | 2.879 | 0.81 | 23.14 | 2.67 | 3.80 | 126 | 0.264 | 0.88 | 0.839 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.724 | 0.000 | | |
| 36.95 | 119.65 | 2.27 | 43.07 | 1.02 | 2.37% | 2.500 | 0.78 | 28.58 | 2.56 | 3.09 | 102 | 0.178 | 0.87 | 0.841 | 0.547 | | 0.33 | 0.45 | <= | 2.273 | 0.016 | 0.000 | 2.724 | 0.000 | 36.89 | 36.95 |
| 37.01 | 120.50 | 2.27 | 57.92 | 1.03 | 1.78% | 1.851 | 0.72 | 38.93 | 2.37 | 2.18 | 93 | 0.155 | 0.87 | 0.843 | 0.547 | | 0.28 | 0.39 | <= | 2.448 | 0.018 | 0.000 | 2.707 | 0.000 | 36.95 | 37.01 |
| 37.08 | 121.33 | 2.28 | 78.33 | 1.05 | 1.34% | 1.381 | 0.66 | 53.13 | 2.18 | 1.61 | 95 | 0.160 | 0.87 | 0.845 | 0.547 | | 0.29 | 0.40 | <= | 2.399 | 0.020 | 0.000 | 2.690 | 0.000 | 37.01 | 37.08 |
| 37.17 | 121.52 | 2.28 | 87.51 | 1.04 | 1.19% | 1.220 | 0.64 | 59.43 | 2.10 | 1.46 | 97 | 0.166 | 0.87 | 0.848 | 0.547 | | 0.30 | 0.42 | <= | 2.359 | 0.025 | 0.000 | 2.669 | 0.000 | 37.08 | 37.17 |
| 37.21 | 121.48 | 2.28 | 85.85 | 1.04 | 1.21% | 1.245 | 0.64 | 58.22 | 2.11 | 1.48 | 97 | 0.164 | 0.87 | 0.849 | 0.547 | | 0.30 | 0.41 | <= | 2.370 | 0.011 | 0.000 | 2.644 | 0.000 | 37.17 | 37.21 |
| 37.29 | 121.24 | 2.29 | 77.55 | 1.04 | 1.34% | 1.382 | 0.66 | 52.35 | 2.18 | 1.62 | 95 | 0.159 | 0.87 | 0.851 | 0.547 | | 0.29 | 0.40 | <= | 2.413 | 0.023 | 0.000 | 2.633 | 0.000 | 37.21 | 37.29 |
| 37.35 | 121.15 | 2.29 | 69.54 | 1.06 | 1.52% | 1.576 | 0.69 | 46.72 | 2.26 | 1.82 | 94 | 0.157 | 0.87 | 0.853 | 0.547 | | 0.29 | 0.40 | <= | 2.423 | 0.017 | 0.000 | 2.609 | 0.000 | 37.29 | 37.35 |
| 37.42 | 121.75 | 2.30 | 62.80 | 1.20 | 1.91% | 1.983 | 0.72 | 41.97 | 2.36 | 2.15 | 99 | 0.171 | 0.87 | 0.856 | 0.547 | | 0.31 | 0.43 | <= | 2.321 | 0.020 | 0.000 | 2.592 | 0.000 | 37.35 | 37.42 |
| 37.48 | 121.98 | 2.30 | 53.91 | 1.30 | 2.41% | 2.519 | 0.75 | 35.76 | 2.48 | 2.69 | 104 | 0.185 | 0.87 | 0.857 | 0.547 | | 0.34 | 0.47 | <= | 2.232 | 0.016 | 0.000 | 2.572 | 0.000 | 37.42 | 37.48 |
| 37.54 | 121.87 | 2.30 | 45.51 | 1.35 | 2.97% | 3.125 | 0.79 | 29.90 | 2.61 | 3.37 | 111 | 0.208 | 0.87 | 0.859 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 37.61 | 121.67 | 2.31 | 38.97 | 1.39 | 3.57% | 3.791 | 0.82 | 25.34 | 2.72 | 4.15 | 137 | 0.319 | 0.87 | 0.861 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 37.70 | 121.20 | 2.31 | 30.77 | 1.41 | 4.58% | 4.955 | 0.87 | 19.63 | 2.89 | 5.56 | 184 | 0.655 | 0.87 | 0.864 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 37.75 | 120.64 | 2.32 | 26.57 | 1.37 | 5.16% | 5.649 | 0.90 | 16.71 | 2.98 | 6.51 | 215 | 1.003 | 0.87 | 0.866 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 37.80 | 119.97 | 2.32 | 23.34 | 1.30 | 5.57% | 6.185 | 0.92 | 14.47 | 3.05 | 7.37 | 243 | 1.417 | 0.87 | 0.867 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 37.86 | 118.40 | 2.32 | 16.60 | 1.18 | 7.11% | 8.265 | 0.99 | 9.82 | 3.27 | 10.28 | 339 | 3.710 | 0.87 | 0.869 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 37.93 | 118.19 | 2.33 | 21.49 | 1.05 | 4.89% | 5.479 | 0.92 | 13.16 | 3.05 | 7.33 | 242 | 1.398 | 0.87 | 0.871 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.01 | 117.04 | 2.33 | 20.71 | 0.91 | 4.39% | 4.952 | 0.92 | 12.60 | 3.04 | 7.17 | 237 | 1.311 | 0.87 | 0.874 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.06 | 116.52 | 2.34 | 20.32 | 0.85 | 4.18% | 4.726 | 0.92 | 12.32 | 3.03 | 7.11 | 235 | 1.280 | 0.87 | 0.875 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.14 | 115.93 | 2.34 | 19.73 | 0.79 | 4.00% | 4.543 | 0.92 | 11.90 | 3.03 | 7.12 | 235 | 1.287 | 0.87 | 0.878 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.19 | 115.37 | 2.34 | 18.85 | 0.75 | 3.98% | 4.543 | 0.92 | 11.28 | 3.05 | 7.34 | 242 | 1.403 | 0.86 | 0.880 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.28 | 114.32 | 2.35 | 16.90 | 0.67 | 3.96% | 4.604 | 0.94 | 9.93 | 3.10 | 7.94 | 262 | 1.753 | 0.86 | 0.882 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.33 | 113.70 | 2.35 | 15.04 | 0.64 | 4.26% | 5.044 | 0.96 | 8.65 | 3.18 | 8.91 | 294 | 2.444 | 0.86 | 0.884 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.41 | 112.72 | 2.36 | 13.87 | 0.58 | 4.18% | 5.037 | 0.97 | 7.84 | 3.21 | 9.40 | 310 | 2.852 | 0.86 | 0.886 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.46 | 112.04 | 2.36 | 13.28 | 0.53 | 3.99% | 4.853 | 0.97 | 7.43 | 3.22 | 9.53 | 314 | 2.972 | 0.86 | 0.888 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.55 | 110.70 | 2.36 | 12.11 | 0.46 | 3.80% | 4.719 | 0.98 | 6.62 | 3.25 | 10.03 | 331 | 3.454 | 0.86 | 0.891 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.59 | 110.33 | 2.37 | 12.01 | 0.44 | 3.66% | 4.562 | 0.98 | 6.55 | 3.25 | 9.96 | 329 | 3.384 | 0.86 | 0.892 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.65 | 110.65 | 2.37 | 11.92 | 0.46 | 3.86% | 4.816 | 0.99 | 6.48 | 3.27 | 10.23 | 338 | 3.658 | 0.86 | 0.894 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.73 | 110.41 | 2.37 | 12.70 | 0.43 | 3.39% | 4.164 | 0.97 | 6.99 | 3.20 | 9.27 | 306 | 2.745 | 0.86 | 0.896 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.79 | 111.85 | 2.38 | 13.38 | 0.52 | 3.89% | 4.726 | 0.97 | 7.44 | 3.21 | 9.42 | 311 | 2.872 | 0.86 | 0.898 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.86 | 113.85 | 2.38 | 14.16 | 0.67 | 4.73% | 5.688 | 0.98 | 7.96 | 3.24 | 9.79 | 323 | 3.215 | 0.86 | 0.900 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.95 | 117.73 | 2.39 | 17.78 | 1.05 | 5.91% | 6.821 | 0.97 | 10.38 | 3.20 | 9.19 | 303 | 2.675 | 0.86 | 0.903 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 38.98 | 118.79 | 2.39 | 20.32 | 1.16 | 5.71% | 6.469 | 0.95 | 12.09 | 3.13 | 8.28 | 273 | 1.980 | 0.86 | 0.904 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.06 | 121.50 | 2.39 | 28.81 | 1.50 | 5.21% | 5.678 | 0.90 | 17.78 | 2.96 | 6.30 | 208 | 0.914 | 0.86 | 0.907 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.13 | 123.41 | 2.40 | 36.92 | 1.79 | 4.85% | 5.185 | 0.86 | 23.21 | 2.84 | 5.16 | 170 | 0.539 | 0.86 | 0.909 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.21 | 125.00 | 2.40 | 41.12 | 2.14 | 5.20% | 5.527 | 0.86 | 25.98 | 2.83 | 5.01 | 165 | 0.499 | 0.86 | 0.911 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.27 | 125.69 | 2.41 | 40.73 | 2.36 | 5.79% | 6.158 | 0.87 | 25.68 | 2.86 | 5.35 | 176 | 0.591 | 0.86 | 0.913 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.32 | 125.77 | 2.41 | 39.26 | 2.42 | 6.16% | 6.567 | 0.88 | 24.67 | 2.90 | 5.66 | 187 | 0.686 | 0.86 | 0.915 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.40 | 125.81 | 2.41 | 40.58 | 2.41 | 5.94% | 6.314 | 0.87 | 25.51 | 2.87 | 5.44 | 180 | 0.618 | 0.85 | 0.917 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.44 | 125.53 | 2.42 | 38.38 | 2.36 | 6.15% | 6.562 | 0.88 | 24.02 | 2.90 | 5.74 | 190 | 0.713 | 0.85 | 0.919 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.53 | 125.06 | 2.42 | 40.44 | 2.17 | 5.37% | 5.708 | 0.86 | 25.34 | 2.84 | 5.16 | 170 | 0.540 | 0.85 | 0.921 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.57 | 124.72 | 2.42 | 40.24 | 2.08 | 5.17% | 5.500 | 0.86 | 25.18 | 2.83 | 5.08 | 168 | 0.518 | 0.85 | 0.923 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.63 | 123.75 | 2.43 | 34.67 | 1.92 | 5.54% | 5.955 | 0.88 | 21.45 | 2.91 | 5.80 | 192 | 0.734 | 0.85 | 0.924 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.71 | 122.17 | 2.43 | 27.25 | 1.67 | 6.13% | 6.729 | 0.92 | 16.48 | 3.04 | 7.14 | 236 | 1.298 | 0.85 | 0.927 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.79 | 120.32 | 2.44 | 22.46 | 1.39 | 6.19% | 6.942 | 0.94 | 13.28 | 3.12 | 8.14 | 269 | 1.882 | 0.85 | 0.929 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.84 | 119.52 | 2.44 | 20.41 | 1.28 | 6.27% | 7.123 | 0.96 | 11.90 | 3.16 | 8.72 | 288 | 2.298 | 0.85 | 0.931 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.92 | 117.89 | 2.45 | 18.17 | 1.07 | 5.89% | 6.805 | 0.97 | 10.40 | 3.19 | 9.17 | 303 | 2.658 | 0.85 | 0.934 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 39.96 | 117.39 | 2.45 | 17.78 | 1.00 | 5.62% | 6.522 | 0.97 | 10.13 | 3.19 | 9.13 | 301 | 2.620 | 0.85 | 0.935 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.05 | 109.35 | 2.45 | 17.78 | 0.33 | 1.86% | 2.153 | 0.88 | 10.12 | 2.90 | 5.66 | 187 | 0.687 | 0.85 | 0.938 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.11 | 110.56 | 2.46 | 17.29 | 0.40 | 2.31% | 2.696 | 0.90 | 9.78 | 2.96 | 6.36 | 210 | 0.940 | 0.85 | 0.939 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.20 | 111.77 | 2.46 | 17.48 | 0.47 | 2.69% | 3.129 | 0.91 | 9.89 | 3.00 | 6.73 | 222 | 1.099 | 0.85 | 0.942 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.24 | 112.17 | 2.46 | 17.09 | 0.50 | 2.93% | 3.418 | 0.92 | 9.63 | 3.03 | 7.10 | 234 | 1.279 | 0.85 | 0.943 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.32 | 112.93 | 2.47 | 16.60 | 0.56 | 3.37% | 3.963 | 0.93 | 9.29 | 3.08 | 7.73 | 255 | 1.622 | 0.85 | 0.946 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.37 | 113.31 | 2.47 | 15.43 | 0.60 | 3.89% | 4.630 | 0.96 | 8.51 | 3.16 | 8.67 | 286 | 2.258 | 0.85 | 0.948 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.42 | 113.71 | 2.47 | 15.14 | 0.64 | 4.23% | 5.053 | 0.96 | 8.31 | 3.19 | 9.11 | 301 | 2.605 | 0.85 | 0.949 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.51 | 114.02 | 2.48 | 15.53 | 0.66 | 4.25% | 5.057 | 0.96 | 8.55 | 3.18 | 8.97 | 296 | 2.492 | 0.85 | 0.952 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.55 | 114.04 | 2.48 | 15.72 | 0.66 | 4.20% | 4.985 | 0.96 | 8.67 | 3.17 | 8.85 | 292 | 2.397 | 0.85 | 0.953 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.62 | 114.20 | 2.48 | 16.12 | 0.67 | 4.16% | 4.914 | 0.96 | 8.92 | 3.16 | 8.66 | 286 | 2.251 | 0.84 | 0.955 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.71 | 113.90 | 2.49 | 16.41 | 0.64 | 3.90% | 4.598 | 0.95 | 9.09 | 3.13 | 8.33 | 275 | 2.012 | 0.84 | 0.958 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.80 | 113.99 | 2.50 | 16.60 | 0.65 | 3.92% | 4.608 | 0.95 | 9.19 | 3.13 | 8.28 | 273 | 1.980 | 0.84 | 0.961 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.82 | 114.03 | 2.50 | 16.51 | 0.65 | 3.94% | 4.638 | 0.95 | 9.13 | 3.13 | 8.34 | 275 | 2.017 | 0.84 | 0.962 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.91 | 114.17 | 2.50 | 16.51 | 0.66 | 4.00% | 4.711 | 0.95 | 9.11 | 3.14 | 8.40 | 277 | 2.062 | 0.84 | 0.964 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 40.95 | 114.24 | 2.50 | 16.41 | 0.67 | 4.08% | 4.818 | 0.95 | 9.04 | 3.15 | 8.52 | 281 | 2.147 | 0.84 | 0.966 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.04 | 114.93 | 2.51 | 17.29 | 0.72 | 4.16% | 4.871 | 0.95 | 9.60 | 3.13 | 8.28 | 273 | 1.977 | 0.84 | 0.968 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.10 | 115.71 | 2.51 | 17.87 | 0.80 | 4.48% | 5.209 | 0.95 | 9.96 | 3.13 | 8.35 | 276 | 2.025 | 0.84 | 0.970 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.16 | 116.41 | 2.52 | 18.75 | 0.86 | 4.59% | 5.297 | 0.94 | 10.52 | 3.12 | 8.16 | 269 | 1.896 | 0.84 | 0.972 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.22 | 116.64 | 2.52 | 19.63 | 0.88 | 4.48% | 5.143 | 0.94 | 11.07 | 3.09 | 7.83 | 258 | 1.682 | 0.84 | 0.974 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.31 | 117.18 | 2.52 | 21.68 | 0.91 | 4.20% | 4.751 | 0.92 | 12.38 | 3.03 | 7.09 | 234 | 1.269 | 0.84 | 0.977 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.35 | 117.51 | 2.53 | 22.95 | 0.94 | 4.10% | 4.603 | 0.91 | 13.19 | 3.00 | 6.73 | 222 | 1.099 | 0.84 | 0.978 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.41 | 117.81 | 2.53 | 23.73 | 0.96 | 4.05% | 4.528 | 0.90 | 13.67 | 2.98 | 6.54 | 216 | 1.014 | 0.84 | 0.980 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.49 | 117.62 | 2.54 | 22.66 | 0.96 | 4.24% | 4.770 | 0.91 | 12.96 | 3.01 | 6.91 | 228 | 1.184 | 0.84 | 0.982 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.55 | 117.31 | 2.54 | 20.90 | 0.94 | 4.50% | 5.119 | 0.93 | 11.81 | 3.07 | 7.53 | 248 | 1.506 | 0.84 | 0.984 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.60 | 117.05 | 2.54 | 20.12 | 0.92 | 4.57% | 5.234 | 0.93 | 11.30 | 3.09 | 7.80 | 257 | 1.664 | 0.84 | 0.986 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.68 | 116.57 | 2.55 | 18.95 | 0.88 | 4.64% | 5.365 | 0.94 | 10.53 | 3.12 | 8.20 | 271 | 1.922 | 0.84 | 0.988 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.76 | 116.08 | 2.55 | 17.58 | 0.84 | 4.78% | 5.589 | 0.96 | 9.63 | 3.16 | 8.76 | 289 | 2.329 | 0.84 | 0.991 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.80 | 115.99 | 2.55 | 17.29 | 0.84 | 4.86% | 5.700 | 0.96 | 9.44 | 3.18 | 8.94 | 295 | 2.465 | 0.84 | 0.992 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.92 | 115.92 | 2.56 | 17.29 | 0.83 | 4.80% | 5.635 | 0.96 | 9.42 | 3.17 | 8.90 | 294 | 2.439 | 0.83 | 0.996 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 41.93 | 115.91 | 2.56 | 17.48 | 0.82 | 4.69% | 5.496 | 0.96 | 9.54 | 3.16 | 8.75 | 289 | 2.318 | 0.83 | 0.996 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.02 | 116.46 | 2.57 | 18.36 | 0.87 | 4.74% | 5.508 | 0.95 | 10.08 | 3.14 | 8.50 | 280 | 2.129 | 0.83 | 0.999 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.07 | 116.77 | 2.57 | 18.85 | 0.90 | 4.77% | 5.528 | 0.95 | 10.38 | 3.13 | 8.37 | 276 | 2.041 | 0.83 | 1.001 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.14 | 116.87 | 2.57 | 18.95 | 0.91 | 4.80% | 5.557 | 0.95 | 10.43 | 3.13 | 8.37 | 276 | 2.039 | 0.83 | 1.003 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.20 | 116.99 | 2.58 | 19.24 | 0.92 | 4.78% | 5.521 | 0.95 | 10.60 | 3.13 | 8.27 | 273 | 1.971 | 0.83 | 1.005 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.29 | 117.22 | 2.58 | 19.14 | 0.96 | 5.02% | 5.798 | 0.95 | 10.52 | 3.14 | 8.49 | 280 | 2.124 | 0.83 | 1.007 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.33 | 117.58 | 2.58 | 18.85 | 1.01 | 5.36% | 6.209 | 0.96 | 10.33 | 3.17 | 8.84 | 292 | 2.386 | 0.83 | 1.009 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.43 | 118.83 | 2.59 | 18.66 | 1.20 | 6.43% | 7.467 | 0.98 | 10.18 | 3.23 | 9.65 | 318 | 3.084 | 0.83 | 1.012 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.47 | 119.48 | 2.59 | 19.05 | 1.30 | 6.82% | 7.899 | 0.98 | 10.42 | 3.24 | 9.78 | 323 | 3.202 | 0.83 | 1.013 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.52 | 119.94 | 2.60 | 20.51 | 1.35 | 6.58% | 7.536 | 0.97 | 11.33 | 3.19 | 9.17 | 303 | 2.658 | 0.83 | 1.015 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.60 | 120.56 | 2.60 | 25.78 | 1.37 | 5.31% | 5.910 | 0.92 | 14.64 | 3.03 | 7.14 | 236 | 1.295 | 0.83 | 1.017 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.66 | 121.28 | 2.60 | 34.18 | 1.37 | 4.01% | 4.339 | 0.86 | 19.92 | 2.84 | 5.11 | 169 | 0.526 | 0.83 | 1.019 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.73 | 122.21 | 2.61 | 47.47 | 1.40 | 2.95% | 3.121 | 0.79 | 28.27 | 2.62 | 3.45 | 114 | 0.217 | 0.83 | 1.021 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.556 | 0.000 | | |
| 42.82 | 123.45 | 2.61 | 76.08 | 1.41 | 1.85% | 1.919 | 0.70 | 46.21 | 2.31 | 1.97 | 103 | 0.183 | 0.83 | 1.024 | 0.536 | | 0.34 | 0.47 | <= | 2.244 | 0.024 | 0.000 | 2.556 | 0.000 | 42.73 | 42.82 |
| 42.87 | 123.22 | 2.62 | 94.84 | 1.27 | 1.34% | 1.377 | 0.65 | 57.96 | 2.13 | 1.51 | 102 | 0.179 | 0.83 | 1.026 | 0.536 | | 0.33 | 0.46 | <= | 2.271 | 0.014 | 0.000 | 2.532 | 0.000 | 42.82 | 42.87 |
| 42.93 | 121.60 | 2.62 | 110.95 | 0.97 | 0.87% | 0.895 | 0.59 | 68.00 | 1.95 | 1.24 | 101 | 0.174 | 0.83 | 1.027 | 0.535 | | 0.33 | 0.45 | <= | 2.297 | 0.017 | 0.000 | 2.518 | 0.000 | 42.87 | 42.93 |
| 43.00 | 118.83 | 2.62 | 127.07 | 0.63 | 0.50% | 0.506 | 0.53 | 78.02 | 1.75 | 1.07 | 102 | 0.180 | 0.83 | 1.030 | 0.535 | | 0.34 | 0.46 | <= | 2.264 | 0.019 | 0.000 | 2.502 | 0.000 | 42.93 | 43.00 |
| 43.05 | 120.27 | 2.63 | 135.17 | 0.76 | 0.56% | 0.573 | 0.54 | 83.03 | 1.76 | 1.08 | 109 | 0.201 | 0.83 | 1.031 | 0.535 | | 0.38 | 0.52 | <= | 2.147 | 0.013 | 0.000 | 2.483 | 0.000 | 43.00 | 43.05 |
| 43.13 | 121.81 | 2.63 | 149.14 | 0.90 | 0.60% | 0.614 | 0.53 | 91.64 | 1.74 | 1.07 | 120 | 0.239 | 0.82 | 1.034 | 0.535 | | 0.45 | 0.61 | <= | 1.907 | 0.018 | 0.000 | 2.470 | 0.000 | 43.05 | 43.13 |
| 43.18 | 122.56 | 2.64 | 155.68 | 0.99 | 0.64% | 0.647 | 0.53 | 95.64 | 1.74 | 1.06 | 125 | 0.260 | 0.82 | 1.035 | 0.535 | | 0.49 | 0.67 | <= | 1.886 | 0.011 | 0.000 | 2.452 | 0.000 | 43.13 | 43.18 |
| 43.27 | 123.57 | 2.64 | 156.17 | 1.13 | 0.72% | 0.736 | 0.54 | 95.77 | 1.77 | 1.09 | 127 | 0.271 | 0.82 | 1.038 | 0.534 | | 0.51 | 0.70 | <= | 1.898 | 0.020 | 0.000 | 2.440 | 0.000 | 43.18 | 43.27 |
| 43.32 | 124.07 | 2.64 | 172.00 | 1.17 | 0.68% | 0.691 | 0.52 | 105.54 | 1.72 | 1.05 | 137 | 0.317 | 0.82 | 1.040 | 0.534 | | 0.59 | 0.82 | <= | 1.022 | 0.006 | 0.000 | 2.420 | 0.000 | 43.27 | 43.32 |
| 43.38 | 124.50 | 2.65 | 180.69 | 1.22 | 0.68% | 0.685 | 0.52 | 110.83 | 1.70 | 1.04 | 142 | 0.346 | 0.82 | 1.041 | 0.534 | | 0.65 | 0.89 | <= | 1.194 | 0.009 | 0.000 | 2.414 | 0.000 | 43.32 | 43.38 |
| 43.45 | 124.95 | 2.65 | 186.84 | 1.29 | 0.69% | 0.700 | 0.52 | 114.50 | 1.70 | 1.04 | 146 | 0.371 | 0.82 | 1.044 | 0.534 | | 0.70 | 0.96 | <= | 0.767 | 0.006 | 0.000 | 2.405 | 0.000 | 43.38 | 43.45 |
| 43.54 | 125.60 | 2.66 | 194.46 | 1.39 | 0.71% | 0.725 | 0.52 | 119.02 | 1.69 | 1.03 | 152 | 0.406 | 0.82 | 1.046 | 0.534 | | 0.76 | 1.05 | <= | 0.503 | 0.005 | 0.000 | 2.399 | 0.000 | 43.45 | 43.54 |
| 43.58 | 125.86 | 2.66 | 198.56 | 1.43 | 0.72% | 0.730 | 0.51 | 121.47 | 1.69 | 1.03 | 155 | 0.424 | 0.82 | 1.048 | 0.533 | | 0.80 | 1.09 | <= | 0.577 | 0.003 | 0.000 | 2.393 | 0.000 | 43.54 | 43.58 |
| 43.65 | 126.28 | 2.66 | 201.69 | 1.50 | 0.74% | 0.754 | 0.52 | 123.24 | 1.69 | 1.03 | 157 | 0.443 | 0.82 | 1.050 | 0.533 | | 0.83 | 1.14 | <= | 0.341 | 0.003 | 0.000 | 2.391 | 0.000 | 43.58 | 43.65 |
| 43.71 | 126.62 | 2.67 | 204.03 | 1.57 | 0.77% | 0.780 | 0.52 | 124.53 | 1.70 | 1.04 | 160 | 0.458 | 0.82 | 1.052 | 0.533 | | 0.86 | 1.18 | <= | 0.386 | 0.003 | 0.000 | 2.388 | 0.000 | 43.65 | 43.71 |
| 43.80 | 126.95 | 2.67 | 204.91 | 1.64 | 0.80% | 0.811 | 0.52 | 124.85 | 1.71 | 1.04 | 161 | 0.469 | 0.82 | 1.055 | 0.533 | | 0.88 | 1.21 | <= | 0.211 | 0.002 | 0.000 | 2.385 | 0.000 | 43.71 | 43.80 |
| 43.85 | 127.00 | 2.68 | 204.72 | 1.65 | 0.81% | 0.817 | 0.52 | 124.61 | 1.71 | 1.04 | 161 | 0.468 | 0.82 | 1.056 | 0.533 | | 0.88 | 1.21 | <= | 0.211 | 0.001 | 0.000 | 2.383 | 0.000 | 43.80 | 43.85 |
| 43.94 | 126.99 | 2.68 | 202.66 | 1.65 | 0.81% | 0.825 | 0.52 | 123.11 | 1.72 | 1.05 | 160 | 0.460 | 0.82 | 1.059 | 0.532 | | 0.86 | 1.19 | <= | 0.391 | 0.004 | 0.000 | 2.381 | 0.000 | 43.85 | 43.94 |
| 43.97 | 126.97 | 2.69 | 201.00 | 1.65 | 0.82% | 0.832 | 0.52 | 122.02 | 1.72 | 1.05 | 159 | 0.453 | 0.82 | 1.060 | 0.532 | | 0.85 | 1.17 | <= | 0.373 | 0.001 | 0.000 | 2.377 | 0.000 | 43.94 | 43.97 |
| 44.06 | 126.72 | 2.69 | 194.66 | 1.62 | 0.83% | 0.844 | 0.53 | 117.90 | 1.74 | 1.06 | 155 | 0.425 | 0.82 | 1.063 | 0.532 | | 0.80 | 1.10 | <= | 0.295 | 0.003 | 0.000 | 2.376 | 0.000 | 43.97 | 44.06 |
| 44.12 | 126.53 | 2.69 | 188.89 | 1.59 | 0.84% | 0.854 | 0.53 | 114.22 | 1.75 | 1.07 | 151 | 0.401 | 0.82 | 1.065 | 0.532 | | 0.75 | 1.04 | <= | 0.489 | 0.004 | 0.000 | 2.373 | 0.000 | 44.06 | 44.12 |
| 44.18 | 126.34 | 2.70 | 181.96 | 1.57 | 0.86% | 0.876 | 0.54 | 109.84 | 1.77 | 1.09 | 147 | 0.375 | 0.82 | 1.066 | 0.532 | | 0.71 | 0.97 | <= | 0.800 | 0.006 | 0.000 | 2.369 | 0.000 | 44.12 | 44.18 |
| 44.25 | 126.21 | 2.70 | 173.66 | 1.56 | 0.90% | 0.913 | 0.55 | 104.61 | 1.80 | 1.11 | 142 | 0.347 | 0.82 | 1.069 | 0.531 | | 0.65 | 0.90 | <= | 1.214 | 0.010 | 0.000 | 2.363 | 0.000 | 44.18 | 44.25 |
| 44.34 | 126.06 | 2.71 | 157.93 | 1.58 | 1.00% | 1.018 | 0.57 | 94.81 | 1.87 | 1.16 | 134 | 0.303 | 0.81 | 1.071 | 0.531 | | 0.57 | 0.78 | <= | 1.571 | 0.017 | 0.000 | 2.353 | 0.000 | 44.25 | 44.34 |
| 44.36 | 126.07 | 2.71 | 151.00 | 1.61 | 1.07% | 1.086 | 0.58 | 90.54 | 1.90 | 1.19 | 131 | 0.287 | 0.81 | 1.072 | 0.531 | | 0.54 | 0.74 | <= | 1.594 | 0.004 | 0.000 | 2.336 | 0.000 | 44.34 | 44.36 |
| 44.42 | 126.12 | 2.71 | 134.78 | 1.68 | 1.25% | 1.272 | 0.61 | 80.54 | 1.99 | 1.29 | 124 | 0.258 | 0.81 | 1.074 | 0.531 | | 0.49 | 0.67 | <= | 1.937 | 0.014 | 0.000 | 2.332 | 0.000 | 44.36 | 44.42 |
| 44.52 | 126.01 | 2.72 | 104.02 | 1.81 | 1.74% | 1.787 | 0.66 | 61.66 | 2.18 | 1.63 | 117 | 0.229 | 0.81 | 1.077 | 0.530 | | 0.43 | 0.59 | <= | 2.031 | 0.024 | 0.000 | 2.318 | 0.000 | 44.42 | 44.52 |
| 44.56 | 125.94 | 2.72 | 91.81 | 1.87 | 2.04% | 2.099 | 0.69 | 54.18 | 2.28 | 1.88 | 117 | 0.229 | 0.81 | 1.078 | 0.530 | | 0.43 | 0.59 | <= | 2.031 | 0.010 | 0.000 | 2.294 | 0.000 | 44.52 | 44.56 |
| 44.65 | 124.70 | 2.73 | 59.77 | 1.82 | 3.05% | 3.191 | 0.77 | 34.63 | 2.55 | 3.06 | 118 | 0.231 | 0.81 | 1.081 | 0.530 | | 0.44 | 0.60 | <= | 2.024 | 0.022 | 0.000 | 2.284 | 0.000 | 44.56 | 44.65 |
| 44.69 | 124.11 | 2.73 | 51.96 | 1.76 | 3.39% | 3.575 | 0.80 | 29.87 | 2.64 | 3.58 | 118 | 0.233 | 0.81 | 1.082 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 44.78 | 122.23 | 2.74 | 35.45 | 1.54 | 4.34% | 4.707 | 0.87 | 19.82 | 2.86 | 5.33 | 176 | 0.587 | 0.81 | 1.085 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 44.82 | 121.40 | 2.74 | 32.52 | 1.42 | 4.37% | 4.768 | 0.88 | 18.03 | 2.90 | 5.68 | 187 | 0.691 | 0.81 | 1.086 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 44.91 | 119.68 | 2.74 | 27.54 | 1.19 | 4.32% | 4.799 | 0.90 | 14.99 | 2.96 | 6.35 | 210 | 0.935 | 0.81 | 1.089 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 44.96 | 118.55 | 2.75 | 24.61 | 1.05 | 4.27% | 4.803 | 0.91 | 13.20 | 3.01 | 6.84 | 226 | 1.149 | 0.81 | 1.091 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.05 | 117.07 | 2.75 | 23.05 | 0.88 | 3.82% | 4.335 | 0.91 | 12.24 | 3.01 | 6.81 | 225 | 1.137 | 0.81 | 1.094 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.09 | 116.56 | 2.75 | 24.76 | 0.80 | 3.23% | 3.635 | 0.89 | 13.26 | 2.93 | 5.98 | 197 | 0.794 | 0.81 | 1.095 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.18 | 115.58 | 2.76 | 24.03 | 0.71 | 2.95% | 3.338 | 0.88 | 12.80 | 2.92 | 5.87 | 194 | 0.756 | 0.81 | 1.098 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.22 | 115.34 | 2.76 | 24.91 | 0.68 | 2.73% | 3.070 | 0.87 | 13.32 | 2.88 | 5.51 | 182 | 0.638 | 0.81 | 1.099 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.31 | 115.27 | 2.77 | 28.32 | 0.64 | 2.26% | 2.505 | 0.84 | 15.34 | 2.77 | 4.56 | 150 | 0.397 | 0.81 | 1.102 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.37 | 115.63 | 2.77 | 27.74 | 0.68 | 2.45% | 2.723 | 0.85 | 14.98 | 2.80 | 4.82 | 159 | 0.454 | 0.81 | 1.104 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.45 | 118.72 | 2.78 | 28.42 | 1.03 | 3.62% | 4.016 | 0.88 | 15.36 | 2.90 | 5.73 | 189 | 0.708 | 0.81 | 1.106 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.47 | 119.41 | 2.78 | 29.79 | 1.11 | 3.73% | 4.109 | 0.88 | 16.18 | 2.89 | 5.61 | 185 | 0.671 | 0.81 | 1.107 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.59 | 122.63 | 2.78 | 37.11 | 1.60 | 4.31% | 4.661 | 0.86 | 20.51 | 2.85 | 5.19 | 171 | 0.547 | 0.80 | 1.110 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.61 | 122.65 | 2.79 | 32.72 | 1.67 | 5.10% | 5.579 | 0.89 | 17.88 | 2.95 | 6.18 | 204 | 0.867 | 0.80 | 1.111 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.71 | 124.78 | 2.79 | 50.01 | 1.95 | 3.90% | 4.130 | 0.82 | 28.15 | 2.70 | 4.01 | 132 | 0.296 | 0.80 | 1.114 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.75 | 125.22 | 2.79 | 53.33 | 2.02 | 3.79% | 3.997 | 0.81 | 30.11 | 2.67 | 3.78 | 125 | 0.261 | 0.80 | 1.115 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.84 | 125.77 | 2.80 | 58.31 | 2.12 | 3.64% | 3.819 | 0.80 | 33.02 | 2.62 | 3.48 | 127 | 0.270 | 0.80 | 1.118 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.262 | 0.000 | | |
| 45.89 | 125.83 | 2.80 | 61.63 | 2.10 | 3.41% | 3.570 | 0.78 | 34.96 | 2.58 | 3.23 | 126 | 0.264 | 0.80 | 1.120 | 0.526 | | 0.50 | 0.69 | <= | 1.920 | 0.012 | 0.000 | 2.262 | 0.000 | 45.84 | 45.89 |
| 45.97 | 126.10 | 2.81 | 67.59 | 2.11 | 3.12% | 3.257 | 0.77 | 38.44 | 2.52 | 2.90 | 125 | 0.260 | 0.80 | 1.122 | 0.526 | | 0.49 | 0.68 | <= | 1.931 | 0.019 | 0.000 | 2.251 | 0.000 | 45.89 | 45.97 |
| 46.00 | 126.14 | 2.81 | 69.54 | 2.10 | 3.02% | 3.147 | 0.76 | 39.57 | 2.50 | 2.79 | 124 | 0.257 | 0.80 | 1.123 | 0.526 | | 0.49 | 0.67 | <= | 1.939 | 0.007 | 0.000 | 2.232 | 0.000 | 45.97 | 46.00 |
| 46.06 | 126.20 | 2.81 | 73.74 | 2.08 | 2.82% | 2.933 | 0.75 | 42.01 | 2.46 | 2.58 | 123 | 0.252 | 0.80 | 1.125 | 0.526 | | 0.48 | 0.66 | <= | 1.955 | 0.014 | 0.000 | 2.225 | 0.000 | 46.00 | 46.06 |
| 46.15 | 126.55 | 2.82 | 77.94 | 2.14 | 2.75% | 2.849 | 0.74 | 44.42 | 2.43 | 2.46 | 124 | 0.258 | 0.80 | 1.128 | 0.525 | | 0.49 | 0.67 | <= | 1.939 | 0.021 | 0.000 | 2.211 | 0.000 | 46.06 | 46.15 |
| 46.20 | 126.56 | 2.82 | 75.69 | 2.16 | 2.85% | 2.964 | 0.75 | 43.05 | 2.46 | 2.56 | 125 | 0.261 | 0.80 | 1.129 | 0.525 | | 0.50 | 0.68 | <= | 1.928 | 0.012 | 0.000 | 2.190 | 0.000 | 46.15 | 46.20 |
| 46.29 | 125.37 | 2.83 | 63.97 | 1.95 | 3.05% | 3.189 | 0.77 | 36.06 | 2.54 | 2.97 | 120 | 0.241 | 0.80 | 1.132 | 0.525 | | 0.46 | 0.63 | <= | 1.992 | 0.022 | 0.000 | 2.179 | 0.000 | 46.20 | 46.29 |
| 46.33 | 124.24 | 2.83 | 53.62 | 1.77 | 3.30% | 3.485 | 0.80 | 29.93 | 2.63 | 3.51 | 116 | 0.225 | 0.80 | 1.133 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 46.46 | 120.97 | 2.84 | 36.72 | 1.28 | 3.49% | 3.778 | 0.85 | 19.92 | 2.79 | 4.72 | 156 | 0.432 | 0.80 | 1.138 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 46.47 | 120.65 | 2.84 | 33.21 | 1.27 | 3.82% | 4.182 | 0.87 | 17.86 | 2.86 | 5.33 | 176 | 0.585 | 0.80 | 1.138 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 46.54 | 119.63 | 2.84 | 26.86 | 1.19 | 4.43% | 4.955 | 0.91 | 14.10 | 2.99 | 6.67 | 220 | 1.072 | 0.80 | 1.140 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 46.60 | 119.06 | 2.85 | 22.46 | 1.17 | 5.21% | 5.965 | 0.94 | 11.51 | 3.12 | 8.17 | 270 | 1.900 | 0.80 | 1.142 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 46.69 | 118.13 | 2.85 | 20.22 | 1.06 | 5.24% | 6.103 | 0.96 | 10.17 | 3.17 | 8.82 | 291 | 2.376 | 0.80 | 1.145 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 46.74 | 117.45 | 2.85 | 20.22 | 0.97 | 4.80% | 5.586 | 0.95 | 10.16 | 3.14 | 8.49 | 280 | 2.125 | 0.80 | 1.146 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 46.82 | 117.10 | 2.86 | 20.80 | 0.91 | 4.38% | 5.072 | 0.94 | 10.49 | 3.11 | 7.99 | 264 | 1.785 | 0.79 | 1.149 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 46.87 | 117.35 | 2.86 | 20.90 | 0.95 | 4.55% | 5.267 | 0.94 | 10.54 | 3.11 | 8.11 | 267 | 1.860 | 0.79 | 1.150 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 46.92 | 117.92 | 2.87 | 21.78 | 1.01 | 4.64% | 5.340 | 0.94 | 11.04 | 3.10 | 7.94 | 262 | 1.756 | 0.79 | 1.152 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.00 | 118.83 | 2.87 | 23.05 | 1.12 | 4.86% | 5.550 | 0.94 | 11.76 | 3.09 | 7.80 | 257 | 1.668 | 0.79 | 1.154 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.09 | 117.04 | 2.88 | 24.52 | 0.86 | 3.51% | 3.973 | 0.90 | 12.60 | 2.97 | 6.42 | 212 | 0.963 | 0.79 | 1.157 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.13 | 118.20 | 2.88 | 25.49 | 0.99 | 3.88% | 4.378 | 0.90 | 13.15 | 2.98 | 6.55 | 216 | 1.017 | 0.79 | 1.158 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.18 | 119.97 | 2.88 | 29.01 | 1.21 | 4.17% | 4.631 | 0.89 | 15.18 | 2.95 | 6.18 | 204 | 0.867 | 0.79 | 1.160 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |

| LIQUEFACTION ANALYSIS WITH CPT DATA | TEST LOCATION: | CPT-2 |
|---|---|---|

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft) 1 MAGNITUDE: 6.62 MAGNITUDE SCALING FACTOR: 1.38

GROUNDWATER LEVEL: 10 feet ACCELERATION: 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47.26 | 121.10 | 2.89 | 32.33 | 1.36 | 4.21% | 4.619 | 0.88 | 17.09 | 2.91 | 5.75 | 190 | 0.715 | 0.79 | 1.163 | 0.522 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.34 | 121.39 | 2.89 | 33.40 | 1.40 | 4.19% | 4.589 | 0.88 | 17.68 | 2.89 | 5.61 | 185 | 0.671 | 0.79 | 1.165 | 0.522 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.38 | 121.46 | 2.89 | 37.80 | 1.36 | 3.60% | 3.896 | 0.85 | 20.22 | 2.80 | 4.75 | 157 | 0.438 | 0.79 | 1.166 | 0.522 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.45 | 121.19 | 2.90 | 41.51 | 1.27 | 3.06% | 3.289 | 0.82 | 22.34 | 2.71 | 4.08 | 135 | 0.307 | 0.79 | 1.168 | 0.521 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.53 | 120.47 | 2.90 | 41.80 | 1.15 | 2.75% | 2.956 | 0.81 | 22.47 | 2.68 | 3.84 | 127 | 0.269 | 0.79 | 1.171 | 0.521 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.58 | 120.11 | 2.90 | 41.70 | 1.09 | 2.61% | 2.810 | 0.81 | 22.39 | 2.66 | 3.74 | 124 | 0.255 | 0.79 | 1.172 | 0.521 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.65 | 120.00 | 2.91 | 40.73 | 1.09 | 2.68% | 2.882 | 0.81 | 21.81 | 2.68 | 3.86 | 127 | 0.272 | 0.79 | 1.175 | 0.521 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.71 | 119.75 | 2.91 | 37.90 | 1.07 | 2.82% | 3.058 | 0.83 | 20.15 | 2.73 | 4.19 | 138 | 0.326 | 0.79 | 1.177 | 0.520 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.80 | 118.85 | 2.92 | 30.57 | 1.02 | 3.34% | 3.689 | 0.87 | 15.90 | 2.86 | 5.36 | 177 | 0.594 | 0.79 | 1.179 | 0.520 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.84 | 118.68 | 2.92 | 28.62 | 1.02 | 3.56% | 3.969 | 0.88 | 14.77 | 2.91 | 5.82 | 192 | 0.737 | 0.79 | 1.181 | 0.520 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.94 | 118.15 | 2.93 | 24.42 | 1.00 | 4.10% | 4.653 | 0.91 | 12.33 | 3.02 | 6.99 | 231 | 1.222 | 0.79 | 1.184 | 0.520 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 47.98 | 117.59 | 2.93 | 22.76 | 0.95 | 4.17% | 4.790 | 0.93 | 11.37 | 3.06 | 7.43 | 245 | 1.450 | 0.79 | 1.185 | 0.520 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.04 | 116.98 | 2.93 | 21.88 | 0.88 | 4.02% | 4.644 | 0.93 | 10.86 | 3.07 | 7.52 | 248 | 1.504 | 0.78 | 1.187 | 0.519 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.11 | 116.15 | 2.94 | 21.00 | 0.80 | 3.81% | 4.429 | 0.93 | 10.34 | 3.07 | 7.58 | 250 | 1.534 | 0.78 | 1.189 | 0.519 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.16 | 115.43 | 2.94 | 20.12 | 0.74 | 3.68% | 4.307 | 0.93 | 9.83 | 3.08 | 7.71 | 254 | 1.611 | 0.78 | 1.191 | 0.519 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.24 | 115.29 | 2.94 | 18.95 | 0.74 | 3.91% | 4.623 | 0.95 | 9.14 | 3.13 | 8.29 | 274 | 1.983 | 0.78 | 1.193 | 0.519 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.30 | 115.15 | 2.95 | 17.97 | 0.73 | 4.06% | 4.859 | 0.96 | 8.57 | 3.17 | 8.78 | 290 | 2.343 | 0.78 | 1.195 | 0.519 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.38 | 115.20 | 2.95 | 17.78 | 0.74 | 4.16% | 4.991 | 0.96 | 8.45 | 3.18 | 8.95 | 295 | 2.477 | 0.78 | 1.197 | 0.518 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.47 | 115.37 | 2.96 | 18.66 | 0.75 | 4.02% | 4.776 | 0.95 | 8.94 | 3.15 | 8.51 | 281 | 2.142 | 0.78 | 1.200 | 0.518 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.51 | 115.33 | 2.96 | 18.66 | 0.74 | 3.97% | 4.713 | 0.95 | 8.93 | 3.14 | 8.47 | 279 | 2.110 | 0.78 | 1.202 | 0.518 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.59 | 115.33 | 2.96 | 18.75 | 0.74 | 3.95% | 4.688 | 0.95 | 8.97 | 3.14 | 8.43 | 278 | 2.081 | 0.78 | 1.204 | 0.518 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.65 | 115.45 | 2.97 | 18.85 | 0.75 | 3.98% | 4.722 | 0.95 | 9.02 | 3.14 | 8.43 | 278 | 2.082 | 0.78 | 1.206 | 0.518 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.69 | 115.51 | 2.97 | 18.66 | 0.76 | 4.07% | 4.844 | 0.95 | 8.90 | 3.15 | 8.58 | 283 | 2.194 | 0.78 | 1.207 | 0.517 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.78 | 115.47 | 2.97 | 18.26 | 0.76 | 4.16% | 4.972 | 0.96 | 8.66 | 3.17 | 8.82 | 291 | 2.369 | 0.78 | 1.210 | 0.517 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.82 | 115.47 | 2.98 | 18.26 | 0.76 | 4.16% | 4.973 | 0.96 | 8.65 | 3.17 | 8.82 | 291 | 2.373 | 0.78 | 1.211 | 0.517 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.91 | 115.59 | 2.98 | 18.17 | 0.78 | 4.29% | 5.136 | 0.96 | 8.59 | 3.18 | 8.98 | 296 | 2.499 | 0.78 | 1.214 | 0.517 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 48.95 | 115.74 | 2.98 | 18.17 | 0.79 | 4.35% | 5.202 | 0.96 | 8.58 | 3.18 | 9.03 | 298 | 2.542 | 0.78 | 1.215 | 0.517 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.05 | 115.95 | 2.99 | 18.56 | 0.81 | 4.36% | 5.203 | 0.96 | 8.79 | 3.18 | 8.91 | 294 | 2.448 | 0.78 | 1.218 | 0.516 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.09 | 114.29 | 2.99 | 18.66 | 0.65 | 3.48% | 4.149 | 0.94 | 8.84 | 3.11 | 8.07 | 266 | 1.834 | 0.78 | 1.220 | 0.516 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.15 | 110.76 | 3.00 | 19.05 | 0.40 | 2.10% | 2.492 | 0.90 | 9.05 | 2.97 | 6.40 | 211 | 0.957 | 0.78 | 1.221 | 0.516 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.22 | 112.57 | 3.00 | 19.05 | 0.51 | 2.68% | 3.178 | 0.92 | 9.03 | 3.03 | 7.10 | 234 | 1.277 | 0.78 | 1.224 | 0.516 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.29 | 113.80 | 3.00 | 19.34 | 0.60 | 3.10% | 3.673 | 0.93 | 9.19 | 3.06 | 7.48 | 247 | 1.479 | 0.77 | 1.226 | 0.516 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.36 | 114.83 | 3.01 | 19.14 | 0.69 | 3.61% | 4.277 | 0.94 | 9.06 | 3.11 | 8.05 | 266 | 1.824 | 0.77 | 1.228 | 0.515 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.43 | 115.72 | 3.01 | 19.14 | 0.78 | 4.08% | 4.836 | 0.95 | 9.05 | 3.14 | 8.50 | 280 | 2.129 | 0.77 | 1.230 | 0.515 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.48 | 116.34 | 3.02 | 19.24 | 0.85 | 4.42% | 5.239 | 0.96 | 9.10 | 3.16 | 8.77 | 289 | 2.332 | 0.77 | 1.232 | 0.515 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.54 | 116.85 | 3.02 | 19.73 | 0.90 | 4.56% | 5.386 | 0.96 | 9.36 | 3.16 | 8.73 | 288 | 2.306 | 0.77 | 1.234 | 0.515 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.61 | 117.14 | 3.02 | 20.51 | 0.92 | 4.49% | 5.261 | 0.95 | 9.79 | 3.14 | 8.43 | 278 | 2.084 | 0.77 | 1.236 | 0.515 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.70 | 117.66 | 3.03 | 21.19 | 0.98 | 4.62% | 5.396 | 0.95 | 10.15 | 3.13 | 8.35 | 276 | 2.029 | 0.77 | 1.239 | 0.514 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.77 | 118.10 | 3.03 | 21.78 | 1.03 | 4.73% | 5.494 | 0.95 | 10.47 | 3.13 | 8.28 | 273 | 1.977 | 0.77 | 1.241 | 0.514 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.82 | 118.48 | 3.04 | 22.27 | 1.08 | 4.85% | 5.615 | 0.95 | 10.73 | 3.13 | 8.25 | 272 | 1.953 | 0.77 | 1.242 | 0.514 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.89 | 119.09 | 3.04 | 23.05 | 1.16 | 5.03% | 5.797 | 0.94 | 11.15 | 3.12 | 8.19 | 270 | 1.915 | 0.77 | 1.245 | 0.514 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 49.95 | 119.51 | 3.04 | 23.93 | 1.21 | 5.06% | 5.793 | 0.94 | 11.63 | 3.11 | 8.00 | 264 | 1.789 | 0.77 | 1.246 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 50.04 | 120.58 | 3.05 | 24.91 | 1.38 | 5.54% | 6.312 | 0.94 | 12.15 | 3.12 | 8.12 | 268 | 1.870 | 0.77 | 1.249 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 50.08 | 121.02 | 3.05 | 25.69 | 1.45 | 5.64% | 6.405 | 0.94 | 12.58 | 3.11 | 8.02 | 265 | 1.807 | 0.77 | 1.250 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 50.16 | 121.76 | 3.06 | 26.86 | 1.58 | 5.88% | 6.637 | 0.94 | 13.21 | 3.10 | 7.95 | 262 | 1.757 | 0.77 | 1.253 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 50.23 | 122.63 | 3.06 | 29.20 | 1.74 | 5.96% | 6.656 | 0.93 | 14.48 | 3.07 | 7.56 | 250 | 1.527 | 0.77 | 1.255 | 0.512 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 50.30 | 123.57 | 3.06 | 31.55 | 1.92 | 6.09% | 6.740 | 0.92 | 15.77 | 3.05 | 7.27 | 240 | 1.362 | 0.77 | 1.257 | 0.512 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 50.38 | 124.12 | 3.07 | 35.26 | 2.00 | 5.67% | 6.213 | 0.90 | 17.79 | 2.98 | 6.52 | 215 | 1.005 | 0.77 | 1.260 | 0.512 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 50.44 | 124.59 | 3.07 | 39.17 | 2.06 | 5.26% | 5.707 | 0.88 | 19.93 | 2.91 | 5.84 | 193 | 0.747 | 0.77 | 1.262 | 0.512 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 50.49 | 124.81 | 3.08 | 42.10 | 2.07 | 4.92% | 5.304 | 0.87 | 21.53 | 2.87 | 5.37 | 177 | 0.598 | 0.77 | 1.263 | 0.511 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 50.57 | 125.39 | 3.08 | 51.96 | 2.09 | 4.02% | 4.276 | 0.82 | 26.93 | 2.72 | 4.17 | 138 | 0.322 | 0.76 | 1.266 | 0.511 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 50.60 | 125.73 | 3.08 | 58.21 | 2.11 | 3.62% | 3.828 | 0.80 | 30.35 | 2.65 | 3.64 | 123 | 0.254 | 0.76 | 1.267 | 0.511 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.157 | 0.000 | | |
| 50.67 | 126.36 | 3.09 | 70.81 | 2.15 | 3.04% | 3.175 | 0.76 | 37.24 | 2.52 | 2.88 | 122 | 0.250 | 0.76 | 1.269 | 0.511 | | 0.49 | **0.67** | <= | 1.961 | 0.016 | 0.000 | 2.157 | 0.000 | **50.60** | **50.67** |
| 50.75 | 126.82 | 3.09 | 79.89 | 2.20 | 2.75% | 2.865 | 0.74 | 42.17 | 2.45 | 2.52 | 123 | 0.251 | 0.76 | 1.271 | 0.510 | | 0.49 | **0.68** | <= | 1.957 | 0.019 | 0.000 | 2.141 | 0.000 | **50.67** | **50.75** |
| 50.79 | 126.96 | 3.09 | 82.63 | 2.22 | 2.69% | 2.791 | 0.74 | 43.65 | 2.43 | 2.43 | 123 | 0.253 | 0.76 | 1.273 | 0.510 | | 0.50 | **0.68** | <= | 1.953 | 0.009 | 0.000 | 2.122 | 0.000 | **50.75** | **50.79** |
| 50.87 | 126.86 | 3.10 | 82.04 | 2.20 | 2.68% | 2.787 | 0.74 | 43.26 | 2.43 | 2.44 | 122 | 0.250 | 0.76 | 1.275 | 0.510 | | 0.49 | **0.68** | <= | 1.961 | 0.019 | 0.000 | 2.113 | 0.000 | **50.79** | **50.87** |
| 50.93 | 126.68 | 3.10 | 78.92 | 2.17 | 2.75% | 2.862 | 0.74 | 41.50 | 2.45 | 2.54 | 122 | 0.248 | 0.76 | 1.277 | 0.510 | | 0.49 | **0.67** | <= | 1.969 | 0.014 | 0.000 | 2.094 | 0.000 | **50.87** | **50.93** |
| 51.02 | 126.49 | 3.11 | 75.60 | 2.15 | 2.84% | 2.966 | 0.75 | 39.62 | 2.48 | 2.66 | 121 | 0.246 | 0.76 | 1.280 | 0.509 | | 0.48 | **0.67** | <= | 1.973 | 0.021 | 0.000 | 2.080 | 0.000 | **50.93** | **51.02** |
| 51.06 | 126.46 | 3.11 | 74.72 | 2.15 | 2.88% | 3.002 | 0.75 | 39.11 | 2.49 | 2.70 | 121 | 0.247 | 0.76 | 1.281 | 0.509 | | 0.48 | **0.67** | <= | 1.972 | 0.009 | 0.000 | 2.058 | 0.000 | **51.02** | **51.06** |
| 51.15 | 126.42 | 3.12 | 73.45 | 2.15 | 2.93% | 3.057 | 0.76 | 38.35 | 2.50 | 2.76 | 122 | 0.247 | 0.76 | 1.284 | 0.509 | | 0.49 | **0.67** | <= | 1.971 | 0.021 | 0.000 | 2.049 | 0.000 | **51.06** | **51.15** |
| 51.23 | 126.68 | 3.12 | 74.42 | 2.21 | 2.97% | 3.100 | 0.76 | 38.82 | 2.50 | 2.76 | 123 | 0.254 | 0.76 | 1.286 | 0.508 | | 0.50 | **0.69** | <= | 1.950 | 0.019 | 0.000 | 2.028 | 0.000 | **51.15** | **51.23** |
| 51.26 | 125.11 | 3.12 | 76.57 | 1.77 | 2.31% | 2.410 | 0.73 | 39.97 | 2.41 | 2.36 | 110 | 0.203 | 0.76 | 1.287 | 0.508 | | 0.40 | **0.55** | <= | 2.139 | 0.008 | 0.000 | 2.009 | 0.000 | **51.23** | **51.26** |
| 51.33 | 121.36 | 3.13 | 82.73 | 1.03 | 1.25% | 1.294 | 0.67 | 43.28 | 2.20 | 1.67 | 87 | 0.142 | 0.76 | 1.289 | 0.508 | | 0.28 | **0.38** | <= | 2.576 | 0.022 | 0.000 | 2.001 | 0.000 | **51.26** | **51.33** |
| 51.41 | 123.64 | 3.13 | 88.88 | 1.38 | 1.55% | 1.609 | 0.68 | 46.55 | 2.24 | 1.76 | 98 | 0.169 | 0.76 | 1.292 | 0.508 | | 0.33 | **0.46** | <= | 2.335 | 0.022 | 0.000 | 1.980 | 0.000 | **51.33** | **51.41** |
| 51.51 | 125.61 | 3.14 | 94.25 | 1.77 | 1.88% | 1.943 | 0.69 | 49.38 | 2.27 | 1.86 | 110 | 0.203 | 0.76 | 1.295 | 0.507 | | 0.40 | **0.55** | <= | 2.138 | 0.026 | 0.000 | 1.957 | 0.000 | **51.41** | **51.51** |
| 51.55 | 126.14 | 3.14 | 97.18 | 1.88 | 1.93% | 1.999 | 0.69 | 50.93 | 2.27 | 1.86 | 113 | 0.214 | 0.76 | 1.296 | 0.507 | | 0.42 | **0.58** | <= | 2.089 | 0.010 | 0.000 | 1.931 | 0.000 | **51.51** | **51.55** |
| 51.59 | 126.70 | 3.15 | 100.11 | 2.01 | 2.01% | 2.073 | 0.69 | 52.48 | 2.27 | 1.86 | 117 | 0.228 | 0.76 | 1.298 | 0.507 | | 0.45 | **0.62** | <= | 2.037 | 0.010 | 0.000 | 1.921 | 0.000 | **51.55** | **51.59** |
| 51.67 | 127.50 | 3.15 | 107.34 | 2.19 | 2.04% | 2.102 | 0.68 | 56.31 | 2.25 | 1.80 | 122 | 0.248 | 0.76 | 1.300 | 0.507 | | 0.49 | **0.67** | <= | 1.967 | 0.019 | 0.000 | 1.912 | 0.000 | **51.59** | **51.67** |
| 51.71 | 127.87 | 3.15 | 114.76 | 2.25 | 1.96% | 2.016 | 0.67 | 60.28 | 2.22 | 1.71 | 124 | 0.258 | 0.76 | 1.301 | 0.507 | | 0.51 | **0.70** | <= | 1.937 | 0.009 | 0.000 | 1.893 | 0.000 | **51.67** | **51.71** |
| 51.80 | 128.08 | 3.16 | 119.74 | 2.29 | 1.91% | 1.964 | 0.67 | 62.87 | 2.19 | 1.65 | 126 | 0.265 | 0.75 | 1.304 | 0.506 | | 0.52 | **0.72** | <= | 1.916 | 0.021 | 0.000 | 1.883 | 0.000 | **51.71** | **51.80** |
| 51.85 | 127.98 | 3.16 | 121.99 | 2.24 | 1.84% | 1.885 | 0.66 | 64.02 | 2.17 | 1.61 | 125 | 0.262 | 0.75 | 1.306 | 0.506 | | 0.52 | **0.71** | <= | 1.925 | 0.012 | 0.000 | 1.863 | 0.000 | **51.80** | **51.85** |
| 51.93 | 127.63 | 3.17 | 123.45 | 2.13 | 1.73% | 1.771 | 0.65 | 64.71 | 2.15 | 1.55 | 123 | 0.253 | 0.75 | 1.308 | 0.506 | | 0.50 | **0.69** | <= | 1.952 | 0.019 | 0.000 | 1.851 | 0.000 | **51.85** | **51.93** |
| 51.98 | 127.31 | 3.17 | 123.84 | 2.04 | 1.65% | 1.691 | 0.65 | 64.87 | 2.14 | 1.52 | 121 | 0.245 | 0.75 | 1.310 | 0.505 | | 0.49 | **0.67** | <= | 1.976 | 0.012 | 0.000 | 1.833 | 0.000 | **51.93** | **51.98** |
| 52.07 | 126.51 | 3.18 | 121.11 | 1.84 | 1.52% | 1.560 | 0.64 | 63.30 | 2.12 | 1.49 | 116 | 0.225 | 0.75 | 1.313 | 0.505 | | 0.45 | **0.61** | <= | 2.046 | 0.022 | 0.000 | 1.821 | 0.000 | **51.98** | **52.07** |
| 52.12 | 126.16 | 3.18 | 118.38 | 1.77 | 1.50% | 1.536 | 0.64 | 61.78 | 2.12 | 1.50 | 114 | 0.217 | 0.75 | 1.314 | 0.505 | | 0.43 | **0.59** | <= | 2.079 | 0.012 | 0.000 | 1.799 | 0.000 | **52.07** | **52.12** |
| 52.18 | 125.98 | 3.18 | 111.34 | 1.76 | 1.58% | 1.627 | 0.66 | 57.94 | 2.16 | 1.58 | 112 | 0.210 | 0.75 | 1.316 | 0.505 | | 0.42 | **0.57** | <= | 2.109 | 0.015 | 0.000 | 1.786 | 0.000 | **52.12** | **52.18** |
| 52.25 | 126.40 | 3.19 | 101.87 | 1.92 | 1.88% | 1.946 | 0.68 | 52.80 | 2.25 | 1.79 | 114 | 0.218 | 0.75 | 1.318 | 0.504 | | 0.43 | **0.59** | <= | 2.074 | 0.017 | 0.000 | 1.771 | 0.000 | **52.18** | **52.25** |
| 52.34 | 126.84 | 3.19 | 90.34 | 2.12 | 2.35% | 2.433 | 0.72 | 46.56 | 2.36 | 2.16 | 119 | 0.235 | 0.75 | 1.321 | 0.504 | | 0.47 | **0.64** | <= | 2.009 | 0.022 | 0.000 | 1.753 | 0.000 | **52.25** | **52.34** |
| 52.38 | 126.78 | 3.20 | 83.12 | 2.16 | 2.60% | 2.703 | 0.73 | 42.67 | 2.42 | 2.41 | 120 | 0.241 | 0.75 | 1.322 | 0.504 | | 0.48 | **0.66** | <= | 1.991 | 0.010 | 0.000 | 1.732 | 0.000 | **52.34** | **52.38** |
| 52.45 | 126.59 | 3.20 | 70.61 | 2.22 | 3.14% | 3.293 | 0.77 | 35.95 | 2.54 | 2.99 | 123 | 0.253 | 0.75 | 1.324 | 0.503 | | 0.50 | **0.69** | <= | 1.951 | 0.016 | 0.000 | 1.722 | 0.000 | **52.38** | **52.45** |
| 52.53 | 126.21 | 3.20 | 63.29 | 2.19 | 3.46% | 3.645 | 0.79 | 32.00 | 2.61 | 3.41 | 123 | 0.254 | 0.75 | 1.327 | 0.503 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.706 | 0.000 | | |
| 52.56 | 126.06 | 3.21 | 61.73 | 2.17 | 3.52% | 3.708 | 0.80 | 31.15 | 2.63 | 3.50 | 123 | 0.253 | 0.75 | 1.328 | 0.503 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.706 | 0.000 | | |
| 52.65 | 125.93 | 3.21 | 62.61 | 2.12 | 3.39% | 3.569 | 0.79 | 31.57 | 2.61 | 3.39 | 121 | 0.246 | 0.75 | 1.331 | 0.503 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.706 | 0.000 | | |
| 52.70 | 125.92 | 3.22 | 65.24 | 2.09 | 3.20% | 3.370 | 0.78 | 32.93 | 2.58 | 3.20 | 120 | 0.240 | 0.75 | 1.332 | 0.502 | | 0.48 | **0.66** | <= | 1.992 | 0.012 | 0.000 | 1.706 | 0.000 | **52.65** | **52.70** |
| 52.78 | 125.35 | 3.22 | 71.20 | 1.87 | 2.63% | 2.751 | 0.75 | 36.05 | 2.48 | 2.69 | 112 | 0.212 | 0.75 | 1.335 | 0.502 | | 0.42 | **0.58** | <= | 2.099 | 0.020 | 0.000 | 1.694 | 0.000 | **52.70** | **52.78** |
| 52.85 | 125.11 | 3.22 | 78.04 | 1.76 | 2.26% | 2.352 | 0.73 | 39.63 | 2.40 | 2.33 | 108 | 0.199 | 0.75 | 1.337 | 0.502 | | 0.40 | **0.54** | <= | 2.160 | 0.018 | 0.000 | 1.674 | 0.000 | **52.78** | **52.85** |
| 52.92 | 125.13 | 3.23 | 79.21 | 1.75 | 2.21% | 2.303 | 0.73 | 40.20 | 2.39 | 2.28 | 108 | 0.197 | 0.75 | 1.339 | 0.502 | | 0.39 | **0.54** | <= | 2.167 | 0.018 | 0.000 | 1.656 | 0.000 | **52.85** | **52.92** |
| 52.96 | 125.27 | 3.23 | 77.65 | 1.80 | 2.32% | 2.419 | 0.73 | 39.34 | 2.41 | 2.37 | 110 | 0.203 | 0.75 | 1.340 | 0.501 | | 0.40 | **0.56** | <= | 2.142 | 0.010 | 0.000 | 1.637 | 0.000 | **52.92** | **52.96** |
| 53.05 | 125.62 | 3.24 | 72.76 | 1.93 | 2.65% | 2.776 | 0.75 | 36.70 | 2.48 | 2.67 | 114 | 0.217 | 0.74 | 1.343 | 0.501 | | 0.43 | **0.60** | <= | 2.077 | 0.022 | 0.000 | 1.627 | 0.000 | **52.96** | **53.05** |
| 53.09 | 125.80 | 3.24 | 70.32 | 2.00 | 2.84% | 2.982 | 0.76 | 35.39 | 2.52 | 2.85 | 116 | 0.226 | 0.74 | 1.344 | 0.501 | | 0.45 | **0.62** | <= | 2.043 | 0.010 | 0.000 | 1.605 | 0.000 | **53.05** | **53.09** |
| 53.17 | 125.96 | 3.25 | 65.05 | 2.10 | 3.23% | 3.398 | 0.78 | 32.56 | 2.58 | 3.23 | 120 | 0.240 | 0.74 | 1.347 | 0.501 | | 0.48 | **0.66** | <= | 1.992 | 0.019 | 0.000 | 1.595 | 0.000 | **53.09** | **53.17** |
| 53.29 | 125.66 | 3.25 | 65.54 | 2.01 | 3.07% | 3.227 | 0.78 | 32.75 | 2.57 | 3.13 | 117 | 0.229 | 0.74 | 1.351 | 0.500 | | 0.46 | **0.63** | <= | 2.031 | 0.029 | 0.000 | 1.576 | 0.000 | **53.17** | **53.29** |
| 53.32 | 125.24 | 3.25 | 66.90 | 1.88 | 2.81% | 2.954 | 0.77 | 33.45 | 2.53 | 2.93 | 113 | 0.214 | 0.74 | 1.352 | 0.500 | | 0.43 | **0.59** | <= | 2.091 | 0.008 | 0.000 | 1.546 | 0.000 | **53.29** | **53.32** |
| 53.36 | 124.57 | 3.26 | 67.78 | 1.71 | 2.52% | 2.650 | 0.76 | 33.89 | 2.49 | 2.74 | 108 | 0.196 | 0.74 | 1.353 | 0.500 | | 0.39 | **0.54** | <= | 2.176 | 0.010 | 0.000 | 1.539 | 0.000 | **53.32** | **53.36** |
| 53.42 | 121.06 | 3.26 | 68.08 | 1.06 | 1.56% | 1.635 | 0.71 | 34.01 | 2.35 | 2.12 | 86 | 0.139 | 0.74 | 1.355 | 0.500 | | 0.28 | **0.38** | <= | 2.608 | 0.019 | 0.000 | 1.529 | 0.000 | **53.36** | **53.42** |
| 53.54 | 119.36 | 3.27 | 65.83 | 0.85 | 1.29% | 1.359 | 0.70 | 32.77 | 2.31 | 1.99 | 78 | 0.124 | 0.74 | 1.358 | 0.499 | | 0.25 | **0.34** | <= | 2.813 | 0.041 | 0.000 | 1.510 | 0.000 | **53.42** | **53.54** |
| 53.59 | 119.71 | 3.27 | 64.46 | 0.90 | 1.40% | 1.471 | 0.71 | 32.02 | 2.34 | 2.10 | 80 | 0.128 | 0.74 | 1.360 | 0.499 | | 0.26 | **0.35** | <= | 2.762 | 0.017 | 0.000 | 1.469 | 0.000 | **53.54** | **53.59** |
| 53.63 | 120.30 | 3.27 | 63.29 | 0.98 | 1.55% | 1.633 | 0.72 | 31.39 | 2.38 | 2.23 | 83 | 0.133 | 0.74 | 1.361 | 0.499 | | 0.27 | **0.37** | <= | 2.682 | 0.013 | 0.000 | 1.453 | 0.000 | **53.59** | **53.63** |
| 53.73 | 122.12 | 3.28 | 54.50 | 1.32 | 2.42% | 2.577 | 0.78 | 26.75 | 2.57 | 3.14 | 104 | 0.183 | 0.74 | 1.364 | 0.498 | | 0.37 | **0.51** | <= | 2.242 | 0.027 | 0.000 | 1.440 | 0.000 | **53.63** | **53.73** |
| 53.75 | 122.01 | 3.28 | 48.74 | 1.35 | 2.77% | 2.970 | 0.80 | 23.73 | 2.65 | 3.67 | 121 | 0.245 | 0.74 | 1.365 | 0.498 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.413 | 0.000 | | |
| 53.81 | 122.87 | 3.28 | 52.35 | 1.48 | 2.83% | 3.016 | 0.80 | 25.59 | 2.63 | 3.52 | 116 | 0.226 | 0.74 | 1.367 | 0.498 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.413 | 0.000 | | |
| 53.90 | 122.60 | 3.29 | 46.49 | 1.48 | 3.18% | 3.426 | 0.82 | 22.50 | 2.71 | 4.10 | 135 | 0.310 | 0.74 | 1.370 | 0.498 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.413 | 0.000 | | |
| 53.94 | 122.25 | 3.29 | 42.78 | 1.45 | 3.39% | 3.672 | 0.84 | 20.55 | 2.77 | 4.51 | 149 | 0.386 | 0.74 | 1.371 | 0.498 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.413 | 0.000 | | |
| 54.03 | 121.38 | 3.30 | 41.22 | 1.31 | 3.18% | 3.454 | 0.84 | 19.71 | 2.76 | 4.48 | 148 | 0.381 | 0.74 | 1.374 | 0.497 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.413 | 0.000 | | |
| 54.07 | 121.34 | 3.30 | 48.15 | 1.23 | 2.55% | 2.742 | 0.80 | 23.30 | 2.64 | 3.55 | 117 | 0.230 | 0.74 | 1.375 | 0.497 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.413 | 0.000 | | |
| 54.16 | 121.89 | 3.31 | 66.51 | 1.19 | 1.79% | 1.883 | 0.73 | 32.79 | 2.40 | 2.33 | 90 | 0.148 | 0.74 | 1.378 | 0.497 | | 0.30 | **0.41** | <= | 2.509 | 0.027 | 0.000 | 1.413 | 0.000 | **54.07** | **54.16** |
| 54.21 | 122.10 | 3.31 | 76.77 | 1.17 | 1.52% | 1.593 | 0.70 | 38.08 | 2.30 | 1.95 | 89 | 0.147 | 0.73 | 1.379 | 0.496 | | 0.30 | **0.41** | <= | 2.523 | 0.015 | 0.000 | 1.386 | 0.000 | **54.16** | **54.21** |
| 54.28 | 122.06 | 3.31 | 79.41 | 1.15 | 1.45% | 1.511 | 0.69 | 39.40 | 2.27 | 1.86 | 89 | 0.146 | 0.73 | 1.382 | 0.496 | | 0.29 | **0.40** | <= | 2.533 | 0.021 | 0.000 | 1.371 | 0.000 | **54.21** | **54.28** |
| 54.34 | 122.31 | 3.32 | 77.45 | 1.20 | 1.55% | 1.619 | 0.70 | 38.35 | 2.30 | 1.96 | 90 | 0.149 | 0.73 | 1.383 | 0.496 | | 0.30 | **0.41** | <= | 2.502 | 0.018 | 0.000 | 1.349 | 0.000 | **54.28** | **54.34** |
| 54.45 | 123.28 | 3.32 | 64.76 | 1.46 | 2.25% | 2.376 | 0.75 | 31.73 | 2.48 | 2.68 | 99 | 0.171 | 0.73 | 1.387 | 0.495 | | 0.34 | **0.47** | <= | 2.321 | 0.031 | 0.000 | 1.331 | 0.000 | **54.34** | **54.45** |
| 54.48 | 123.23 | 3.33 | 59.38 | 1.49 | 2.51% | 2.658 | 0.77 | 28.93 | 2.55 | 3.03 | 101 | 0.176 | 0.73 | 1.388 | 0.495 | | 0.35 | **0.49** | <= | 2.290 | 0.008 | 0.000 | 1.301 | 0.000 | **54.45** | **54.48** |
| 54.54 | 123.23 | 3.33 | 50.69 | 1.57 | 3.10% | 3.315 | 0.81 | 24.42 | 2.67 | 3.82 | 126 | 0.266 | 0.73 | 1.390 | 0.495 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 54.61 | 123.08 | 3.33 | 43.37 | 1.62 | 3.74% | 4.046 | 0.85 | 20.62 | 2.79 | 4.73 | 156 | 0.435 | 0.73 | 1.392 | 0.495 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 54.69 | 122.07 | 3.34 | 33.50 | 1.54 | 4.60% | 5.106 | 0.90 | 15.52 | 2.96 | 6.35 | 210 | 0.937 | 0.73 | 1.394 | 0.495 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 54.73 | 121.72 | 3.34 | 31.65 | 1.50 | 4.74% | 5.299 | 0.91 | 14.56 | 3.00 | 6.72 | 222 | 1.093 | 0.73 | 1.396 | 0.494 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 54.80 | 121.05 | 3.34 | 28.71 | 1.41 | 4.91% | 5.559 | 0.92 | 13.03 | 3.05 | 7.33 | 242 | 1.397 | 0.73 | 1.398 | 0.494 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 54.87 | 119.83 | 3.35 | 26.66 | 1.22 | 4.58% | 5.234 | 0.93 | 11.96 | 3.06 | 7.48 | 247 | 1.480 | 0.73 | 1.400 | 0.494 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 54.95 | 118.85 | 3.35 | 23.64 | 1.11 | 4.70% | 5.472 | 0.95 | 10.40 | 3.13 | 8.27 | 273 | 1.973 | 0.73 | 1.402 | 0.493 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 55.01 | 118.70 | 3.36 | 23.34 | 1.10 | 4.71% | 5.505 | 0.95 | 10.23 | 3.13 | 8.37 | 276 | 2.040 | 0.73 | 1.404 | 0.493 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 55.07 | 118.68 | 3.36 | 22.95 | 1.10 | 4.79% | 5.615 | 0.95 | 10.02 | 3.15 | 8.54 | 282 | 2.165 | 0.73 | 1.406 | 0.493 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 55.14 | 118.67 | 3.36 | 22.66 | 1.10 | 4.85% | 5.701 | 0.96 | 9.86 | 3.16 | 8.68 | 286 | 2.266 | 0.73 | 1.408 | 0.493 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 55.19 | 118.74 | 3.37 | 23.05 | 1.11 | 4.82% | 5.640 | 0.95 | 10.05 | 3.15 | 8.55 | 282 | 2.166 | 0.73 | 1.410 | 0.493 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 55.27 | 120.20 | 3.37 | 25.78 | 1.30 | 5.04% | 5.802 | 0.94 | 11.43 | 3.11 | 8.06 | 266 | 1.827 | 0.73 | 1.412 | 0.492 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 55.32 | 120.84 | 3.38 | 30.86 | 1.34 | 4.34% | 4.876 | 0.90 | 14.01 | 2.99 | 6.59 | 217 | 1.037 | 0.73 | 1.414 | 0.492 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 55.40 | 119.42 | 3.38 | 36.82 | 1.04 | 2.82% | 3.110 | 0.84 | 17.03 | 2.78 | 4.66 | 154 | 0.417 | 0.73 | 1.416 | 0.492 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 55.45 | 119.13 | 3.38 | 44.93 | 0.93 | 2.07% | 2.238 | 0.79 | 21.14 | 2.61 | 3.40 | 112 | 0.211 | 0.72 | 1.418 | 0.492 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.292 | 0.000 | | |
| 55.54 | 120.61 | 3.39 | 53.62 | 1.08 | 2.01% | 2.150 | 0.77 | 25.52 | 2.53 | 2.93 | 97 | 0.164 | 0.72 | 1.421 | 0.491 | | 0.33 | **0.46** | <= | 2.371 | 0.026 | 0.000 | 1.292 | 0.000 | **55.45** | **55.54** |
| 55.58 | 120.92 | 3.39 | 57.72 | 1.10 | 1.91% | 2.025 | 0.75 | 27.59 | 2.48 | 2.69 | 89 | 0.145 | 0.72 | 1.422 | 0.491 | | 0.30 | **0.41** | <= | 2.537 | 0.012 | 0.000 | 1.267 | 0.000 | **55.54** | **55.58** |
| 55.65 | 121.30 | 3.40 | 66.32 | 1.10 | 1.66% | 1.748 | 0.72 | 31.92 | 2.39 | 2.27 | 86 | 0.140 | 0.72 | 1.424 | 0.491 | | 0.29 | **0.39** | <= | 2.596 | 0.022 | 0.000 | 1.255 | 0.000 | **55.58** | **55.65** |
| 55.71 | 121.31 | 3.45 | 66.71 | 1.10 | 1.65% | 1.739 | 0.73 | 31.29 | 2.39 | 2.28 | 86 | 0.139 | 0.72 | 1.426 | 0.485 | | 0.29 | **0.39** | <= | 2.612 | 0.019 | 0.000 | 1.233 | 0.000 | **55.65** | **55.71** |
| 55.78 | 121.78 | 3.45 | 79.89 | 1.11 | 1.39% | 1.452 | 0.69 | 37.85 | 2.27 | 1.86 | 87 | 0.140 | 0.72 | 1.428 | 0.486 | | 0.29 | **0.40** | <= | 2.593 | 0.022 | 0.000 | 1.214 | 0.000 | **55.71** | **55.78** |
| 55.86 | 121.93 | 3.45 | 79.50 | 1.13 | 1.42% | 1.486 | 0.69 | 37.70 | 2.28 | 1.88 | 87 | 0.142 | 0.72 | 1.431 | 0.486 | | 0.29 | **0.40** | <= | 2.578 | 0.025 | 0.000 | 1.192 | 0.000 | **55.78** | **55.86** |
| 55.94 | 123.53 | 3.45 | 74.62 | 1.44 | 1.93% | 2.023 | 0.73 | 35.33 | 2.39 | 2.28 | 97 | 0.164 | 0.72 | 1.433 | 0.486 | | 0.34 | **0.46** | <= | 2.370 | 0.023 | 0.000 | 1.168 | 0.000 | **55.86** | **55.94** |
| 55.99 | 124.06 | 3.45 | 65.34 | 1.62 | 2.48% | 2.617 | 0.76 | 30.74 | 2.52 | 2.87 | 103 | 0.182 | 0.72 | 1.435 | 0.486 | | 0.37 | **0.51** | <= | 2.251 | 0.014 | 0.000 | 1.145 | 0.000 | **55.94** | **55.99** |
| 56.06 | 124.31 | 3.45 | 54.99 | 1.77 | 3.22% | 3.434 | 0.81 | 25.63 | 2.67 | 3.76 | 124 | 0.257 | 0.72 | 1.437 | 0.486 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.131 | 0.000 | | |
| 56.12 | 124.10 | 3.45 | 46.20 | 1.83 | 3.96% | 4.281 | 0.85 | 21.28 | 2.80 | 4.77 | 157 | 0.443 | 0.72 | 1.439 | 0.486 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.131 | 0.000 | | |
| 56.20 | 124.46 | 3.45 | 46.88 | 1.91 | 4.07% | 4.398 | 0.85 | 21.64 | 2.80 | 4.79 | 158 | 0.448 | 0.72 | 1.441 | 0.487 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.131 | 0.000 | | |
| 56.25 | 124.25 | 3.45 | 39.95 | 1.96 | 4.91% | 5.370 | 0.88 | 18.20 | 2.92 | 5.92 | 195 | 0.774 | 0.72 | 1.443 | 0.487 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.131 | 0.000 | | |
| 56.32 | 124.56 | 3.45 | 47.57 | 1.92 | 4.04% | 4.352 | 0.85 | 22.03 | 2.79 | 4.71 | 156 | 0.430 | 0.72 | 1.445 | 0.487 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.131 | 0.000 | | |
| 56.38 | 125.17 | 3.45 | 58.80 | 1.95 | 3.32% | 3.523 | 0.80 | 27.66 | 2.65 | 3.63 | 120 | 0.240 | 0.72 | 1.447 | 0.487 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 1.131 | 0.000 | | |
| 56.47 | 126.01 | 3.45 | 76.87 | 2.00 | 2.60% | 2.724 | 0.75 | 36.74 | 2.47 | 2.62 | 114 | 0.216 | 0.72 | 1.450 | 0.487 | | 0.44 | **0.61** | <= | 2.083 | 0.022 | 0.000 | 1.131 | 0.000 | **56.38** | **56.47** |
| 56.51 | 126.14 | 3.45 | 80.77 | 2.00 | 2.48% | 2.587 | 0.74 | 38.72 | 2.44 | 2.47 | 113 | 0.215 | 0.72 | 1.451 | 0.487 | | 0.44 | **0.61** | <= | 2.087 | 0.010 | 0.000 | 1.109 | 0.000 | **56.47** | **56.51** |
| 56.60 | 126.30 | 3.45 | 82.04 | 2.04 | 2.49% | 2.596 | 0.74 | 39.41 | 2.43 | 2.44 | 114 | 0.219 | 0.72 | 1.454 | 0.487 | | 0.45 | **0.62** | <= | 2.071 | 0.022 | 0.000 | 1.099 | 0.000 | **56.51** | **56.60** |
| 56.69 | 126.76 | 3.45 | 80.48 | 2.18 | 2.71% | 2.830 | 0.75 | 38.68 | 2.46 | 2.60 | 118 | 0.234 | 0.71 | 1.457 | 0.488 | | 0.48 | **0.66** | <= | 2.013 | 0.022 | 0.000 | 1.076 | 0.000 | **56.60** | **56.69** |
| 56.71 | 126.76 | 3.45 | 78.23 | 2.20 | 2.81% | 2.942 | 0.75 | 37.57 | 2.49 | 2.70 | 119 | 0.237 | 0.71 | 1.457 | 0.488 | | 0.49 | **0.67** | <= | 2.003 | 0.005 | 0.000 | 1.055 | 0.000 | **56.69** | **56.71** |
| 56.79 | 126.86 | 3.45 | 71.79 | 2.29 | 3.19% | 3.351 | 0.78 | 34.37 | 2.56 | 3.08 | 122 | 0.251 | 0.71 | 1.460 | 0.488 | | 0.51 | **0.71** | <= | 1.959 | 0.019 | 0.000 | 1.050 | 0.000 | **56.71** | **56.79** |
| 56.83 | 126.76 | 3.45 | 70.91 | 2.28 | 3.22% | 3.380 | 0.78 | 33.95 | 2.57 | 3.12 | 122 | 0.250 | 0.71 | 1.461 | 0.488 | | 0.51 | **0.71** | <= | 1.960 | 0.009 | 0.000 | 1.031 | 0.000 | **56.79** | **56.83** |
| 56.92 | 126.14 | 3.45 | 85.95 | 1.96 | 2.28% | 2.376 | 0.72 | 41.58 | 2.39 | 2.26 | 112 | 0.211 | 0.71 | 1.464 | 0.488 | | 0.43 | **0.59** | <= | 2.104 | 0.023 | 0.000 | 1.022 | 0.000 | **56.83** | **56.92** |
| 56.96 | 125.35 | 3.45 | 91.71 | 1.72 | 1.88% | 1.949 | 0.70 | 44.51 | 2.30 | 1.95 | 106 | 0.190 | 0.71 | 1.465 | 0.488 | | 0.39 | **0.53** | <= | 2.207 | 0.011 | 0.000 | 0.999 | 0.000 | **56.92** | **56.96** |
| 57.03 | 124.82 | 3.45 | 101.09 | 1.55 | 1.53% | 1.587 | 0.67 | 49.30 | 2.20 | 1.68 | 102 | 0.179 | 0.71 | 1.467 | 0.488 | | 0.37 | **0.51** | <= | 2.266 | 0.019 | 0.000 | 0.988 | 0.000 | **56.96** | **57.03** |
| 57.10 | 125.96 | 3.45 | 103.24 | 1.80 | 1.74% | 1.804 | 0.68 | 50.44 | 2.23 | 1.76 | 109 | 0.200 | 0.71 | 1.470 | 0.488 | | 0.41 | **0.56** | <= | 2.154 | 0.018 | 0.000 | 0.969 | 0.000 | **57.03** | **57.10** |
| 57.16 | 124.52 | 3.45 | 99.33 | 1.50 | 1.51% | 1.564 | 0.67 | 48.51 | 2.21 | 1.68 | 101 | 0.175 | 0.71 | 1.471 | 0.489 | | 0.36 | **0.49** | <= | 2.293 | 0.017 | 0.000 | 0.951 | 0.000 | **57.10** | **57.16** |
| 57.23 | 126.07 | 3.45 | 86.24 | 1.94 | 2.25% | 2.343 | 0.72 | 41.93 | 2.38 | 2.23 | 112 | 0.210 | 0.71 | 1.474 | 0.489 | | 0.43 | **0.59** | <= | 2.109 | 0.018 | 0.000 | 0.935 | 0.000 | **57.16** | **57.23** |
| 57.29 | 126.36 | 3.45 | 72.08 | 2.14 | 2.97% | 3.118 | 0.77 | 34.79 | 2.53 | 2.94 | 119 | 0.235 | 0.71 | 1.475 | 0.489 | | 0.48 | **0.66** | <= | 2.011 | 0.014 | 0.000 | 0.917 | 0.000 | **57.23** | **57.29** |
| 57.36 | 125.67 | 3.45 | 61.43 | 2.05 | 3.34% | 3.536 | 0.80 | 29.43 | 2.63 | 3.51 | 118 | 0.231 | 0.71 | 1.478 | 0.489 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.903 | 0.000 | | |
| 57.46 | 125.92 | 3.45 | 72.37 | 2.01 | 2.78% | 2.916 | 0.76 | 35.03 | 2.51 | 2.81 | 115 | 0.221 | 0.71 | 1.481 | 0.489 | | 0.45 | **0.62** | <= | 2.063 | 0.025 | 0.000 | 0.903 | 0.000 | **57.36** | **57.46** |
| 57.50 | 125.25 | 3.45 | 54.69 | 2.02 | 3.69% | 3.942 | 0.82 | 26.06 | 2.70 | 4.03 | 133 | 0.298 | 0.71 | 1.482 | 0.489 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.878 | 0.000 | | |
| 57.56 | 126.34 | 3.45 | 72.67 | 2.13 | 2.93% | 3.077 | 0.77 | 35.24 | 2.52 | 2.89 | 118 | 0.234 | 0.71 | 1.484 | 0.489 | | 0.48 | **0.66** | <= | 2.014 | 0.014 | 0.000 | 0.878 | 0.000 | **57.50** | **57.56** |
| 57.63 | 128.10 | 3.45 | 115.35 | 2.32 | 2.01% | 2.073 | 0.68 | 57.03 | 2.24 | 1.76 | 123 | 0.254 | 0.71 | 1.486 | 0.490 | | 0.52 | **0.71** | <= | 1.950 | 0.016 | 0.000 | 0.863 | 0.000 | **57.56** | **57.63** |
| 57.68 | 128.79 | 3.45 | 140.64 | 2.39 | 1.70% | 1.742 | 0.64 | 69.98 | 2.11 | 1.48 | 130 | 0.284 | 0.71 | 1.488 | 0.490 | | 0.58 | **0.80** | <= | 1.854 | 0.011 | 0.000 | 0.847 | 0.000 | **57.63** | **57.68** |
| 57.77 | 129.53 | 3.45 | 171.12 | 2.48 | 1.45% | 1.479 | 0.61 | 85.65 | 1.99 | 1.29 | 142 | 0.346 | 0.71 | 1.490 | 0.490 | | 0.71 | **0.97** | <= | 0.839 | 0.009 | 0.000 | 0.836 | 0.000 | **57.68** | **57.77** |
| 57.83 | 130.08 | 3.45 | 215.56 | 2.47 | 1.15% | 1.164 | 0.56 | 108.45 | 1.84 | 1.14 | 163 | 0.481 | 0.71 | 1.492 | 0.490 | | 0.98 | **1.35** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 57.88 | 130.23 | 3.45 | 233.23 | 2.46 | 1.05% | 1.071 | 0.54 | 117.58 | 1.78 | 1.10 | 172 | 0.552 | 0.71 | 1.494 | 0.490 | | 1.13 | **1.55** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 57.96 | 130.61 | 3.45 | 251.21 | 2.53 | 1.01% | 1.021 | 0.53 | 126.95 | 1.74 | 1.07 | 182 | 0.642 | 0.70 | 1.496 | 0.490 | | 1.31 | **1.80** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.01 | 130.85 | 3.45 | 255.99 | 2.59 | 1.01% | 1.026 | 0.53 | 129.50 | 1.74 | 1.06 | 185 | 0.671 | 0.70 | 1.498 | 0.490 | | 1.37 | **1.88** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.09 | 131.53 | 3.45 | 268.00 | 2.80 | 1.04% | 1.058 | 0.53 | 135.83 | 1.73 | 1.06 | 194 | 0.757 | 0.70 | 1.500 | 0.491 | | 1.54 | **2.12** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.14 | 131.91 | 3.45 | 275.43 | 2.92 | 1.06% | 1.074 | 0.53 | 139.76 | 1.73 | 1.06 | 199 | 0.812 | 0.70 | 1.502 | 0.491 | | 1.66 | **2.28** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.23 | 132.69 | 3.45 | 286.85 | 3.21 | 1.12% | 1.133 | 0.53 | 145.84 | 1.74 | 1.06 | 208 | 0.916 | 0.70 | 1.505 | 0.491 | | 1.87 | **2.57** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.27 | 133.01 | 3.45 | 291.05 | 3.34 | 1.15% | 1.161 | 0.53 | 148.09 | 1.74 | 1.06 | 211 | 0.959 | 0.70 | 1.506 | 0.491 | | 1.95 | **2.69** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.36 | 133.80 | 3.45 | 305.90 | 3.66 | 1.20% | 1.210 | 0.53 | 155.96 | 1.74 | 1.06 | 213 | 0.974 | 0.70 | 1.509 | 0.491 | | 1.98 | **2.73** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.41 | 134.05 | 3.45 | 317.72 | 3.73 | 1.17% | 1.187 | 0.52 | 162.19 | 1.72 | 1.05 | 210 | 0.943 | 0.70 | 1.510 | 0.491 | | 1.92 | **2.64** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.48 | 134.25 | 3.45 | 331.10 | 3.79 | 1.14% | 1.157 | 0.52 | 169.29 | 1.70 | 1.04 | 207 | 0.908 | 0.70 | 1.513 | 0.491 | | 1.85 | **2.54** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.55 | 134.36 | 3.45 | 346.82 | 3.78 | 1.09% | 1.101 | 0.51 | 177.61 | 1.67 | 1.01 | 203 | 0.857 | 0.70 | 1.515 | 0.492 | | 1.74 | **2.40** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.63 | 134.28 | 3.45 | 352.68 | 3.72 | 1.05% | 1.065 | 0.50 | 180.87 | 1.65 | 1.00 | 201 | 0.830 | 0.70 | 1.517 | 0.492 | | 1.69 | **2.32** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.68 | 134.14 | 3.45 | 354.83 | 3.65 | 1.03% | 1.039 | 0.50 | 182.13 | 1.64 | 1.00 | 200 | 0.824 | 0.70 | 1.519 | 0.492 | | 1.68 | **2.31** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.73 | 133.97 | 3.45 | 354.44 | 3.56 | 1.00% | 1.014 | 0.50 | 182.08 | 1.63 | 1.00 | 200 | 0.824 | 0.70 | 1.520 | 0.492 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.81 | 133.73 | 3.45 | 354.54 | 3.45 | 0.97% | 0.983 | 0.50 | 182.37 | 1.62 | 1.00 | 200 | 0.824 | 0.70 | 1.523 | 0.492 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.89 | 133.33 | 3.45 | 362.45 | 3.24 | 0.89% | 0.903 | 0.50 | 186.72 | 1.59 | 1.00 | 200 | 0.824 | 0.70 | 1.525 | 0.492 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 58.97 | 132.99 | 3.45 | 376.32 | 3.05 | 0.81% | 0.818 | 0.50 | 194.18 | 1.54 | 1.00 | 200 | 0.824 | 0.70 | 1.528 | 0.493 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.02 | 132.83 | 3.45 | 384.82 | 2.97 | 0.77% | 0.779 | 0.50 | 198.77 | 1.52 | 1.00 | 200 | 0.824 | 0.70 | 1.529 | 0.493 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-2

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

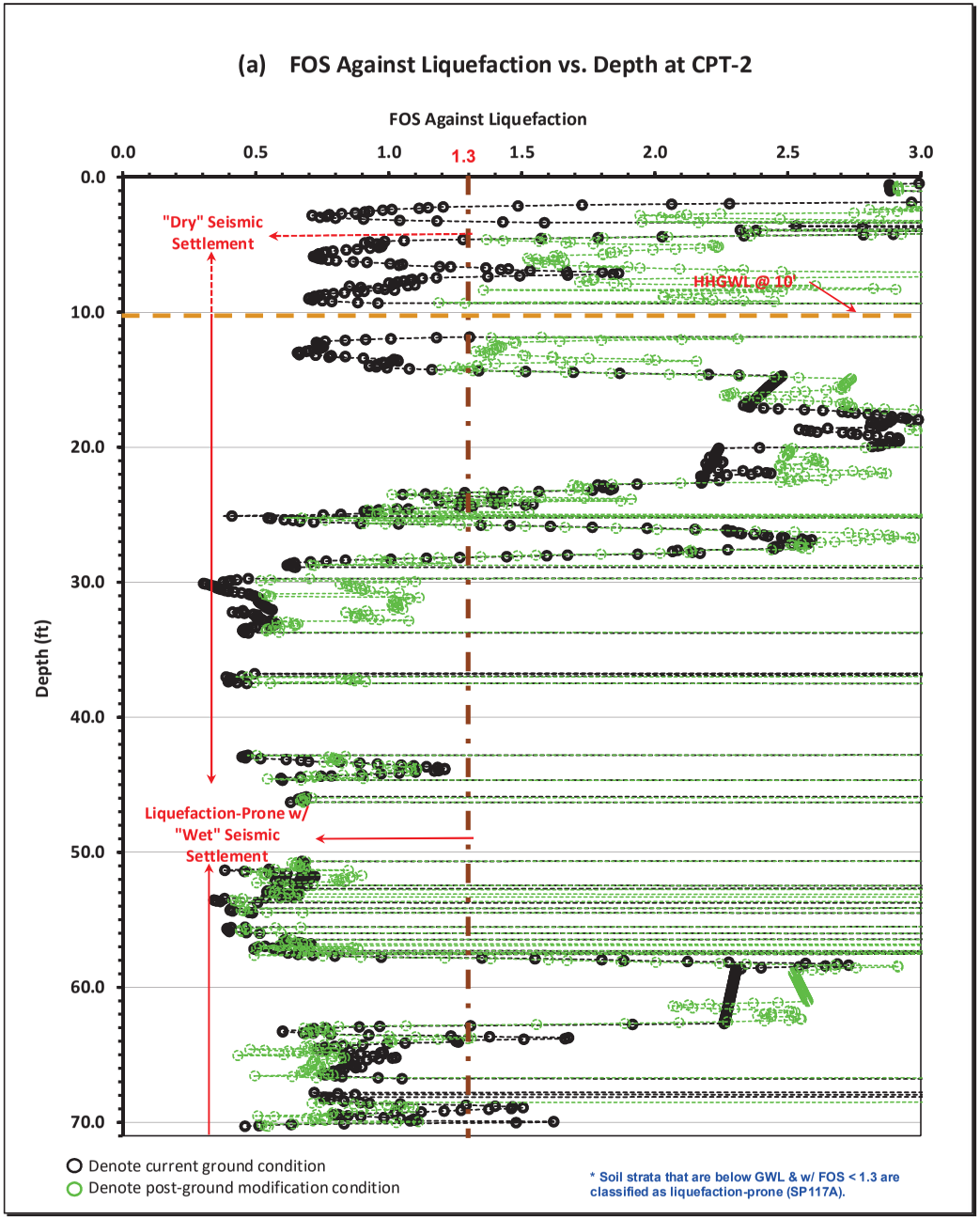
D(ft) 1 | **MAGNITUDE:** 6.62 | **MAGNITUDE SCALING FACTOR:** 1.38

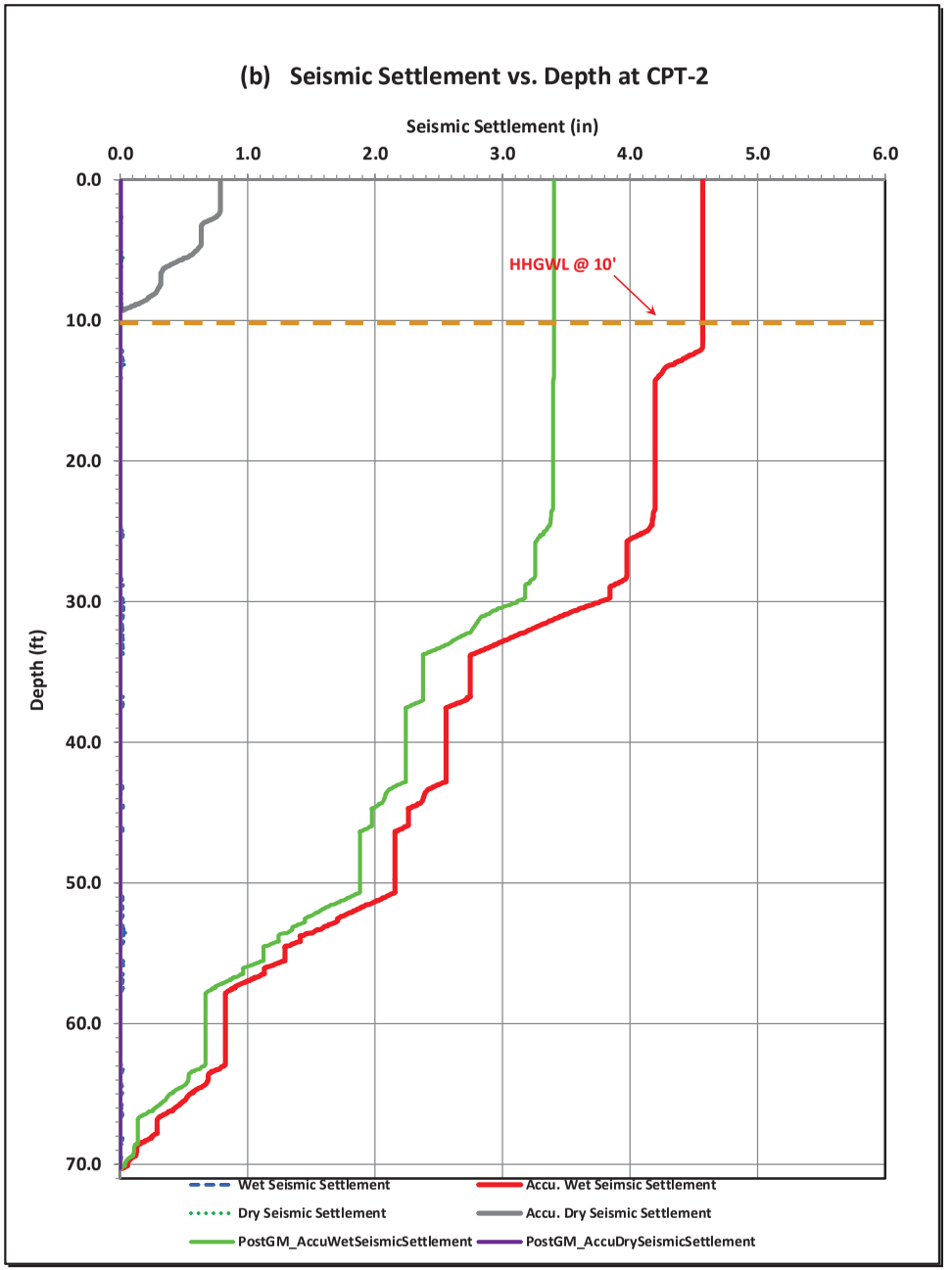
**GROUNDWATER LEVEL:** 10 feet | **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.07 | 132.77 | 3.45 | 388.63 | 2.93 | 0.75% | 0.761 | 0.50 | 200.92 | 1.51 | 1.00 | 200 | 0.824 | 0.70 | 1.531 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.16 | 132.80 | 3.45 | 390.38 | 2.94 | 0.75% | 0.760 | 0.50 | 202.13 | 1.51 | 1.00 | 200 | 0.824 | 0.69 | 1.534 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.21 | 132.82 | 3.45 | 391.36 | 2.95 | 0.75% | 0.760 | 0.50 | 202.81 | 1.51 | 1.00 | 200 | 0.824 | 0.69 | 1.535 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.26 | 132.85 | 3.45 | 391.75 | 2.96 | 0.76% | 0.762 | 0.50 | 203.18 | 1.51 | 1.00 | 200 | 0.824 | 0.69 | 1.537 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.33 | 133.03 | 3.45 | 390.97 | 3.03 | 0.77% | 0.782 | 0.50 | 203.00 | 1.52 | 1.00 | 200 | 0.824 | 0.69 | 1.539 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.39 | 133.16 | 3.45 | 386.77 | 3.10 | 0.80% | 0.809 | 0.50 | 201.00 | 1.53 | 1.00 | 200 | 0.824 | 0.69 | 1.541 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.47 | 133.43 | 3.45 | 376.03 | 3.24 | 0.86% | 0.870 | 0.50 | 195.62 | 1.56 | 1.00 | 200 | 0.824 | 0.69 | 1.543 | 0.494 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.52 | 133.55 | 3.45 | 374.27 | 3.30 | 0.88% | 0.890 | 0.50 | 194.86 | 1.57 | 1.00 | 200 | 0.824 | 0.69 | 1.545 | 0.494 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.60 | 133.54 | 3.45 | 367.24 | 3.32 | 0.90% | 0.913 | 0.50 | 191.41 | 1.58 | 1.00 | 200 | 0.824 | 0.69 | 1.548 | 0.494 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.66 | 133.48 | 3.45 | 367.92 | 3.29 | 0.89% | 0.903 | 0.50 | 191.96 | 1.58 | 1.00 | 200 | 0.824 | 0.69 | 1.549 | 0.494 | | 1.67 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.74 | 132.53 | 3.45 | 368.80 | 2.89 | 0.78% | 0.791 | 0.50 | 192.68 | 1.54 | 1.00 | 200 | 0.824 | 0.69 | 1.552 | 0.494 | | 1.67 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.79 | 131.45 | 3.45 | 370.85 | 2.49 | 0.67% | 0.678 | 0.50 | 193.92 | 1.49 | 1.00 | 200 | 0.824 | 0.69 | 1.553 | 0.494 | | 1.67 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.87 | 131.42 | 3.45 | 374.17 | 2.47 | 0.66% | 0.666 | 0.50 | 195.93 | 1.48 | 1.00 | 200 | 0.824 | 0.69 | 1.556 | 0.495 | | 1.67 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 59.91 | 131.41 | 3.45 | 373.19 | 2.47 | 0.66% | 0.668 | 0.50 | 195.54 | 1.48 | 1.00 | 200 | 0.824 | 0.69 | 1.557 | 0.495 | | 1.67 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.01 | 131.52 | 3.45 | 371.83 | 2.51 | 0.68% | 0.681 | 0.50 | 195.14 | 1.49 | 1.00 | 200 | 0.824 | 0.69 | 1.560 | 0.495 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.05 | 131.21 | 3.45 | 337.06 | 2.48 | 0.74% | 0.743 | 0.50 | 176.84 | 1.54 | 1.00 | 200 | 0.824 | 0.69 | 1.562 | 0.495 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.14 | 131.47 | 3.45 | 359.62 | 2.52 | 0.70% | 0.708 | 0.50 | 189.08 | 1.51 | 1.00 | 200 | 0.824 | 0.69 | 1.564 | 0.495 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.19 | 131.76 | 3.45 | 359.13 | 2.62 | 0.73% | 0.737 | 0.50 | 188.98 | 1.52 | 1.00 | 200 | 0.824 | 0.69 | 1.566 | 0.495 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.26 | 132.22 | 3.45 | 357.66 | 2.80 | 0.78% | 0.790 | 0.50 | 188.42 | 1.54 | 1.00 | 200 | 0.824 | 0.69 | 1.568 | 0.496 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.32 | 132.47 | 3.45 | 358.15 | 2.89 | 0.81% | 0.815 | 0.50 | 188.86 | 1.55 | 1.00 | 200 | 0.824 | 0.69 | 1.570 | 0.496 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.37 | 132.67 | 3.45 | 360.30 | 2.96 | 0.82% | 0.829 | 0.50 | 190.17 | 1.56 | 1.00 | 200 | 0.824 | 0.69 | 1.572 | 0.496 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.45 | 132.81 | 3.45 | 364.21 | 3.01 | 0.83% | 0.834 | 0.50 | 192.51 | 1.56 | 1.00 | 200 | 0.824 | 0.68 | 1.574 | 0.496 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.57 | 132.97 | 3.45 | 373.19 | 3.05 | 0.82% | 0.825 | 0.50 | 197.69 | 1.54 | 1.00 | 200 | 0.824 | 0.68 | 1.578 | 0.496 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.59 | 133.00 | 3.45 | 372.90 | 3.07 | 0.82% | 0.831 | 0.50 | 197.60 | 1.55 | 1.00 | 200 | 0.824 | 0.68 | 1.578 | 0.496 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.63 | 133.06 | 3.45 | 371.73 | 3.10 | 0.83% | 0.842 | 0.50 | 197.11 | 1.55 | 1.00 | 200 | 0.824 | 0.68 | 1.580 | 0.496 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.72 | 133.05 | 3.45 | 368.70 | 3.10 | 0.84% | 0.849 | 0.50 | 195.78 | 1.56 | 1.00 | 200 | 0.824 | 0.68 | 1.582 | 0.497 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.77 | 132.93 | 3.45 | 367.14 | 3.05 | 0.83% | 0.839 | 0.50 | 195.11 | 1.55 | 1.00 | 200 | 0.824 | 0.68 | 1.584 | 0.497 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.85 | 132.51 | 3.45 | 355.81 | 2.91 | 0.82% | 0.826 | 0.50 | 189.28 | 1.56 | 1.00 | 200 | 0.824 | 0.68 | 1.587 | 0.497 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.89 | 132.25 | 3.45 | 351.02 | 2.82 | 0.80% | 0.811 | 0.50 | 186.84 | 1.56 | 1.00 | 200 | 0.824 | 0.68 | 1.588 | 0.497 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 60.98 | 131.46 | 3.45 | 334.52 | 2.58 | 0.77% | 0.779 | 0.50 | 178.24 | 1.56 | 1.00 | 200 | 0.824 | 0.68 | 1.591 | 0.497 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.04 | 131.07 | 3.45 | 324.46 | 2.47 | 0.76% | 0.769 | 0.50 | 172.99 | 1.56 | 1.00 | 200 | 0.824 | 0.68 | 1.592 | 0.497 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.12 | 130.53 | 3.45 | 315.18 | 2.32 | 0.74% | 0.744 | 0.50 | 168.22 | 1.56 | 1.00 | 200 | 0.824 | 0.68 | 1.595 | 0.498 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.16 | 130.32 | 3.45 | 310.78 | 2.26 | 0.73% | 0.735 | 0.50 | 165.96 | 1.56 | 1.00 | 200 | 0.824 | 0.68 | 1.596 | 0.498 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.24 | 129.81 | 3.45 | 302.68 | 2.13 | 0.70% | 0.712 | 0.50 | 161.80 | 1.56 | 1.00 | 200 | 0.824 | 0.68 | 1.599 | 0.498 | | 1.65 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.30 | 129.33 | 3.45 | 298.67 | 2.00 | 0.67% | 0.677 | 0.50 | 159.79 | 1.55 | 1.00 | 200 | 0.824 | 0.68 | 1.601 | 0.498 | | 1.65 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.38 | 128.84 | 3.45 | 295.74 | 1.88 | 0.64% | 0.643 | 0.50 | 158.42 | 1.54 | 1.00 | 200 | 0.824 | 0.68 | 1.603 | 0.498 | | 1.65 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.44 | 128.64 | 3.45 | 296.62 | 1.83 | 0.62% | 0.624 | 0.50 | 159.06 | 1.53 | 1.00 | 200 | 0.824 | 0.68 | 1.605 | 0.498 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.52 | 128.65 | 3.45 | 299.75 | 1.82 | 0.61% | 0.614 | 0.50 | 160.98 | 1.52 | 1.00 | 200 | 0.824 | 0.68 | 1.607 | 0.499 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.59 | 126.53 | 3.45 | 304.24 | 1.36 | 0.45% | 0.452 | 0.50 | 163.61 | 1.43 | 1.00 | 200 | 0.824 | 0.68 | 1.610 | 0.499 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.62 | 126.16 | 3.45 | 307.85 | 1.29 | 0.42% | 0.424 | 0.50 | 165.66 | 1.41 | 1.00 | 200 | 0.824 | 0.67 | 1.611 | 0.499 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.74 | 126.59 | 3.45 | 317.72 | 1.35 | 0.42% | 0.430 | 0.50 | 171.38 | 1.40 | 1.00 | 200 | 0.824 | 0.67 | 1.614 | 0.499 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.78 | 126.85 | 3.45 | 318.30 | 1.40 | 0.44% | 0.445 | 0.50 | 171.81 | 1.41 | 1.00 | 200 | 0.824 | 0.67 | 1.616 | 0.499 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.82 | 127.13 | 3.45 | 318.89 | 1.45 | 0.45% | 0.460 | 0.50 | 172.25 | 1.42 | 1.00 | 200 | 0.824 | 0.67 | 1.617 | 0.499 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.90 | 127.34 | 3.45 | 314.79 | 1.50 | 0.48% | 0.482 | 0.50 | 170.24 | 1.44 | 1.00 | 200 | 0.824 | 0.67 | 1.619 | 0.500 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 61.96 | 127.28 | 3.45 | 313.66 | 1.49 | 0.48% | 0.480 | 0.50 | 169.80 | 1.44 | 1.00 | 200 | 0.824 | 0.67 | 1.621 | 0.500 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.02 | 127.54 | 3.45 | 314.93 | 1.54 | 0.49% | 0.494 | 0.50 | 170.67 | 1.44 | 1.00 | 200 | 0.824 | 0.67 | 1.623 | 0.500 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.09 | 128.01 | 3.45 | 312.54 | 1.64 | 0.52% | 0.531 | 0.50 | 169.56 | 1.46 | 1.00 | 200 | 0.824 | 0.67 | 1.625 | 0.500 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.16 | 128.69 | 3.45 | 315.08 | 1.80 | 0.57% | 0.578 | 0.50 | 171.16 | 1.49 | 1.00 | 200 | 0.824 | 0.67 | 1.627 | 0.500 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.22 | 129.06 | 3.45 | 319.18 | 1.89 | 0.59% | 0.599 | 0.50 | 173.59 | 1.49 | 1.00 | 200 | 0.824 | 0.67 | 1.629 | 0.500 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.31 | 129.35 | 3.45 | 320.26 | 1.96 | 0.61% | 0.619 | 0.50 | 174.46 | 1.50 | 1.00 | 200 | 0.824 | 0.67 | 1.632 | 0.501 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.36 | 129.35 | 3.45 | 320.55 | 1.96 | 0.61% | 0.618 | 0.50 | 174.77 | 1.50 | 1.00 | 200 | 0.824 | 0.67 | 1.634 | 0.501 | | 1.65 | 2.26 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.44 | 129.42 | 3.45 | 318.50 | 1.98 | 0.62% | 0.628 | 0.50 | 173.88 | 1.51 | 1.00 | 200 | 0.824 | 0.67 | 1.636 | 0.501 | | 1.65 | 2.26 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.49 | 129.58 | 3.45 | 314.20 | 2.03 | 0.65% | 0.653 | 0.50 | 171.65 | 1.52 | 1.00 | 200 | 0.824 | 0.67 | 1.638 | 0.501 | | 1.64 | 2.26 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.55 | 130.31 | 3.45 | 307.46 | 2.26 | 0.74% | 0.743 | 0.50 | 168.10 | 1.57 | 1.00 | 200 | 0.824 | 0.67 | 1.640 | 0.501 | | 1.64 | 2.26 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.61 | 130.32 | 3.45 | 298.09 | 2.29 | 0.77% | 0.777 | 0.50 | 163.09 | 1.59 | 1.00 | 200 | 0.824 | 0.67 | 1.641 | 0.501 | | 1.64 | 2.26 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.67 | 130.12 | 3.45 | 284.32 | 2.27 | 0.80% | 0.808 | 0.50 | 155.63 | 1.62 | 1.00 | 200 | 0.824 | 0.67 | 1.643 | 0.501 | | 1.64 | 2.26 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.75 | 129.58 | 3.45 | 258.82 | 2.17 | 0.84% | 0.850 | 0.51 | 141.69 | 1.66 | 1.01 | 188 | 0.699 | 0.67 | 1.646 | 0.502 | | 1.39 | 1.92 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.84 | 128.62 | 3.45 | 212.14 | 2.03 | 0.96% | 0.973 | 0.54 | 115.97 | 1.77 | 1.09 | 162 | 0.477 | 0.66 | 1.649 | 0.502 | | 0.95 | 1.31 | | 0.000 | 0.000 | 0.000 | 0.827 | 0.000 | | |
| 62.89 | 127.86 | 3.45 | 177.76 | 1.95 | 1.10% | 1.119 | 0.57 | 96.95 | 1.88 | 1.17 | 143 | 0.352 | 0.66 | 1.650 | 0.502 | | 0.70 | 0.97 | <= | 0.813 | 0.005 | 0.000 | 0.827 | 0.000 | 62.84 | 62.89 |
| 62.93 | 127.49 | 3.45 | 169.46 | 1.88 | 1.11% | 1.132 | 0.58 | 92.40 | 1.90 | 1.18 | 138 | 0.324 | 0.66 | 1.651 | 0.502 | | 0.65 | 0.89 | <= | 1.236 | 0.006 | 0.000 | 0.822 | 0.000 | 62.89 | 62.93 |
| 63.02 | 127.37 | 3.45 | 147.29 | 1.94 | 1.32% | 1.349 | 0.61 | 80.19 | 2.00 | 1.30 | 129 | 0.279 | 0.66 | 1.654 | 0.502 | | 0.56 | 0.76 | <= | 1.710 | 0.018 | 0.000 | 0.816 | 0.000 | 62.93 | 63.02 |
| 63.06 | 127.03 | 3.45 | 140.84 | 1.88 | 1.33% | 1.368 | 0.61 | 76.64 | 2.02 | 1.32 | 125 | 0.263 | 0.66 | 1.655 | 0.502 | | 0.52 | 0.72 | <= | 1.556 | 0.007 | 0.000 | 0.797 | 0.000 | 63.02 | 63.06 |
| 63.13 | 127.16 | 3.45 | 133.42 | 1.95 | 1.46% | 1.500 | 0.63 | 72.59 | 2.06 | 1.39 | 124 | 0.257 | 0.66 | 1.658 | 0.503 | | 0.51 | 0.70 | <= | 1.506 | 0.013 | 0.000 | 0.790 | 0.000 | 63.06 | 63.13 |
| 63.24 | 125.09 | 3.45 | 132.64 | 1.47 | 1.11% | 1.138 | 0.60 | 72.30 | 1.98 | 1.28 | 115 | 0.220 | 0.66 | 1.661 | 0.503 | | 0.44 | 0.60 | <= | 2.067 | 0.027 | 0.000 | 0.777 | 0.000 | 63.13 | 63.24 |
| 63.29 | 124.74 | 3.45 | 135.86 | 1.39 | 1.02% | 1.050 | 0.59 | 74.16 | 1.95 | 1.24 | 115 | 0.220 | 0.66 | 1.663 | 0.503 | | 0.44 | 0.60 | <= | 2.067 | 0.012 | 0.000 | 0.750 | 0.000 | 63.24 | 63.29 |
| 63.37 | 125.24 | 3.45 | 149.24 | 1.44 | 0.96% | 0.988 | 0.58 | 81.77 | 1.90 | 1.19 | 122 | 0.248 | 0.66 | 1.665 | 0.503 | | 0.49 | 0.68 | <= | 1.966 | 0.019 | 0.000 | 0.738 | 0.000 | 63.29 | 63.37 |
| 63.39 | 125.37 | 3.45 | 155.10 | 1.45 | 0.93% | 0.956 | 0.57 | 85.09 | 1.87 | 1.17 | 125 | 0.262 | 0.66 | 1.666 | 0.503 | | 0.52 | 0.72 | <= | 1.541 | 0.004 | 0.000 | 0.719 | 0.000 | 63.37 | 63.39 |
| 63.47 | 125.57 | 3.45 | 164.96 | 1.46 | 0.89% | 0.904 | 0.56 | 90.75 | 1.84 | 1.13 | 130 | 0.286 | 0.66 | 1.668 | 0.504 | | 0.57 | 0.78 | <= | 1.621 | 0.016 | 0.000 | 0.715 | 0.000 | 63.39 | 63.47 |
| 63.53 | 127.26 | 3.45 | 175.41 | 1.80 | 1.03% | 1.047 | 0.57 | 96.72 | 1.86 | 1.15 | 141 | 0.338 | 0.66 | 1.670 | 0.504 | | 0.67 | 0.92 | <= | 0.712 | 0.005 | 0.000 | 0.699 | 0.000 | 63.47 | 63.53 |
| 63.60 | 130.07 | 3.45 | 190.94 | 2.57 | 1.35% | 1.371 | 0.58 | 105.58 | 1.91 | 1.20 | 159 | 0.452 | 0.66 | 1.672 | 0.504 | | 0.90 | 1.23 | <= | 0.233 | 0.002 | 0.000 | 0.694 | 0.000 | 63.53 | 63.60 |
| 63.66 | 130.50 | 3.45 | 202.86 | 2.67 | 1.32% | 1.339 | 0.57 | 112.42 | 1.89 | 1.18 | 166 | 0.505 | 0.66 | 1.674 | 0.504 | | 1.00 | 1.38 | | 0.000 | 0.000 | 0.000 | 0.692 | 0.000 | | |
| 63.73 | 130.94 | 3.45 | 226.40 | 2.73 | 1.21% | 1.224 | 0.55 | 125.84 | 1.82 | 1.12 | 179 | 0.614 | 0.66 | 1.676 | 0.504 | | 1.22 | 1.68 | | 0.000 | 0.000 | 0.000 | 0.692 | 0.000 | | |
| 63.80 | 130.92 | 3.45 | 225.23 | 2.73 | 1.21% | 1.231 | 0.56 | 125.34 | 1.82 | 1.12 | 179 | 0.609 | 0.66 | 1.679 | 0.504 | | 1.21 | 1.66 | | 0.000 | 0.000 | 0.000 | 0.692 | 0.000 | | |
| 63.85 | 130.45 | 3.45 | 215.46 | 2.60 | 1.21% | 1.226 | 0.56 | 119.92 | 1.84 | 1.13 | 172 | 0.553 | 0.66 | 1.680 | 0.505 | | 1.10 | 1.51 | | 0.000 | 0.000 | 0.000 | 0.692 | 0.000 | | |
| 63.95 | 129.87 | 3.45 | 194.46 | 2.48 | 1.28% | 1.298 | 0.57 | 108.23 | 1.89 | 1.18 | 160 | 0.459 | 0.66 | 1.683 | 0.505 | | 0.91 | 1.25 | <= | 0.247 | 0.003 | 0.000 | 0.692 | 0.000 | 63.85 | 63.95 |
| 64.00 | 130.00 | 3.45 | 193.39 | 2.53 | 1.31% | 1.332 | 0.58 | 107.72 | 1.90 | 1.19 | 160 | 0.460 | 0.66 | 1.685 | 0.505 | | 0.91 | 1.25 | <= | 0.249 | 0.001 | 0.000 | 0.689 | 0.000 | 63.95 | 64.00 |
| 64.05 | 130.06 | 3.45 | 193.58 | 2.55 | 1.32% | 1.341 | 0.58 | 107.92 | 1.90 | 1.19 | 160 | 0.463 | 0.66 | 1.686 | 0.505 | | 0.92 | 1.26 | <= | 0.255 | 0.002 | 0.000 | 0.688 | 0.000 | 64.00 | 64.05 |
| 64.13 | 129.37 | 3.45 | 174.44 | 2.41 | 1.38% | 1.409 | 0.59 | 97.20 | 1.95 | 1.24 | 149 | 0.390 | 0.65 | 1.689 | 0.505 | | 0.77 | 1.06 | <= | 0.535 | 0.005 | 0.000 | 0.686 | 0.000 | 64.05 | 64.13 |
| 64.17 | 128.81 | 3.45 | 170.63 | 2.25 | 1.32% | 1.346 | 0.59 | 95.10 | 1.94 | 1.23 | 145 | 0.365 | 0.65 | 1.690 | 0.505 | | 0.72 | 0.99 | <= | 0.872 | 0.004 | 0.000 | 0.681 | 0.000 | 64.13 | 64.17 |
| 64.26 | 128.02 | 3.45 | 164.38 | 2.04 | 1.24% | 1.268 | 0.59 | 91.69 | 1.94 | 1.23 | 139 | 0.331 | 0.65 | 1.693 | 0.506 | | 0.66 | 0.90 | <= | 0.653 | 0.007 | 0.000 | 0.677 | 0.000 | 64.17 | 64.26 |
| 64.31 | 127.63 | 3.45 | 155.68 | 1.97 | 1.27% | 1.294 | 0.60 | 86.81 | 1.96 | 1.25 | 134 | 0.305 | 0.65 | 1.694 | 0.506 | | 0.60 | 0.83 | <= | 1.096 | 0.007 | 0.000 | 0.670 | 0.000 | 64.26 | 64.31 |
| 64.37 | 127.50 | 3.45 | 150.22 | 1.96 | 1.30% | 1.335 | 0.60 | 83.79 | 1.98 | 1.28 | 132 | 0.293 | 0.65 | 1.696 | 0.506 | | 0.58 | 0.80 | <= | 1.828 | 0.013 | 0.000 | 0.663 | 0.000 | 64.31 | 64.37 |
| 64.44 | 127.36 | 3.45 | 143.67 | 1.95 | 1.36% | 1.391 | 0.61 | 80.15 | 2.01 | 1.31 | 129 | 0.279 | 0.65 | 1.699 | 0.506 | | 0.55 | 0.76 | <= | 1.688 | 0.014 | 0.000 | 0.650 | 0.000 | 64.37 | 64.44 |
| 64.53 | 127.53 | 3.45 | 131.66 | 2.06 | 1.56% | 1.607 | 0.63 | 73.40 | 2.09 | 1.43 | 127 | 0.270 | 0.65 | 1.701 | 0.506 | | 0.53 | 0.73 | <= | 1.593 | 0.017 | 0.000 | 0.636 | 0.000 | 64.44 | 64.53 |
| 64.58 | 127.79 | 3.45 | 122.58 | 2.18 | 1.78% | 1.830 | 0.65 | 68.26 | 2.15 | 1.55 | 127 | 0.270 | 0.65 | 1.703 | 0.507 | | 0.53 | 0.73 | <= | 1.903 | 0.011 | 0.000 | 0.619 | 0.000 | 64.53 | 64.58 |
| 64.65 | 128.20 | 3.45 | 112.71 | 2.37 | 2.10% | 2.169 | 0.68 | 62.69 | 2.23 | 1.75 | 130 | 0.282 | 0.65 | 1.705 | 0.507 | | 0.56 | 0.77 | <= | 1.872 | 0.016 | 0.000 | 0.607 | 0.000 | 64.58 | 64.65 |
| 64.71 | 128.83 | 3.45 | 104.12 | 2.66 | 2.55% | 2.642 | 0.70 | 57.82 | 2.32 | 2.02 | 136 | 0.314 | 0.65 | 1.707 | 0.507 | | 0.62 | 0.85 | <= | 1.416 | 0.010 | 0.000 | 0.592 | 0.000 | 64.65 | 64.71 |
| 64.82 | 129.27 | 3.45 | 90.05 | 2.96 | 3.29% | 3.418 | 0.74 | 49.84 | 2.45 | 2.54 | 145 | 0.361 | 0.65 | 1.710 | 0.507 | | 0.71 | 0.98 | <= | 0.837 | 0.011 | 0.000 | 0.582 | 0.000 | 64.71 | 64.82 |
| 64.84 | 129.69 | 3.45 | 105.29 | 2.97 | 2.82% | 2.916 | 0.71 | 58.63 | 2.35 | 2.12 | 144 | 0.357 | 0.65 | 1.711 | 0.507 | | 0.70 | 0.97 | <= | 0.816 | 0.002 | 0.000 | 0.571 | 0.000 | 64.82 | 64.84 |
| 64.93 | 128.77 | 3.45 | 91.52 | 2.75 | 3.00% | 3.122 | 0.73 | 50.78 | 2.42 | 2.39 | 139 | 0.329 | 0.65 | 1.714 | 0.508 | | 0.65 | 0.89 | <= | 1.714 | 0.019 | 0.000 | 0.569 | 0.000 | 64.84 | 64.93 |
| 64.98 | 128.68 | 3.45 | 106.46 | 2.58 | 2.42% | 2.505 | 0.70 | 59.45 | 2.30 | 1.94 | 134 | 0.306 | 0.65 | 1.715 | 0.508 | | 0.60 | 0.83 | <= | 1.233 | 0.007 | 0.000 | 0.550 | 0.000 | 64.93 | 64.98 |
| 65.04 | 128.78 | 3.45 | 130.29 | 2.45 | 1.88% | 1.932 | 0.65 | 73.28 | 2.15 | 1.54 | 135 | 0.309 | 0.65 | 1.717 | 0.508 | | 0.61 | 0.84 | <= | 1.109 | 0.008 | 0.000 | 0.543 | 0.000 | 64.98 | 65.04 |
| 65.11 | 129.03 | 3.45 | 156.37 | 2.38 | 1.52% | 1.556 | 0.61 | 88.46 | 2.02 | 1.32 | 142 | 0.348 | 0.65 | 1.719 | 0.508 | | 0.68 | 0.94 | <= | 0.751 | 0.006 | 0.000 | 0.535 | 0.000 | 65.04 | 65.11 |
| 65.20 | 128.76 | 3.45 | 173.95 | 2.22 | 1.28% | 1.302 | 0.58 | 98.79 | 1.92 | 1.21 | 148 | 0.379 | 0.65 | 1.722 | 0.508 | | 0.75 | 1.03 | <= | 0.476 | 0.005 | 0.000 | 0.528 | 0.000 | 65.11 | 65.20 |
| 65.24 | 128.29 | 3.45 | 176.49 | 2.07 | 1.17% | 1.196 | 0.58 | 100.34 | 1.89 | 1.18 | 147 | 0.374 | 0.65 | 1.723 | 0.508 | | 0.74 | 1.01 | <= | 0.453 | 0.002 | 0.000 | 0.523 | 0.000 | 65.20 | 65.24 |
| 65.29 | 127.62 | 3.45 | 175.12 | 1.89 | 1.08% | 1.101 | 0.57 | 99.63 | 1.87 | 1.16 | 144 | 0.356 | 0.65 | 1.725 | 0.509 | | 0.70 | 0.96 | <= | 0.801 | 0.005 | 0.000 | 0.521 | 0.000 | 65.24 | 65.29 |
| 65.37 | 127.44 | 3.45 | 170.14 | 1.86 | 1.09% | 1.116 | 0.57 | 96.88 | 1.88 | 1.17 | 141 | 0.340 | 0.64 | 1.728 | 0.509 | | 0.67 | 0.92 | <= | 0.694 | 0.007 | 0.000 | 0.516 | 0.000 | 65.29 | 65.37 |
| 65.46 | 127.56 | 3.45 | 161.25 | 1.93 | 1.20% | 1.223 | 0.59 | 91.87 | 1.93 | 1.22 | 138 | 0.322 | 0.64 | 1.730 | 0.509 | | 0.63 | 0.87 | <= | 1.183 | 0.013 | 0.000 | 0.510 | 0.000 | 65.37 | 65.46 |
| 65.51 | 127.72 | 3.45 | 155.68 | 2.00 | 1.28% | 1.314 | 0.60 | 88.71 | 1.96 | 1.25 | 136 | 0.314 | 0.64 | 1.732 | 0.509 | | 0.62 | 0.85 | <= | 1.136 | 0.007 | 0.000 | 0.497 | 0.000 | 65.46 | 65.51 |
| 65.55 | 127.96 | 3.45 | 153.24 | 2.07 | 1.35% | 1.382 | 0.60 | 87.35 | 1.98 | 1.28 | 136 | 0.315 | 0.64 | 1.733 | 0.509 | | 0.62 | 0.85 | <= | 1.139 | 0.005 | 0.000 | 0.490 | 0.000 | 65.51 | 65.55 |
| 65.64 | 128.12 | 3.45 | 147.77 | 2.14 | 1.45% | 1.483 | 0.61 | 84.30 | 2.02 | 1.32 | 135 | 0.310 | 0.64 | 1.736 | 0.510 | | 0.61 | 0.84 | <= | 1.106 | 0.012 | 0.000 | 0.485 | 0.000 | 65.55 | 65.64 |
| 65.68 | 128.16 | 3.45 | 146.70 | 2.16 | 1.47% | 1.508 | 0.62 | 83.73 | 2.02 | 1.33 | 135 | 0.310 | 0.64 | 1.737 | 0.510 | | 0.61 | 0.84 | <= | 1.105 | 0.005 | 0.000 | 0.473 | 0.000 | 65.64 | 65.68 |
| 65.78 | 128.48 | 3.45 | 147.72 | 2.25 | 1.52% | 1.560 | 0.62 | 84.48 | 2.03 | 1.34 | 137 | 0.321 | 0.64 | 1.740 | 0.510 | | 0.63 | 0.87 | <= | 1.172 | 0.014 | 0.000 | 0.467 | 0.000 | 65.68 | 65.78 |
| 65.84 | 128.68 | 3.45 | 145.62 | 2.33 | 1.60% | 1.639 | 0.62 | 83.34 | 2.05 | 1.38 | 138 | 0.325 | 0.64 | 1.742 | 0.510 | | 0.64 | 0.88 | <= | 1.195 | 0.009 | 0.000 | 0.453 | 0.000 | 65.78 | 65.84 |
| 65.90 | 128.85 | 3.45 | 147.68 | 2.37 | 1.60% | 1.643 | 0.62 | 84.64 | 2.05 | 1.37 | 140 | 0.333 | 0.64 | 1.744 | 0.510 | | 0.65 | 0.90 | <= | 1.244 | 0.009 | 0.000 | 0.445 | 0.000 | 65.84 | 65.90 |
| 65.95 | 128.47 | 3.45 | 149.73 | 2.24 | 1.50% | 1.531 | 0.61 | 85.93 | 2.02 | 1.33 | 138 | 0.325 | 0.64 | 1.746 | 0.510 | | 0.64 | 0.88 | <= | 1.195 | 0.007 | 0.000 | 0.436 | 0.000 | 65.90 | 65.95 |
| 66.04 | 127.56 | 3.45 | 153.54 | 1.96 | 1.28% | 1.306 | 0.60 | 88.31 | 1.96 | 1.25 | 135 | 0.309 | 0.64 | 1.748 | 0.511 | | 0.60 | 0.83 | <= | 1.094 | 0.012 | 0.000 | 0.428 | 0.000 | 65.95 | 66.04 |
| 66.08 | 127.29 | 3.45 | 153.54 | 1.89 | 1.23% | 1.259 | 0.59 | 88.37 | 1.95 | 1.24 | 134 | 0.303 | 0.64 | 1.750 | 0.511 | | 0.59 | 0.82 | <= | 1.057 | 0.005 | 0.000 | 0.417 | 0.000 | 66.04 | 66.08 |
| 66.21 | 126.98 | 3.45 | 151.58 | 1.82 | 1.20% | 1.229 | 0.59 | 87.43 | 1.95 | 1.24 | 132 | 0.294 | 0.64 | 1.754 | 0.511 | | 0.57 | 0.79 | <= | 1.800 | 0.028 | 0.000 | 0.412 | 0.000 | 66.08 | 66.21 |
| 66.23 | 127.22 | 3.45 | 150.31 | 1.89 | 1.26% | 1.287 | 0.60 | 86.71 | 1.96 | 1.26 | 133 | 0.297 | 0.64 | 1.754 | 0.511 | | 0.58 | 0.80 | <= | 1.832 | 0.004 | 0.000 | 0.384 | 0.000 | 66.21 | 66.23 |
| 66.28 | 127.28 | 3.45 | 149.43 | 1.90 | 1.27% | 1.302 | 0.60 | 86.27 | 1.97 | 1.26 | 132 | 0.296 | 0.64 | 1.756 | 0.511 | | 0.58 | 0.80 | <= | 1.822 | 0.011 | 0.000 | 0.379 | 0.000 | 66.23 | 66.28 |
| 66.35 | 126.92 | 3.45 | 145.33 | 1.83 | 1.26% | 1.290 | 0.60 | 83.96 | 1.98 | 1.27 | 129 | 0.282 | 0.64 | 1.758 | 0.512 | | 0.55 | 0.76 | <= | 1.674 | 0.014 | 0.000 | 0.368 | 0.000 | 66.28 | 66.35 |
| 66.44 | 127.29 | 3.45 | 138.10 | 1.96 | 1.42% | 1.456 | 0.62 | 79.81 | 2.03 | 1.34 | 129 | 0.280 | 0.64 | 1.761 | 0.512 | | 0.55 | 0.75 | <= | 1.648 | 0.018 | 0.000 | 0.354 | 0.000 | 66.35 | 66.44 |
| 66.48 | 127.67 | 3.45 | 133.42 | 2.09 | 1.57% | 1.608 | 0.63 | 77.09 | 2.07 | 1.41 | 130 | 0.284 | 0.64 | 1.762 | 0.512 | | 0.55 | 0.76 | <= | 1.690 | 0.008 | 0.000 | 0.336 | 0.000 | 66.44 | 66.48 |
| 66.56 | 128.37 | 3.45 | 121.11 | 2.37 | 1.96% | 2.014 | 0.66 | 69.90 | 2.18 | 1.61 | 133 | 0.297 | 0.63 | 1.765 | 0.512 | | 0.58 | 0.80 | <= | 1.829 | 0.018 | 0.000 | 0.328 | 0.000 | 66.48 | 66.56 |
| 66.61 | 128.41 | 3.45 | 100.21 | 2.54 | 2.53% | 2.625 | 0.71 | 57.53 | 2.32 | 2.03 | 135 | 0.307 | 0.63 | 1.766 | 0.512 | | 0.60 | 0.82 | <= | 1.191 | 0.007 | 0.000 | 0.311 | 0.000 | 66.56 | 66.61 |
| 66.69 | 129.22 | 3.45 | 94.93 | 2.89 | 3.04% | 3.159 | 0.73 | 54.47 | 2.40 | 2.32 | 144 | 0.358 | 0.63 | 1.769 | 0.513 | | 0.70 | 0.96 | <= | 0.791 | 0.008 | 0.000 | 0.304 | 0.000 | 66.61 | 66.69 |
| 66.76 | 129.17 | 3.45 | 80.48 | 3.03 | 3.76% | 3.933 | 0.77 | 45.93 | 2.53 | 2.91 | 150 | 0.391 | 0.63 | 1.771 | 0.513 | | 0.76 | 1.05 | <= | 0.513 | 0.004 | 0.000 | 0.296 | 0.000 | 66.69 | 66.76 |
| 66.82 | 128.59 | 3.45 | 66.61 | 2.98 | 4.47% | 4.718 | 0.80 | 37.70 | 2.65 | 3.64 | 151 | 0.399 | 0.63 | 1.773 | 0.513 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 66.89 | 127.71 | 3.45 | 53.72 | 2.84 | 5.29% | 5.649 | 0.84 | 30.05 | 2.78 | 4.62 | 152 | 0.409 | 0.63 | 1.775 | 0.513 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 66.95 | 126.92 | 3.45 | 48.74 | 2.63 | 5.40% | 5.807 | 0.85 | 27.10 | 2.82 | 4.98 | 164 | 0.492 | 0.63 | 1.777 | 0.513 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.00 | 126.33 | 3.45 | 45.61 | 2.48 | 5.44% | 5.882 | 0.86 | 25.25 | 2.85 | 5.22 | 172 | 0.555 | 0.63 | 1.778 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.09 | 127.03 | 3.45 | 48.64 | 2.68 | 5.51% | 5.930 | 0.86 | 27.11 | 2.83 | 5.03 | 166 | 0.507 | 0.63 | 1.781 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.13 | 126.50 | 3.45 | 42.19 | 2.61 | 6.19% | 6.737 | 0.88 | 23.26 | 2.92 | 5.89 | 194 | 0.762 | 0.63 | 1.782 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.22 | 127.56 | 3.45 | 48.54 | 2.88 | 5.93% | 6.387 | 0.86 | 27.12 | 2.85 | 5.25 | 173 | 0.564 | 0.63 | 1.785 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.27 | 128.04 | 3.45 | 52.06 | 3.00 | 5.76% | 6.171 | 0.85 | 29.26 | 2.82 | 4.93 | 163 | 0.481 | 0.63 | 1.787 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.35 | 129.21 | 3.45 | 63.78 | 3.29 | 5.16% | 5.453 | 0.82 | 36.37 | 2.71 | 4.06 | 161 | 0.465 | 0.63 | 1.789 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.40 | 129.71 | 3.45 | 71.40 | 3.39 | 4.75% | 4.989 | 0.80 | 41.00 | 2.64 | 3.59 | 162 | 0.473 | 0.63 | 1.791 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.48 | 130.03 | 3.45 | 74.52 | 3.49 | 4.68% | 4.911 | 0.79 | 42.95 | 2.62 | 3.47 | 164 | 0.489 | 0.63 | 1.793 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.53 | 130.07 | 3.45 | 74.52 | 3.52 | 4.72% | 4.953 | 0.80 | 42.99 | 2.62 | 3.48 | 165 | 0.495 | 0.63 | 1.795 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.61 | 130.00 | 3.45 | 71.98 | 3.52 | 4.89% | 5.136 | 0.80 | 41.52 | 2.65 | 3.63 | 165 | 0.500 | 0.63 | 1.797 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.66 | 129.80 | 3.45 | 68.27 | 3.49 | 5.11% | 5.384 | 0.81 | 39.31 | 2.68 | 3.86 | 165 | 0.500 | 0.63 | 1.799 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.73 | 127.93 | 3.45 | 65.93 | 2.73 | 4.14% | 4.369 | 0.80 | 37.94 | 2.62 | 3.47 | 145 | 0.363 | 0.63 | 1.801 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.292 | 0.000 | | |
| 67.80 | 126.08 | 3.45 | 65.15 | 2.13 | 3.27% | 3.452 | 0.77 | 37.52 | 2.55 | 3.05 | 127 | 0.270 | 0.62 | 1.803 | 0.516 | | 0.52 | 0.72 | <= | 1.904 | 0.016 | 0.000 | 0.292 | 0.000 | 67.73 | 67.80 |
| 67.86 | 126.86 | 3.45 | 66.32 | 2.36 | 3.56% | 3.754 | 0.78 | 38.27 | 2.57 | 3.16 | 134 | 0.303 | 0.62 | 1.805 | 0.516 | | 0.59 | 0.81 | <= | 1.823 | 0.013 | 0.000 | 0.276 | 0.000 | 67.80 | 67.86 |
| 67.93 | 127.29 | 3.45 | 65.54 | 2.51 | 3.83% | 4.042 | 0.79 | 37.85 | 2.60 | 3.33 | 139 | 0.328 | 0.62 | 1.807 | 0.516 | | 0.63 | 0.87 | <= | 1.772 | 0.015 | 0.000 | 0.262 | 0.000 | 67.86 | 67.93 |
| 68.02 | 127.04 | 3.45 | 63.19 | 2.46 | 3.89% | 4.118 | 0.79 | 36.48 | 2.62 | 3.44 | 138 | 0.323 | 0.62 | 1.810 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.248 | 0.000 | | |
| 68.05 | 126.65 | 3.45 | 56.84 | 2.41 | 4.24% | 4.514 | 0.81 | 32.62 | 2.68 | 3.87 | 138 | 0.322 | 0.62 | 1.811 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.248 | 0.000 | | |
| 68.14 | 126.63 | 3.45 | 68.95 | 2.25 | 3.26% | 3.435 | 0.77 | 40.08 | 2.53 | 2.92 | 130 | 0.285 | 0.62 | 1.814 | 0.517 | | 0.55 | 0.76 | <= | 1.864 | 0.020 | 0.000 | 0.248 | 0.000 | 68.05 | 68.14 |
| 68.19 | 126.59 | 3.45 | 68.47 | 2.25 | 3.29% | 3.460 | 0.77 | 39.83 | 2.53 | 2.95 | 130 | 0.286 | 0.62 | 1.816 | 0.517 | | 0.55 | 0.76 | <= | 1.863 | 0.011 | 0.000 | 0.227 | 0.000 | 68.14 | 68.19 |
| 68.27 | 126.59 | 3.45 | 69.25 | 2.24 | 3.23% | 3.404 | 0.77 | 40.37 | 2.52 | 2.90 | 130 | 0.284 | 0.62 | 1.818 | 0.517 | | 0.55 | 0.76 | <= | 1.867 | 0.018 | 0.000 | 0.216 | 0.000 | 68.19 | 68.27 |
| 68.31 | 126.87 | 3.45 | 70.52 | 2.31 | 3.28% | 3.444 | 0.76 | 41.18 | 2.52 | 2.88 | 132 | 0.294 | 0.62 | 1.819 | 0.518 | | 0.57 | 0.78 | <= | 1.844 | 0.009 | 0.000 | 0.198 | 0.000 | 68.27 | 68.31 |
| 68.41 | 127.41 | 3.45 | 73.74 | 2.45 | 3.32% | 3.485 | 0.76 | 43.24 | 2.51 | 2.82 | 136 | 0.313 | 0.62 | 1.822 | 0.518 | | 0.60 | 0.83 | <= | 1.803 | 0.022 | 0.000 | 0.190 | 0.000 | 68.31 | 68.41 |
| 68.44 | 127.47 | 3.45 | 75.11 | 2.46 | 3.28% | 3.433 | 0.76 | 44.11 | 2.50 | 2.76 | 136 | 0.313 | 0.62 | 1.823 | 0.518 | | 0.60 | 0.83 | <= | 1.802 | 0.006 | 0.000 | 0.168 | 0.000 | 68.41 | 68.44 |
| 68.54 | 128.50 | 3.45 | 89.27 | 2.67 | 2.99% | 3.111 | 0.73 | 52.92 | 2.41 | 2.35 | 140 | 0.336 | 0.62 | 1.826 | 0.518 | | 0.65 | 0.89 | <= | 1.700 | 0.020 | 0.000 | 0.161 | 0.000 | 68.44 | 68.54 |
| 68.58 | 128.96 | 3.45 | 96.69 | 2.77 | 2.86% | 2.971 | 0.72 | 57.54 | 2.37 | 2.19 | 143 | 0.349 | 0.62 | 1.828 | 0.518 | | 0.67 | 0.93 | <= | 0.710 | 0.003 | 0.000 | 0.141 | 0.000 | 68.54 | 68.58 |
| 68.64 | 130.19 | 3.45 | 131.95 | 2.95 | 2.24% | 2.296 | 0.66 | 79.40 | 2.18 | 1.63 | 150 | 0.393 | 0.62 | 1.830 | 0.519 | | 0.76 | 1.04 | <= | 0.501 | 0.004 | 0.000 | 0.138 | 0.000 | 68.58 | 68.64 |
| 68.73 | 131.10 | 3.45 | 169.07 | 3.08 | 1.82% | 1.860 | 0.62 | 102.51 | 2.03 | 1.35 | 163 | 0.486 | 0.62 | 1.832 | 0.519 | | 0.94 | 1.29 | <= | 0.275 | 0.003 | 0.000 | 0.134 | 0.000 | 68.64 | 68.73 |
| 68.80 | 131.20 | 3.45 | 183.33 | 3.04 | 1.66% | 1.690 | 0.60 | 111.48 | 1.98 | 1.27 | 169 | 0.528 | 0.62 | 1.835 | 0.519 | | 1.02 | 1.40 | | 0.000 | 0.000 | 0.000 | 0.131 | 0.000 | | |
| 68.85 | 131.17 | 3.45 | 191.63 | 2.98 | 1.56% | 1.584 | 0.59 | 116.74 | 1.94 | 1.23 | 172 | 0.553 | 0.62 | 1.836 | 0.519 | | 1.06 | 1.46 | | 0.000 | 0.000 | 0.000 | 0.131 | 0.000 | | |
| 68.91 | 130.94 | 3.45 | 198.46 | 2.86 | 1.44% | 1.467 | 0.58 | 121.12 | 1.91 | 1.19 | 174 | 0.568 | 0.62 | 1.838 | 0.519 | | 1.09 | 1.50 | | 0.000 | 0.000 | 0.000 | 0.131 | 0.000 | | |
| 68.98 | 130.31 | 3.45 | 200.81 | 2.61 | 1.30% | 1.322 | 0.57 | 122.75 | 1.87 | 1.16 | 172 | 0.552 | 0.62 | 1.840 | 0.520 | | 1.06 | 1.46 | | 0.000 | 0.000 | 0.000 | 0.131 | 0.000 | | |
| 69.03 | 129.75 | 3.45 | 197.68 | 2.43 | 1.23% | 1.251 | 0.56 | 120.92 | 1.85 | 1.15 | 168 | 0.520 | 0.61 | 1.842 | 0.520 | | 1.00 | 1.38 | | 0.000 | 0.000 | 0.000 | 0.131 | 0.000 | | |
| 69.11 | 129.02 | 3.45 | 193.09 | 2.22 | 1.15% | 1.171 | 0.56 | 118.24 | 1.84 | 1.14 | 163 | 0.481 | 0.61 | 1.844 | 0.520 | | 0.92 | 1.27 | <= | 0.261 | 0.003 | 0.000 | 0.131 | 0.000 | 69.03 | 69.11 |
| 69.16 | 128.85 | 3.45 | 187.62 | 2.19 | 1.17% | 1.189 | 0.56 | 114.94 | 1.85 | 1.15 | 159 | 0.457 | 0.61 | 1.846 | 0.520 | | 0.88 | 1.21 | <= | 0.211 | 0.001 | 0.000 | 0.128 | 0.000 | 69.11 | 69.16 |
| 69.24 | 128.58 | 3.45 | 179.91 | 2.14 | 1.19% | 1.213 | 0.57 | 110.30 | 1.87 | 1.17 | 155 | 0.425 | 0.61 | 1.848 | 0.521 | | 0.82 | 1.12 | <= | 0.321 | 0.003 | 0.000 | 0.127 | 0.000 | 69.16 | 69.24 |
| 69.29 | 128.33 | 3.45 | 169.46 | 2.11 | 1.25% | 1.271 | 0.58 | 103.87 | 1.91 | 1.20 | 149 | 0.387 | 0.61 | 1.850 | 0.521 | | 0.74 | 1.02 | <= | 0.467 | 0.003 | 0.000 | 0.124 | 0.000 | 69.24 | 69.29 |
| 69.42 | 127.19 | 3.45 | 146.80 | 1.89 | 1.29% | 1.318 | 0.60 | 89.92 | 1.97 | 1.26 | 135 | 0.307 | 0.61 | 1.854 | 0.521 | | 0.59 | 0.81 | <= | 1.025 | 0.016 | 0.000 | 0.121 | 0.000 | 69.29 | 69.42 |
| 69.45 | 127.52 | 3.45 | 137.32 | 2.03 | 1.48% | 1.516 | 0.62 | 84.03 | 2.03 | 1.35 | 133 | 0.300 | 0.61 | 1.855 | 0.521 | | 0.58 | 0.79 | <= | 1.789 | 0.006 | 0.000 | 0.105 | 0.000 | 69.42 | 69.45 |
| 69.52 | 128.58 | 3.45 | 121.50 | 2.44 | 2.01% | 2.067 | 0.66 | 74.20 | 2.17 | 1.60 | 137 | 0.321 | 0.61 | 1.857 | 0.521 | | 0.62 | 0.85 | <= | 1.112 | 0.009 | 0.000 | 0.099 | 0.000 | 69.45 | 69.52 |
| 69.56 | 128.99 | 3.45 | 114.57 | 2.63 | 2.30% | 2.367 | 0.68 | 69.90 | 2.23 | 1.76 | 141 | 0.339 | 0.61 | 1.858 | 0.522 | | 0.65 | 0.89 | <= | 1.707 | 0.008 | 0.000 | 0.090 | 0.000 | 69.52 | 69.56 |
| 69.64 | 129.26 | 3.45 | 97.47 | 2.88 | 2.95% | 3.063 | 0.72 | 59.23 | 2.37 | 2.20 | 147 | 0.372 | 0.61 | 1.861 | 0.522 | | 0.71 | 0.98 | <= | 0.830 | 0.008 | 0.000 | 0.081 | 0.000 | 69.56 | 69.64 |
| 69.71 | 129.83 | 3.45 | 105.58 | 3.03 | 2.87% | 2.967 | 0.71 | 64.43 | 2.33 | 2.06 | 150 | 0.396 | 0.61 | 1.863 | 0.522 | | 0.76 | 1.04 | <= | 0.500 | 0.004 | 0.000 | 0.073 | 0.000 | 69.64 | 69.71 |
| 69.77 | 130.00 | 3.45 | 101.38 | 3.14 | 3.10% | 3.206 | 0.72 | 61.86 | 2.37 | 2.20 | 153 | 0.415 | 0.61 | 1.865 | 0.522 | | 0.79 | 1.09 | <= | 0.580 | 0.004 | 0.000 | 0.069 | 0.000 | 69.71 | 69.77 |
| 69.84 | 129.95 | 3.45 | 98.94 | 3.15 | 3.18% | 3.299 | 0.72 | 60.40 | 2.39 | 2.27 | 154 | 0.418 | 0.61 | 1.867 | 0.523 | | 0.80 | 1.10 | <= | 0.297 | 0.002 | 0.000 | 0.065 | 0.000 | 69.77 | 69.84 |
| 69.89 | 129.96 | 3.45 | 103.14 | 3.11 | 3.02% | 3.120 | 0.72 | 63.12 | 2.36 | 2.15 | 153 | 0.410 | 0.61 | 1.869 | 0.523 | | 0.79 | 1.08 | <= | 0.559 | 0.003 | 0.000 | 0.063 | 0.000 | 69.84 | 69.89 |
| 69.95 | 87.42 | 3.45 | 111.05 | 0.00 | 0.00% | 0.001 | 0.73 | 68.20 | 2.41 | 2.35 | 179 | 0.616 | 0.61 | 1.870 | 0.523 | | 1.18 | 1.62 | | 0.000 | 0.000 | 0.000 | 0.059 | 0.000 | | |
| 70.02 | 87.42 | 3.45 | 107.53 | 0.00 | 0.00% | 0.001 | 0.73 | 66.07 | 2.41 | 2.34 | 173 | 0.562 | 0.61 | 1.873 | 0.523 | | 1.07 | 1.48 | | 0.000 | 0.000 | 0.000 | 0.059 | 0.000 | | |
| 70.11 | 87.42 | 3.45 | 86.05 | 0.00 | 0.00% | 0.001 | 0.73 | 52.52 | 2.40 | 2.32 | 137 | 0.317 | 0.61 | 1.875 | 0.523 | | 0.60 | 0.83 | <= | 1.238 | 0.013 | 0.000 | 0.059 | 0.000 | 70.02 | 70.11 |
| 70.16 | 87.42 | 3.45 | 75.89 | 0.00 | 0.00% | 0.001 | 0.73 | 46.11 | 2.40 | 2.33 | 120 | 0.241 | 0.61 | 1.877 | 0.524 | | 0.46 | 0.63 | <= | 1.990 | 0.012 | 0.000 | 0.046 | 0.000 | 70.11 | 70.16 |
| 70.24 | 87.42 | 3.45 | 67.78 | 0.00 | 0.00% | 0.002 | 0.73 | 41.01 | 2.41 | 2.34 | 107 | 0.195 | 0.61 | 1.879 | 0.524 | | 0.37 | 0.51 | <= | 2.179 | 0.021 | 0.000 | 0.034 | 0.000 | 70.16 | 70.24 |
| 70.29 | 87.42 | 3.13 | 63.39 | 0.00 | 0.00% | 0.002 | 0.71 | 48.32 | 2.35 | 2.14 | 109 | 0.199 | 0.60 | 1.881 | 0.597 | | 0.33 | 0.46 | <= | 2.157 | 0.013 | 0.000 | 0.013 | 0.000 | 70.24 | 70.29 |

| Total Wet Seismic Settlement (in) | 4.57 | Total Wet Seismic Settlement within 50' Depth (in) | 2.41 |
|---|---|---|---|
| Total Dry Seismic Settlement (in) | 0.79 | Total Post-Grading Dry Seismic Settlement (in) * | 0.00 |

* Upon implementation of remedial grading recommended in Section 6.2.3 of the Soils Report.


(a) FOS Against Liquefaction vs. Depth at CPT-2
FOS Against Liquefaction
0.0
0.5
1.0
1.3
1.5
2.0
2.5
3.0
Depth (ft)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
"Dry" Seismic Settlement
HHGWL @ 10'
Liquefaction-Prone w/ "Wet" Seismic Settlement
Denote current ground condition
Denote post-ground modification condition
* Soil strata that are below GWL & w/ FOS < 1.3 are classified as liquefaction-prone (SP117A).


(b) Seismic Settlement vs. Depth at CPT-2
Seismic Settlement (in)
0.0
1.0
2.0
3.0
4.0
5.0
6.0
Depth (ft)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
HHGWL @ 10'
Wet Seismic Settlement
Accu. Wet Seimsic Settlement
Dry Seismic Settlement
Accu. Dry Seismic Settlement
PostGM_AccuWetSeismicSettlement
PostGM_AccuDrySeismicSettlement

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-3

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft) 1 | MAGNITUDE: 6.62 | MAGNITUDE SCALING FACTOR: 1.38

GROUNDWATER LEVEL: 10 feet | ACCELERATION: 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | | | | | | | | | | | | | | | | | 5.751 | 1.697 | | |
| 0.09 | 109.34 | 0.00 | 10.54 | 0.40 | 3.80% | 3.797 | 0.63 | 2141.15 | 2.06 | 1.39 | 278 | 2.088 | 1.00 | 0.000 | 0.394 | | 5.30 | 7.29 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.14 | 110.34 | 0.01 | 9.47 | 0.47 | 4.96% | 4.967 | 0.67 | 1232.27 | 2.20 | 1.67 | 335 | 3.572 | 1.00 | 0.000 | 0.394 | | 9.07 | 12.48 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.21 | 111.88 | 0.01 | 10.35 | 0.57 | 5.51% | 5.513 | 0.69 | 891.66 | 2.26 | 1.84 | 368 | 4.713 | 1.00 | 0.000 | 0.394 | | 11.97 | 16.47 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.28 | 113.38 | 0.02 | 12.20 | 0.66 | 5.41% | 5.417 | 0.69 | 782.92 | 2.27 | 1.84 | 369 | 4.739 | 1.00 | 0.000 | 0.394 | | 12.04 | 16.57 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.36 | 114.64 | 0.02 | 14.64 | 0.73 | 4.99% | 4.993 | 0.68 | 725.60 | 2.24 | 1.77 | 354 | 4.222 | 1.00 | 0.000 | 0.394 | | 10.73 | 14.76 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.41 | 115.10 | 0.02 | 15.52 | 0.77 | 4.96% | 4.969 | 0.68 | 673.02 | 2.25 | 1.78 | 357 | 4.305 | 1.00 | 0.000 | 0.394 | | 10.94 | 15.05 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.46 | 115.39 | 0.03 | 16.30 | 0.79 | 4.85% | 4.854 | 0.68 | 628.08 | 2.24 | 1.78 | 345 | 3.888 | 1.00 | 0.000 | 0.393 | | 9.88 | 13.60 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.54 | 115.40 | 0.03 | 17.57 | 0.77 | 4.38% | 4.390 | 0.67 | 574.56 | 2.22 | 1.72 | 313 | 2.938 | 1.00 | 0.000 | 0.393 | | 7.47 | 10.28 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.62 | 115.11 | 0.04 | 18.74 | 0.72 | 3.84% | 3.849 | 0.66 | 532.43 | 2.19 | 1.64 | 280 | 2.129 | 1.00 | 0.000 | 0.393 | | 5.41 | 7.45 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.67 | 114.98 | 0.04 | 20.11 | 0.69 | 3.43% | 3.438 | 0.65 | 528.13 | 2.15 | 1.56 | 262 | 1.751 | 1.00 | 0.000 | 0.393 | | 4.45 | 6.12 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.76 | 114.56 | 0.04 | 22.36 | 0.63 | 2.82% | 2.823 | 0.64 | 517.06 | 2.09 | 1.44 | 234 | 1.271 | 1.00 | 0.000 | 0.393 | | 3.23 | 4.45 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.81 | 114.29 | 0.05 | 23.33 | 0.60 | 2.57% | 2.577 | 0.63 | 505.97 | 2.07 | 1.40 | 222 | 1.096 | 1.00 | 0.000 | 0.393 | | 2.79 | 3.84 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.86 | 114.45 | 0.05 | 24.89 | 0.60 | 2.41% | 2.415 | 0.62 | 508.21 | 2.04 | 1.36 | 217 | 1.033 | 1.00 | 0.000 | 0.393 | | 2.63 | 3.62 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.92 | 114.92 | 0.05 | 26.06 | 0.63 | 2.42% | 2.422 | 0.62 | 497.02 | 2.04 | 1.36 | 218 | 1.043 | 1.00 | 0.000 | 0.393 | | 2.65 | 3.65 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 0.98 | 115.76 | 0.06 | 27.24 | 0.70 | 2.57% | 2.575 | 0.63 | 487.17 | 2.06 | 1.39 | 226 | 1.154 | 1.00 | 0.000 | 0.393 | | 2.94 | 4.04 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.07 | 117.27 | 0.06 | 27.92 | 0.85 | 3.04% | 3.051 | 0.64 | 456.13 | 2.11 | 1.48 | 245 | 1.451 | 1.00 | 0.000 | 0.393 | | 3.69 | 5.08 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.16 | 118.42 | 0.07 | 28.60 | 0.98 | 3.43% | 3.435 | 0.65 | 429.69 | 2.16 | 1.56 | 260 | 1.711 | 1.00 | 0.000 | 0.393 | | 4.35 | 5.99 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.21 | 118.56 | 0.07 | 28.99 | 1.00 | 3.45% | 3.458 | 0.66 | 416.91 | 2.16 | 1.58 | 259 | 1.692 | 1.00 | 0.000 | 0.393 | | 4.31 | 5.93 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.25 | 118.92 | 0.07 | 29.29 | 1.05 | 3.58% | 3.594 | 0.66 | 407.23 | 2.17 | 1.61 | 264 | 1.784 | 1.00 | 0.000 | 0.393 | | 4.54 | 6.25 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.35 | 119.82 | 0.08 | 33.29 | 1.13 | 3.39% | 3.402 | 0.65 | 427.23 | 2.14 | 1.54 | 265 | 1.816 | 1.00 | 0.000 | 0.393 | | 4.62 | 6.36 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.39 | 119.98 | 0.08 | 35.92 | 1.13 | 3.15% | 3.153 | 0.64 | 447.22 | 2.11 | 1.47 | 261 | 1.739 | 1.00 | 0.000 | 0.393 | | 4.43 | 6.09 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.48 | 119.95 | 0.09 | 44.61 | 1.05 | 2.35% | 2.358 | 0.60 | 520.53 | 1.98 | 1.28 | 247 | 1.488 | 1.00 | 0.000 | 0.393 | | 3.79 | 5.22 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.52 | 119.92 | 0.09 | 49.98 | 1.00 | 2.00% | 2.004 | 0.58 | 567.37 | 1.92 | 1.20 | 241 | 1.379 | 1.00 | 0.000 | 0.392 | | 3.51 | 4.84 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.59 | 119.66 | 0.09 | 52.32 | 0.95 | 1.82% | 1.819 | 0.57 | 566.94 | 1.88 | 1.17 | 235 | 1.284 | 1.00 | 0.000 | 0.392 | | 3.27 | 4.50 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.65 | 119.21 | 0.10 | 48.61 | 0.92 | 1.89% | 1.896 | 0.58 | 506.94 | 1.92 | 1.21 | 226 | 1.156 | 1.00 | 0.000 | 0.392 | | 2.95 | 4.05 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.75 | 115.28 | 0.10 | 47.25 | 0.54 | 1.14% | 1.145 | 0.55 | 464.69 | 1.80 | 1.10 | 179 | 0.610 | 1.00 | 0.000 | 0.392 | | 1.56 | 2.14 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.78 | 114.83 | 0.10 | 46.47 | 0.51 | 1.10% | 1.100 | 0.55 | 449.35 | 1.79 | 1.10 | 173 | 0.563 | 1.00 | 0.000 | 0.392 | | 1.44 | 1.98 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.89 | 113.33 | 0.11 | 43.83 | 0.43 | 0.98% | 0.984 | 0.54 | 399.57 | 1.79 | 1.10 | 157 | 0.442 | 1.00 | 0.000 | 0.392 | | 1.13 | 1.55 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 1.92 | 113.13 | 0.11 | 42.85 | 0.42 | 0.98% | 0.983 | 0.55 | 384.63 | 1.80 | 1.10 | 154 | 0.420 | 1.00 | 0.000 | 0.392 | | 1.07 | 1.48 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 2.01 | 112.84 | 0.12 | 42.37 | 0.40 | 0.94% | 0.947 | 0.55 | 363.65 | 1.80 | 1.10 | 149 | 0.386 | 1.00 | 0.000 | 0.392 | | 0.99 | 1.36 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 2.04 | 112.68 | 0.12 | 42.22 | 0.40 | 0.95% | 0.950 | 0.55 | 357.15 | 1.80 | 1.11 | 148 | 0.381 | 1.00 | 0.000 | 0.392 | | 0.97 | 1.34 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.697 | | |
| 2.11 | 111.99 | 0.12 | 42.07 | 0.36 | 0.86% | 0.858 | 0.54 | 344.39 | 1.78 | 1.09 | 141 | 0.343 | 0.99 | 0.000 | 0.392 | | 0.87 | 1.20 | <= | 0.226 | 0.000 | 0.002 | 5.751 | 1.697 | | |
| 2.20 | 111.32 | 0.13 | 43.44 | 0.32 | 0.74% | 0.739 | 0.53 | 341.55 | 1.75 | 1.07 | 136 | 0.315 | 0.99 | 0.000 | 0.392 | | 0.80 | 1.11 | <= | 0.330 | 0.000 | 0.004 | 5.751 | 1.695 | | |
| 2.24 | 110.99 | 0.13 | 43.34 | 0.31 | 0.72% | 0.717 | 0.53 | 334.88 | 1.74 | 1.07 | 134 | 0.304 | 0.99 | 0.000 | 0.392 | | 0.78 | 1.07 | <= | 0.603 | 0.000 | 0.003 | 5.751 | 1.692 | | |
| 2.31 | 110.33 | 0.13 | 42.37 | 0.29 | 0.68% | 0.687 | 0.53 | 317.82 | 1.74 | 1.07 | 129 | 0.281 | 0.99 | 0.000 | 0.392 | | 0.72 | 0.99 | <= | 1.006 | 0.000 | 0.008 | 5.751 | 1.689 | | |
| 2.38 | 109.49 | 0.14 | 40.90 | 0.26 | 0.64% | 0.638 | 0.53 | 298.14 | 1.74 | 1.07 | 123 | 0.252 | 0.99 | 0.000 | 0.392 | | 0.64 | 0.88 | <= | 1.454 | 0.000 | 0.012 | 5.751 | 1.680 | | |
| 2.43 | 108.84 | 0.14 | 38.27 | 0.24 | 0.63% | 0.629 | 0.54 | 273.44 | 1.76 | 1.08 | 116 | 0.227 | 0.99 | 0.000 | 0.392 | | 0.58 | 0.80 | <= | 2.025 | 0.000 | 0.012 | 5.751 | 1.668 | | |
| 2.51 | 107.78 | 0.14 | 35.53 | 0.21 | 0.59% | 0.593 | 0.54 | 246.15 | 1.78 | 1.09 | 108 | 0.198 | 0.99 | 0.000 | 0.392 | | 0.51 | 0.70 | <= | 2.164 | 0.000 | 0.021 | 5.751 | 1.656 | | |
| 2.59 | 107.06 | 0.15 | 32.90 | 0.20 | 0.61% | 0.611 | 0.55 | 221.24 | 1.81 | 1.11 | 103 | 0.181 | 0.99 | 0.000 | 0.391 | | 0.46 | 0.64 | <= | 2.257 | 0.000 | 0.022 | 5.751 | 1.635 | | |
| 2.65 | 106.77 | 0.15 | 31.34 | 0.19 | 0.61% | 0.609 | 0.56 | 206.21 | 1.83 | 1.13 | 99 | 0.170 | 0.99 | 0.000 | 0.391 | | 0.43 | 0.60 | <= | 2.328 | 0.000 | 0.017 | 5.751 | 1.614 | | |
| 2.69 | 106.65 | 0.15 | 30.26 | 0.19 | 0.63% | 0.631 | 0.56 | 196.29 | 1.85 | 1.14 | 97 | 0.165 | 0.99 | 0.000 | 0.391 | | 0.42 | 0.58 | <= | 2.361 | 0.000 | 0.011 | 5.751 | 1.597 | | |
| 2.77 | 106.45 | 0.16 | 28.90 | 0.19 | 0.66% | 0.661 | 0.57 | 182.33 | 1.88 | 1.17 | 95 | 0.159 | 0.99 | 0.000 | 0.391 | | 0.41 | 0.56 | <= | 2.411 | 0.000 | 0.023 | 5.751 | 1.586 | | |
| 2.82 | 106.24 | 0.16 | 28.11 | 0.19 | 0.68% | 0.680 | 0.58 | 174.37 | 1.89 | 1.18 | 93 | 0.155 | 0.99 | 0.000 | 0.391 | | 0.40 | 0.55 | <= | 2.441 | 0.000 | 0.015 | 5.751 | 1.562 | | |
| 2.90 | 105.72 | 0.16 | 26.75 | 0.18 | 0.67% | 0.677 | 0.58 | 161.59 | 1.91 | 1.20 | 90 | 0.147 | 0.99 | 0.000 | 0.391 | | 0.38 | 0.52 | <= | 2.520 | 0.000 | 0.024 | 5.751 | 1.548 | | |
| 2.97 | 105.07 | 0.17 | 24.99 | 0.17 | 0.68% | 0.685 | 0.59 | 147.58 | 1.94 | 1.23 | 86 | 0.139 | 0.99 | 0.000 | 0.391 | | 0.35 | 0.49 | <= | 2.611 | 0.000 | 0.022 | 5.751 | 1.524 | | |
| 3.03 | 104.08 | 0.17 | 23.23 | 0.15 | 0.65% | 0.651 | 0.59 | 134.59 | 1.95 | 1.24 | 81 | 0.129 | 0.99 | 0.000 | 0.391 | | 0.33 | 0.45 | <= | 2.745 | 0.000 | 0.020 | 5.751 | 1.502 | | |
| 3.09 | 103.18 | 0.17 | 21.48 | 0.14 | 0.65% | 0.657 | 0.60 | 122.15 | 1.98 | 1.28 | 77 | 0.122 | 0.99 | 0.000 | 0.391 | | 0.31 | 0.43 | <= | 2.849 | 0.000 | 0.021 | 5.751 | 1.482 | | |
| 3.17 | 102.00 | 0.18 | 18.94 | 0.12 | 0.63% | 0.640 | 0.61 | 105.11 | 2.02 | 1.33 | 71 | 0.113 | 0.99 | 0.000 | 0.391 | | 0.29 | 0.40 | <= | 3.042 | 0.000 | 0.029 | 5.751 | 1.461 | | |
| 3.23 | 101.08 | 0.18 | 17.18 | 0.11 | 0.64% | 0.647 | 0.63 | 93.64 | 2.06 | 1.39 | 67 | 0.109 | 0.99 | 0.000 | 0.391 | | 0.28 | 0.38 | <= | 3.167 | 0.000 | 0.023 | 5.751 | 1.432 | | |
| 3.32 | 98.77 | 0.19 | 14.74 | 0.08 | 0.54% | 0.550 | 0.63 | 78.26 | 2.08 | 1.43 | 59 | 0.100 | 0.99 | 0.000 | 0.391 | | 0.25 | 0.35 | <= | 3.508 | 0.000 | 0.038 | 5.751 | 1.409 | | |
| 3.37 | 97.23 | 0.19 | 13.08 | 0.07 | 0.54% | 0.543 | 0.65 | 68.43 | 2.12 | 1.50 | 56 | 0.096 | 0.99 | 0.000 | 0.391 | | 0.25 | 0.34 | <= | 3.680 | 0.000 | 0.022 | 5.751 | 1.371 | | |
| 3.41 | 95.66 | 0.19 | 11.62 | 0.06 | 0.52% | 0.525 | 0.66 | 60.06 | 2.16 | 1.58 | 53 | 0.094 | 0.99 | 0.000 | 0.391 | | 0.24 | 0.33 | <= | 3.864 | 0.000 | 0.019 | 5.751 | 1.349 | | |
| 3.49 | 93.17 | 0.19 | 9.57 | 0.05 | 0.52% | 0.533 | 0.68 | 48.32 | 2.23 | 1.75 | 58 | 0.098 | 0.99 | 0.000 | 0.391 | | 0.25 | 0.34 | <= | 3.594 | 0.000 | 0.035 | 5.751 | 1.331 | | |
| 3.58 | 89.88 | 0.20 | 6.83 | 0.03 | 0.44% | 0.452 | 0.71 | 33.48 | 2.33 | 2.04 | 67 | 0.108 | 0.99 | 0.000 | 0.391 | | 0.28 | 0.38 | <= | 3.173 | 0.000 | 0.034 | 5.751 | 1.296 | | |
| 3.62 | 88.70 | 0.20 | 6.15 | 0.03 | 0.49% | 0.504 | 0.72 | 29.77 | 2.38 | 2.24 | 74 | 0.117 | 0.99 | 0.000 | 0.391 | | 0.30 | 0.41 | <= | 2.946 | 0.000 | 0.014 | 5.751 | 1.262 | | |
| 3.71 | 87.42 | 0.20 | 0.98 | 0.02 | 2.04% | 2.577 | 1.00 | 3.81 | 3.32 | 10.99 | 363 | 4.520 | 0.99 | 0.000 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.248 | | |
| 3.76 | 87.42 | 0.21 | 1.07 | 0.01 | 0.93% | 1.157 | 0.95 | 4.19 | 3.15 | 8.61 | 284 | 2.211 | 0.99 | 0.000 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.248 | | |
| 3.84 | 87.42 | 0.21 | 0.88 | 0.00 | 0.11% | 0.149 | 0.92 | 3.20 | 3.04 | 7.26 | 240 | 1.358 | 0.99 | 0.000 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.248 | | |
| 3.90 | 87.42 | 0.21 | 0.88 | 0.00 | 0.11% | 0.150 | 0.92 | 3.15 | 3.05 | 7.33 | 242 | 1.394 | 0.99 | 0.000 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.248 | | |
| 3.94 | 87.42 | 0.21 | 0.88 | 0.00 | 0.11% | 0.150 | 0.92 | 3.12 | 3.05 | 7.37 | 243 | 1.418 | 0.99 | 0.000 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.248 | | |
| 4.03 | 87.42 | 0.22 | 0.68 | 0.01 | 1.47% | 2.163 | 1.00 | 2.12 | 3.51 | 14.21 | 469 | 9.677 | 0.99 | 0.000 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.248 | | |
| 4.08 | 87.42 | 0.22 | 0.59 | 0.02 | 3.39% | 5.405 | 1.00 | 1.68 | 3.79 | 19.94 | 658 | 26.569 | 0.99 | 0.000 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.248 | | |
| 4.16 | 87.58 | 0.22 | 0.59 | 0.05 | 8.47% | 13.642 | 1.00 | 1.64 | 4.02 | 25.51 | 842 | 55.535 | 0.99 | 0.000 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.248 | | |
| 4.21 | 89.28 | 0.23 | 0.78 | 0.06 | 7.69% | 10.825 | 1.00 | 2.46 | 3.82 | 20.62 | 681 | 29.399 | 0.99 | 0.000 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.248 | | |
| 4.29 | 91.79 | 0.23 | 1.27 | 0.07 | 5.51% | 6.727 | 1.00 | 4.54 | 3.48 | 13.72 | 453 | 8.707 | 0.99 | 0.000 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.248 | | |
| 4.34 | 94.96 | 0.23 | 3.03 | 0.08 | 2.64% | 2.859 | 0.90 | 12.07 | 2.97 | 6.43 | 212 | 0.970 | 0.99 | 0.000 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 1.248 | | |
| 4.43 | 97.13 | 0.24 | 7.03 | 0.09 | 1.28% | 1.325 | 0.77 | 28.77 | 2.54 | 2.99 | 99 | 0.169 | 0.99 | 0.000 | 0.390 | | 0.43 | 0.60 | <= | 2.332 | 0.000 | 0.025 | 5.751 | 1.248 | | |
| 4.47 | 98.12 | 0.24 | 10.54 | 0.09 | 0.85% | 0.874 | 0.71 | 43.27 | 2.33 | 2.05 | 68 | 0.109 | 0.99 | 0.000 | 0.390 | | 0.28 | 0.38 | <= | 3.158 | 0.000 | 0.015 | 5.751 | 1.223 | | |
| 4.53 | 99.00 | 0.24 | 13.37 | 0.09 | 0.67% | 0.686 | 0.67 | 54.47 | 2.21 | 1.69 | 57 | 0.097 | 0.99 | 0.000 | 0.390 | | 0.25 | 0.34 | <= | 3.626 | 0.000 | 0.026 | 5.751 | 1.208 | | |
| 4.61 | 100.53 | 0.25 | 16.20 | 0.10 | 0.62% | 0.627 | 0.65 | 65.10 | 2.13 | 1.52 | 60 | 0.100 | 0.99 | 0.000 | 0.390 | | 0.26 | 0.35 | <= | 3.502 | 0.000 | 0.034 | 5.751 | 1.181 | | |
| 4.70 | 101.97 | 0.25 | 18.84 | 0.12 | 0.64% | 0.645 | 0.64 | 74.46 | 2.09 | 1.44 | 64 | 0.104 | 0.99 | 0.000 | 0.390 | | 0.27 | 0.37 | <= | 3.306 | 0.000 | 0.036 | 5.751 | 1.148 | | |
| 4.74 | 102.43 | 0.25 | 19.18 | 0.13 | 0.68% | 0.687 | 0.64 | 75.20 | 2.10 | 1.46 | 66 | 0.106 | 0.99 | 0.000 | 0.389 | | 0.27 | 0.38 | <= | 3.240 | 0.000 | 0.016 | 5.751 | 1.112 | | |
| 4.81 | 102.82 | 0.26 | 19.43 | 0.13 | 0.67% | 0.678 | 0.64 | 75.10 | 2.10 | 1.45 | 65 | 0.106 | 0.99 | 0.000 | 0.389 | | 0.27 | 0.37 | <= | 3.246 | 0.000 | 0.027 | 5.751 | 1.097 | | |
| 4.86 | 103.11 | 0.26 | 19.52 | 0.14 | 0.72% | 0.727 | 0.64 | 74.69 | 2.11 | 1.48 | 67 | 0.108 | 0.99 | 0.000 | 0.389 | | 0.28 | 0.38 | <= | 3.190 | 0.000 | 0.019 | 5.751 | 1.069 | | |
| 4.92 | 103.38 | 0.26 | 19.33 | 0.14 | 0.72% | 0.734 | 0.64 | 73.06 | 2.12 | 1.49 | 67 | 0.107 | 0.99 | 0.000 | 0.389 | | 0.28 | 0.38 | <= | 3.202 | 0.000 | 0.023 | 5.751 | 1.050 | | |
| 5.01 | 103.00 | 0.27 | 17.96 | 0.14 | 0.78% | 0.791 | 0.66 | 66.61 | 2.16 | 1.58 | 66 | 0.106 | 0.99 | 0.000 | 0.389 | | 0.27 | 0.38 | <= | 3.234 | 0.000 | 0.035 | 5.751 | 1.027 | | |
| 5.07 | 102.61 | 0.27 | 17.08 | 0.14 | 0.82% | 0.833 | 0.67 | 62.56 | 2.19 | 1.64 | 65 | 0.106 | 0.99 | 0.000 | 0.389 | | 0.27 | 0.37 | <= | 3.249 | 0.000 | 0.023 | 5.751 | 0.992 | | |
| 5.13 | 102.21 | 0.27 | 16.50 | 0.13 | 0.79% | 0.801 | 0.67 | 59.71 | 2.20 | 1.66 | 63 | 0.104 | 0.99 | 0.000 | 0.389 | | 0.27 | 0.37 | <= | 3.332 | 0.000 | 0.024 | 5.751 | 0.969 | | |
| 5.19 | 101.66 | 0.27 | 15.52 | 0.12 | 0.77% | 0.787 | 0.67 | 55.47 | 2.22 | 1.71 | 61 | 0.101 | 0.99 | 0.000 | 0.389 | | 0.26 | 0.36 | <= | 3.423 | 0.000 | 0.025 | 5.751 | 0.945 | | |
| 5.25 | 100.92 | 0.28 | 14.64 | 0.11 | 0.75% | 0.766 | 0.68 | 51.69 | 2.23 | 1.75 | 59 | 0.099 | 0.99 | 0.000 | 0.389 | | 0.26 | 0.35 | <= | 3.520 | 0.000 | 0.025 | 5.751 | 0.920 | | |
| 5.33 | 100.22 | 0.28 | 14.64 | 0.10 | 0.68% | 0.696 | 0.67 | 50.94 | 2.22 | 1.71 | 57 | 0.097 | 0.99 | 0.000 | 0.389 | | 0.25 | 0.34 | <= | 3.627 | 0.000 | 0.035 | 5.751 | 0.895 | | |
| 5.39 | 99.88 | 0.28 | 14.64 | 0.10 | 0.68% | 0.697 | 0.67 | 50.40 | 2.22 | 1.72 | 57 | 0.097 | 0.99 | 0.000 | 0.389 | | 0.25 | 0.34 | <= | 3.635 | 0.000 | 0.026 | 5.751 | 0.860 | | |
| 5.46 | 100.01 | 0.29 | 15.52 | 0.10 | 0.64% | 0.657 | 0.67 | 52.82 | 2.19 | 1.65 | 57 | 0.097 | 0.99 | 0.000 | 0.389 | | 0.25 | 0.34 | <= | 3.637 | 0.000 | 0.031 | 5.751 | 0.834 | | |
| 5.53 | 99.98 | 0.29 | 16.20 | 0.10 | 0.62% | 0.629 | 0.66 | 54.51 | 2.17 | 1.61 | 57 | 0.097 | 0.99 | 0.000 | 0.389 | | 0.25 | 0.34 | <= | 3.638 | 0.000 | 0.031 | 5.751 | 0.803 | | |
| 5.59 | 100.00 | 0.29 | 16.40 | 0.10 | 0.61% | 0.621 | 0.66 | 54.62 | 2.17 | 1.60 | 57 | 0.097 | 0.99 | 0.000 | 0.389 | | 0.25 | 0.34 | <= | 3.643 | 0.000 | 0.026 | 5.751 | 0.773 | | |
| 5.67 | 100.89 | 0.30 | 17.18 | 0.11 | 0.64% | 0.652 | 0.66 | 56.48 | 2.17 | 1.59 | 59 | 0.099 | 0.99 | 0.000 | 0.389 | | 0.25 | 0.35 | <= | 3.553 | 0.000 | 0.034 | 5.751 | 0.747 | | |
| 5.73 | 101.37 | 0.30 | 17.57 | 0.11 | 0.63% | 0.637 | 0.65 | 57.19 | 2.16 | 1.57 | 58 | 0.099 | 0.99 | 0.000 | 0.389 | | 0.25 | 0.35 | <= | 3.555 | 0.000 | 0.026 | 5.751 | 0.712 | | |
| 5.81 | 102.09 | 0.31 | 18.65 | 0.12 | 0.64% | 0.654 | 0.65 | 59.95 | 2.14 | 1.54 | 60 | 0.100 | 0.99 | 0.000 | 0.388 | | 0.26 | 0.36 | <= | 3.470 | 0.000 | 0.033 | 5.751 | 0.687 | | |
| 5.86 | 102.73 | 0.31 | 20.01 | 0.13 | 0.65% | 0.660 | 0.65 | 63.85 | 2.12 | 1.50 | 62 | 0.102 | 0.99 | 0.000 | 0.388 | | 0.26 | 0.36 | <= | 3.383 | 0.000 | 0.020 | 5.751 | 0.654 | | |
| 5.95 | 104.01 | 0.31 | 22.45 | 0.15 | 0.67% | 0.678 | 0.64 | 70.67 | 2.09 | 1.44 | 66 | 0.107 | 0.99 | 0.000 | 0.388 | | 0.27 | 0.38 | <= | 3.230 | 0.000 | 0.035 | 5.751 | 0.633 | | |
| 5.97 | 104.34 | 0.31 | 23.04 | 0.15 | 0.65% | 0.660 | 0.63 | 72.31 | 2.08 | 1.42 | 66 | 0.107 | 0.99 | 0.000 | 0.388 | | 0.28 | 0.38 | <= | 3.220 | 0.000 | 0.008 | 5.751 | 0.598 | | |
| 6.04 | 105.17 | 0.32 | 24.40 | 0.17 | 0.70% | 0.706 | 0.63 | 75.73 | 2.08 | 1.41 | 69 | 0.111 | 0.99 | 0.000 | 0.388 | | 0.29 | 0.39 | <= | 3.106 | 0.000 | 0.026 | 5.751 | 0.591 | | |
| 6.12 | 105.72 | 0.32 | 24.89 | 0.18 | 0.72% | 0.733 | 0.63 | 76.25 | 2.08 | 1.42 | 70 | 0.112 | 0.99 | 0.000 | 0.388 | | 0.29 | 0.40 | <= | 3.063 | 0.000 | 0.029 | 5.751 | 0.565 | | |
| 6.17 | 106.06 | 0.32 | 24.89 | 0.19 | 0.76% | 0.773 | 0.64 | 75.62 | 2.09 | 1.44 | 71 | 0.114 | 0.99 | 0.000 | 0.388 | | 0.29 | 0.40 | <= | 3.027 | 0.000 | 0.018 | 5.751 | 0.535 | | |
| 6.26 | 106.94 | 0.33 | 24.70 | 0.22 | 0.89% | 0.903 | 0.65 | 73.92 | 2.13 | 1.51 | 75 | 0.119 | 0.99 | 0.000 | 0.388 | | 0.31 | 0.42 | <= | 2.922 | 0.000 | 0.032 | 5.751 | 0.517 | | |
| 6.31 | 107.58 | 0.33 | 24.70 | 0.24 | 0.97% | 0.985 | 0.65 | 73.32 | 2.15 | 1.56 | 77 | 0.122 | 0.99 | 0.000 | 0.388 | | 0.31 | 0.43 | <= | 2.854 | 0.000 | 0.017 | 5.751 | 0.485 | | |
| 6.40 | 109.48 | 0.34 | 25.77 | 0.30 | 1.16% | 1.180 | 0.66 | 75.40 | 2.18 | 1.62 | 84 | 0.134 | 0.98 | 0.000 | 0.388 | | 0.35 | 0.48 | <= | 2.664 | 0.000 | 0.029 | 5.751 | 0.468 | | |
| 6.45 | 111.14 | 0.34 | 28.02 | 0.37 | 1.32% | 1.337 | 0.66 | 81.39 | 2.19 | 1.63 | 91 | 0.151 | 0.98 | 0.000 | 0.388 | | 0.39 | 0.53 | <= | 2.482 | 0.000 | 0.015 | 5.751 | 0.440 | | |
| 6.51 | 113.38 | 0.34 | 31.82 | 0.48 | 1.51% | 1.525 | 0.66 | 91.64 | 2.18 | 1.62 | 102 | 0.180 | 0.98 | 0.000 | 0.388 | | 0.46 | 0.64 | <= | 2.265 | 0.000 | 0.016 | 5.751 | 0.425 | | |
| 6.58 | 115.28 | 0.35 | 36.61 | 0.59 | 1.61% | 1.627 | 0.66 | 104.35 | 2.16 | 1.57 | 112 | 0.212 | 0.98 | 0.000 | 0.388 | | 0.55 | 0.75 | <= | 2.100 | 0.000 | 0.018 | 5.751 | 0.408 | | |
| 6.63 | 116.83 | 0.35 | 40.41 | 0.71 | 1.76% | 1.772 | 0.65 | 114.32 | 2.15 | 1.56 | 122 | 0.251 | 0.98 | 0.000 | 0.388 | | 0.65 | 0.89 | <= | 1.877 | 0.000 | 0.011 | 5.751 | 0.391 | | |
| 6.71 | 118.59 | 0.36 | 41.78 | 0.89 | 2.13% | 2.148 | 0.67 | 116.63 | 2.20 | 1.67 | 136 | 0.313 | 0.98 | 0.000 | 0.388 | | 0.81 | 1.11 | <= | 0.338 | 0.000 | 0.003 | 5.751 | 0.379 | | |
| 6.78 | 119.07 | 0.36 | 40.22 | 0.96 | 2.39% | 2.408 | 0.68 | 110.93 | 2.24 | 1.78 | 141 | 0.340 | 0.98 | 0.000 | 0.388 | | 0.88 | 1.21 | <= | 0.231 | 0.000 | 0.002 | 5.751 | 0.376 | | |
| 6.84 | 116.69 | 0.36 | 38.46 | 0.71 | 1.85% | 1.864 | 0.66 | 105.00 | 2.19 | 1.64 | 121 | 0.244 | 0.98 | 0.000 | 0.388 | | 0.63 | 0.87 | <= | 1.708 | 0.000 | 0.012 | 5.751 | 0.374 | | |
| 6.93 | 113.25 | 0.37 | 37.88 | 0.44 | 1.16% | 1.173 | 0.63 | 101.95 | 2.08 | 1.41 | 98 | 0.168 | 0.98 | 0.000 | 0.387 | | 0.43 | 0.60 | <= | 2.339 | 0.000 | 0.025 | 5.751 | 0.362 | | |
| 6.98 | 113.30 | 0.37 | 39.44 | 0.44 | 1.12% | 1.126 | 0.62 | 105.37 | 2.06 | 1.38 | 99 | 0.170 | 0.98 | 0.000 | 0.387 | | 0.44 | 0.60 | <= | 2.330 | 0.000 | 0.014 | 5.751 | 0.337 | | |
| 7.04 | 113.79 | 0.37 | 48.52 | 0.44 | 0.91% | 0.914 | 0.59 | 128.67 | 1.94 | 1.23 | 104 | 0.185 | 0.98 | 0.000 | 0.387 | | 0.48 | 0.66 | <= | 2.230 | 0.000 | 0.016 | 5.751 | 0.323 | | |
| 7.11 | 114.52 | 0.38 | 59.16 | 0.45 | 0.76% | 0.766 | 0.56 | 155.43 | 1.84 | 1.14 | 113 | 0.215 | 0.98 | 0.000 | 0.387 | | 0.56 | 0.76 | <= | 1.948 | 0.000 | 0.016 | 5.751 | 0.307 | | |
| 7.16 | 114.91 | 0.38 | 61.21 | 0.47 | 0.77% | 0.773 | 0.56 | 159.63 | 1.83 | 1.13 | 116 | 0.225 | 0.98 | 0.000 | 0.387 | | 0.58 | 0.80 | <= | 2.040 | 0.000 | 0.012 | 5.751 | 0.290 | | |
| 7.24 | 115.71 | 0.39 | 57.50 | 0.54 | 0.94% | 0.945 | 0.58 | 148.08 | 1.90 | 1.19 | 116 | 0.226 | 0.98 | 0.000 | 0.387 | | 0.58 | 0.80 | <= | 1.248 | 0.000 | 0.012 | 5.751 | 0.278 | | |
| 7.30 | 116.34 | 0.39 | 55.35 | 0.60 | 1.08% | 1.092 | 0.59 | 141.22 | 1.95 | 1.24 | 118 | 0.232 | 0.98 | 0.000 | 0.387 | | 0.60 | 0.82 | <= | 1.306 | 0.000 | 0.009 | 5.751 | 0.266 | | |
| 7.37 | 117.56 | 0.39 | 50.76 | 0.72 | 1.42% | 1.430 | 0.62 | 128.06 | 2.05 | 1.37 | 122 | 0.248 | 0.98 | 0.000 | 0.387 | | 0.64 | 0.88 | <= | 1.463 | 0.000 | 0.012 | 5.751 | 0.257 | | |
| 7.44 | 118.40 | 0.40 | 45.00 | 0.85 | 1.89% | 1.906 | 0.66 | 112.22 | 2.17 | 1.59 | 128 | 0.276 | 0.98 | 0.000 | 0.387 | | 0.71 | 0.98 | <= | 1.000 | 0.000 | 0.008 | 5.751 | 0.244 | | |
| 7.51 | 118.80 | 0.40 | 39.05 | 0.94 | 2.41% | 2.432 | 0.69 | 96.24 | 2.28 | 1.88 | 135 | 0.307 | 0.98 | 0.000 | 0.387 | | 0.79 | 1.09 | <= | 0.651 | 0.000 | 0.005 | 5.751 | 0.236 | | |
| 7.55 | 118.89 | 0.40 | 35.05 | 0.98 | 2.80% | 2.829 | 0.71 | 85.76 | 2.35 | 2.13 | 139 | 0.330 | 0.98 | 0.000 | 0.387 | | 0.85 | 1.17 | <= | 0.412 | 0.000 | 0.002 | 5.751 | 0.230 | | |
| 7.63 | 118.40 | 0.41 | 28.99 | 0.98 | 3.38% | 3.429 | 0.75 | 69.93 | 2.46 | 2.59 | 143 | 0.351 | 0.98 | 0.000 | 0.387 | | 0.91 | 1.25 | <= | 0.266 | 0.000 | 0.003 | 5.751 | 0.228 | | |
| 7.68 | 117.99 | 0.41 | 25.97 | 0.96 | 3.70% | 3.756 | 0.76 | 62.09 | 2.52 | 2.88 | 144 | 0.357 | 0.98 | 0.000 | 0.387 | | 0.92 | 1.27 | <= | 0.283 | 0.000 | 0.002 | 5.751 | 0.226 | | |
| 7.74 | 117.55 | 0.42 | 22.75 | 0.94 | 4.13% | 4.209 | 0.79 | 53.79 | 2.59 | 3.29 | 145 | 0.366 | 0.98 | 0.000 | 0.387 | | 0.95 | 1.30 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.224 | | |
| 7.82 | 117.09 | 0.42 | 20.30 | 0.92 | 4.53% | 4.628 | 0.80 | 47.35 | 2.66 | 3.69 | 146 | 0.372 | 0.98 | 0.000 | 0.387 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.224 | | |
| 7.90 | 116.75 | 0.42 | 19.43 | 0.89 | 4.58% | 4.683 | 0.81 | 44.77 | 2.68 | 3.82 | 144 | 0.359 | 0.98 | 0.000 | 0.387 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.224 | | |
| 7.95 | 116.77 | 0.43 | 20.50 | 0.88 | 4.29% | 4.384 | 0.80 | 46.96 | 2.64 | 3.60 | 142 | 0.344 | 0.98 | 0.000 | 0.386 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.224 | | |
| 8.02 | 117.07 | 0.43 | 24.01 | 0.87 | 3.62% | 3.690 | 0.77 | 54.64 | 2.55 | 3.03 | 136 | 0.313 | 0.98 | 0.000 | 0.386 | | 0.81 | 1.11 | <= | 0.340 | 0.000 | 0.003 | 5.751 | 0.224 | | |
| 8.08 | 117.43 | 0.44 | 26.26 | 0.89 | 3.39% | 3.446 | 0.76 | 59.36 | 2.51 | 2.80 | 135 | 0.308 | 0.98 | 0.000 | 0.386 | | 0.80 | 1.10 | <= | 0.663 | 0.000 | 0.005 | 5.751 | 0.221 | | |
| 8.15 | 117.96 | 0.44 | 28.70 | 0.92 | 3.21% | 3.255 | 0.75 | 64.34 | 2.47 | 2.61 | 135 | 0.309 | 0.98 | 0.000 | 0.386 | | 0.80 | 1.10 | <= | 0.664 | 0.000 | 0.006 | 5.751 | 0.217 | | |
| 8.20 | 118.10 | 0.44 | 29.19 | 0.94 | 3.22% | 3.270 | 0.75 | 65.02 | 2.46 | 2.60 | 136 | 0.314 | 0.98 | 0.000 | 0.386 | | 0.81 | 1.12 | <= | 0.345 | 0.000 | 0.002 | 5.751 | 0.211 | | |
| 8.27 | 118.03 | 0.45 | 27.53 | 0.95 | 3.45% | 3.508 | 0.76 | 60.69 | 2.50 | 2.79 | 138 | 0.324 | 0.98 | 0.000 | 0.386 | | 0.84 | 1.15 | <= | 0.388 | 0.000 | 0.003 | 5.751 | 0.209 | | |
| 8.36 | 117.81 | 0.45 | 25.19 | 0.95 | 3.77% | 3.840 | 0.78 | 54.78 | 2.56 | 3.08 | 140 | 0.334 | 0.98 | 0.000 | 0.386 | | 0.86 | 1.19 | <= | 0.430 | 0.000 | 0.005 | 5.751 | 0.206 | | |
| 8.43 | 117.60 | 0.46 | 23.62 | 0.94 | 3.98% | 4.058 | 0.79 | 50.83 | 2.59 | 3.29 | 140 | 0.337 | 0.98 | 0.000 | 0.386 | | 0.87 | 1.20 | <= | 0.441 | 0.000 | 0.004 | 5.751 | 0.201 | | |
| 8.49 | 117.31 | 0.46 | 21.38 | 0.93 | 4.35% | 4.445 | 0.80 | 45.56 | 2.65 | 3.65 | 142 | 0.345 | 0.98 | 0.000 | 0.386 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.197 | | |
| 8.53 | 117.19 | 0.46 | 20.79 | 0.93 | 4.47% | 4.575 | 0.81 | 44.04 | 2.67 | 3.77 | 142 | 0.348 | 0.98 | 0.000 | 0.386 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.197 | | |
| 8.62 | 116.83 | 0.47 | 20.30 | 0.89 | 4.38% | 4.487 | 0.81 | 42.48 | 2.67 | 3.80 | 139 | 0.328 | 0.98 | 0.000 | 0.386 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.197 | | |
| 8.69 | 116.53 | 0.47 | 20.40 | 0.85 | 4.17% | 4.265 | 0.81 | 42.32 | 2.66 | 3.71 | 135 | 0.307 | 0.98 | 0.000 | 0.386 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.197 | | |
| 8.76 | 116.45 | 0.47 | 21.87 | 0.82 | 3.75% | 3.833 | 0.79 | 45.04 | 2.61 | 3.39 | 130 | 0.283 | 0.98 | 0.000 | 0.386 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.197 | | |
| 8.80 | 116.37 | 0.48 | 22.75 | 0.80 | 3.52% | 3.592 | 0.78 | 46.66 | 2.58 | 3.22 | 127 | 0.269 | 0.98 | 0.000 | 0.386 | | 0.70 | 0.96 | <= | 1.435 | 0.000 | 0.007 | 5.751 | 0.197 | | |
| 8.88 | 116.24 | 0.48 | 24.31 | 0.77 | 3.17% | 3.231 | 0.77 | 49.44 | 2.53 | 2.95 | 122 | 0.249 | 0.98 | 0.000 | 0.386 | | 0.65 | 0.89 | <= | 1.964 | 0.000 | 0.019 | 5.751 | 0.190 | | |
| 8.93 | 116.04 | 0.48 | 24.60 | 0.75 | 3.05% | 3.110 | 0.76 | 49.74 | 2.52 | 2.88 | 120 | 0.240 | 0.98 | 0.000 | 0.386 | | 0.62 | 0.86 | <= | 1.994 | 0.000 | 0.012 | 5.751 | 0.172 | | |
| 9.00 | 115.57 | 0.49 | 23.62 | 0.71 | 3.01% | 3.069 | 0.77 | 47.31 | 2.53 | 2.94 | 117 | 0.228 | 0.98 | 0.000 | 0.385 | | 0.59 | 0.81 | <= | 2.036 | 0.000 | 0.017 | 5.751 | 0.160 | | |
| 9.06 | 115.09 | 0.49 | 22.26 | 0.68 | 3.05% | 3.124 | 0.78 | 44.21 | 2.56 | 3.08 | 115 | 0.221 | 0.98 | 0.000 | 0.385 | | 0.57 | 0.79 | <= | 2.061 | 0.000 | 0.015 | 5.751 | 0.143 | | |
| 9.16 | 107.13 | 0.50 | 20.99 | 0.23 | 1.10% | 1.122 | 0.71 | 41.17 | 2.33 | 2.04 | 68 | 0.109 | 0.98 | 0.000 | 0.385 | | 0.28 | 0.39 | <= | 3.165 | 0.000 | 0.038 | 5.751 | 0.128 | | |
| 9.20 | 104.97 | 0.50 | 20.40 | 0.18 | 0.88% | 0.905 | 0.70 | 39.81 | 2.29 | 1.92 | 63 | 0.104 | 0.98 | 0.000 | 0.385 | | 0.27 | 0.37 | <= | 3.329 | 0.000 | 0.016 | 5.751 | 0.090 | | |
| 9.27 | 106.64 | 0.50 | 19.43 | 0.22 | 1.13% | 1.162 | 0.72 | 37.59 | 2.36 | 2.17 | 72 | 0.114 | 0.98 | 0.000 | 0.385 | | 0.30 | 0.41 | <= | 3.018 | 0.000 | 0.025 | 5.751 | 0.074 | | |
| 9.34 | 107.51 | 0.51 | 18.16 | 0.26 | 1.43% | 1.473 | 0.74 | 34.80 | 2.44 | 2.49 | 82 | 0.132 | 0.98 | 0.000 | 0.385 | | 0.34 | 0.47 | <= | 2.700 | 0.000 | 0.023 | 5.751 | 0.048 | | |
| 9.43 | 107.84 | 0.51 | 16.20 | 0.28 | 1.73% | 1.785 | 0.77 | 30.63 | 2.53 | 2.91 | 96 | 0.163 | 0.98 | 0.000 | 0.385 | | 0.42 | 0.58 | <= | 2.380 | 0.000 | 0.026 | 5.751 | 0.026 | | |
| 9.46 | 107.31 | 0.51 | 12.10 | 0.29 | 2.40% | 2.503 | 0.82 | 22.55 | 2.71 | 4.06 | 134 | 0.303 | 0.98 | 0.000 | 0.385 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 9.52 | 107.83 | 0.52 | 13.08 | 0.30 | 2.29% | 2.388 | 0.81 | 24.30 | 2.67 | 3.80 | 125 | 0.264 | 0.98 | 0.000 | 0.385 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 9.60 | 108.04 | 0.52 | 12.30 | 0.32 | 2.60% | 2.717 | 0.83 | 22.59 | 2.73 | 4.20 | 139 | 0.327 | 0.98 | 0.000 | 0.385 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 9.65 | 108.04 | 0.52 | 11.23 | 0.33 | 2.94% | 3.082 | 0.85 | 20.43 | 2.79 | 4.70 | 155 | 0.428 | 0.98 | 0.000 | 0.385 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 9.72 | 107.34 | 0.53 | 10.45 | 0.30 | 2.87% | 3.024 | 0.85 | 18.80 | 2.81 | 4.89 | 161 | 0.470 | 0.98 | 0.000 | 0.385 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 9.80 | 106.58 | 0.53 | 9.86 | 0.28 | 2.84% | 3.002 | 0.86 | 17.53 | 2.83 | 5.07 | 167 | 0.515 | 0.98 | 0.000 | 0.385 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 9.87 | 106.14 | 0.54 | 9.37 | 0.27 | 2.88% | 3.056 | 0.86 | 16.49 | 2.86 | 5.28 | 174 | 0.573 | 0.98 | 0.000 | 0.385 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 9.91 | 106.12 | 0.54 | 9.18 | 0.27 | 2.94% | 3.124 | 0.87 | 16.07 | 2.87 | 5.41 | 179 | 0.610 | 0.98 | 0.000 | 0.385 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.00 | 105.86 | 0.54 | 8.69 | 0.26 | 2.99% | 3.191 | 0.88 | 15.01 | 2.90 | 5.67 | 187 | 0.689 | 0.98 | 0.000 | 0.385 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.05 | 105.84 | 0.55 | 8.49 | 0.26 | 3.06% | 3.273 | 0.88 | 14.61 | 2.91 | 5.82 | 192 | 0.737 | 0.98 | 0.002 | 0.386 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.13 | 106.22 | 0.55 | 8.49 | 0.28 | 3.30% | 3.526 | 0.89 | 14.56 | 2.93 | 6.01 | 198 | 0.806 | 0.98 | 0.004 | 0.387 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.18 | 106.75 | 0.55 | 8.88 | 0.30 | 3.38% | 3.602 | 0.88 | 15.24 | 2.92 | 5.91 | 195 | 0.771 | 0.98 | 0.006 | 0.388 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.24 | 106.99 | 0.56 | 9.37 | 0.30 | 3.20% | 3.403 | 0.87 | 16.09 | 2.89 | 5.60 | 185 | 0.667 | 0.98 | 0.007 | 0.390 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.31 | 107.52 | 0.56 | 9.86 | 0.32 | 3.25% | 3.441 | 0.87 | 16.93 | 2.88 | 5.47 | 180 | 0.626 | 0.98 | 0.010 | 0.391 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.37 | 107.70 | 0.56 | 10.05 | 0.32 | 3.18% | 3.373 | 0.87 | 17.22 | 2.87 | 5.37 | 177 | 0.597 | 0.98 | 0.012 | 0.392 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.45 | 107.68 | 0.57 | 10.25 | 0.32 | 3.12% | 3.305 | 0.86 | 17.52 | 2.85 | 5.27 | 174 | 0.568 | 0.98 | 0.014 | 0.394 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.54 | 107.53 | 0.57 | 10.35 | 0.31 | 3.00% | 3.170 | 0.86 | 17.63 | 2.84 | 5.15 | 170 | 0.538 | 0.98 | 0.017 | 0.396 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.57 | 107.67 | 0.57 | 10.25 | 0.32 | 3.12% | 3.307 | 0.86 | 17.42 | 2.86 | 5.28 | 174 | 0.573 | 0.97 | 0.018 | 0.396 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.67 | 108.53 | 0.58 | 10.74 | 0.35 | 3.26% | 3.444 | 0.86 | 18.22 | 2.85 | 5.24 | 173 | 0.562 | 0.97 | 0.021 | 0.398 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.70 | 108.84 | 0.58 | 10.93 | 0.37 | 3.39% | 3.575 | 0.86 | 18.53 | 2.86 | 5.28 | 174 | 0.572 | 0.97 | 0.022 | 0.399 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.80 | 109.38 | 0.59 | 11.71 | 0.39 | 3.33% | 3.506 | 0.86 | 19.84 | 2.83 | 5.04 | 166 | 0.507 | 0.97 | 0.025 | 0.401 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.83 | 109.34 | 0.59 | 11.71 | 0.38 | 3.25% | 3.416 | 0.85 | 19.81 | 2.82 | 4.98 | 164 | 0.493 | 0.97 | 0.026 | 0.401 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.90 | 109.42 | 0.59 | 11.81 | 0.39 | 3.30% | 3.476 | 0.86 | 19.92 | 2.83 | 5.00 | 165 | 0.498 | 0.97 | 0.028 | 0.403 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 10.98 | 109.73 | 0.60 | 11.81 | 0.40 | 3.39% | 3.567 | 0.86 | 19.85 | 2.83 | 5.07 | 167 | 0.516 | 0.97 | 0.031 | 0.404 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 11.03 | 109.97 | 0.60 | 11.81 | 0.42 | 3.56% | 3.746 | 0.86 | 19.80 | 2.85 | 5.19 | 171 | 0.547 | 0.97 | 0.032 | 0.405 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 11.12 | 110.89 | 0.60 | 12.30 | 0.47 | 3.82% | 4.018 | 0.86 | 20.58 | 2.85 | 5.24 | 173 | 0.562 | 0.97 | 0.035 | 0.407 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 11.16 | 111.40 | 0.61 | 12.40 | 0.50 | 4.03% | 4.239 | 0.87 | 20.72 | 2.86 | 5.35 | 177 | 0.593 | 0.97 | 0.036 | 0.408 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 11.23 | 112.02 | 0.61 | 13.67 | 0.53 | 3.88% | 4.058 | 0.85 | 22.87 | 2.82 | 4.97 | 164 | 0.490 | 0.97 | 0.038 | 0.409 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 11.30 | 112.37 | 0.61 | 13.57 | 0.55 | 4.05% | 4.245 | 0.86 | 22.62 | 2.84 | 5.10 | 168 | 0.524 | 0.97 | 0.041 | 0.410 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 11.37 | 111.21 | 0.62 | 14.06 | 0.47 | 3.34% | 3.496 | 0.84 | 23.40 | 2.77 | 4.57 | 151 | 0.399 | 0.97 | 0.043 | 0.412 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.751 | 0.000 | | |
| 11.44 | 101.96 | 0.62 | 15.52 | 0.13 | 0.84% | 0.873 | 0.73 | 25.87 | 2.42 | 2.40 | 79 | 0.126 | 0.97 | 0.045 | 0.413 | | 0.31 | 0.42 | <= | 2.781 | 0.023 | 0.000 | 5.751 | 0.000 | 11.37 | 11.44 |
| 11.52 | 103.86 | 0.63 | 14.84 | 0.17 | 1.15% | 1.196 | 0.76 | 24.61 | 2.50 | 2.78 | 92 | 0.152 | 0.97 | 0.047 | 0.415 | | 0.37 | 0.50 | <= | 2.470 | 0.024 | 0.000 | 5.727 | 0.000 | 11.44 | 11.52 |
| 11.57 | 104.90 | 0.63 | 15.23 | 0.19 | 1.25% | 1.301 | 0.76 | 25.24 | 2.51 | 2.83 | 93 | 0.156 | 0.97 | 0.049 | 0.416 | | 0.38 | 0.52 | <= | 2.437 | 0.015 | 0.000 | 5.704 | 0.000 | 11.52 | 11.57 |
| 11.64 | 107.02 | 0.63 | 16.30 | 0.25 | 1.53% | 1.596 | 0.77 | 27.01 | 2.53 | 2.95 | 97 | 0.166 | 0.97 | 0.051 | 0.417 | | 0.40 | 0.55 | <= | 2.358 | 0.020 | 0.000 | 5.689 | 0.000 | 11.57 | 11.64 |
| 11.70 | 109.35 | 0.63 | 17.18 | 0.34 | 1.98% | 2.055 | 0.78 | 28.45 | 2.58 | 3.19 | 105 | 0.188 | 0.97 | 0.053 | 0.418 | | 0.45 | 0.62 | <= | 2.215 | 0.016 | 0.000 | 5.669 | 0.000 | 11.64 | 11.70 |
| 11.78 | 111.29 | 0.64 | 16.20 | 0.45 | 2.78% | 2.892 | 0.81 | 26.67 | 2.68 | 3.87 | 128 | 0.274 | 0.97 | 0.056 | 0.419 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.653 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-3

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**Analysis Scenario:** MCE (2% exceedance probability in 50 years)

D(ft) 1 | **MAGNITUDE:** 6.62 | **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet | **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.83 | 112.54 | 0.64 | 16.11 | 0.53 | 3.29% | 3.426 | 0.83 | 26.45 | 2.73 | 4.22 | 139 | 0.331 | 0.97 | 0.057 | 0.420 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.653 | 0.000 | | |
| 11.88 | 113.71 | 0.64 | 17.86 | 0.60 | 3.36% | 3.485 | 0.82 | 29.37 | 2.70 | 4.01 | 132 | 0.295 | 0.97 | 0.059 | 0.421 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.653 | 0.000 | | |
| 11.97 | 114.91 | 0.65 | 21.09 | 0.67 | 3.18% | 3.278 | 0.80 | 34.73 | 2.63 | 3.53 | 117 | 0.227 | 0.97 | 0.061 | 0.423 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.653 | 0.000 | | |
| 12.01 | 115.50 | 0.65 | 23.43 | 0.71 | 3.03% | 3.117 | 0.78 | 38.64 | 2.59 | 3.24 | 111 | 0.206 | 0.97 | 0.063 | 0.423 | | 0.49 | 0.67 | <= | 2.124 | 0.010 | 0.000 | 5.653 | 0.000 | 11.97 | 12.01 |
| 12.10 | 115.93 | 0.66 | 27.14 | 0.71 | 2.62% | 2.681 | 0.76 | 44.74 | 2.50 | 2.76 | 108 | 0.197 | 0.97 | 0.066 | 0.425 | | 0.46 | 0.64 | <= | 2.170 | 0.023 | 0.000 | 5.643 | 0.000 | 12.01 | 12.10 |
| 12.15 | 116.01 | 0.66 | 30.07 | 0.70 | 2.33% | 2.380 | 0.74 | 49.57 | 2.44 | 2.46 | 105 | 0.189 | 0.97 | 0.067 | 0.426 | | 0.44 | 0.61 | <= | 2.212 | 0.013 | 0.000 | 5.620 | 0.000 | 12.10 | 12.15 |
| 12.23 | 115.63 | 0.66 | 34.85 | 0.63 | 1.81% | 1.843 | 0.70 | 57.41 | 2.32 | 2.02 | 98 | 0.168 | 0.97 | 0.070 | 0.427 | | 0.39 | 0.54 | <= | 2.342 | 0.022 | 0.000 | 5.606 | 0.000 | 12.15 | 12.23 |
| 12.28 | 115.34 | 0.67 | 36.51 | 0.60 | 1.64% | 1.674 | 0.69 | 60.06 | 2.28 | 1.89 | 96 | 0.161 | 0.97 | 0.071 | 0.428 | | 0.38 | 0.52 | <= | 2.392 | 0.014 | 0.000 | 5.584 | 0.000 | 12.23 | 12.28 |
| 12.36 | 114.67 | 0.67 | 40.90 | 0.52 | 1.27% | 1.293 | 0.66 | 67.18 | 2.18 | 1.62 | 90 | 0.148 | 0.97 | 0.074 | 0.429 | | 0.34 | 0.47 | <= | 2.511 | 0.024 | 0.000 | 5.570 | 0.000 | 12.28 | 12.36 |
| 12.41 | 114.22 | 0.68 | 43.44 | 0.48 | 1.10% | 1.122 | 0.65 | 71.26 | 2.12 | 1.50 | 88 | 0.143 | 0.97 | 0.075 | 0.430 | | 0.33 | 0.46 | <= | 2.560 | 0.015 | 0.000 | 5.546 | 0.000 | 12.36 | 12.41 |
| 12.50 | 113.70 | 0.68 | 46.95 | 0.44 | 0.94% | 0.951 | 0.63 | 76.81 | 2.06 | 1.38 | 87 | 0.140 | 0.97 | 0.078 | 0.432 | | 0.33 | 0.45 | <= | 2.590 | 0.028 | 0.000 | 5.530 | 0.000 | 12.41 | 12.50 |
| 12.55 | 113.59 | 0.68 | 49.20 | 0.43 | 0.87% | 0.886 | 0.62 | 80.36 | 2.03 | 1.34 | 87 | 0.141 | 0.97 | 0.080 | 0.433 | | 0.33 | 0.45 | <= | 2.579 | 0.015 | 0.000 | 5.502 | 0.000 | 12.50 | 12.55 |
| 12.63 | 113.34 | 0.69 | 52.13 | 0.40 | 0.77% | 0.778 | 0.60 | 84.92 | 1.98 | 1.27 | 87 | 0.141 | 0.97 | 0.082 | 0.434 | | 0.33 | 0.45 | <= | 2.582 | 0.025 | 0.000 | 5.487 | 0.000 | 12.55 | 12.63 |
| 12.68 | 113.46 | 0.69 | 53.89 | 0.41 | 0.76% | 0.771 | 0.60 | 87.64 | 1.96 | 1.25 | 89 | 0.145 | 0.97 | 0.084 | 0.435 | | 0.33 | 0.46 | <= | 2.545 | 0.015 | 0.000 | 5.462 | 0.000 | 12.63 | 12.68 |
| 12.74 | 113.81 | 0.69 | 55.25 | 0.42 | 0.76% | 0.770 | 0.59 | 89.65 | 1.96 | 1.25 | 90 | 0.147 | 0.97 | 0.085 | 0.436 | | 0.34 | 0.47 | <= | 2.515 | 0.018 | 0.000 | 5.447 | 0.000 | 12.68 | 12.74 |
| 12.81 | 114.26 | 0.70 | 56.62 | 0.44 | 0.78% | 0.787 | 0.59 | 91.62 | 1.95 | 1.24 | 92 | 0.152 | 0.97 | 0.088 | 0.437 | | 0.35 | 0.48 | <= | 2.474 | 0.021 | 0.000 | 5.429 | 0.000 | 12.74 | 12.81 |
| 12.89 | 114.49 | 0.70 | 57.79 | 0.46 | 0.80% | 0.806 | 0.59 | 93.21 | 1.95 | 1.24 | 93 | 0.156 | 0.97 | 0.090 | 0.438 | | 0.36 | 0.49 | <= | 2.439 | 0.023 | 0.000 | 5.408 | 0.000 | 12.81 | 12.89 |
| 12.95 | 114.88 | 0.71 | 57.89 | 0.48 | 0.83% | 0.839 | 0.60 | 93.13 | 1.96 | 1.25 | 94 | 0.158 | 0.97 | 0.092 | 0.439 | | 0.36 | 0.50 | <= | 2.418 | 0.017 | 0.000 | 5.384 | 0.000 | 12.89 | 12.95 |
| 13.01 | 115.41 | 0.71 | 57.20 | 0.52 | 0.91% | 0.921 | 0.60 | 91.76 | 1.99 | 1.29 | 96 | 0.162 | 0.97 | 0.094 | 0.440 | | 0.37 | 0.51 | <= | 2.387 | 0.017 | 0.000 | 5.367 | 0.000 | 12.95 | 13.01 |
| 13.08 | 116.40 | 0.71 | 55.64 | 0.60 | 1.08% | 1.092 | 0.62 | 88.95 | 2.04 | 1.36 | 99 | 0.170 | 0.97 | 0.096 | 0.441 | | 0.39 | 0.53 | <= | 2.325 | 0.020 | 0.000 | 5.350 | 0.000 | 13.01 | 13.08 |
| 13.13 | 117.15 | 0.72 | 53.50 | 0.67 | 1.25% | 1.269 | 0.64 | 85.29 | 2.09 | 1.44 | 102 | 0.178 | 0.97 | 0.098 | 0.442 | | 0.40 | 0.55 | <= | 2.274 | 0.014 | 0.000 | 5.330 | 0.000 | 13.08 | 13.13 |
| 13.21 | 119.32 | 0.72 | 48.22 | 0.94 | 1.95% | 1.979 | 0.68 | 76.47 | 2.25 | 1.79 | 116 | 0.226 | 0.97 | 0.100 | 0.443 | | 0.51 | 0.70 | <= | 2.045 | 0.020 | 0.000 | 5.317 | 0.000 | 13.13 | 13.21 |
| 13.26 | 120.25 | 0.72 | 45.69 | 1.08 | 2.36% | 2.402 | 0.70 | 72.22 | 2.32 | 2.01 | 125 | 0.260 | 0.97 | 0.102 | 0.444 | | 0.59 | 0.81 | <= | 1.165 | 0.007 | 0.000 | 5.297 | 0.000 | 13.21 | 13.26 |
| 13.35 | 119.94 | 0.73 | 36.70 | 1.12 | 3.05% | 3.114 | 0.75 | 57.53 | 2.46 | 2.58 | 130 | 0.286 | 0.97 | 0.105 | 0.445 | | 0.64 | 0.88 | <= | 1.863 | 0.020 | 0.000 | 5.290 | 0.000 | 13.26 | 13.35 |
| 13.39 | 119.43 | 0.73 | 32.41 | 1.08 | 3.33% | 3.409 | 0.77 | 50.58 | 2.53 | 2.90 | 130 | 0.285 | 0.97 | 0.106 | 0.446 | | 0.64 | 0.88 | <= | 1.865 | 0.009 | 0.000 | 5.270 | 0.000 | 13.35 | 13.39 |
| 13.47 | 119.24 | 0.74 | 29.87 | 1.09 | 3.65% | 3.741 | 0.78 | 46.35 | 2.58 | 3.19 | 133 | 0.296 | 0.97 | 0.108 | 0.447 | | 0.66 | 0.91 | <= | 0.824 | 0.008 | 0.000 | 5.261 | 0.000 | 13.39 | 13.47 |
| 13.53 | 119.34 | 0.74 | 28.21 | 1.12 | 3.97% | 4.077 | 0.79 | 43.58 | 2.62 | 3.46 | 136 | 0.313 | 0.97 | 0.110 | 0.448 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.62 | 119.17 | 0.75 | 25.87 | 1.13 | 4.37% | 4.498 | 0.81 | 39.70 | 2.68 | 3.83 | 138 | 0.326 | 0.97 | 0.113 | 0.449 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.66 | 119.16 | 0.75 | 27.24 | 1.11 | 4.07% | 4.190 | 0.80 | 41.78 | 2.64 | 3.59 | 136 | 0.312 | 0.97 | 0.114 | 0.450 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.75 | 119.30 | 0.75 | 36.70 | 1.02 | 2.78% | 2.838 | 0.74 | 56.47 | 2.44 | 2.48 | 123 | 0.253 | 0.97 | 0.117 | 0.451 | | 0.56 | 0.77 | <= | 1.952 | 0.021 | 0.000 | 5.253 | 0.000 | 13.66 | 13.75 |
| 13.79 | 119.42 | 0.76 | 41.88 | 1.00 | 2.39% | 2.432 | 0.71 | 64.49 | 2.35 | 2.13 | 120 | 0.239 | 0.97 | 0.118 | 0.452 | | 0.53 | 0.73 | <= | 1.995 | 0.010 | 0.000 | 5.232 | 0.000 | 13.75 | 13.79 |
| 13.88 | 119.67 | 0.76 | 57.60 | 0.92 | 1.60% | 1.619 | 0.65 | 88.77 | 2.14 | 1.54 | 115 | 0.222 | 0.97 | 0.121 | 0.453 | | 0.49 | 0.67 | <= | 2.060 | 0.022 | 0.000 | 5.222 | 0.000 | 13.79 | 13.88 |
| 13.93 | 119.61 | 0.76 | 62.87 | 0.89 | 1.42% | 1.433 | 0.63 | 96.78 | 2.08 | 1.42 | 115 | 0.222 | 0.97 | 0.123 | 0.454 | | 0.49 | 0.67 | <= | 2.058 | 0.012 | 0.000 | 5.200 | 0.000 | 13.88 | 13.93 |
| 13.99 | 119.52 | 0.77 | 72.92 | 0.84 | 1.15% | 1.164 | 0.60 | 112.14 | 1.98 | 1.27 | 118 | 0.232 | 0.97 | 0.124 | 0.455 | | 0.51 | 0.70 | <= | 1.618 | 0.012 | 0.000 | 5.188 | 0.000 | 13.93 | 13.99 |
| 14.06 | 119.25 | 0.77 | 82.29 | 0.78 | 0.95% | 0.957 | 0.57 | 126.30 | 1.89 | 1.18 | 121 | 0.246 | 0.97 | 0.127 | 0.456 | | 0.54 | 0.74 | <= | 1.730 | 0.015 | 0.000 | 5.176 | 0.000 | 13.99 | 14.06 |
| 14.11 | 119.04 | 0.78 | 86.39 | 0.74 | 0.86% | 0.864 | 0.56 | 132.36 | 1.85 | 1.14 | 123 | 0.252 | 0.97 | 0.128 | 0.456 | | 0.55 | 0.76 | <= | 1.777 | 0.011 | 0.000 | 5.162 | 0.000 | 14.06 | 14.11 |
| 14.19 | 119.08 | 0.78 | 92.93 | 0.73 | 0.79% | 0.792 | 0.55 | 141.96 | 1.80 | 1.11 | 127 | 0.270 | 0.97 | 0.131 | 0.457 | | 0.59 | 0.81 | <= | 1.131 | 0.011 | 0.000 | 5.151 | 0.000 | 14.11 | 14.19 |
| 14.26 | 117.44 | 0.78 | 98.60 | 0.57 | 0.58% | 0.583 | 0.52 | 150.25 | 1.70 | 1.04 | 125 | 0.261 | 0.97 | 0.133 | 0.458 | | 0.57 | 0.78 | <= | 1.730 | 0.015 | 0.000 | 5.140 | 0.000 | 14.19 | 14.26 |
| 14.33 | 115.27 | 0.79 | 102.79 | 0.42 | 0.41% | 0.412 | 0.50 | 156.23 | 1.61 | 1.00 | 124 | 0.256 | 0.97 | 0.135 | 0.459 | | 0.56 | 0.77 | <= | 1.703 | 0.014 | 0.000 | 5.125 | 0.000 | 14.26 | 14.33 |
| 14.37 | 115.95 | 0.79 | 104.55 | 0.46 | 0.44% | 0.443 | 0.50 | 158.67 | 1.62 | 1.00 | 126 | 0.265 | 0.97 | 0.136 | 0.460 | | 0.58 | 0.79 | <= | 1.741 | 0.008 | 0.000 | 5.111 | 0.000 | 14.33 | 14.37 |
| 14.46 | 116.90 | 0.80 | 107.38 | 0.51 | 0.47% | 0.478 | 0.50 | 162.38 | 1.63 | 1.00 | 129 | 0.280 | 0.97 | 0.139 | 0.461 | | 0.61 | 0.83 | <= | 1.178 | 0.013 | 0.000 | 5.103 | 0.000 | 14.37 | 14.46 |
| 14.53 | 117.49 | 0.80 | 109.24 | 0.56 | 0.51% | 0.516 | 0.50 | 164.72 | 1.64 | 1.00 | 131 | 0.289 | 0.97 | 0.141 | 0.462 | | 0.62 | 0.86 | <= | 1.237 | 0.010 | 0.000 | 5.090 | 0.000 | 14.46 | 14.53 |
| 14.57 | 117.72 | 0.80 | 108.41 | 0.57 | 0.53% | 0.530 | 0.50 | 163.18 | 1.65 | 1.00 | 131 | 0.288 | 0.97 | 0.143 | 0.463 | | 0.62 | 0.86 | <= | 1.229 | 0.006 | 0.000 | 5.080 | 0.000 | 14.53 | 14.57 |
| 14.65 | 118.43 | 0.81 | 109.53 | 0.63 | 0.58% | 0.579 | 0.51 | 164.31 | 1.67 | 1.02 | 134 | 0.303 | 0.97 | 0.145 | 0.464 | | 0.65 | 0.90 | <= | 0.673 | 0.006 | 0.000 | 5.074 | 0.000 | 14.57 | 14.65 |
| 14.71 | 118.77 | 0.81 | 107.58 | 0.67 | 0.62% | 0.628 | 0.52 | 160.95 | 1.70 | 1.04 | 134 | 0.304 | 0.97 | 0.147 | 0.464 | | 0.66 | 0.90 | <= | 0.677 | 0.005 | 0.000 | 5.067 | 0.000 | 14.65 | 14.71 |
| 14.76 | 119.32 | 0.81 | 109.82 | 0.71 | 0.65% | 0.651 | 0.52 | 163.97 | 1.70 | 1.04 | 137 | 0.320 | 0.97 | 0.149 | 0.465 | | 0.69 | 0.95 | <= | 0.799 | 0.005 | 0.000 | 5.062 | 0.000 | 14.71 | 14.76 |
| 14.84 | 119.83 | 0.82 | 112.36 | 0.76 | 0.68% | 0.681 | 0.52 | 167.21 | 1.70 | 1.04 | 141 | 0.338 | 0.96 | 0.151 | 0.466 | | 0.73 | 1.00 | <= | 0.928 | 0.009 | 0.000 | 5.058 | 0.000 | 14.76 | 14.84 |
| 14.93 | 120.33 | 0.82 | 115.97 | 0.80 | 0.69% | 0.695 | 0.52 | 171.94 | 1.70 | 1.04 | 144 | 0.359 | 0.96 | 0.154 | 0.467 | | 0.77 | 1.06 | <= | 0.545 | 0.006 | 0.000 | 5.049 | 0.000 | 14.84 | 14.93 |
| 14.97 | 120.57 | 0.83 | 118.80 | 0.82 | 0.69% | 0.695 | 0.52 | 175.85 | 1.69 | 1.03 | 147 | 0.374 | 0.96 | 0.155 | 0.468 | | 0.80 | 1.10 | <= | 0.307 | 0.001 | 0.000 | 5.043 | 0.000 | 14.93 | 14.97 |
| 15.05 | 120.96 | 0.83 | 122.71 | 0.86 | 0.70% | 0.706 | 0.51 | 181.04 | 1.69 | 1.03 | 151 | 0.398 | 0.96 | 0.158 | 0.469 | | 0.85 | 1.17 | <= | 0.384 | 0.004 | 0.000 | 5.041 | 0.000 | 14.97 | 15.05 |
| 15.10 | 121.17 | 0.83 | 126.03 | 0.87 | 0.69% | 0.695 | 0.51 | 185.57 | 1.67 | 1.02 | 153 | 0.414 | 0.96 | 0.159 | 0.469 | | 0.88 | 1.21 | <= | 0.222 | 0.001 | 0.000 | 5.038 | 0.000 | 15.05 | 15.10 |
| 15.18 | 121.38 | 0.84 | 131.10 | 0.89 | 0.68% | 0.683 | 0.51 | 192.40 | 1.66 | 1.01 | 157 | 0.439 | 0.96 | 0.162 | 0.470 | | 0.93 | 1.28 | <= | 0.278 | 0.003 | 0.000 | 5.036 | 0.000 | 15.10 | 15.18 |
| 15.24 | 121.54 | 0.84 | 134.03 | 0.90 | 0.67% | 0.676 | 0.50 | 196.21 | 1.65 | 1.00 | 159 | 0.453 | 0.96 | 0.163 | 0.471 | | 0.96 | 1.32 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 15.32 | 121.74 | 0.85 | 137.35 | 0.92 | 0.67% | 0.674 | 0.50 | 200.39 | 1.64 | 1.00 | 162 | 0.477 | 0.96 | 0.166 | 0.472 | | 1.01 | 1.39 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 15.37 | 121.86 | 0.85 | 138.91 | 0.93 | 0.67% | 0.674 | 0.50 | 202.24 | 1.64 | 1.00 | 164 | 0.489 | 0.96 | 0.168 | 0.473 | | 1.03 | 1.42 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 15.45 | 122.10 | 0.86 | 142.13 | 0.96 | 0.68% | 0.680 | 0.50 | 206.22 | 1.63 | 1.00 | 167 | 0.516 | 0.96 | 0.170 | 0.474 | | 1.09 | 1.50 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 15.51 | 122.23 | 0.86 | 144.96 | 0.97 | 0.67% | 0.673 | 0.50 | 209.80 | 1.62 | 1.00 | 170 | 0.541 | 0.96 | 0.172 | 0.474 | | 1.14 | 1.57 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 15.55 | 122.34 | 0.86 | 148.28 | 0.97 | 0.65% | 0.658 | 0.50 | 214.26 | 1.61 | 1.00 | 174 | 0.572 | 0.96 | 0.173 | 0.475 | | 1.21 | 1.66 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 15.64 | 122.61 | 0.87 | 152.87 | 1.00 | 0.65% | 0.658 | 0.50 | 220.05 | 1.60 | 1.00 | 179 | 0.616 | 0.96 | 0.176 | 0.476 | | 1.30 | 1.78 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 15.69 | 122.77 | 0.87 | 156.39 | 1.01 | 0.65% | 0.649 | 0.50 | 224.65 | 1.59 | 1.00 | 183 | 0.653 | 0.96 | 0.178 | 0.477 | | 1.37 | 1.88 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 15.77 | 123.01 | 0.87 | 160.19 | 1.04 | 0.65% | 0.653 | 0.50 | 229.33 | 1.58 | 1.00 | 187 | 0.692 | 0.96 | 0.180 | 0.477 | | 1.45 | 2.00 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 15.82 | 123.12 | 0.88 | 162.73 | 1.05 | 0.65% | 0.649 | 0.50 | 232.48 | 1.58 | 1.00 | 190 | 0.720 | 0.96 | 0.182 | 0.478 | | 1.51 | 2.07 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 15.90 | 123.23 | 0.88 | 165.27 | 1.06 | 0.64% | 0.645 | 0.50 | 235.29 | 1.57 | 1.00 | 193 | 0.747 | 0.96 | 0.184 | 0.479 | | 1.56 | 2.15 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 15.95 | 123.25 | 0.89 | 165.76 | 1.06 | 0.64% | 0.643 | 0.50 | 235.48 | 1.57 | 1.00 | 193 | 0.751 | 0.96 | 0.186 | 0.479 | | 1.57 | 2.15 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.04 | 123.19 | 0.89 | 164.10 | 1.06 | 0.65% | 0.649 | 0.50 | 232.19 | 1.57 | 1.00 | 191 | 0.727 | 0.96 | 0.188 | 0.481 | | 1.51 | 2.08 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.09 | 123.08 | 0.89 | 161.46 | 1.05 | 0.65% | 0.654 | 0.50 | 227.94 | 1.58 | 1.00 | 188 | 0.694 | 0.96 | 0.190 | 0.481 | | 1.44 | 1.98 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.17 | 122.78 | 0.90 | 157.17 | 1.01 | 0.64% | 0.646 | 0.50 | 221.09 | 1.59 | 1.00 | 182 | 0.643 | 0.96 | 0.193 | 0.482 | | 1.33 | 1.84 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.25 | 122.44 | 0.90 | 152.77 | 0.98 | 0.64% | 0.645 | 0.50 | 214.13 | 1.60 | 1.00 | 177 | 0.594 | 0.96 | 0.195 | 0.483 | | 1.23 | 1.69 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.31 | 122.19 | 0.91 | 150.04 | 0.95 | 0.63% | 0.637 | 0.50 | 209.74 | 1.60 | 1.00 | 173 | 0.565 | 0.96 | 0.197 | 0.484 | | 1.17 | 1.61 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.36 | 121.93 | 0.91 | 147.60 | 0.92 | 0.62% | 0.627 | 0.50 | 205.87 | 1.60 | 1.00 | 170 | 0.540 | 0.96 | 0.198 | 0.484 | | 1.12 | 1.54 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.44 | 121.45 | 0.92 | 145.45 | 0.87 | 0.60% | 0.602 | 0.50 | 202.18 | 1.60 | 1.00 | 168 | 0.518 | 0.96 | 0.201 | 0.485 | | 1.07 | 1.47 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.48 | 121.35 | 0.92 | 145.35 | 0.85 | 0.58% | 0.589 | 0.50 | 201.70 | 1.59 | 1.00 | 167 | 0.516 | 0.96 | 0.202 | 0.485 | | 1.06 | 1.46 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.55 | 121.31 | 0.92 | 146.82 | 0.85 | 0.58% | 0.583 | 0.50 | 203.17 | 1.59 | 1.00 | 169 | 0.527 | 0.96 | 0.204 | 0.486 | | 1.09 | 1.49 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.62 | 121.76 | 0.93 | 148.67 | 0.90 | 0.61% | 0.609 | 0.50 | 205.14 | 1.59 | 1.00 | 171 | 0.543 | 0.96 | 0.207 | 0.487 | | 1.11 | 1.53 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.67 | 121.11 | 0.93 | 148.67 | 0.82 | 0.55% | 0.555 | 0.50 | 204.72 | 1.57 | 1.00 | 171 | 0.541 | 0.96 | 0.208 | 0.487 | | 1.11 | 1.53 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.76 | 118.77 | 0.94 | 144.57 | 0.60 | 0.42% | 0.418 | 0.50 | 198.34 | 1.51 | 1.00 | 166 | 0.502 | 0.96 | 0.211 | 0.488 | | 1.03 | 1.41 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.80 | 119.39 | 0.94 | 142.33 | 0.66 | 0.46% | 0.467 | 0.50 | 194.93 | 1.54 | 1.00 | 163 | 0.481 | 0.96 | 0.212 | 0.489 | | 0.98 | 1.35 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.87 | 120.14 | 0.94 | 141.06 | 0.73 | 0.52% | 0.521 | 0.50 | 192.64 | 1.57 | 1.00 | 161 | 0.469 | 0.96 | 0.214 | 0.490 | | 0.96 | 1.32 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 16.93 | 120.96 | 0.95 | 140.77 | 0.82 | 0.58% | 0.586 | 0.50 | 191.77 | 1.60 | 1.00 | 161 | 0.465 | 0.96 | 0.216 | 0.490 | | 0.95 | 1.31 | | 0.000 | 0.000 | 0.000 | 5.034 | 0.000 | | |
| 17.01 | 121.47 | 0.95 | 127.30 | 0.91 | 0.71% | 0.720 | 0.52 | 172.73 | 1.69 | 1.03 | 151 | 0.397 | 0.96 | 0.219 | 0.491 | | 0.81 | 1.11 | <= | 0.317 | 0.003 | 0.000 | 5.034 | 0.000 | 16.93 | 17.01 |
| 17.07 | 122.15 | 0.95 | 134.91 | 0.98 | 0.73% | 0.732 | 0.51 | 182.68 | 1.68 | 1.02 | 158 | 0.445 | 0.96 | 0.221 | 0.492 | | 0.90 | 1.24 | <= | 0.244 | 0.002 | 0.000 | 5.031 | 0.000 | 17.01 | 17.07 |
| 17.13 | 122.92 | 0.96 | 135.89 | 1.08 | 0.79% | 0.800 | 0.52 | 183.56 | 1.70 | 1.04 | 161 | 0.471 | 0.96 | 0.222 | 0.492 | | 0.96 | 1.32 | | 0.000 | 0.000 | 0.000 | 5.029 | 0.000 | | |
| 17.22 | 123.54 | 0.96 | 132.47 | 1.19 | 0.90% | 0.905 | 0.53 | 178.23 | 1.75 | 1.07 | 162 | 0.476 | 0.96 | 0.225 | 0.493 | | 0.97 | 1.33 | | 0.000 | 0.000 | 0.000 | 5.029 | 0.000 | | |
| 17.27 | 123.66 | 0.97 | 127.98 | 1.22 | 0.95% | 0.961 | 0.54 | 171.79 | 1.77 | 1.09 | 160 | 0.459 | 0.96 | 0.227 | 0.494 | | 0.93 | 1.28 | <= | 0.270 | 0.002 | 0.000 | 5.029 | 0.000 | 17.22 | 17.27 |
| 17.34 | 123.64 | 0.97 | 117.34 | 1.26 | 1.07% | 1.083 | 0.56 | 156.93 | 1.83 | 1.13 | 153 | 0.414 | 0.96 | 0.229 | 0.494 | | 0.84 | 1.15 | <= | 0.360 | 0.003 | 0.000 | 5.027 | 0.000 | 17.27 | 17.34 |
| 17.40 | 123.54 | 0.97 | 107.58 | 1.27 | 1.18% | 1.191 | 0.57 | 143.41 | 1.89 | 1.18 | 147 | 0.373 | 0.96 | 0.231 | 0.495 | | 0.75 | 1.04 | <= | 0.500 | 0.004 | 0.000 | 5.024 | 0.000 | 17.34 | 17.40 |
| 17.46 | 123.19 | 0.98 | 91.76 | 1.28 | 1.39% | 1.410 | 0.60 | 121.83 | 1.99 | 1.28 | 137 | 0.320 | 0.96 | 0.233 | 0.496 | | 0.65 | 0.89 | <= | 1.247 | 0.009 | 0.000 | 5.021 | 0.000 | 17.40 | 17.46 |
| 17.54 | 122.74 | 0.98 | 77.51 | 1.28 | 1.65% | 1.673 | 0.64 | 102.37 | 2.09 | 1.44 | 130 | 0.287 | 0.96 | 0.235 | 0.496 | | 0.58 | 0.79 | <= | 1.834 | 0.018 | 0.000 | 5.012 | 0.000 | 17.46 | 17.54 |
| 17.59 | 122.65 | 0.99 | 70.09 | 1.30 | 1.85% | 1.881 | 0.65 | 92.25 | 2.16 | 1.57 | 129 | 0.280 | 0.96 | 0.237 | 0.497 | | 0.56 | 0.77 | <= | 1.757 | 0.011 | 0.000 | 4.994 | 0.000 | 17.54 | 17.59 |
| 17.67 | 122.79 | 0.99 | 62.77 | 1.38 | 2.20% | 2.234 | 0.68 | 82.21 | 2.24 | 1.77 | 131 | 0.291 | 0.96 | 0.239 | 0.498 | | 0.58 | 0.80 | <= | 1.069 | 0.010 | 0.000 | 4.984 | 0.000 | 17.59 | 17.67 |
| 17.76 | 123.13 | 1.00 | 55.25 | 1.50 | 2.71% | 2.765 | 0.71 | 71.93 | 2.34 | 2.10 | 138 | 0.322 | 0.96 | 0.242 | 0.498 | | 0.65 | 0.89 | <= | 1.694 | 0.018 | 0.000 | 4.973 | 0.000 | 17.67 | 17.76 |
| 17.80 | 122.89 | 1.00 | 49.00 | 1.52 | 3.10% | 3.167 | 0.73 | 63.54 | 2.42 | 2.40 | 140 | 0.336 | 0.96 | 0.243 | 0.499 | | 0.67 | 0.93 | <= | 0.724 | 0.003 | 0.000 | 4.955 | 0.000 | 17.76 | 17.80 |
| 17.89 | 121.87 | 1.00 | 40.61 | 1.40 | 3.45% | 3.535 | 0.76 | 52.24 | 2.51 | 2.83 | 137 | 0.320 | 0.96 | 0.246 | 0.500 | | 0.64 | 0.88 | <= | 1.787 | 0.019 | 0.000 | 4.952 | 0.000 | 17.80 | 17.89 |
| 17.93 | 121.06 | 1.01 | 36.90 | 1.30 | 3.52% | 3.622 | 0.77 | 47.27 | 2.55 | 3.03 | 133 | 0.301 | 0.96 | 0.247 | 0.500 | | 0.60 | 0.83 | <= | 1.828 | 0.009 | 0.000 | 4.932 | 0.000 | 17.89 | 17.93 |
| 17.98 | 120.33 | 1.01 | 33.58 | 1.21 | 3.60% | 3.715 | 0.78 | 42.81 | 2.59 | 3.25 | 130 | 0.284 | 0.96 | 0.249 | 0.501 | | 0.57 | 0.78 | <= | 1.867 | 0.011 | 0.000 | 4.923 | 0.000 | 17.93 | 17.98 |
| 18.06 | 119.13 | 1.01 | 28.80 | 1.08 | 3.75% | 3.887 | 0.80 | 36.42 | 2.65 | 3.64 | 125 | 0.261 | 0.96 | 0.251 | 0.501 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.912 | 0.000 | | |
| 18.11 | 118.75 | 1.02 | 28.85 | 1.03 | 3.57% | 3.701 | 0.80 | 36.41 | 2.64 | 3.55 | 121 | 0.247 | 0.96 | 0.253 | 0.502 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.912 | 0.000 | | |
| 18.20 | 119.11 | 1.02 | 28.90 | 1.08 | 3.74% | 3.874 | 0.80 | 36.35 | 2.65 | 3.64 | 125 | 0.260 | 0.96 | 0.256 | 0.503 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 4.912 | 0.000 | | |
| 18.25 | 120.16 | 1.03 | 36.41 | 1.15 | 3.16% | 3.250 | 0.77 | 46.05 | 2.53 | 2.90 | 124 | 0.259 | 0.96 | 0.257 | 0.503 | | 0.51 | 0.71 | <= | 1.935 | 0.012 | 0.000 | 4.912 | 0.000 | 18.20 | 18.25 |
| 18.34 | 120.72 | 1.03 | 44.42 | 1.17 | 2.63% | 2.697 | 0.73 | 56.27 | 2.41 | 2.35 | 122 | 0.249 | 0.96 | 0.260 | 0.504 | | 0.49 | 0.68 | <= | 1.965 | 0.021 | 0.000 | 4.901 | 0.000 | 18.25 | 18.34 |
| 18.39 | 120.68 | 1.03 | 43.34 | 1.17 | 2.70% | 2.766 | 0.74 | 54.76 | 2.42 | 2.42 | 122 | 0.250 | 0.96 | 0.262 | 0.504 | | 0.50 | 0.68 | <= | 1.961 | 0.012 | 0.000 | 4.879 | 0.000 | 18.34 | 18.39 |
| 18.45 | 120.40 | 1.04 | 41.29 | 1.14 | 2.76% | 2.832 | 0.74 | 51.99 | 2.45 | 2.52 | 121 | 0.246 | 0.96 | 0.264 | 0.505 | | 0.49 | 0.67 | <= | 1.975 | 0.014 | 0.000 | 4.868 | 0.000 | 18.39 | 18.45 |
| 18.52 | 120.06 | 1.04 | 41.68 | 1.09 | 2.62% | 2.682 | 0.74 | 52.35 | 2.43 | 2.44 | 118 | 0.233 | 0.96 | 0.266 | 0.506 | | 0.46 | 0.63 | <= | 2.017 | 0.017 | 0.000 | 4.853 | 0.000 | 18.45 | 18.52 |
| 18.60 | 120.42 | 1.05 | 53.50 | 1.05 | 1.96% | 2.002 | 0.69 | 67.37 | 2.27 | 1.85 | 114 | 0.217 | 0.96 | 0.268 | 0.506 | | 0.43 | 0.59 | <= | 2.080 | 0.020 | 0.000 | 4.836 | 0.000 | 18.52 | 18.60 |
| 18.65 | 121.29 | 1.05 | 70.77 | 1.08 | 1.53% | 1.549 | 0.64 | 89.38 | 2.11 | 1.47 | 118 | 0.233 | 0.96 | 0.270 | 0.507 | | 0.46 | 0.63 | <= | 2.018 | 0.012 | 0.000 | 4.817 | 0.000 | 18.60 | 18.65 |
| 18.74 | 122.58 | 1.06 | 96.45 | 1.16 | 1.20% | 1.216 | 0.59 | 121.87 | 1.94 | 1.23 | 133 | 0.300 | 0.96 | 0.273 | 0.508 | | 0.59 | 0.81 | <= | 1.052 | 0.011 | 0.000 | 4.804 | 0.000 | 18.65 | 18.74 |
| 18.78 | 123.09 | 1.06 | 107.87 | 1.20 | 1.11% | 1.123 | 0.57 | 136.24 | 1.88 | 1.17 | 142 | 0.344 | 0.96 | 0.274 | 0.508 | | 0.68 | 0.93 | <= | 0.726 | 0.003 | 0.000 | 4.793 | 0.000 | 18.74 | 18.78 |
| 18.87 | 123.68 | 1.06 | 120.17 | 1.25 | 1.04% | 1.049 | 0.56 | 151.39 | 1.83 | 1.13 | 151 | 0.400 | 0.96 | 0.277 | 0.509 | | 0.79 | 1.08 | <= | 0.568 | 0.006 | 0.000 | 4.790 | 0.000 | 18.78 | 18.87 |
| 18.91 | 123.90 | 1.07 | 124.07 | 1.28 | 1.03% | 1.041 | 0.55 | 156.10 | 1.82 | 1.12 | 154 | 0.422 | 0.96 | 0.278 | 0.509 | | 0.83 | 1.14 | <= | 0.343 | 0.002 | 0.000 | 4.783 | 0.000 | 18.87 | 18.91 |
| 18.96 | 124.25 | 1.07 | 130.13 | 1.32 | 1.01% | 1.023 | 0.55 | 163.47 | 1.80 | 1.10 | 159 | 0.457 | 0.96 | 0.280 | 0.509 | | 0.90 | 1.23 | <= | 0.233 | 0.001 | 0.000 | 4.782 | 0.000 | 18.91 | 18.96 |
| 19.05 | 124.55 | 1.07 | 137.54 | 1.35 | 0.98% | 0.989 | 0.54 | 172.24 | 1.77 | 1.09 | 165 | 0.498 | 0.95 | 0.282 | 0.510 | | 0.98 | 1.34 | | 0.000 | 0.000 | 0.000 | 4.780 | 0.000 | | |
| 19.11 | 124.61 | 1.08 | 140.67 | 1.35 | 0.96% | 0.967 | 0.54 | 175.77 | 1.76 | 1.08 | 167 | 0.513 | 0.95 | 0.284 | 0.511 | | 1.01 | 1.38 | | 0.000 | 0.000 | 0.000 | 4.780 | 0.000 | | |
| 19.18 | 124.92 | 1.08 | 143.11 | 1.40 | 0.98% | 0.986 | 0.54 | 178.34 | 1.76 | 1.08 | 170 | 0.535 | 0.95 | 0.286 | 0.511 | | 1.05 | 1.44 | | 0.000 | 0.000 | 0.000 | 4.780 | 0.000 | | |
| 19.23 | 125.22 | 1.09 | 145.35 | 1.45 | 1.00% | 1.005 | 0.54 | 180.80 | 1.76 | 1.08 | 172 | 0.557 | 0.95 | 0.288 | 0.512 | | 1.09 | 1.50 | | 0.000 | 0.000 | 0.000 | 4.780 | 0.000 | | |
| 19.32 | 125.77 | 1.09 | 148.28 | 1.55 | 1.05% | 1.053 | 0.54 | 183.81 | 1.77 | 1.08 | 177 | 0.592 | 0.95 | 0.291 | 0.512 | | 1.16 | 1.59 | | 0.000 | 0.000 | 0.000 | 4.780 | 0.000 | | |
| 19.37 | 125.99 | 1.09 | 149.26 | 1.60 | 1.07% | 1.080 | 0.54 | 184.66 | 1.77 | 1.09 | 178 | 0.608 | 0.95 | 0.292 | 0.513 | | 1.18 | 1.63 | | 0.000 | 0.000 | 0.000 | 4.780 | 0.000 | | |
| 19.44 | 125.87 | 1.10 | 129.93 | 1.65 | 1.27% | 1.281 | 0.57 | 160.12 | 1.87 | 1.16 | 166 | 0.507 | 0.95 | 0.295 | 0.513 | | 0.99 | 1.36 | | 0.000 | 0.000 | 0.000 | 4.780 | 0.000 | | |
| 19.50 | 126.23 | 1.10 | 143.99 | 1.67 | 1.16% | 1.169 | 0.55 | 177.17 | 1.81 | 1.11 | 176 | 0.587 | 0.95 | 0.296 | 0.514 | | 1.14 | 1.57 | | 0.000 | 0.000 | 0.000 | 4.780 | 0.000 | | |
| 19.56 | 126.34 | 1.11 | 142.43 | 1.70 | 1.19% | 1.203 | 0.55 | 174.81 | 1.82 | 1.12 | 175 | 0.582 | 0.95 | 0.298 | 0.514 | | 1.13 | 1.56 | | 0.000 | 0.000 | 0.000 | 4.780 | 0.000 | | |
| 19.63 | 126.34 | 1.11 | 137.74 | 1.72 | 1.25% | 1.259 | 0.56 | 168.54 | 1.85 | 1.14 | 173 | 0.558 | 0.95 | 0.300 | 0.515 | | 1.08 | 1.49 | | 0.000 | 0.000 | 0.000 | 4.780 | 0.000 | | |
| 19.72 | 125.31 | 1.12 | 131.49 | 1.52 | 1.16% | 1.166 | 0.56 | 160.26 | 1.84 | 1.14 | 163 | 0.485 | 0.95 | 0.303 | 0.515 | | 0.94 | 1.29 | <= | 0.279 | 0.003 | 0.000 | 4.780 | 0.000 | 19.63 | 19.72 |
| 19.76 | 124.55 | 1.12 | 128.47 | 1.38 | 1.07% | 1.084 | 0.56 | 156.31 | 1.82 | 1.12 | 158 | 0.444 | 0.95 | 0.305 | 0.516 | | 0.86 | 1.19 | <= | 0.392 | 0.002 | 0.000 | 4.777 | 0.000 | 19.72 | 19.76 |
| 19.84 | 123.99 | 1.12 | 121.73 | 1.30 | 1.07% | 1.078 | 0.56 | 147.58 | 1.84 | 1.14 | 151 | 0.399 | 0.95 | 0.307 | 0.516 | | 0.77 | 1.06 | <= | 0.536 | 0.005 | 0.000 | 4.776 | 0.000 | 19.76 | 19.84 |
| 19.90 | 123.81 | 1.13 | 115.58 | 1.29 | 1.12% | 1.127 | 0.57 | 139.74 | 1.87 | 1.16 | 146 | 0.372 | 0.95 | 0.309 | 0.517 | | 0.72 | 0.99 | <= | 0.850 | 0.006 | 0.000 | 4.770 | 0.000 | 19.84 | 19.90 |
| 19.97 | 123.71 | 1.13 | 109.24 | 1.30 | 1.19% | 1.203 | 0.58 | 131.65 | 1.91 | 1.19 | 142 | 0.348 | 0.95 | 0.311 | 0.517 | | 0.67 | 0.93 | <= | 0.709 | 0.006 | 0.000 | 4.764 | 0.000 | 19.90 | 19.97 |
| 20.02 | 123.61 | 1.14 | 102.50 | 1.31 | 1.28% | 1.292 | 0.59 | 123.21 | 1.95 | 1.24 | 138 | 0.327 | 0.95 | 0.313 | 0.518 | | 0.63 | 0.87 | <= | 1.168 | 0.007 | 0.000 | 4.758 | 0.000 | 19.97 | 20.02 |
| 20.11 | 123.61 | 1.14 | 88.25 | 1.38 | 1.56% | 1.584 | 0.62 | 105.53 | 2.05 | 1.38 | 133 | 0.300 | 0.95 | 0.315 | 0.518 | | 0.58 | 0.80 | <= | 1.812 | 0.020 | 0.000 | 4.751 | 0.000 | 20.02 | 20.11 |
| 20.15 | 123.80 | 1.14 | 86.78 | 1.42 | 1.64% | 1.658 | 0.63 | 103.59 | 2.07 | 1.41 | 134 | 0.304 | 0.95 | 0.317 | 0.519 | | 0.59 | 0.81 | <= | 1.018 | 0.005 | 0.000 | 4.732 | 0.000 | 20.11 | 20.15 |
| 20.23 | 124.07 | 1.15 | 79.46 | 1.52 | 1.91% | 1.941 | 0.65 | 94.45 | 2.15 | 1.55 | 135 | 0.309 | 0.95 | 0.319 | 0.519 | | 0.60 | 0.82 | <= | 1.051 | 0.010 | 0.000 | 4.727 | 0.000 | 20.15 | 20.23 |
| 20.28 | 124.03 | 1.15 | 73.02 | 1.55 | 2.12% | 2.157 | 0.67 | 86.51 | 2.21 | 1.68 | 135 | 0.309 | 0.95 | 0.321 | 0.520 | | 0.59 | 0.82 | <= | 1.130 | 0.007 | 0.000 | 4.717 | 0.000 | 20.23 | 20.28 |
| 20.37 | 123.70 | 1.16 | 64.72 | 1.54 | 2.38% | 2.423 | 0.69 | 76.26 | 2.28 | 1.88 | 134 | 0.303 | 0.95 | 0.324 | 0.520 | | 0.58 | 0.80 | <= | 1.020 | 0.011 | 0.000 | 4.710 | 0.000 | 20.28 | 20.37 |
| 20.42 | 123.51 | 1.16 | 59.25 | 1.55 | 2.62% | 2.668 | 0.71 | 69.57 | 2.33 | 2.06 | 135 | 0.307 | 0.95 | 0.325 | 0.521 | | 0.59 | 0.81 | <= | 1.094 | 0.007 | 0.000 | 4.699 | 0.000 | 20.37 | 20.42 |
| 20.49 | 123.61 | 1.16 | 58.86 | 1.57 | 2.67% | 2.721 | 0.71 | 68.92 | 2.34 | 2.09 | 136 | 0.312 | 0.95 | 0.327 | 0.521 | | 0.60 | 0.82 | <= | 1.173 | 0.010 | 0.000 | 4.692 | 0.000 | 20.42 | 20.49 |
| 20.55 | 123.73 | 1.17 | 61.79 | 1.57 | 2.54% | 2.590 | 0.70 | 72.26 | 2.31 | 1.99 | 135 | 0.309 | 0.95 | 0.329 | 0.522 | | 0.59 | 0.82 | <= | 1.121 | 0.008 | 0.000 | 4.683 | 0.000 | 20.49 | 20.55 |
| 20.64 | 124.39 | 1.17 | 73.31 | 1.63 | 2.22% | 2.260 | 0.67 | 85.70 | 2.22 | 1.72 | 138 | 0.322 | 0.95 | 0.332 | 0.522 | | 0.62 | 0.85 | <= | 1.361 | 0.015 | 0.000 | 4.674 | 0.000 | 20.55 | 20.64 |
| 20.69 | 124.86 | 1.18 | 80.44 | 1.68 | 2.09% | 2.120 | 0.66 | 93.99 | 2.17 | 1.60 | 140 | 0.338 | 0.95 | 0.334 | 0.523 | | 0.65 | 0.89 | <= | 1.205 | 0.007 | 0.000 | 4.660 | 0.000 | 20.64 | 20.69 |
| 20.77 | 123.67 | 1.18 | 92.84 | 1.36 | 1.46% | 1.484 | 0.62 | 108.37 | 2.02 | 1.33 | 133 | 0.301 | 0.95 | 0.336 | 0.523 | | 0.57 | 0.79 | <= | 1.780 | 0.017 | 0.000 | 4.653 | 0.000 | 20.69 | 20.77 |
| 20.82 | 122.17 | 1.18 | 96.55 | 1.10 | 1.14% | 1.153 | 0.59 | 112.55 | 1.94 | 1.23 | 127 | 0.271 | 0.95 | 0.338 | 0.524 | | 0.52 | 0.71 | <= | 1.491 | 0.009 | 0.000 | 4.635 | 0.000 | 20.77 | 20.82 |
| 20.89 | 122.76 | 1.19 | 98.89 | 1.18 | 1.19% | 1.208 | 0.59 | 115.02 | 1.95 | 1.23 | 131 | 0.288 | 0.95 | 0.340 | 0.524 | | 0.55 | 0.76 | <= | 1.644 | 0.014 | 0.000 | 4.626 | 0.000 | 20.82 | 20.89 |
| 20.95 | 123.28 | 1.19 | 100.45 | 1.26 | 1.25% | 1.269 | 0.59 | 116.61 | 1.95 | 1.25 | 134 | 0.303 | 0.95 | 0.342 | 0.525 | | 0.58 | 0.80 | <= | 1.799 | 0.013 | 0.000 | 4.613 | 0.000 | 20.89 | 20.95 |
| 21.00 | 123.64 | 1.20 | 100.65 | 1.32 | 1.31% | 1.327 | 0.60 | 116.63 | 1.97 | 1.26 | 136 | 0.312 | 0.95 | 0.343 | 0.525 | | 0.59 | 0.82 | <= | 1.041 | 0.006 | 0.000 | 4.600 | 0.000 | 20.95 | 21.00 |
| 21.07 | 123.77 | 1.20 | 90.10 | 1.39 | 1.54% | 1.564 | 0.62 | 103.99 | 2.05 | 1.37 | 133 | 0.296 | 0.95 | 0.345 | 0.525 | | 0.56 | 0.78 | <= | 1.722 | 0.014 | 0.000 | 4.593 | 0.000 | 21.00 | 21.07 |
| 21.16 | 124.38 | 1.21 | 98.01 | 1.47 | 1.50% | 1.519 | 0.61 | 112.87 | 2.02 | 1.32 | 138 | 0.327 | 0.95 | 0.348 | 0.526 | | 0.62 | 0.86 | <= | 1.126 | 0.012 | 0.000 | 4.579 | 0.000 | 21.07 | 21.16 |
| 21.20 | 124.59 | 1.21 | 97.91 | 1.52 | 1.55% | 1.572 | 0.62 | 112.58 | 2.03 | 1.34 | 140 | 0.335 | 0.95 | 0.349 | 0.526 | | 0.64 | 0.87 | <= | 1.169 | 0.006 | 0.000 | 4.567 | 0.000 | 21.16 | 21.20 |
| 21.30 | 124.92 | 1.21 | 95.47 | 1.60 | 1.68% | 1.698 | 0.63 | 109.34 | 2.06 | 1.38 | 141 | 0.341 | 0.95 | 0.353 | 0.527 | | 0.65 | 0.89 | <= | 1.204 | 0.014 | 0.000 | 4.561 | 0.000 | 21.20 | 21.30 |
| 21.34 | 125.02 | 1.22 | 94.40 | 1.63 | 1.73% | 1.749 | 0.63 | 107.94 | 2.07 | 1.41 | 142 | 0.344 | 0.95 | 0.354 | 0.527 | | 0.65 | 0.90 | <= | 1.217 | 0.006 | 0.000 | 4.547 | 0.000 | 21.30 | 21.34 |
| 21.39 | 125.11 | 1.22 | 93.52 | 1.66 | 1.78% | 1.798 | 0.63 | 106.72 | 2.08 | 1.43 | 142 | 0.347 | 0.95 | 0.355 | 0.528 | | 0.66 | 0.91 | <= | 0.649 | 0.004 | 0.000 | 4.541 | 0.000 | 21.34 | 21.39 |
| 21.49 | 125.28 | 1.23 | 94.49 | 1.69 | 1.79% | 1.812 | 0.63 | 107.44 | 2.08 | 1.42 | 143 | 0.353 | 0.95 | 0.358 | 0.528 | | 0.67 | 0.92 | <= | 0.687 | 0.008 | 0.000 | 4.537 | 0.000 | 21.39 | 21.49 |
| 21.53 | 125.41 | 1.23 | 97.13 | 1.70 | 1.75% | 1.773 | 0.63 | 110.32 | 2.07 | 1.40 | 144 | 0.361 | 0.95 | 0.360 | 0.528 | | 0.68 | 0.94 | <= | 0.730 | 0.004 | 0.000 | 4.529 | 0.000 | 21.49 | 21.53 |
| 21.60 | 125.67 | 1.23 | 102.11 | 1.74 | 1.70% | 1.725 | 0.62 | 115.75 | 2.05 | 1.36 | 148 | 0.379 | 0.95 | 0.362 | 0.529 | | 0.72 | 0.99 | <= | 0.833 | 0.007 | 0.000 | 4.525 | 0.000 | 21.53 | 21.60 |
| 21.67 | 126.01 | 1.24 | 108.45 | 1.78 | 1.64% | 1.660 | 0.61 | 122.71 | 2.02 | 1.32 | 152 | 0.404 | 0.95 | 0.364 | 0.529 | | 0.76 | 1.05 | <= | 0.507 | 0.004 | 0.000 | 4.518 | 0.000 | 21.60 | 21.67 |
| 21.75 | 126.56 | 1.24 | 115.58 | 1.88 | 1.63% | 1.644 | 0.61 | 130.48 | 1.99 | 1.29 | 158 | 0.444 | 0.95 | 0.367 | 0.530 | | 0.84 | 1.15 | <= | 0.354 | 0.003 | 0.000 | 4.514 | 0.000 | 21.67 | 21.75 |
| 21.80 | 126.84 | 1.25 | 120.36 | 1.93 | 1.60% | 1.620 | 0.60 | 135.68 | 1.98 | 1.27 | 161 | 0.471 | 0.95 | 0.368 | 0.530 | | 0.89 | 1.22 | <= | 0.220 | 0.001 | 0.000 | 4.511 | 0.000 | 21.75 | 21.80 |
| 21.86 | 127.16 | 1.25 | 127.10 | 1.98 | 1.56% | 1.573 | 0.59 | 143.04 | 1.95 | 1.24 | 166 | 0.506 | 0.95 | 0.370 | 0.531 | | 0.95 | 1.31 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 21.93 | 127.26 | 1.25 | 130.61 | 1.99 | 1.52% | 1.538 | 0.59 | 146.64 | 1.94 | 1.23 | 168 | 0.522 | 0.95 | 0.372 | 0.531 | | 0.98 | 1.35 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.00 | 127.30 | 1.26 | 134.52 | 1.98 | 1.47% | 1.486 | 0.58 | 150.68 | 1.92 | 1.21 | 170 | 0.537 | 0.95 | 0.374 | 0.531 | | 1.01 | 1.39 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.07 | 127.30 | 1.26 | 135.79 | 1.97 | 1.45% | 1.464 | 0.58 | 151.72 | 1.91 | 1.20 | 170 | 0.540 | 0.95 | 0.377 | 0.532 | | 1.02 | 1.40 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.12 | 127.34 | 1.27 | 135.30 | 1.98 | 1.46% | 1.477 | 0.58 | 150.89 | 1.92 | 1.20 | 170 | 0.539 | 0.95 | 0.378 | 0.532 | | 1.01 | 1.39 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.20 | 127.28 | 1.27 | 133.74 | 1.98 | 1.48% | 1.495 | 0.59 | 148.70 | 1.92 | 1.21 | 169 | 0.529 | 0.95 | 0.381 | 0.533 | | 0.99 | 1.37 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.25 | 127.31 | 1.27 | 133.84 | 1.98 | 1.48% | 1.494 | 0.59 | 148.53 | 1.92 | 1.21 | 169 | 0.529 | 0.95 | 0.382 | 0.533 | | 0.99 | 1.37 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.33 | 127.39 | 1.28 | 136.57 | 1.99 | 1.46% | 1.471 | 0.58 | 151.15 | 1.91 | 1.20 | 171 | 0.542 | 0.95 | 0.385 | 0.533 | | 1.02 | 1.40 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.40 | 127.58 | 1.28 | 141.25 | 2.02 | 1.43% | 1.443 | 0.58 | 155.97 | 1.90 | 1.19 | 174 | 0.570 | 0.95 | 0.387 | 0.534 | | 1.07 | 1.47 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.47 | 127.82 | 1.29 | 146.62 | 2.06 | 1.40% | 1.417 | 0.57 | 161.54 | 1.88 | 1.17 | 178 | 0.604 | 0.95 | 0.389 | 0.534 | | 1.13 | 1.56 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.52 | 127.94 | 1.29 | 149.65 | 2.08 | 1.39% | 1.402 | 0.57 | 164.60 | 1.87 | 1.16 | 180 | 0.624 | 0.95 | 0.391 | 0.534 | | 1.17 | 1.61 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.60 | 128.05 | 1.30 | 158.24 | 2.07 | 1.31% | 1.319 | 0.56 | 173.62 | 1.84 | 1.14 | 185 | 0.671 | 0.95 | 0.393 | 0.535 | | 1.26 | 1.73 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.67 | 128.29 | 1.30 | 170.83 | 2.09 | 1.22% | 1.233 | 0.55 | 187.07 | 1.79 | 1.10 | 194 | 0.756 | 0.95 | 0.395 | 0.535 | | 1.41 | 1.94 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.74 | 128.82 | 1.31 | 185.48 | 2.19 | 1.18% | 1.189 | 0.54 | 202.71 | 1.76 | 1.08 | 205 | 0.884 | 0.95 | 0.397 | 0.536 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.82 | 125.81 | 1.31 | 200.51 | 1.41 | 0.70% | 0.708 | 0.50 | 218.64 | 1.58 | 1.00 | 200 | 0.824 | 0.95 | 0.400 | 0.536 | | 1.54 | 2.11 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.86 | 125.74 | 1.31 | 206.95 | 1.38 | 0.67% | 0.671 | 0.50 | 225.39 | 1.55 | 1.00 | 200 | 0.824 | 0.95 | 0.401 | 0.536 | | 1.54 | 2.11 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 22.93 | 126.61 | 1.32 | 219.54 | 1.53 | 0.70% | 0.701 | 0.50 | 238.60 | 1.55 | 1.00 | 200 | 0.824 | 0.95 | 0.403 | 0.537 | | 1.54 | 2.11 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.00 | 127.56 | 1.32 | 231.45 | 1.71 | 0.74% | 0.743 | 0.50 | 250.99 | 1.55 | 1.00 | 200 | 0.824 | 0.95 | 0.406 | 0.537 | | 1.53 | 2.11 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.05 | 128.12 | 1.33 | 237.21 | 1.83 | 0.77% | 0.776 | 0.50 | 256.80 | 1.55 | 1.00 | 200 | 0.824 | 0.95 | 0.407 | 0.537 | | 1.53 | 2.11 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.11 | 128.81 | 1.33 | 237.80 | 2.01 | 0.85% | 0.850 | 0.50 | 256.89 | 1.58 | 1.00 | 200 | 0.824 | 0.95 | 0.409 | 0.538 | | 1.53 | 2.11 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.18 | 129.60 | 1.33 | 242.09 | 2.23 | 0.92% | 0.926 | 0.50 | 260.87 | 1.60 | 1.00 | 200 | 0.824 | 0.95 | 0.411 | 0.538 | | 1.53 | 2.11 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.27 | 130.37 | 1.34 | 254.10 | 2.43 | 0.96% | 0.961 | 0.50 | 272.98 | 1.60 | 1.00 | 200 | 0.824 | 0.94 | 0.414 | 0.539 | | 1.53 | 2.11 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.32 | 131.05 | 1.34 | 258.89 | 2.65 | 1.02% | 1.029 | 0.50 | 277.63 | 1.62 | 1.00 | 200 | 0.824 | 0.94 | 0.416 | 0.539 | | 1.53 | 2.10 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.37 | 131.52 | 1.35 | 262.01 | 2.82 | 1.08% | 1.082 | 0.50 | 280.47 | 1.63 | 1.00 | 200 | 0.824 | 0.94 | 0.417 | 0.539 | | 1.53 | 2.10 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.45 | 132.12 | 1.35 | 263.38 | 3.05 | 1.16% | 1.164 | 0.51 | 281.09 | 1.66 | 1.01 | 202 | 0.842 | 0.94 | 0.420 | 0.539 | | 1.56 | 2.15 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.50 | 132.39 | 1.36 | 262.20 | 3.17 | 1.21% | 1.215 | 0.51 | 279.30 | 1.67 | 1.02 | 204 | 0.868 | 0.94 | 0.421 | 0.540 | | 1.61 | 2.21 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.58 | 132.58 | 1.36 | 258.89 | 3.27 | 1.26% | 1.270 | 0.52 | 274.92 | 1.69 | 1.03 | 206 | 0.898 | 0.94 | 0.424 | 0.540 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-3

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**Analysis Scenario:** MCE (2% exceedance probability in 50 years)

D(ft): 1 | **MAGNITUDE:** 6.62 | **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet | **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.62 | 132.59 | 1.36 | 257.23 | 3.28 | 1.28% | 1.282 | 0.52 | 272.74 | 1.70 | 1.04 | 207 | 0.906 | 0.94 | 0.425 | 0.540 | | 1.68 | **2.31** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.70 | 132.42 | 1.37 | 252.25 | 3.23 | 1.28% | 1.287 | 0.52 | 266.63 | 1.70 | 1.04 | 208 | 0.918 | 0.94 | 0.427 | 0.541 | | 1.70 | **2.34** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.76 | 132.12 | 1.37 | 248.24 | 3.11 | 1.25% | 1.260 | 0.52 | 261.78 | 1.70 | 1.04 | 208 | 0.913 | 0.94 | 0.429 | 0.541 | | 1.69 | **2.32** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.84 | 131.59 | 1.38 | 241.51 | 2.92 | 1.21% | 1.216 | 0.52 | 253.90 | 1.70 | 1.04 | 207 | 0.907 | 0.94 | 0.432 | 0.541 | | 1.68 | **2.31** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.90 | 131.19 | 1.38 | 237.12 | 2.79 | 1.18% | 1.184 | 0.52 | 248.71 | 1.69 | 1.03 | 207 | 0.902 | 0.94 | 0.434 | 0.542 | | 1.66 | **2.29** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 23.97 | 130.59 | 1.39 | 233.89 | 2.58 | 1.10% | 1.110 | 0.51 | 244.68 | 1.68 | 1.02 | 204 | 0.874 | 0.94 | 0.436 | 0.542 | | 1.61 | **2.22** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.03 | 130.29 | 1.39 | 233.94 | 2.47 | 1.06% | 1.062 | 0.51 | 244.20 | 1.66 | 1.01 | 202 | 0.852 | 0.94 | 0.438 | 0.542 | | 1.57 | **2.16** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.12 | 129.85 | 1.40 | 233.70 | 2.33 | 1.00% | 1.003 | 0.50 | 243.17 | 1.65 | 1.00 | 200 | 0.824 | 0.94 | 0.441 | 0.543 | | 1.52 | **2.09** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.15 | 129.76 | 1.40 | 233.99 | 2.30 | 0.98% | 0.989 | 0.50 | 243.21 | 1.64 | 1.00 | 199 | 0.816 | 0.94 | 0.441 | 0.543 | | 1.50 | **2.07** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.25 | 129.49 | 1.40 | 233.31 | 2.22 | 0.95% | 0.957 | 0.50 | 241.65 | 1.63 | 1.00 | 200 | 0.824 | 0.94 | 0.445 | 0.543 | | 1.52 | **2.09** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.30 | 129.35 | 1.41 | 229.79 | 2.19 | 0.95% | 0.959 | 0.50 | 237.56 | 1.64 | 1.00 | 200 | 0.824 | 0.94 | 0.446 | 0.543 | | 1.52 | **2.09** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.38 | 129.10 | 1.41 | 225.40 | 2.13 | 0.94% | 0.951 | 0.50 | 232.35 | 1.64 | 1.00 | 199 | 0.816 | 0.94 | 0.449 | 0.544 | | 1.50 | **2.06** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.43 | 128.80 | 1.42 | 218.86 | 2.06 | 0.94% | 0.947 | 0.50 | 225.17 | 1.65 | 1.00 | 200 | 0.829 | 0.94 | 0.450 | 0.544 | | 1.52 | **2.10** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.48 | 128.54 | 1.42 | 215.64 | 2.00 | 0.93% | 0.934 | 0.50 | 221.45 | 1.65 | 1.00 | 200 | 0.829 | 0.94 | 0.452 | 0.544 | | 1.52 | **2.09** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.57 | 127.78 | 1.42 | 205.00 | 1.83 | 0.89% | 0.899 | 0.50 | 209.81 | 1.65 | 1.01 | 201 | 0.835 | 0.94 | 0.455 | 0.545 | | 1.53 | **2.11** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.62 | 127.31 | 1.43 | 197.09 | 1.74 | 0.88% | 0.889 | 0.51 | 201.32 | 1.66 | 1.01 | 197 | 0.790 | 0.94 | 0.456 | 0.545 | | 1.45 | **2.00** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.70 | 126.65 | 1.43 | 189.87 | 1.61 | 0.85% | 0.854 | 0.51 | 193.37 | 1.66 | 1.01 | 189 | 0.712 | 0.94 | 0.459 | 0.545 | | 1.31 | **1.80** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.74 | 126.32 | 1.44 | 186.06 | 1.55 | 0.83% | 0.840 | 0.51 | 189.21 | 1.66 | 1.01 | 186 | 0.675 | 0.94 | 0.460 | 0.546 | | 1.24 | **1.70** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.83 | 125.82 | 1.44 | 172.59 | 1.49 | 0.86% | 0.871 | 0.52 | 174.89 | 1.70 | 1.04 | 176 | 0.587 | 0.94 | 0.463 | 0.546 | | 1.08 | **1.48** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.88 | 125.81 | 1.44 | 163.41 | 1.51 | 0.92% | 0.932 | 0.53 | 165.24 | 1.74 | 1.06 | 171 | 0.542 | 0.94 | 0.464 | 0.546 | | 0.99 | **1.37** | | 0.000 | 0.000 | 0.000 | 4.509 | 0.000 | | |
| 24.96 | 125.97 | 1.45 | 152.38 | 1.58 | 1.04% | 1.047 | 0.55 | 153.58 | 1.79 | 1.10 | 165 | 0.497 | 0.94 | 0.467 | 0.547 | | 0.91 | **1.25** | <= | 0.241 | 0.002 | 0.000 | 4.509 | 0.000 | 24.88 | 24.96 |
| 25.01 | 126.12 | 1.45 | 137.94 | 1.67 | 1.21% | 1.224 | 0.57 | 138.66 | 1.87 | 1.16 | 157 | 0.443 | 0.94 | 0.468 | 0.547 | | 0.81 | **1.11** | <= | 0.309 | 0.002 | 0.000 | 4.507 | 0.000 | 24.96 | 25.01 |
| 25.09 | 125.80 | 1.46 | 118.90 | 1.68 | 1.41% | 1.430 | 0.60 | 119.01 | 1.97 | 1.26 | 146 | 0.372 | 0.94 | 0.471 | 0.547 | | 0.68 | **0.94** | <= | 0.711 | 0.007 | 0.000 | 4.505 | 0.000 | 25.01 | 25.09 |
| 25.18 | 124.62 | 1.46 | 85.22 | 1.60 | 1.88% | 1.910 | 0.66 | 84.63 | 2.16 | 1.57 | 131 | 0.287 | 0.94 | 0.474 | 0.548 | | 0.52 | **0.72** | <= | 1.480 | 0.016 | 0.000 | 4.498 | 0.000 | 25.09 | 25.18 |
| 25.21 | 124.09 | 1.47 | 74.39 | 1.55 | 2.08% | 2.125 | 0.68 | 73.62 | 2.23 | 1.75 | 127 | 0.270 | 0.94 | 0.475 | 0.548 | | 0.49 | **0.68** | <= | 1.903 | 0.007 | 0.000 | 4.482 | 0.000 | 25.18 | 25.21 |
| 25.28 | 123.32 | 1.47 | 55.06 | 1.55 | 2.82% | 2.892 | 0.73 | 53.98 | 2.42 | 2.40 | 128 | 0.276 | 0.94 | 0.477 | 0.548 | | 0.50 | **0.69** | <= | 1.888 | 0.016 | 0.000 | 4.475 | 0.000 | 25.21 | 25.28 |
| 25.35 | 122.73 | 1.47 | 42.56 | 1.55 | 3.64% | 3.773 | 0.78 | 41.30 | 2.58 | 3.23 | 132 | 0.295 | 0.94 | 0.479 | 0.548 | | 0.54 | **0.74** | <= | 1.840 | 0.015 | 0.000 | 4.460 | 0.000 | 25.28 | 25.35 |
| 25.42 | 122.18 | 1.48 | 35.34 | 1.53 | 4.33% | 4.518 | 0.82 | 33.97 | 2.70 | 3.99 | 135 | 0.307 | 0.94 | 0.481 | 0.549 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.444 | 0.000 | | |
| 25.46 | 121.93 | 1.48 | 29.09 | 1.58 | 5.43% | 5.723 | 0.86 | 27.66 | 2.83 | 5.09 | 168 | 0.519 | 0.94 | 0.482 | 0.549 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.444 | 0.000 | | |
| 25.53 | 123.42 | 1.48 | 45.78 | 1.67 | 3.65% | 3.770 | 0.78 | 44.28 | 2.56 | 3.11 | 136 | 0.316 | 0.94 | 0.485 | 0.549 | | 0.57 | **0.79** | <= | 1.797 | 0.015 | 0.000 | 4.444 | 0.000 | 25.46 | 25.53 |
| 25.59 | 125.22 | 1.49 | 76.34 | 1.80 | 2.36% | 2.405 | 0.69 | 74.69 | 2.26 | 1.84 | 136 | 0.313 | 0.94 | 0.486 | 0.550 | | 0.57 | **0.78** | <= | 1.801 | 0.013 | 0.000 | 4.429 | 0.000 | 25.53 | 25.59 |
| 25.68 | 126.58 | 1.49 | 104.84 | 1.95 | 1.86% | 1.887 | 0.64 | 102.83 | 2.09 | 1.44 | 146 | 0.372 | 0.94 | 0.489 | 0.550 | | 0.68 | **0.93** | <= | 0.695 | 0.008 | 0.000 | 4.416 | 0.000 | 25.59 | 25.68 |
| 25.73 | 126.72 | 1.50 | 109.33 | 1.96 | 1.79% | 1.818 | 0.63 | 107.12 | 2.07 | 1.40 | 148 | 0.383 | 0.94 | 0.491 | 0.550 | | 0.70 | **0.96** | <= | 0.754 | 0.005 | 0.000 | 4.409 | 0.000 | 25.68 | 25.73 |
| 25.81 | 126.92 | 1.50 | 118.41 | 1.96 | 1.66% | 1.677 | 0.61 | 115.84 | 2.02 | 1.33 | 152 | 0.406 | 0.94 | 0.493 | 0.551 | | 0.74 | **1.01** | <= | 0.444 | 0.004 | 0.000 | 4.404 | 0.000 | 25.73 | 25.81 |
| 25.86 | 126.95 | 1.51 | 125.64 | 1.93 | 1.54% | 1.555 | 0.60 | 122.81 | 1.98 | 1.27 | 155 | 0.423 | 0.94 | 0.495 | 0.551 | | 0.77 | **1.06** | <= | 0.513 | 0.003 | 0.000 | 4.400 | 0.000 | 25.81 | 25.86 |
| 25.93 | 126.79 | 1.51 | 138.52 | 1.83 | 1.32% | 1.336 | 0.58 | 135.24 | 1.90 | 1.19 | 159 | 0.455 | 0.94 | 0.497 | 0.551 | | 0.83 | **1.14** | <= | 0.333 | 0.003 | 0.000 | 4.397 | 0.000 | 25.86 | 25.93 |
| 26.00 | 126.67 | 1.51 | 150.92 | 1.75 | 1.16% | 1.171 | 0.56 | 147.15 | 1.84 | 1.13 | 165 | 0.498 | 0.94 | 0.499 | 0.551 | | 0.90 | **1.24** | <= | 0.234 | 0.002 | 0.000 | 4.394 | 0.000 | 25.93 | 26.00 |
| 26.05 | 126.80 | 1.52 | 164.00 | 1.73 | 1.05% | 1.065 | 0.54 | 159.78 | 1.78 | 1.09 | 173 | 0.560 | 0.94 | 0.501 | 0.552 | | 1.02 | **1.40** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.12 | 127.00 | 1.52 | 174.74 | 1.74 | 1.00% | 1.005 | 0.53 | 169.96 | 1.74 | 1.07 | 180 | 0.619 | 0.94 | 0.503 | 0.552 | | 1.12 | **1.54** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.20 | 127.42 | 1.53 | 190.94 | 1.79 | 0.94% | 0.945 | 0.52 | 185.37 | 1.70 | 1.04 | 190 | 0.723 | 0.94 | 0.505 | 0.552 | | 1.31 | **1.80** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.26 | 127.81 | 1.53 | 201.78 | 1.85 | 0.92% | 0.924 | 0.51 | 195.60 | 1.67 | 1.02 | 198 | 0.802 | 0.94 | 0.507 | 0.552 | | 1.45 | **2.00** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.33 | 128.29 | 1.54 | 216.03 | 1.93 | 0.89% | 0.900 | 0.50 | 209.05 | 1.65 | 1.00 | 200 | 0.824 | 0.94 | 0.509 | 0.553 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.40 | 128.76 | 1.54 | 223.45 | 2.04 | 0.91% | 0.919 | 0.50 | 215.78 | 1.64 | 1.00 | 200 | 0.819 | 0.94 | 0.512 | 0.553 | | 1.48 | **2.04** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.45 | 129.14 | 1.54 | 229.21 | 2.13 | 0.93% | 0.936 | 0.50 | 221.02 | 1.64 | 1.00 | 199 | 0.816 | 0.94 | 0.513 | 0.553 | | 1.47 | **2.03** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.53 | 129.80 | 1.55 | 236.53 | 2.30 | 0.97% | 0.979 | 0.50 | 227.53 | 1.65 | 1.00 | 200 | 0.824 | 0.94 | 0.516 | 0.553 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.58 | 130.11 | 1.55 | 240.83 | 2.39 | 0.99% | 0.999 | 0.50 | 231.31 | 1.65 | 1.00 | 200 | 0.827 | 0.94 | 0.517 | 0.554 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.66 | 130.54 | 1.56 | 244.14 | 2.52 | 1.03% | 1.039 | 0.50 | 233.89 | 1.66 | 1.01 | 202 | 0.841 | 0.94 | 0.520 | 0.554 | | 1.52 | **2.09** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.71 | 130.77 | 1.56 | 247.56 | 2.59 | 1.05% | 1.053 | 0.50 | 236.79 | 1.66 | 1.01 | 202 | 0.842 | 0.94 | 0.521 | 0.554 | | 1.52 | **2.09** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.78 | 131.06 | 1.56 | 249.81 | 2.69 | 1.08% | 1.084 | 0.51 | 238.40 | 1.66 | 1.01 | 203 | 0.853 | 0.94 | 0.524 | 0.554 | | 1.54 | **2.12** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.85 | 131.23 | 1.57 | 250.59 | 2.75 | 1.10% | 1.104 | 0.51 | 238.60 | 1.67 | 1.02 | 203 | 0.863 | 0.94 | 0.526 | 0.555 | | 1.56 | **2.14** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.94 | 131.45 | 1.58 | 250.29 | 2.83 | 1.13% | 1.138 | 0.51 | 237.60 | 1.68 | 1.02 | 205 | 0.880 | 0.94 | 0.529 | 0.555 | | 1.58 | **2.18** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 26.99 | 131.47 | 1.58 | 248.73 | 2.85 | 1.15% | 1.153 | 0.51 | 235.71 | 1.69 | 1.03 | 206 | 0.890 | 0.94 | 0.530 | 0.555 | | 1.60 | **2.21** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.07 | 131.39 | 1.58 | 246.10 | 2.83 | 1.15% | 1.157 | 0.52 | 232.59 | 1.69 | 1.03 | 206 | 0.897 | 0.94 | 0.533 | 0.555 | | 1.62 | **2.22** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.11 | 131.28 | 1.59 | 241.70 | 2.80 | 1.16% | 1.166 | 0.52 | 228.10 | 1.70 | 1.04 | 207 | 0.910 | 0.94 | 0.534 | 0.556 | | 1.64 | **2.25** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.19 | 131.04 | 1.59 | 236.53 | 2.73 | 1.15% | 1.162 | 0.52 | 222.60 | 1.70 | 1.04 | 208 | 0.919 | 0.94 | 0.536 | 0.556 | | 1.65 | **2.27** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.24 | 130.81 | 1.60 | 229.70 | 2.67 | 1.16% | 1.171 | 0.52 | 215.78 | 1.72 | 1.05 | 210 | 0.937 | 0.94 | 0.538 | 0.556 | | 1.69 | **2.32** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.32 | 130.47 | 1.60 | 222.38 | 2.58 | 1.16% | 1.169 | 0.53 | 208.31 | 1.72 | 1.05 | 211 | 0.952 | 0.94 | 0.540 | 0.556 | | 1.71 | **2.36** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.38 | 130.22 | 1.60 | 216.03 | 2.52 | 1.17% | 1.175 | 0.53 | 201.93 | 1.74 | 1.06 | 212 | 0.970 | 0.94 | 0.542 | 0.556 | | 1.74 | **2.40** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.47 | 129.80 | 1.61 | 210.08 | 2.40 | 1.14% | 1.151 | 0.53 | 195.76 | 1.74 | 1.06 | 210 | 0.947 | 0.93 | 0.545 | 0.557 | | 1.70 | **2.34** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.51 | 129.60 | 1.61 | 207.15 | 2.34 | 1.13% | 1.138 | 0.53 | 192.77 | 1.74 | 1.06 | 207 | 0.910 | 0.93 | 0.546 | 0.557 | | 1.63 | **2.25** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.59 | 129.18 | 1.62 | 198.56 | 2.25 | 1.13% | 1.142 | 0.53 | 184.24 | 1.75 | 1.07 | 200 | 0.827 | 0.93 | 0.549 | 0.557 | | 1.48 | **2.04** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.66 | 128.66 | 1.62 | 186.06 | 2.14 | 1.15% | 1.160 | 0.54 | 172.17 | 1.78 | 1.09 | 190 | 0.721 | 0.93 | 0.551 | 0.557 | | 1.29 | **1.78** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.69 | 128.41 | 1.62 | 178.55 | 2.10 | 1.18% | 1.187 | 0.55 | 165.01 | 1.80 | 1.10 | 185 | 0.667 | 0.93 | 0.552 | 0.558 | | 1.20 | **1.65** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.77 | 127.66 | 1.63 | 162.83 | 1.95 | 1.20% | 1.210 | 0.56 | 149.98 | 1.83 | 1.13 | 172 | 0.554 | 0.93 | 0.554 | 0.558 | | 0.99 | **1.37** | | 0.000 | 0.000 | 0.000 | 4.392 | 0.000 | | |
| 27.83 | 126.95 | 1.63 | 147.89 | 1.83 | 1.24% | 1.251 | 0.57 | 135.83 | 1.87 | 1.16 | 160 | 0.464 | 0.93 | 0.556 | 0.558 | | 0.83 | **1.14** | <= | 0.340 | 0.002 | 0.000 | 4.392 | 0.000 | 27.77 | 27.83 |
| 27.92 | 124.52 | 1.64 | 134.03 | 1.35 | 1.01% | 1.020 | 0.56 | 122.63 | 1.84 | 1.14 | 142 | 0.347 | 0.93 | 0.559 | 0.558 | | 0.62 | **0.85** | <= | 1.081 | 0.012 | 0.000 | 4.390 | 0.000 | 27.83 | 27.92 |
| 27.97 | 121.94 | 1.64 | 122.41 | 0.98 | 0.80% | 0.811 | 0.55 | 111.71 | 1.81 | 1.11 | 127 | 0.269 | 0.93 | 0.561 | 0.559 | | 0.48 | **0.66** | <= | 1.846 | 0.011 | 0.000 | 4.378 | 0.000 | 27.92 | 27.97 |
| 28.05 | 121.79 | 1.65 | 113.43 | 0.99 | 0.87% | 0.886 | 0.57 | 103.17 | 1.86 | 1.15 | 121 | 0.245 | 0.93 | 0.563 | 0.559 | | 0.44 | **0.60** | <= | 1.976 | 0.019 | 0.000 | 4.367 | 0.000 | 27.97 | 28.05 |
| 28.09 | 121.83 | 1.65 | 109.24 | 1.00 | 0.92% | 0.929 | 0.57 | 99.20 | 1.89 | 1.18 | 119 | 0.236 | 0.93 | 0.564 | 0.559 | | 0.42 | **0.58** | <= | 2.007 | 0.010 | 0.000 | 4.348 | 0.000 | 28.05 | 28.09 |
| 28.18 | 121.51 | 1.65 | 97.33 | 1.00 | 1.03% | 1.045 | 0.60 | 87.99 | 1.96 | 1.25 | 112 | 0.211 | 0.93 | 0.567 | 0.559 | | 0.38 | **0.52** | <= | 2.105 | 0.023 | 0.000 | 4.338 | 0.000 | 28.09 | 28.18 |
| 28.23 | 121.67 | 1.66 | 93.52 | 1.03 | 1.10% | 1.121 | 0.61 | 84.37 | 1.99 | 1.29 | 111 | 0.207 | 0.93 | 0.569 | 0.560 | | 0.37 | **0.51** | <= | 2.122 | 0.013 | 0.000 | 4.315 | 0.000 | 28.18 | 28.23 |
| 28.31 | 121.98 | 1.66 | 81.02 | 1.13 | 1.39% | 1.424 | 0.64 | 72.73 | 2.11 | 1.47 | 109 | 0.200 | 0.93 | 0.571 | 0.560 | | 0.36 | **0.49** | <= | 2.153 | 0.021 | 0.000 | 4.303 | 0.000 | 28.23 | 28.31 |
| 28.35 | 122.23 | 1.66 | 76.04 | 1.20 | 1.58% | 1.613 | 0.66 | 68.09 | 2.17 | 1.59 | 110 | 0.204 | 0.93 | 0.573 | 0.560 | | 0.36 | **0.50** | <= | 2.136 | 0.010 | 0.000 | 4.282 | 0.000 | 28.31 | 28.35 |
| 28.43 | 122.77 | 1.67 | 67.84 | 1.34 | 1.98% | 2.025 | 0.69 | 60.44 | 2.27 | 1.86 | 114 | 0.219 | 0.93 | 0.575 | 0.560 | | 0.39 | **0.54** | <= | 2.072 | 0.020 | 0.000 | 4.272 | 0.000 | 28.35 | 28.43 |
| 28.49 | 123.00 | 1.67 | 59.25 | 1.45 | 2.45% | 2.518 | 0.72 | 52.51 | 2.38 | 2.24 | 119 | 0.237 | 0.93 | 0.577 | 0.561 | | 0.42 | **0.58** | <= | 2.003 | 0.014 | 0.000 | 4.252 | 0.000 | 28.43 | 28.49 |
| 28.57 | 122.74 | 1.68 | 50.47 | 1.47 | 2.91% | 3.013 | 0.75 | 44.40 | 2.49 | 2.71 | 122 | 0.248 | 0.93 | 0.579 | 0.561 | | 0.44 | **0.61** | <= | 1.968 | 0.019 | 0.000 | 4.237 | 0.000 | 28.49 | 28.57 |
| 28.62 | 122.07 | 1.68 | 45.00 | 1.39 | 3.09% | 3.209 | 0.77 | 39.36 | 2.54 | 3.00 | 120 | 0.240 | 0.93 | 0.581 | 0.561 | | 0.43 | **0.59** | <= | 1.994 | 0.012 | 0.000 | 4.219 | 0.000 | 28.57 | 28.62 |
| 28.71 | 121.01 | 1.69 | 37.39 | 1.28 | 3.42% | 3.585 | 0.80 | 32.37 | 2.64 | 3.58 | 118 | 0.234 | 0.93 | 0.584 | 0.561 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 28.75 | 120.77 | 1.69 | 34.56 | 1.27 | 3.67% | 3.864 | 0.81 | 29.77 | 2.69 | 3.92 | 129 | 0.281 | 0.93 | 0.585 | 0.562 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 28.85 | 120.55 | 1.70 | 30.16 | 1.29 | 4.28% | 4.532 | 0.84 | 25.71 | 2.78 | 4.64 | 153 | 0.415 | 0.93 | 0.588 | 0.562 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 28.89 | 120.59 | 1.70 | 30.21 | 1.30 | 4.30% | 4.559 | 0.84 | 25.72 | 2.78 | 4.66 | 154 | 0.417 | 0.93 | 0.589 | 0.562 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 28.94 | 120.63 | 1.70 | 30.21 | 1.31 | 4.34% | 4.595 | 0.84 | 25.69 | 2.79 | 4.68 | 154 | 0.422 | 0.93 | 0.591 | 0.562 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.00 | 120.48 | 1.70 | 30.26 | 1.28 | 4.23% | 4.482 | 0.84 | 25.69 | 2.78 | 4.62 | 152 | 0.409 | 0.93 | 0.593 | 0.562 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.08 | 120.33 | 1.71 | 30.65 | 1.25 | 4.08% | 4.319 | 0.84 | 25.98 | 2.77 | 4.50 | 148 | 0.384 | 0.93 | 0.595 | 0.563 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.16 | 120.26 | 1.71 | 30.55 | 1.24 | 4.06% | 4.300 | 0.84 | 25.83 | 2.77 | 4.50 | 149 | 0.385 | 0.93 | 0.598 | 0.563 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.20 | 120.26 | 1.72 | 30.46 | 1.24 | 4.07% | 4.314 | 0.84 | 25.72 | 2.77 | 4.52 | 149 | 0.388 | 0.93 | 0.599 | 0.563 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.29 | 120.29 | 1.72 | 30.85 | 1.24 | 4.02% | 4.257 | 0.84 | 26.01 | 2.76 | 4.46 | 147 | 0.376 | 0.93 | 0.602 | 0.564 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.34 | 120.33 | 1.72 | 31.24 | 1.24 | 3.97% | 4.201 | 0.83 | 26.32 | 2.75 | 4.40 | 145 | 0.364 | 0.93 | 0.603 | 0.564 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.40 | 120.54 | 1.73 | 32.31 | 1.26 | 3.90% | 4.120 | 0.83 | 27.23 | 2.74 | 4.26 | 141 | 0.339 | 0.93 | 0.605 | 0.564 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.46 | 120.76 | 1.73 | 33.19 | 1.29 | 3.89% | 4.101 | 0.83 | 27.97 | 2.73 | 4.19 | 138 | 0.325 | 0.93 | 0.607 | 0.564 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.56 | 121.00 | 1.74 | 35.05 | 1.31 | 3.74% | 3.933 | 0.82 | 29.54 | 2.70 | 3.96 | 131 | 0.288 | 0.93 | 0.610 | 0.565 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.61 | 121.11 | 1.74 | 36.22 | 1.31 | 3.62% | 3.799 | 0.81 | 30.53 | 2.67 | 3.81 | 126 | 0.266 | 0.93 | 0.612 | 0.565 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.69 | 121.29 | 1.75 | 36.70 | 1.34 | 3.65% | 3.834 | 0.81 | 30.89 | 2.67 | 3.81 | 126 | 0.264 | 0.93 | 0.614 | 0.565 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.74 | 121.41 | 1.75 | 37.78 | 1.35 | 3.57% | 3.747 | 0.81 | 31.80 | 2.66 | 3.69 | 122 | 0.249 | 0.93 | 0.616 | 0.565 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.79 | 121.54 | 1.75 | 39.34 | 1.36 | 3.46% | 3.618 | 0.80 | 33.13 | 2.63 | 3.54 | 119 | 0.238 | 0.93 | 0.617 | 0.565 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.207 | 0.000 | | |
| 29.88 | 121.72 | 1.76 | 42.07 | 1.36 | 3.23% | 3.374 | 0.79 | 35.45 | 2.59 | 3.27 | 118 | 0.233 | 0.93 | 0.620 | 0.566 | | 0.41 | **0.57** | <= | 2.016 | 0.022 | 0.000 | 4.207 | 0.000 | 29.79 | 29.88 |
| 29.94 | 121.82 | 1.76 | 43.64 | 1.36 | 3.12% | 3.247 | 0.78 | 36.77 | 2.57 | 3.13 | 118 | 0.231 | 0.93 | 0.622 | 0.566 | | 0.41 | **0.56** | <= | 2.024 | 0.015 | 0.000 | 4.185 | 0.000 | 29.88 | 29.94 |
| 29.99 | 120.86 | 1.76 | 44.81 | 1.18 | 2.63% | 2.741 | 0.76 | 37.74 | 2.51 | 2.82 | 109 | 0.199 | 0.93 | 0.624 | 0.566 | | 0.35 | **0.48** | <= | 2.157 | 0.013 | 0.000 | 4.170 | 0.000 | 29.94 | 29.99 |
| 30.05 | 116.84 | 1.77 | 46.76 | 0.67 | 1.43% | 1.489 | 0.71 | 39.39 | 2.33 | 2.03 | 82 | 0.132 | 0.93 | 0.626 | 0.567 | | 0.23 | **0.32** | <= | 2.697 | 0.019 | 0.000 | 4.157 | 0.000 | 29.99 | 30.05 |
| 30.13 | 117.81 | 1.77 | 49.69 | 0.75 | 1.51% | 1.565 | 0.70 | 41.87 | 2.32 | 2.01 | 86 | 0.140 | 0.93 | 0.628 | 0.567 | | 0.25 | **0.34** | <= | 2.595 | 0.025 | 0.000 | 4.138 | 0.000 | 30.05 | 30.13 |
| 30.19 | 118.42 | 1.78 | 51.74 | 0.81 | 1.57% | 1.621 | 0.70 | 43.60 | 2.31 | 1.99 | 89 | 0.146 | 0.93 | 0.630 | 0.567 | | 0.26 | **0.35** | <= | 2.526 | 0.018 | 0.000 | 4.113 | 0.000 | 30.13 | 30.19 |
| 30.27 | 119.40 | 1.78 | 54.67 | 0.91 | 1.66% | 1.721 | 0.70 | 46.06 | 2.31 | 1.98 | 94 | 0.157 | 0.93 | 0.632 | 0.567 | | 0.28 | **0.38** | <= | 2.424 | 0.023 | 0.000 | 4.095 | 0.000 | 30.19 | 30.27 |
| 30.32 | 119.95 | 1.78 | 54.76 | 0.98 | 1.79% | 1.850 | 0.71 | 46.08 | 2.33 | 2.05 | 97 | 0.165 | 0.93 | 0.634 | 0.567 | | 0.29 | **0.40** | <= | 2.360 | 0.014 | 0.000 | 4.072 | 0.000 | 30.27 | 30.32 |
| 30.40 | 120.72 | 1.79 | 54.08 | 1.09 | 2.02% | 2.084 | 0.72 | 45.39 | 2.37 | 2.19 | 102 | 0.179 | 0.93 | 0.636 | 0.567 | | 0.32 | **0.44** | <= | 2.266 | 0.022 | 0.000 | 4.057 | 0.000 | 30.32 | 30.40 |
| 30.46 | 121.15 | 1.79 | 54.67 | 1.15 | 2.10% | 2.175 | 0.72 | 45.83 | 2.38 | 2.22 | 105 | 0.187 | 0.93 | 0.638 | 0.567 | | 0.33 | **0.45** | <= | 2.220 | 0.016 | 0.000 | 4.036 | 0.000 | 30.40 | 30.46 |
| 30.54 | 121.59 | 1.80 | 53.40 | 1.23 | 2.30% | 2.384 | 0.73 | 44.63 | 2.41 | 2.36 | 109 | 0.199 | 0.93 | 0.641 | 0.567 | | 0.35 | **0.48** | <= | 2.159 | 0.021 | 0.000 | 4.020 | 0.000 | 30.46 | 30.54 |
| 30.59 | 121.86 | 1.80 | 54.57 | 1.27 | 2.33% | 2.407 | 0.73 | 45.58 | 2.41 | 2.35 | 110 | 0.204 | 0.93 | 0.642 | 0.567 | | 0.36 | **0.49** | <= | 2.135 | 0.013 | 0.000 | 3.999 | 0.000 | 30.54 | 30.59 |
| 30.67 | 121.48 | 1.80 | 56.81 | 1.19 | 2.09% | 2.163 | 0.72 | 47.41 | 2.36 | 2.17 | 106 | 0.191 | 0.93 | 0.645 | 0.567 | | 0.34 | **0.46** | <= | 2.197 | 0.021 | 0.000 | 3.986 | 0.000 | 30.59 | 30.67 |
| 30.73 | 118.77 | 1.81 | 60.43 | 0.80 | 1.32% | 1.365 | 0.67 | 50.46 | 2.21 | 1.70 | 89 | 0.146 | 0.93 | 0.647 | 0.567 | | 0.26 | **0.35** | <= | 2.532 | 0.018 | 0.000 | 3.965 | 0.000 | 30.67 | 30.73 |
| 30.82 | 117.14 | 1.81 | 65.50 | 0.63 | 0.96% | 0.989 | 0.64 | 54.70 | 2.10 | 1.46 | 83 | 0.133 | 0.92 | 0.650 | 0.567 | | 0.23 | **0.32** | <= | 2.680 | 0.029 | 0.000 | 3.947 | 0.000 | 30.73 | 30.82 |
| 30.86 | 118.20 | 1.82 | 67.06 | 0.72 | 1.07% | 1.104 | 0.64 | 55.99 | 2.12 | 1.49 | 87 | 0.142 | 0.92 | 0.651 | 0.567 | | 0.25 | **0.34** | <= | 2.578 | 0.012 | 0.000 | 3.918 | 0.000 | 30.82 | 30.86 |
| 30.94 | 119.99 | 1.82 | 70.68 | 0.90 | 1.27% | 1.307 | 0.65 | 58.97 | 2.15 | 1.55 | 95 | 0.160 | 0.92 | 0.653 | 0.567 | | 0.28 | **0.39** | <= | 2.402 | 0.023 | 0.000 | 3.905 | 0.000 | 30.86 | 30.94 |
| 30.99 | 120.52 | 1.82 | 64.14 | 1.00 | 1.56% | 1.605 | 0.68 | 53.30 | 2.24 | 1.77 | 98 | 0.167 | 0.92 | 0.655 | 0.567 | | 0.29 | **0.41** | <= | 2.347 | 0.014 | 0.000 | 3.882 | 0.000 | 30.94 | 30.99 |
| 31.05 | 121.70 | 1.83 | 75.56 | 1.11 | 1.47% | 1.505 | 0.66 | 62.97 | 2.16 | 1.58 | 104 | 0.184 | 0.92 | 0.657 | 0.567 | | 0.33 | **0.45** | <= | 2.236 | 0.016 | 0.000 | 3.868 | 0.000 | 30.99 | 31.05 |
| 31.13 | 122.68 | 1.83 | 79.27 | 1.25 | 1.58% | 1.614 | 0.66 | 66.00 | 2.17 | 1.59 | 110 | 0.203 | 0.92 | 0.659 | 0.567 | | 0.36 | **0.49** | <= | 2.142 | 0.021 | 0.000 | 3.852 | 0.000 | 31.05 | 31.13 |
| 31.18 | 123.15 | 1.84 | 81.22 | 1.33 | 1.64% | 1.675 | 0.66 | 67.57 | 2.17 | 1.60 | 113 | 0.213 | 0.92 | 0.661 | 0.567 | | 0.38 | **0.52** | <= | 2.094 | 0.013 | 0.000 | 3.832 | 0.000 | 31.13 | 31.18 |
| 31.27 | 123.60 | 1.84 | 83.85 | 1.40 | 1.67% | 1.707 | 0.66 | 69.64 | 2.17 | 1.59 | 116 | 0.223 | 0.92 | 0.664 | 0.567 | | 0.39 | **0.54** | <= | 2.053 | 0.022 | 0.000 | 3.819 | 0.000 | 31.18 | 31.27 |
| 31.30 | 123.67 | 1.84 | 84.73 | 1.41 | 1.66% | 1.701 | 0.66 | 70.33 | 2.16 | 1.58 | 116 | 0.225 | 0.92 | 0.665 | 0.567 | | 0.40 | **0.55** | <= | 2.046 | 0.007 | 0.000 | 3.797 | 0.000 | 31.27 | 31.30 |
| 31.39 | 123.77 | 1.85 | 87.66 | 1.41 | 1.61% | 1.643 | 0.65 | 72.64 | 2.14 | 1.54 | 117 | 0.228 | 0.92 | 0.667 | 0.567 | | 0.40 | **0.55** | <= | 2.037 | 0.022 | 0.000 | 3.790 | 0.000 | 31.30 | 31.39 |
| 31.44 | 123.86 | 1.85 | 89.42 | 1.42 | 1.59% | 1.622 | 0.65 | 74.04 | 2.13 | 1.52 | 117 | 0.230 | 0.92 | 0.669 | 0.567 | | 0.41 | **0.56** | <= | 2.027 | 0.012 | 0.000 | 3.768 | 0.000 | 31.39 | 31.44 |
| 31.53 | 124.01 | 1.86 | 91.37 | 1.44 | 1.58% | 1.609 | 0.64 | 75.50 | 2.12 | 1.50 | 118 | 0.234 | 0.92 | 0.672 | 0.567 | | 0.41 | **0.57** | <= | 2.013 | 0.022 | 0.000 | 3.755 | 0.000 | 31.44 | 31.53 |
| 31.59 | 124.04 | 1.86 | 92.93 | 1.43 | 1.54% | 1.570 | 0.64 | 76.70 | 2.11 | 1.47 | 119 | 0.235 | 0.92 | 0.674 | 0.567 | | 0.41 | **0.57** | <= | 2.011 | 0.014 | 0.000 | 3.734 | 0.000 | 31.53 | 31.59 |
| 31.63 | 124.06 | 1.86 | 94.10 | 1.43 | 1.52% | 1.550 | 0.64 | 77.60 | 2.10 | 1.46 | 119 | 0.236 | 0.92 | 0.675 | 0.567 | | 0.42 | **0.57** | <= | 2.007 | 0.010 | 0.000 | 3.719 | 0.000 | 31.59 | 31.63 |
| 31.69 | 124.14 | 1.87 | 95.28 | 1.44 | 1.51% | 1.542 | 0.64 | 78.47 | 2.10 | 1.45 | 119 | 0.238 | 0.92 | 0.677 | 0.567 | | 0.42 | **0.58** | <= | 1.999 | 0.014 | 0.000 | 3.710 | 0.000 | 31.63 | 31.69 |
| 31.77 | 124.24 | 1.87 | 96.15 | 1.46 | 1.52% | 1.549 | 0.64 | 79.03 | 2.10 | 1.45 | 120 | 0.242 | 0.92 | 0.679 | 0.567 | | 0.43 | **0.59** | <= | 1.988 | 0.019 | 0.000 | 3.695 | 0.000 | 31.69 | 31.77 |
| 31.84 | 124.25 | 1.88 | 96.25 | 1.46 | 1.52% | 1.547 | 0.64 | 78.96 | 2.10 | 1.45 | 120 | 0.241 | 0.92 | 0.681 | 0.567 | | 0.43 | **0.59** | <= | 1.989 | 0.017 | 0.000 | 3.676 | 0.000 | 31.77 | 31.84 |
| 31.90 | 124.13 | 1.88 | 96.25 | 1.43 | 1.49% | 1.515 | 0.63 | 78.84 | 2.09 | 1.44 | 119 | 0.238 | 0.92 | 0.683 | 0.567 | | 0.42 | **0.58** | <= | 2.002 | 0.014 | 0.000 | 3.659 | 0.000 | 31.84 | 31.90 |
| 31.99 | 123.71 | 1.89 | 96.15 | 1.35 | 1.40% | 1.432 | 0.63 | 78.57 | 2.07 | 1.41 | 117 | 0.228 | 0.91 | 0.686 | 0.566 | | 0.40 | **0.55** | <= | 2.036 | 0.022 | 0.000 | 3.645 | 0.000 | 31.90 | 31.99 |
| 32.03 | 123.55 | 1.89 | 95.57 | 1.33 | 1.39% | 1.420 | 0.63 | 78.01 | 2.07 | 1.41 | 116 | 0.225 | 0.91 | 0.687 | 0.566 | | 0.40 | **0.55** | <= | 2.048 | 0.010 | 0.000 | 3.623 | 0.000 | 31.99 | 32.03 |
| 32.12 | 123.10 | 1.89 | 91.66 | 1.27 | 1.39% | 1.415 | 0.63 | 74.58 | 2.09 | 1.43 | 113 | 0.213 | 0.91 | 0.690 | 0.566 | | 0.38 | **0.52** | <= | 2.095 | 0.023 | 0.000 | 3.613 | 0.000 | 32.03 | 32.12 |
| 32.17 | 123.10 | 1.90 | 89.81 | 1.27 | 1.41% | 1.445 | 0.64 | 72.94 | 2.10 | 1.46 | 112 | 0.211 | 0.91 | 0.692 | 0.566 | | 0.37 | **0.51** | <= | 2.105 | 0.013 | 0.000 | 3.591 | 0.000 | 32.12 | 32.17 |
| 32.25 | 123.12 | 1.90 | 86.29 | 1.30 | 1.51% | 1.541 | 0.65 | 69.88 | 2.13 | 1.52 | 112 | 0.210 | 0.91 | 0.694 | 0.566 | | 0.37 | **0.51** | <= | 2.108 | 0.020 | 0.000 | 3.578 | 0.000 | 32.17 | 32.25 |
| 32.29 | 123.12 | 1.90 | 84.73 | 1.30 | 1.53% | 1.570 | 0.65 | 68.52 | 2.15 | 1.54 | 111 | 0.208 | 0.91 | 0.695 | 0.566 | | 0.37 | **0.51** | <= | 2.115 | 0.010 | 0.000 | 3.558 | 0.000 | 32.25 | 32.29 |
| 32.35 | 124.00 | 1.91 | 78.49 | 1.51 | 1.92% | 1.972 | 0.68 | 63.25 | 2.24 | 1.77 | 117 | 0.230 | 0.91 | 0.697 | 0.566 | | 0.41 | **0.56** | <= | 2.029 | 0.015 | 0.000 | 3.547 | 0.000 | 32.29 | 32.35 |
| 32.42 | 124.32 | 1.91 | 73.02 | 1.61 | 2.20% | 2.264 | 0.70 | 58.63 | 2.30 | 1.96 | 120 | 0.243 | 0.91 | 0.700 | 0.566 | | 0.43 | **0.59** | <= | 1.985 | 0.017 | 0.000 | 3.533 | 0.000 | 32.35 | 32.42 |
| 32.49 | 124.29 | 1.92 | 63.84 | 1.68 | 2.63% | 2.713 | 0.73 | 50.96 | 2.40 | 2.33 | 124 | 0.256 | 0.91 | 0.702 | 0.566 | | 0.45 | **0.62** | <= | 1.943 | 0.016 | 0.000 | 3.516 | 0.000 | 32.42 | 32.49 |
| 32.55 | 124.42 | 1.92 | 58.86 | 1.76 | 2.99% | 3.091 | 0.75 | 46.79 | 2.47 | 2.62 | 128 | 0.273 | 0.91 | 0.704 | 0.566 | | 0.48 | **0.66** | <= | 1.894 | 0.014 | 0.000 | 3.500 | 0.000 | 32.49 | 32.55 |
| 32.64 | 124.56 | 1.93 | 56.81 | 1.81 | 3.19% | 3.298 | 0.76 | 45.00 | 2.50 | 2.78 | 130 | 0.284 | 0.91 | 0.706 | 0.566 | | 0.50 | **0.69** | <= | 1.867 | 0.020 | 0.000 | 3.486 | 0.000 | 32.55 | 32.64 |
| 32.70 | 124.40 | 1.93 | 54.57 | 1.80 | 3.30% | 3.419 | 0.77 | 43.09 | 2.53 | 2.91 | 130 | 0.285 | 0.91 | 0.708 | 0.566 | | 0.50 | **0.69** | <= | 1.865 | 0.013 | 0.000 | 3.466 | 0.000 | 32.64 | 32.70 |
| 32.74 | 124.32 | 1.93 | 55.15 | 1.77 | 3.21% | 3.326 | 0.76 | 43.52 | 2.52 | 2.85 | 129 | 0.279 | 0.91 | 0.709 | 0.566 | | 0.49 | **0.68** | <= | 1.881 | 0.009 | 0.000 | 3.453 | 0.000 | 32.70 | 32.74 |
| 32.84 | 123.85 | 1.94 | 55.55 | 1.66 | 2.99% | 3.096 | 0.76 | 43.73 | 2.49 | 2.73 | 124 | 0.258 | 0.91 | 0.713 | 0.566 | | 0.46 | **0.63** | <= | 1.937 | 0.023 | 0.000 | 3.444 | 0.000 | 32.74 | 32.84 |
| 32.88 | 123.64 | 1.94 | 54.86 | 1.62 | 2.95% | 3.061 | 0.76 | 43.13 | 2.49 | 2.73 | 123 | 0.252 | 0.91 | 0.714 | 0.566 | | 0.45 | **0.61** | <= | 1.956 | 0.009 | 0.000 | 3.420 | 0.000 | 32.84 | 32.88 |
| 32.97 | 123.18 | 1.95 | 53.10 | 1.54 | 2.90% | 3.011 | 0.76 | 41.59 | 2.50 | 2.76 | 120 | 0.240 | 0.91 | 0.717 | 0.565 | | 0.42 | **0.58** | <= | 1.994 | 0.022 | 0.000 | 3.411 | 0.000 | 32.88 | 32.97 |
| 33.01 | 123.01 | 1.95 | 53.69 | 1.49 | 2.78% | 2.880 | 0.75 | 42.03 | 2.48 | 2.68 | 118 | 0.231 | 0.91 | 0.718 | 0.565 | | 0.41 | **0.56** | <= | 2.025 | 0.010 | 0.000 | 3.389 | 0.000 | 32.97 | 33.01 |
| 33.10 | 123.04 | 1.95 | 60.52 | 1.44 | 2.38% | 2.459 | 0.73 | 47.47 | 2.40 | 2.29 | 114 | 0.218 | 0.91 | 0.721 | 0.565 | | 0.39 | **0.53** | <= | 2.073 | 0.022 | 0.000 | 3.380 | 0.000 | 33.01 | 33.10 |
| 33.15 | 123.15 | 1.96 | 66.77 | 1.42 | 2.13% | 2.191 | 0.71 | 52.47 | 2.33 | 2.04 | 113 | 0.213 | 0.91 | 0.722 | 0.565 | | 0.38 | **0.52** | <= | 2.093 | 0.013 | 0.000 | 3.357 | 0.000 | 33.10 | 33.15 |
| 33.23 | 123.06 | 1.96 | 76.04 | 1.34 | 1.76% | 1.809 | 0.68 | 59.85 | 2.23 | 1.74 | 110 | 0.204 | 0.90 | 0.725 | 0.565 | | 0.36 | **0.50** | <= | 2.134 | 0.020 | 0.000 | 3.345 | 0.000 | 33.15 | 33.23 |
| 33.28 | 122.93 | 1.97 | 79.56 | 1.30 | 1.63% | 1.675 | 0.67 | 62.62 | 2.19 | 1.65 | 109 | 0.201 | 0.90 | 0.726 | 0.565 | | 0.36 | **0.49** | <= | 2.148 | 0.013 | 0.000 | 3.324 | 0.000 | 33.23 | 33.28 |
| 33.37 | 122.28 | 1.97 | 85.12 | 1.16 | 1.36% | 1.395 | 0.64 | 66.95 | 2.12 | 1.48 | 106 | 0.190 | 0.90 | 0.729 | 0.565 | | 0.34 | **0.46** | <= | 2.203 | 0.024 | 0.000 | 3.311 | 0.000 | 33.28 | 33.37 |
| 33.42 | 121.94 | 1.97 | 86.88 | 1.10 | 1.27% | 1.296 | 0.63 | 68.28 | 2.09 | 1.43 | 104 | 0.186 | 0.90 | 0.731 | 0.565 | | 0.33 | **0.45** | <= | 2.227 | 0.013 | 0.000 | 3.288 | 0.000 | 33.37 | 33.42 |
| 33.49 | 119.08 | 1.98 | 86.69 | 0.74 | 0.85% | 0.874 | 0.60 | 68.02 | 1.98 | 1.28 | 93 | 0.156 | 0.90 | 0.733 | 0.565 | | 0.28 | **0.38** | <= | 2.439 | 0.020 | 0.000 | 3.274 | 0.000 | 33.42 | 33.49 |
| 33.55 | 117.94 | 1.98 | 86.00 | 0.64 | 0.74% | 0.762 | 0.59 | 67.37 | 1.95 | 1.24 | 90 | 0.148 | 0.90 | 0.735 | 0.565 | | 0.26 | **0.36** | <= | 2.512 | 0.018 | 0.000 | 3.254 | 0.000 | 33.49 | 33.55 |
| 33.61 | 118.65 | 1.99 | 84.73 | 0.71 | 0.84% | 0.858 | 0.60 | 66.26 | 1.99 | 1.28 | 91 | 0.151 | 0.90 | 0.737 | 0.565 | | 0.27 | **0.37** | <= | 2.481 | 0.018 | 0.000 | 3.236 | 0.000 | 33.55 | 33.61 |
| 33.68 | 119.66 | 1.99 | 83.07 | 0.82 | 0.99% | 1.011 | 0.62 | 64.83 | 2.04 | 1.35 | 94 | 0.157 | 0.90 | 0.739 | 0.565 | | 0.28 | **0.38** | <= | 2.425 | 0.020 | 0.000 | 3.218 | 0.000 | 33.61 | 33.68 |
| 33.73 | 120.44 | 1.99 | 81.51 | 0.92 | 1.13% | 1.157 | 0.63 | 63.50 | 2.08 | 1.42 | 97 | 0.164 | 0.90 | 0.740 | 0.565 | | 0.29 | **0.40** | <= | 2.372 | 0.014 | 0.000 | 3.197 | 0.000 | 33.68 | 33.73 |
| 33.80 | 121.26 | 2.00 | 75.17 | 1.05 | 1.40% | 1.435 | 0.66 | 58.34 | 2.17 | 1.59 | 99 | 0.171 | 0.90 | 0.743 | 0.565 | | 0.30 | **0.42** | <= | 2.322 | 0.020 | 0.000 | 3.183 | 0.000 | 33.73 | 33.80 |
| 33.86 | 122.03 | 2.00 | 76.14 | 1.16 | 1.52% | 1.565 | 0.66 | 59.03 | 2.19 | 1.64 | 103 | 0.182 | 0.90 | 0.744 | 0.564 | | 0.32 | **0.44** | <= | 2.248 | 0.016 | 0.000 | 3.164 | 0.000 | 33.80 | 33.86 |
| 33.93 | 123.04 | 2.00 | 76.04 | 1.34 | 1.76% | 1.810 | 0.68 | 58.84 | 2.23 | 1.75 | 110 | 0.202 | 0.90 | 0.747 | 0.564 | | 0.36 | **0.49** | <= | 2.144 | 0.018 | 0.000 | 3.148 | 0.000 | 33.86 | 33.93 |
| 34.01 | 123.95 | 2.01 | 79.17 | 1.49 | 1.88% | 1.931 | 0.68 | 61.21 | 2.24 | 1.77 | 115 | 0.221 | 0.90 | 0.749 | 0.564 | | 0.39 | **0.54** | <= | 2.061 | 0.020 | 0.000 | 3.130 | 0.000 | 33.93 | 34.01 |
| 34.07 | 124.49 | 2.01 | 87.76 | 1.55 | 1.77% | 1.808 | 0.66 | 67.92 | 2.18 | 1.63 | 118 | 0.234 | 0.90 | 0.751 | 0.564 | | 0.41 | **0.57** | <= | 2.016 | 0.015 | 0.000 | 3.110 | 0.000 | 34.01 | 34.07 |
| 34.14 | 124.71 | 2.02 | 97.52 | 1.55 | 1.59% | 1.623 | 0.64 | 75.51 | 2.12 | 1.49 | 120 | 0.243 | 0.90 | 0.753 | 0.564 | | 0.43 | **0.59** | <= | 1.985 | 0.017 | 0.000 | 3.095 | 0.000 | 34.07 | 34.14 |
| 34.19 | 124.79 | 2.02 | 103.57 | 1.53 | 1.48% | 1.507 | 0.63 | 80.20 | 2.08 | 1.41 | 122 | 0.248 | 0.90 | 0.755 | 0.564 | | 0.44 | **0.61** | <= | 1.967 | 0.012 | 0.000 | 3.079 | 0.000 | 34.14 | 34.19 |
| 34.26 | 124.84 | 2.03 | 110.41 | 1.51 | 1.37% | 1.393 | 0.62 | 85.45 | 2.03 | 1.34 | 124 | 0.257 | 0.90 | 0.757 | 0.564 | | 0.46 | **0.63** | <= | 1.941 | 0.016 | 0.000 | 3.067 | 0.000 | 34.19 | 34.26 |
| 34.32 | 124.73 | 2.03 | 114.21 | 1.47 | 1.29% | 1.310 | 0.61 | 88.31 | 2.00 | 1.30 | 124 | 0.259 | 0.90 | 0.759 | 0.564 | | 0.46 | **0.63** | <= | 1.934 | 0.014 | 0.000 | 3.050 | 0.000 | 34.26 | 34.32 |
| 34.40 | 124.39 | 2.03 | 119.97 | 1.38 | 1.15% | 1.170 | 0.59 | 92.66 | 1.95 | 1.24 | 125 | 0.262 | 0.90 | 0.761 | 0.564 | | 0.46 | **0.64** | <= | 1.927 | 0.018 | 0.000 | 3.037 | 0.000 | 34.32 | 34.40 |
| 34.45 | 124.23 | 2.04 | 123.49 | 1.34 | 1.09% | 1.103 | 0.59 | 95.31 | 1.93 | 1.21 | 126 | 0.266 | 0.89 | 0.763 | 0.564 | | 0.47 | **0.65** | <= | 1.916 | 0.011 | 0.000 | 3.018 | 0.000 | 34.40 | 34.45 |
| 34.52 | 124.12 | 2.04 | 126.61 | 1.31 | 1.03% | 1.052 | 0.58 | 97.59 | 1.90 | 1.19 | 127 | 0.270 | 0.89 | 0.765 | 0.563 | | 0.48 | **0.66** | <= | 1.904 | 0.016 | 0.000 | 3.007 | 0.000 | 34.45 | 34.52 |
| 34.59 | 124.23 | 2.05 | 128.76 | 1.32 | 1.03% | 1.042 | 0.58 | 99.10 | 1.90 | 1.18 | 128 | 0.276 | 0.89 | 0.767 | 0.563 | | 0.49 | **0.67** | <= | 1.888 | 0.016 | 0.000 | 2.991 | 0.000 | 34.52 | 34.59 |
| 34.65 | 124.38 | 2.05 | 128.17 | 1.35 | 1.05% | 1.070 | 0.58 | 98.49 | 1.91 | 1.19 | 128 | 0.277 | 0.89 | 0.769 | 0.563 | | 0.49 | **0.68** | <= | 1.886 | 0.014 | 0.000 | 2.975 | 0.000 | 34.59 | 34.65 |
| 34.73 | 124.43 | 2.05 | 124.17 | 1.37 | 1.10% | 1.122 | 0.59 | 95.18 | 1.93 | 1.22 | 127 | 0.268 | 0.89 | 0.772 | 0.563 | | 0.48 | **0.66** | <= | 1.908 | 0.018 | 0.000 | 2.961 | 0.000 | 34.65 | 34.73 |
| 34.81 | 124.38 | 2.06 | 116.75 | 1.39 | 1.19% | 1.212 | 0.60 | 89.22 | 1.97 | 1.27 | 123 | 0.254 | 0.89 | 0.774 | 0.563 | | 0.45 | **0.62** | <= | 1.951 | 0.019 | 0.000 | 2.943 | 0.000 | 34.73 | 34.81 |
| 34.86 | 124.28 | 2.06 | 109.53 | 1.40 | 1.28% | 1.303 | 0.61 | 83.50 | 2.02 | 1.32 | 120 | 0.241 | 0.89 | 0.776 | 0.563 | | 0.43 | **0.59** | <= | 1.991 | 0.012 | 0.000 | 2.924 | 0.000 | 34.81 | 34.86 |
| 34.91 | 124.20 | 2.07 | 99.86 | 1.43 | 1.43% | 1.462 | 0.63 | 75.89 | 2.08 | 1.42 | 117 | 0.229 | 0.89 | 0.777 | 0.563 | | 0.41 | **0.56** | <= | 2.033 | 0.012 | 0.000 | 2.912 | 0.000 | 34.86 | 34.91 |
| 34.99 | 124.17 | 2.07 | 85.51 | 1.50 | 1.75% | 1.798 | 0.67 | 64.63 | 2.20 | 1.66 | 115 | 0.222 | 0.89 | 0.780 | 0.563 | | 0.40 | **0.54** | <= | 2.057 | 0.020 | 0.000 | 2.900 | 0.000 | 34.91 | 34.99 |
| 35.05 | 124.09 | 2.07 | 75.26 | 1.55 | 2.06% | 2.118 | 0.69 | 56.61 | 2.29 | 1.91 | 116 | 0.224 | 0.89 | 0.782 | 0.563 | | 0.40 | **0.55** | <= | 2.049 | 0.015 | 0.000 | 2.880 | 0.000 | 34.99 | 35.05 |
| 35.11 | 123.99 | 2.08 | 65.99 | 1.60 | 2.42% | 2.503 | 0.72 | 49.36 | 2.38 | 2.25 | 118 | 0.232 | 0.89 | 0.783 | 0.562 | | 0.41 | **0.57** | <= | 2.020 | 0.015 | 0.000 | 2.865 | 0.000 | 35.05 | 35.11 |
| 35.18 | 123.62 | 2.08 | 53.59 | 1.63 | 3.04% | 3.165 | 0.77 | 39.72 | 2.53 | 2.90 | 121 | 0.246 | 0.89 | 0.786 | 0.562 | | 0.44 | **0.60** | <= | 1.975 | 0.017 | 0.000 | 2.851 | 0.000 | 35.11 | 35.18 |
| 35.24 | 123.21 | 2.09 | 48.32 | 1.59 | 3.29% | 3.439 | 0.78 | 35.60 | 2.59 | 3.24 | 121 | 0.245 | 0.89 | 0.787 | 0.562 | | 0.44 | **0.60** | <= | 1.977 | 0.014 | 0.000 | 2.834 | 0.000 | 35.18 | 35.24 |
| 35.31 | 122.55 | 2.09 | 42.66 | 1.52 | 3.56% | 3.747 | 0.80 | 31.19 | 2.65 | 3.68 | 121 | 0.246 | 0.89 | 0.790 | 0.562 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |
| 35.37 | 121.81 | 2.09 | 40.02 | 1.40 | 3.50% | 3.691 | 0.81 | 29.12 | 2.67 | 3.80 | 125 | 0.264 | 0.89 | 0.792 | 0.562 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-3

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft) 1 | MAGNITUDE: 6.62 | MAGNITUDE SCALING FACTOR: 1.38

GROUNDWATER LEVEL: 10 feet | ACCELERATION: 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35.44 | 120.93 | 2.10 | 37.19 | 1.27 | 3.41% | 3.619 | 0.82 | 26.90 | 2.69 | 3.95 | 130 | 0.285 | 0.89 | 0.794 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |
| 35.53 | 119.18 | 2.10 | 31.92 | 1.05 | 3.29% | 3.522 | 0.83 | 22.81 | 2.74 | 4.30 | 142 | 0.346 | 0.89 | 0.797 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |
| 35.58 | 118.21 | 2.11 | 30.07 | 0.94 | 3.13% | 3.362 | 0.83 | 21.37 | 2.75 | 4.37 | 144 | 0.359 | 0.89 | 0.798 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |
| 35.66 | 117.18 | 2.11 | 25.77 | 0.86 | 3.34% | 3.635 | 0.86 | 18.05 | 2.83 | 5.04 | 166 | 0.508 | 0.89 | 0.801 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |
| 35.71 | 116.78 | 2.11 | 22.65 | 0.85 | 3.75% | 4.139 | 0.88 | 15.65 | 2.92 | 5.85 | 193 | 0.748 | 0.88 | 0.802 | 0.562 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |
| 35.77 | 116.68 | 2.12 | 19.91 | 0.88 | 4.42% | 4.946 | 0.91 | 13.54 | 3.02 | 6.91 | 228 | 1.184 | 0.88 | 0.804 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |
| 35.84 | 116.30 | 2.12 | 16.99 | 0.88 | 5.18% | 5.919 | 0.95 | 11.30 | 3.13 | 8.28 | 273 | 1.978 | 0.88 | 0.806 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |
| 35.93 | 116.15 | 2.13 | 15.91 | 0.88 | 5.53% | 6.385 | 0.96 | 10.46 | 3.18 | 8.92 | 294 | 2.451 | 0.88 | 0.809 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |
| 35.97 | 116.24 | 2.13 | 17.38 | 0.86 | 4.95% | 5.639 | 0.94 | 11.56 | 3.11 | 8.01 | 264 | 1.795 | 0.88 | 0.810 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |
| 36.06 | 117.12 | 2.13 | 28.70 | 0.82 | 2.86% | 3.087 | 0.83 | 20.10 | 2.75 | 4.35 | 143 | 0.354 | 0.88 | 0.813 | 0.561 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.820 | 0.000 | | |
| 36.10 | 117.69 | 2.14 | 40.80 | 0.79 | 1.94% | 2.043 | 0.76 | 29.23 | 2.50 | 2.78 | 92 | 0.152 | 0.88 | 0.814 | 0.561 | | 0.27 | 0.37 | <= | 2.475 | 0.012 | 0.000 | 2.820 | 0.000 | 36.06 | 36.10 |
| 36.16 | 116.73 | 2.14 | 54.47 | 0.63 | 1.16% | 1.204 | 0.68 | 39.51 | 2.25 | 1.81 | 77 | 0.123 | 0.88 | 0.816 | 0.561 | | 0.22 | 0.30 | <= | 2.845 | 0.020 | 0.000 | 2.808 | 0.000 | 36.10 | 36.16 |
| 36.24 | 114.80 | 2.15 | 70.19 | 0.45 | 0.64% | 0.661 | 0.61 | 51.30 | 2.01 | 1.31 | 74 | 0.118 | 0.88 | 0.819 | 0.561 | | 0.21 | 0.29 | <= | 2.941 | 0.028 | 0.000 | 2.788 | 0.000 | 36.16 | 36.24 |
| 36.29 | 115.87 | 2.15 | 77.70 | 0.50 | 0.64% | 0.662 | 0.60 | 56.90 | 1.97 | 1.26 | 79 | 0.126 | 0.88 | 0.820 | 0.561 | | 0.23 | 0.31 | <= | 2.783 | 0.017 | 0.000 | 2.759 | 0.000 | 36.24 | 36.29 |
| 36.36 | 116.91 | 2.15 | 83.56 | 0.56 | 0.67% | 0.688 | 0.59 | 61.22 | 1.95 | 1.24 | 84 | 0.135 | 0.88 | 0.822 | 0.561 | | 0.24 | 0.33 | <= | 2.656 | 0.022 | 0.000 | 2.743 | 0.000 | 36.29 | 36.36 |
| 36.45 | 117.86 | 2.16 | 90.59 | 0.62 | 0.68% | 0.701 | 0.59 | 66.38 | 1.93 | 1.21 | 89 | 0.146 | 0.88 | 0.825 | 0.561 | | 0.26 | 0.36 | <= | 2.528 | 0.027 | 0.000 | 2.720 | 0.000 | 36.36 | 36.45 |
| 36.49 | 117.88 | 2.16 | 89.81 | 0.62 | 0.69% | 0.707 | 0.59 | 65.74 | 1.93 | 1.22 | 89 | 0.145 | 0.88 | 0.826 | 0.561 | | 0.26 | 0.36 | <= | 2.538 | 0.012 | 0.000 | 2.693 | 0.000 | 36.45 | 36.49 |
| 36.55 | 117.97 | 2.16 | 92.05 | 0.63 | 0.68% | 0.701 | 0.58 | 67.33 | 1.92 | 1.21 | 90 | 0.148 | 0.88 | 0.828 | 0.560 | | 0.26 | 0.36 | <= | 2.506 | 0.018 | 0.000 | 2.681 | 0.000 | 36.49 | 36.55 |
| 36.64 | 120.75 | 2.17 | 89.03 | 0.93 | 1.04% | 1.071 | 0.62 | 64.94 | 2.04 | 1.36 | 97 | 0.165 | 0.88 | 0.831 | 0.560 | | 0.30 | 0.41 | <= | 2.361 | 0.025 | 0.000 | 2.663 | 0.000 | 36.55 | 36.64 |
| 36.69 | 121.71 | 2.17 | 83.66 | 1.08 | 1.29% | 1.325 | 0.65 | 60.85 | 2.12 | 1.50 | 100 | 0.173 | 0.88 | 0.833 | 0.560 | | 0.31 | 0.42 | <= | 2.308 | 0.014 | 0.000 | 2.637 | 0.000 | 36.64 | 36.69 |
| 36.77 | 122.75 | 2.18 | 69.80 | 1.32 | 1.89% | 1.952 | 0.70 | 50.41 | 2.30 | 1.95 | 106 | 0.191 | 0.88 | 0.835 | 0.560 | | 0.34 | 0.47 | <= | 2.200 | 0.021 | 0.000 | 2.624 | 0.000 | 36.69 | 36.77 |
| 36.81 | 123.02 | 2.18 | 64.23 | 1.41 | 2.20% | 2.272 | 0.72 | 46.21 | 2.37 | 2.21 | 110 | 0.202 | 0.88 | 0.836 | 0.560 | | 0.36 | 0.50 | <= | 2.143 | 0.010 | 0.000 | 2.602 | 0.000 | 36.77 | 36.81 |
| 36.91 | 122.97 | 2.19 | 49.49 | 1.53 | 3.09% | 3.234 | 0.78 | 35.15 | 2.57 | 3.14 | 117 | 0.229 | 0.88 | 0.840 | 0.560 | | 0.41 | 0.56 | <= | 2.033 | 0.024 | 0.000 | 2.592 | 0.000 | 36.81 | 36.91 |
| 36.95 | 122.43 | 2.19 | 43.15 | 1.49 | 3.45% | 3.637 | 0.80 | 30.41 | 2.65 | 3.66 | 121 | 0.244 | 0.87 | 0.841 | 0.560 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.568 | 0.000 | | |
| 37.04 | 121.40 | 2.19 | 37.68 | 1.35 | 3.58% | 3.804 | 0.82 | 26.29 | 2.71 | 4.09 | 135 | 0.309 | 0.87 | 0.844 | 0.559 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.568 | 0.000 | | |
| 37.09 | 120.88 | 2.20 | 37.10 | 1.26 | 3.40% | 3.610 | 0.82 | 25.83 | 2.70 | 4.02 | 133 | 0.298 | 0.87 | 0.845 | 0.559 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.568 | 0.000 | | |
| 37.16 | 120.60 | 2.20 | 40.90 | 1.18 | 2.89% | 3.049 | 0.79 | 28.60 | 2.62 | 3.45 | 114 | 0.217 | 0.87 | 0.847 | 0.559 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.568 | 0.000 | | |
| 37.22 | 120.88 | 2.20 | 50.66 | 1.14 | 2.25% | 2.353 | 0.75 | 35.77 | 2.47 | 2.62 | 100 | 0.173 | 0.87 | 0.849 | 0.559 | | 0.31 | 0.43 | <= | 2.306 | 0.017 | 0.000 | 2.568 | 0.000 | 37.16 | 37.22 |
| 37.28 | 121.00 | 2.21 | 57.79 | 1.11 | 1.92% | 1.997 | 0.72 | 40.97 | 2.38 | 2.22 | 98 | 0.167 | 0.87 | 0.851 | 0.559 | | 0.30 | 0.41 | <= | 2.349 | 0.017 | 0.000 | 2.551 | 0.000 | 37.22 | 37.28 |
| 37.36 | 120.81 | 2.21 | 64.53 | 1.04 | 1.61% | 1.669 | 0.69 | 45.86 | 2.29 | 1.90 | 95 | 0.159 | 0.87 | 0.854 | 0.559 | | 0.28 | 0.39 | <= | 2.409 | 0.023 | 0.000 | 2.534 | 0.000 | 37.28 | 37.36 |
| 37.41 | 120.71 | 2.22 | 64.82 | 1.02 | 1.57% | 1.629 | 0.69 | 46.02 | 2.28 | 1.88 | 94 | 0.157 | 0.87 | 0.855 | 0.559 | | 0.28 | 0.39 | <= | 2.426 | 0.015 | 0.000 | 2.511 | 0.000 | 37.36 | 37.41 |
| 37.49 | 121.28 | 2.22 | 64.33 | 1.11 | 1.73% | 1.787 | 0.70 | 45.58 | 2.31 | 1.97 | 97 | 0.166 | 0.87 | 0.858 | 0.559 | | 0.30 | 0.41 | <= | 2.356 | 0.023 | 0.000 | 2.497 | 0.000 | 37.41 | 37.49 |
| 37.53 | 121.65 | 2.22 | 61.70 | 1.19 | 1.93% | 2.001 | 0.71 | 43.61 | 2.35 | 2.14 | 101 | 0.175 | 0.87 | 0.859 | 0.559 | | 0.31 | 0.43 | <= | 2.295 | 0.011 | 0.000 | 2.474 | 0.000 | 37.49 | 37.53 |
| 37.62 | 122.00 | 2.23 | 53.30 | 1.31 | 2.46% | 2.565 | 0.75 | 37.37 | 2.48 | 2.66 | 106 | 0.192 | 0.87 | 0.862 | 0.558 | | 0.34 | 0.47 | <= | 2.193 | 0.024 | 0.000 | 2.463 | 0.000 | 37.53 | 37.62 |
| 37.67 | 121.98 | 2.23 | 46.37 | 1.36 | 2.93% | 3.081 | 0.78 | 32.26 | 2.58 | 3.22 | 110 | 0.204 | 0.87 | 0.863 | 0.558 | | 0.37 | 0.50 | <= | 2.133 | 0.013 | 0.000 | 2.439 | 0.000 | 37.62 | 37.67 |
| 37.74 | 121.53 | 2.24 | 41.29 | 1.33 | 3.22% | 3.406 | 0.80 | 28.50 | 2.65 | 3.66 | 121 | 0.245 | 0.87 | 0.865 | 0.558 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 37.80 | 121.03 | 2.24 | 38.56 | 1.27 | 3.29% | 3.497 | 0.81 | 26.47 | 2.69 | 3.89 | 128 | 0.277 | 0.87 | 0.867 | 0.558 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 37.87 | 120.45 | 2.24 | 35.73 | 1.21 | 3.39% | 3.613 | 0.82 | 24.37 | 2.72 | 4.16 | 137 | 0.321 | 0.87 | 0.870 | 0.558 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 37.93 | 119.96 | 2.25 | 33.87 | 1.15 | 3.40% | 3.637 | 0.83 | 22.99 | 2.74 | 4.33 | 143 | 0.351 | 0.87 | 0.871 | 0.558 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.02 | 115.95 | 2.25 | 30.07 | 0.69 | 2.29% | 2.480 | 0.81 | 20.19 | 2.68 | 3.87 | 128 | 0.274 | 0.87 | 0.874 | 0.558 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.07 | 114.81 | 2.26 | 26.94 | 0.61 | 2.26% | 2.471 | 0.83 | 17.90 | 2.72 | 4.18 | 138 | 0.324 | 0.87 | 0.876 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.14 | 114.53 | 2.26 | 22.65 | 0.63 | 2.78% | 3.090 | 0.86 | 14.76 | 2.85 | 5.25 | 173 | 0.565 | 0.87 | 0.878 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.19 | 114.09 | 2.26 | 19.91 | 0.61 | 3.06% | 3.456 | 0.89 | 12.77 | 2.94 | 6.05 | 200 | 0.821 | 0.86 | 0.880 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.29 | 113.43 | 2.27 | 17.18 | 0.59 | 3.43% | 3.956 | 0.92 | 10.77 | 3.03 | 7.11 | 235 | 1.283 | 0.86 | 0.883 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.32 | 112.90 | 2.27 | 14.25 | 0.58 | 4.07% | 4.841 | 0.96 | 8.65 | 3.17 | 8.77 | 290 | 2.338 | 0.86 | 0.884 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.39 | 112.95 | 2.27 | 15.52 | 0.57 | 3.67% | 4.303 | 0.94 | 9.55 | 3.10 | 7.90 | 261 | 1.730 | 0.86 | 0.886 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.48 | 112.26 | 2.28 | 13.86 | 0.54 | 3.90% | 4.663 | 0.96 | 8.33 | 3.17 | 8.82 | 291 | 2.370 | 0.86 | 0.889 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.52 | 111.97 | 2.28 | 13.86 | 0.52 | 3.75% | 4.491 | 0.96 | 8.33 | 3.16 | 8.69 | 287 | 2.270 | 0.86 | 0.890 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.61 | 111.06 | 2.29 | 13.86 | 0.46 | 3.32% | 3.974 | 0.95 | 8.31 | 3.13 | 8.27 | 273 | 1.972 | 0.86 | 0.893 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.66 | 110.46 | 2.29 | 13.72 | 0.42 | 3.06% | 3.674 | 0.94 | 8.20 | 3.11 | 8.07 | 266 | 1.839 | 0.86 | 0.894 | 0.557 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.75 | 110.08 | 2.29 | 13.91 | 0.40 | 2.88% | 3.443 | 0.93 | 8.32 | 3.09 | 7.80 | 257 | 1.665 | 0.86 | 0.897 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.79 | 110.06 | 2.30 | 13.57 | 0.40 | 2.95% | 3.548 | 0.94 | 8.07 | 3.11 | 8.04 | 265 | 1.814 | 0.86 | 0.898 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.88 | 110.77 | 2.30 | 13.96 | 0.44 | 3.15% | 3.774 | 0.94 | 8.33 | 3.11 | 8.09 | 267 | 1.848 | 0.86 | 0.901 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 38.92 | 111.20 | 2.30 | 14.94 | 0.46 | 3.08% | 3.640 | 0.93 | 9.02 | 3.07 | 7.61 | 251 | 1.551 | 0.86 | 0.902 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.02 | 113.08 | 2.31 | 16.20 | 0.57 | 3.52% | 4.103 | 0.93 | 9.90 | 3.07 | 7.58 | 250 | 1.536 | 0.86 | 0.905 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.06 | 113.78 | 2.31 | 16.79 | 0.62 | 3.69% | 4.282 | 0.93 | 10.31 | 3.07 | 7.54 | 249 | 1.515 | 0.86 | 0.907 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.13 | 115.59 | 2.31 | 18.25 | 0.78 | 4.27% | 4.895 | 0.93 | 11.33 | 3.07 | 7.58 | 250 | 1.537 | 0.86 | 0.909 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.19 | 117.67 | 2.32 | 19.91 | 1.00 | 5.02% | 5.684 | 0.93 | 12.50 | 3.08 | 7.68 | 254 | 1.596 | 0.86 | 0.911 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.28 | 119.76 | 2.32 | 22.94 | 1.27 | 5.54% | 6.160 | 0.92 | 14.62 | 3.05 | 7.32 | 242 | 1.392 | 0.86 | 0.914 | 0.556 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.31 | 120.72 | 2.33 | 25.67 | 1.40 | 5.45% | 5.997 | 0.91 | 16.54 | 3.00 | 6.75 | 223 | 1.110 | 0.86 | 0.914 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.37 | 122.82 | 2.33 | 33.19 | 1.71 | 5.15% | 5.541 | 0.87 | 21.84 | 2.89 | 5.55 | 183 | 0.653 | 0.86 | 0.916 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.45 | 124.42 | 2.33 | 39.15 | 2.01 | 5.13% | 5.460 | 0.86 | 26.01 | 2.82 | 4.99 | 165 | 0.495 | 0.85 | 0.919 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.51 | 125.11 | 2.34 | 42.17 | 2.16 | 5.12% | 5.423 | 0.85 | 28.11 | 2.80 | 4.76 | 157 | 0.440 | 0.85 | 0.921 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.59 | 125.26 | 2.34 | 41.68 | 2.21 | 5.30% | 5.618 | 0.85 | 27.71 | 2.81 | 4.89 | 161 | 0.471 | 0.85 | 0.923 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.64 | 124.89 | 2.35 | 40.61 | 2.12 | 5.22% | 5.540 | 0.85 | 26.92 | 2.82 | 4.93 | 163 | 0.481 | 0.85 | 0.925 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.70 | 123.75 | 2.35 | 37.29 | 1.87 | 5.01% | 5.352 | 0.86 | 24.55 | 2.84 | 5.10 | 168 | 0.523 | 0.85 | 0.927 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.77 | 120.72 | 2.35 | 32.12 | 1.30 | 4.05% | 4.367 | 0.86 | 20.89 | 2.83 | 5.03 | 166 | 0.505 | 0.85 | 0.929 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.85 | 114.92 | 2.36 | 27.63 | 0.62 | 2.24% | 2.453 | 0.83 | 17.71 | 2.72 | 4.18 | 138 | 0.323 | 0.85 | 0.931 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 39.92 | 116.44 | 2.36 | 24.11 | 0.80 | 3.32% | 3.679 | 0.87 | 15.22 | 2.89 | 5.59 | 184 | 0.663 | 0.85 | 0.934 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 40.00 | 116.70 | 2.37 | 23.04 | 0.84 | 3.65% | 4.063 | 0.89 | 14.44 | 2.93 | 6.04 | 199 | 0.818 | 0.85 | 0.936 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 40.03 | 116.53 | 2.37 | 24.89 | 0.80 | 3.21% | 3.552 | 0.87 | 15.73 | 2.87 | 5.38 | 178 | 0.601 | 0.85 | 0.937 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 40.10 | 117.14 | 2.37 | 29.97 | 0.81 | 2.70% | 2.935 | 0.83 | 19.24 | 2.74 | 4.32 | 142 | 0.349 | 0.85 | 0.939 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.426 | 0.000 | | |
| 40.17 | 118.49 | 2.38 | 39.24 | 0.89 | 2.27% | 2.414 | 0.78 | 25.67 | 2.59 | 3.25 | 107 | 0.194 | 0.85 | 0.941 | 0.553 | | 0.35 | 0.48 | <= | 2.182 | 0.018 | 0.000 | 2.426 | 0.000 | 40.10 | 40.17 |
| 40.22 | 118.78 | 2.38 | 36.70 | 0.95 | 2.59% | 2.768 | 0.80 | 23.88 | 2.65 | 3.65 | 120 | 0.242 | 0.85 | 0.943 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 40.31 | 118.55 | 2.39 | 29.77 | 0.99 | 3.33% | 3.615 | 0.85 | 19.02 | 2.81 | 4.83 | 159 | 0.456 | 0.85 | 0.946 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 40.38 | 117.86 | 2.39 | 24.21 | 0.96 | 3.97% | 4.400 | 0.89 | 15.13 | 2.94 | 6.10 | 201 | 0.840 | 0.85 | 0.948 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 40.42 | 117.03 | 2.39 | 21.28 | 0.90 | 4.23% | 4.765 | 0.91 | 13.09 | 3.01 | 6.89 | 228 | 1.175 | 0.85 | 0.949 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 40.49 | 116.09 | 2.40 | 18.94 | 0.82 | 4.33% | 4.957 | 0.93 | 11.45 | 3.07 | 7.57 | 250 | 1.532 | 0.85 | 0.951 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 40.58 | 114.55 | 2.40 | 15.23 | 0.71 | 4.66% | 5.534 | 0.97 | 8.86 | 3.19 | 9.14 | 302 | 2.634 | 0.85 | 0.954 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 40.62 | 113.92 | 2.40 | 14.35 | 0.67 | 4.67% | 5.608 | 0.97 | 8.25 | 3.22 | 9.55 | 315 | 2.994 | 0.84 | 0.955 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 40.71 | 114.06 | 2.41 | 15.28 | 0.67 | 4.38% | 5.205 | 0.96 | 8.87 | 3.18 | 8.91 | 294 | 2.441 | 0.84 | 0.958 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 40.76 | 114.13 | 2.41 | 13.96 | 0.69 | 4.94% | 5.975 | 0.98 | 7.95 | 3.25 | 9.99 | 330 | 3.415 | 0.84 | 0.960 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 40.84 | 115.30 | 2.42 | 15.33 | 0.79 | 5.15% | 6.117 | 0.97 | 8.88 | 3.22 | 9.52 | 314 | 2.967 | 0.84 | 0.962 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 40.89 | 116.32 | 2.42 | 16.79 | 0.88 | 5.24% | 6.123 | 0.96 | 9.87 | 3.18 | 9.01 | 297 | 2.524 | 0.84 | 0.964 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 40.95 | 117.78 | 2.42 | 19.13 | 1.03 | 5.38% | 6.165 | 0.95 | 11.47 | 3.13 | 8.34 | 275 | 2.021 | 0.84 | 0.966 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 41.02 | 119.24 | 2.43 | 23.04 | 1.18 | 5.12% | 5.724 | 0.92 | 14.13 | 3.04 | 7.19 | 237 | 1.325 | 0.84 | 0.968 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 41.11 | 120.52 | 2.43 | 27.92 | 1.32 | 4.73% | 5.179 | 0.89 | 17.44 | 2.94 | 6.09 | 201 | 0.833 | 0.84 | 0.971 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 41.16 | 121.04 | 2.44 | 31.04 | 1.37 | 4.41% | 4.789 | 0.87 | 19.55 | 2.88 | 5.47 | 181 | 0.628 | 0.84 | 0.972 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 41.22 | 121.65 | 2.44 | 36.61 | 1.41 | 3.85% | 4.126 | 0.84 | 23.33 | 2.77 | 4.56 | 150 | 0.396 | 0.84 | 0.974 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 41.29 | 121.32 | 2.44 | 41.78 | 1.29 | 3.09% | 3.279 | 0.81 | 26.82 | 2.66 | 3.70 | 122 | 0.249 | 0.84 | 0.976 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.408 | 0.000 | | |
| 41.38 | 119.92 | 2.45 | 48.61 | 1.01 | 2.08% | 2.188 | 0.75 | 31.41 | 2.49 | 2.70 | 92 | 0.153 | 0.84 | 0.979 | 0.551 | | 0.28 | 0.38 | <= | 2.460 | 0.027 | 0.000 | 2.408 | 0.000 | 41.29 | 41.38 |
| 41.43 | 118.88 | 2.45 | 52.13 | 0.86 | 1.65% | 1.731 | 0.73 | 33.77 | 2.40 | 2.29 | 85 | 0.137 | 0.84 | 0.981 | 0.550 | | 0.25 | 0.34 | <= | 2.626 | 0.016 | 0.000 | 2.382 | 0.000 | 41.38 | 41.43 |
| 41.49 | 118.76 | 2.46 | 55.35 | 0.83 | 1.50% | 1.569 | 0.71 | 35.92 | 2.35 | 2.11 | 84 | 0.134 | 0.84 | 0.982 | 0.550 | | 0.24 | 0.34 | <= | 2.664 | 0.019 | 0.000 | 2.366 | 0.000 | 41.43 | 41.49 |
| 41.57 | 117.94 | 2.46 | 52.52 | 0.75 | 1.43% | 1.498 | 0.71 | 33.94 | 2.35 | 2.13 | 80 | 0.128 | 0.84 | 0.985 | 0.550 | | 0.23 | 0.32 | <= | 2.760 | 0.026 | 0.000 | 2.347 | 0.000 | 41.49 | 41.57 |
| 41.60 | 117.37 | 2.46 | 49.59 | 0.71 | 1.43% | 1.507 | 0.72 | 31.94 | 2.38 | 2.22 | 78 | 0.125 | 0.84 | 0.986 | 0.550 | | 0.23 | 0.31 | <= | 2.810 | 0.010 | 0.000 | 2.320 | 0.000 | 41.57 | 41.60 |
| 41.69 | 118.69 | 2.47 | 42.07 | 0.90 | 2.14% | 2.273 | 0.77 | 26.79 | 2.55 | 3.05 | 101 | 0.175 | 0.84 | 0.989 | 0.550 | | 0.32 | 0.44 | <= | 2.296 | 0.025 | 0.000 | 2.310 | 0.000 | 41.60 | 41.69 |
| 41.77 | 118.24 | 2.47 | 35.05 | 0.90 | 2.57% | 2.763 | 0.81 | 22.01 | 2.68 | 3.83 | 126 | 0.267 | 0.84 | 0.991 | 0.550 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 41.83 | 116.88 | 2.48 | 28.80 | 0.80 | 2.78% | 3.039 | 0.84 | 17.76 | 2.78 | 4.61 | 152 | 0.407 | 0.84 | 0.993 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 41.87 | 115.55 | 2.48 | 21.28 | 0.73 | 3.43% | 3.882 | 0.90 | 12.68 | 2.97 | 6.38 | 211 | 0.948 | 0.83 | 0.994 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 41.95 | 115.14 | 2.48 | 20.11 | 0.71 | 3.53% | 4.028 | 0.91 | 11.87 | 3.00 | 6.75 | 223 | 1.107 | 0.83 | 0.997 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.00 | 114.68 | 2.48 | 16.89 | 0.70 | 4.14% | 4.859 | 0.95 | 9.69 | 3.12 | 8.24 | 272 | 1.947 | 0.83 | 0.998 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.09 | 113.87 | 2.49 | 14.74 | 0.66 | 4.48% | 5.388 | 0.97 | 8.23 | 3.21 | 9.41 | 310 | 2.862 | 0.83 | 1.001 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.13 | 113.53 | 2.49 | 14.94 | 0.63 | 4.22% | 5.061 | 0.96 | 8.36 | 3.19 | 9.09 | 300 | 2.591 | 0.83 | 1.002 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.22 | 113.20 | 2.50 | 15.52 | 0.59 | 3.80% | 4.531 | 0.95 | 8.73 | 3.14 | 8.48 | 280 | 2.115 | 0.83 | 1.005 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.26 | 113.24 | 2.50 | 15.62 | 0.59 | 3.78% | 4.497 | 0.95 | 8.79 | 3.14 | 8.42 | 278 | 2.073 | 0.83 | 1.007 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.33 | 113.71 | 2.50 | 16.11 | 0.62 | 3.85% | 4.557 | 0.95 | 9.10 | 3.13 | 8.30 | 274 | 1.989 | 0.83 | 1.009 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.39 | 114.15 | 2.51 | 16.60 | 0.66 | 3.98% | 4.683 | 0.95 | 9.42 | 3.12 | 8.24 | 272 | 1.947 | 0.83 | 1.011 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.49 | 115.31 | 2.51 | 18.06 | 0.75 | 4.15% | 4.824 | 0.94 | 10.37 | 3.10 | 7.90 | 261 | 1.728 | 0.83 | 1.014 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.53 | 115.74 | 2.52 | 18.84 | 0.78 | 4.14% | 4.778 | 0.93 | 10.88 | 3.08 | 7.66 | 253 | 1.580 | 0.83 | 1.015 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.60 | 116.30 | 2.52 | 19.62 | 0.83 | 4.23% | 4.854 | 0.93 | 11.38 | 3.07 | 7.51 | 248 | 1.498 | 0.83 | 1.017 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.65 | 116.63 | 2.52 | 20.30 | 0.86 | 4.24% | 4.837 | 0.92 | 11.82 | 3.05 | 7.34 | 242 | 1.404 | 0.83 | 1.019 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.74 | 117.04 | 2.53 | 21.18 | 0.90 | 4.25% | 4.825 | 0.92 | 12.39 | 3.04 | 7.14 | 236 | 1.298 | 0.83 | 1.021 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.80 | 117.79 | 2.53 | 22.06 | 0.98 | 4.44% | 5.018 | 0.92 | 12.95 | 3.03 | 7.09 | 234 | 1.271 | 0.83 | 1.023 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.85 | 118.35 | 2.53 | 22.26 | 1.06 | 4.76% | 5.374 | 0.92 | 13.07 | 3.05 | 7.28 | 240 | 1.371 | 0.83 | 1.025 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.93 | 119.47 | 2.54 | 22.26 | 1.23 | 5.53% | 6.237 | 0.94 | 13.05 | 3.09 | 7.81 | 258 | 1.674 | 0.83 | 1.027 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 42.98 | 120.04 | 2.54 | 22.45 | 1.33 | 5.92% | 6.681 | 0.94 | 13.16 | 3.11 | 8.03 | 265 | 1.811 | 0.83 | 1.029 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 43.07 | 120.55 | 2.55 | 24.70 | 1.38 | 5.59% | 6.229 | 0.92 | 14.62 | 3.05 | 7.34 | 242 | 1.402 | 0.83 | 1.032 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 43.11 | 121.08 | 2.55 | 29.19 | 1.40 | 4.80% | 5.255 | 0.89 | 17.57 | 2.94 | 6.09 | 201 | 0.835 | 0.82 | 1.033 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 43.19 | 122.57 | 2.55 | 45.20 | 1.49 | 3.30% | 3.494 | 0.81 | 28.08 | 2.66 | 3.70 | 122 | 0.250 | 0.82 | 1.036 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.285 | 0.000 | | |
| 43.25 | 123.65 | 2.56 | 64.04 | 1.54 | 2.40% | 2.505 | 0.74 | 40.43 | 2.44 | 2.46 | 110 | 0.204 | 0.82 | 1.037 | 0.546 | | 0.37 | 0.51 | <= | 2.135 | 0.015 | 0.000 | 2.285 | 0.000 | 43.19 | 43.25 |
| 43.34 | 124.57 | 2.56 | 97.03 | 1.52 | 1.57% | 1.609 | 0.66 | 62.01 | 2.16 | 1.57 | 111 | 0.208 | 0.82 | 1.040 | 0.545 | | 0.38 | 0.52 | <= | 2.118 | 0.023 | 0.000 | 2.270 | 0.000 | 43.25 | 43.34 |
| 43.38 | 124.87 | 2.57 | 115.48 | 1.49 | 1.29% | 1.320 | 0.62 | 74.05 | 2.04 | 1.36 | 116 | 0.225 | 0.82 | 1.041 | 0.545 | | 0.41 | 0.57 | <= | 2.045 | 0.010 | 0.000 | 2.247 | 0.000 | 43.34 | 43.38 |
| 43.47 | 124.74 | 2.57 | 137.25 | 1.38 | 1.01% | 1.025 | 0.58 | 88.17 | 1.91 | 1.19 | 124 | 0.256 | 0.82 | 1.044 | 0.545 | | 0.47 | 0.65 | <= | 1.943 | 0.021 | 0.000 | 2.237 | 0.000 | 43.38 | 43.47 |
| 43.52 | 124.65 | 2.57 | 150.04 | 1.33 | 0.89% | 0.902 | 0.56 | 96.44 | 1.84 | 1.13 | 130 | 0.283 | 0.82 | 1.046 | 0.545 | | 0.52 | 0.71 | <= | 1.435 | 0.009 | 0.000 | 2.216 | 0.000 | 43.47 | 43.52 |
| 43.61 | 124.82 | 2.58 | 166.24 | 1.31 | 0.79% | 0.800 | 0.54 | 106.83 | 1.77 | 1.08 | 138 | 0.326 | 0.82 | 1.049 | 0.545 | | 0.60 | 0.82 | <= | 1.031 | 0.011 | 0.000 | 2.208 | 0.000 | 43.52 | 43.61 |
| 43.64 | 124.93 | 2.58 | 171.13 | 1.32 | 0.77% | 0.783 | 0.53 | 109.96 | 1.75 | 1.07 | 141 | 0.342 | 0.82 | 1.050 | 0.544 | | 0.63 | 0.86 | <= | 1.121 | 0.004 | 0.000 | 2.196 | 0.000 | 43.61 | 43.64 |
| 43.74 | 125.14 | 2.59 | 182.84 | 1.33 | 0.73% | 0.738 | 0.52 | 117.35 | 1.71 | 1.04 | 148 | 0.380 | 0.82 | 1.053 | 0.544 | | 0.70 | 0.96 | <= | 0.767 | 0.009 | 0.000 | 2.192 | 0.000 | 43.64 | 43.74 |
| 43.79 | 125.11 | 2.59 | 188.79 | 1.31 | 0.69% | 0.704 | 0.51 | 121.10 | 1.69 | 1.03 | 151 | 0.397 | 0.82 | 1.054 | 0.544 | | 0.73 | 1.00 | <= | 0.431 | 0.003 | 0.000 | 2.183 | 0.000 | 43.74 | 43.79 |
| 43.87 | 125.36 | 2.60 | 195.04 | 1.34 | 0.69% | 0.696 | 0.51 | 124.96 | 1.67 | 1.02 | 154 | 0.421 | 0.82 | 1.057 | 0.544 | | 0.77 | 1.07 | <= | 0.530 | 0.005 | 0.000 | 2.181 | 0.000 | 43.79 | 43.87 |
| 43.92 | 125.26 | 2.60 | 197.48 | 1.32 | 0.67% | 0.677 | 0.51 | 126.41 | 1.66 | 1.01 | 155 | 0.427 | 0.82 | 1.058 | 0.544 | | 0.78 | 1.08 | <= | 0.551 | 0.003 | 0.000 | 2.175 | 0.000 | 43.87 | 43.92 |
| 43.98 | 125.22 | 2.60 | 198.65 | 1.31 | 0.66% | 0.668 | 0.50 | 127.01 | 1.65 | 1.01 | 155 | 0.429 | 0.82 | 1.060 | 0.543 | | 0.79 | 1.09 | <= | 0.560 | 0.004 | 0.000 | 2.172 | 0.000 | 43.92 | 43.98 |
| 44.05 | 125.57 | 2.61 | 198.75 | 1.37 | 0.69% | 0.698 | 0.51 | 126.89 | 1.67 | 1.01 | 156 | 0.436 | 0.82 | 1.062 | 0.543 | | 0.80 | 1.11 | <= | 0.299 | 0.003 | 0.000 | 2.168 | 0.000 | 43.98 | 44.05 |
| 44.10 | 125.65 | 2.61 | 197.58 | 1.39 | 0.70% | 0.713 | 0.51 | 126.00 | 1.67 | 1.02 | 156 | 0.434 | 0.82 | 1.064 | 0.543 | | 0.80 | 1.10 | <= | 0.293 | 0.002 | 0.000 | 2.166 | 0.000 | 44.05 | 44.10 |
| 44.19 | 125.38 | 2.62 | 187.14 | 1.36 | 0.73% | 0.737 | 0.52 | 119.03 | 1.70 | 1.04 | 150 | 0.394 | 0.82 | 1.067 | 0.543 | | 0.73 | 1.00 | <= | 0.844 | 0.009 | 0.000 | 2.164 | 0.000 | 44.10 | 44.19 |
| 44.23 | 125.29 | 2.62 | 184.99 | 1.35 | 0.73% | 0.740 | 0.52 | 117.55 | 1.71 | 1.04 | 149 | 0.385 | 0.82 | 1.068 | 0.543 | | 0.71 | 0.98 | <= | 0.802 | 0.004 | 0.000 | 2.155 | 0.000 | 44.19 | 44.23 |
| 44.31 | 125.06 | 2.62 | 178.45 | 1.33 | 0.75% | 0.756 | 0.53 | 113.15 | 1.73 | 1.06 | 145 | 0.361 | 0.82 | 1.070 | 0.542 | | 0.67 | 0.92 | <= | 0.670 | 0.006 | 0.000 | 2.151 | 0.000 | 44.23 | 44.31 |
| 44.37 | 124.87 | 2.63 | 168.78 | 1.32 | 0.78% | 0.794 | 0.54 | 106.79 | 1.76 | 1.08 | 139 | 0.330 | 0.81 | 1.072 | 0.542 | | 0.61 | 0.84 | <= | 1.063 | 0.008 | 0.000 | 2.144 | 0.000 | 44.31 | 44.37 |
| 44.45 | 124.93 | 2.63 | 156.97 | 1.36 | 0.87% | 0.881 | 0.55 | 99.04 | 1.82 | 1.12 | 133 | 0.298 | 0.81 | 1.075 | 0.542 | | 0.55 | 0.76 | <= | 1.509 | 0.014 | 0.000 | 2.137 | 0.000 | 44.37 | 44.45 |
| 44.50 | 124.98 | 2.64 | 147.21 | 1.40 | 0.95% | 0.968 | 0.57 | 92.68 | 1.87 | 1.16 | 128 | 0.276 | 0.81 | 1.076 | 0.542 | | 0.51 | 0.70 | <= | 1.419 | 0.009 | 0.000 | 2.122 | 0.000 | 44.45 | 44.50 |
| 44.56 | 124.98 | 2.64 | 129.05 | 1.46 | 1.13% | 1.155 | 0.60 | 80.94 | 1.97 | 1.26 | 120 | 0.241 | 0.81 | 1.078 | 0.541 | | 0.44 | 0.61 | <= | 1.992 | 0.014 | 0.000 | 2.114 | 0.000 | 44.50 | 44.56 |
| 44.63 | 125.02 | 2.64 | 107.09 | 1.56 | 1.46% | 1.494 | 0.64 | 66.78 | 2.11 | 1.47 | 114 | 0.217 | 0.81 | 1.080 | 0.541 | | 0.40 | 0.55 | <= | 2.080 | 0.017 | 0.000 | 2.099 | 0.000 | 44.56 | 44.63 |
| 44.70 | 124.99 | 2.65 | 83.66 | 1.69 | 2.02% | 2.086 | 0.70 | 51.73 | 2.30 | 1.93 | 113 | 0.215 | 0.81 | 1.083 | 0.541 | | 0.40 | 0.55 | <= | 2.087 | 0.018 | 0.000 | 2.082 | 0.000 | 44.63 | 44.70 |
| 44.76 | 124.88 | 2.65 | 68.92 | 1.78 | 2.58% | 2.686 | 0.74 | 42.26 | 2.44 | 2.48 | 117 | 0.228 | 0.81 | 1.085 | 0.541 | | 0.42 | 0.58 | <= | 2.037 | 0.015 | 0.000 | 2.064 | 0.000 | 44.70 | 44.76 |
| 44.82 | 123.99 | 2.66 | 49.98 | 1.75 | 3.50% | 3.698 | 0.80 | 30.15 | 2.65 | 3.65 | 120 | 0.242 | 0.81 | 1.086 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 44.88 | 123.29 | 2.66 | 41.20 | 1.70 | 4.13% | 4.411 | 0.84 | 24.52 | 2.77 | 4.55 | 150 | 0.396 | 0.81 | 1.088 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 44.98 | 121.90 | 2.67 | 32.41 | 1.52 | 4.69% | 5.110 | 0.88 | 18.89 | 2.90 | 5.74 | 190 | 0.713 | 0.81 | 1.091 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.03 | 121.06 | 2.67 | 29.58 | 1.40 | 4.73% | 5.202 | 0.89 | 17.07 | 2.94 | 6.14 | 203 | 0.855 | 0.81 | 1.093 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.10 | 119.56 | 2.67 | 23.62 | 1.23 | 5.21% | 5.872 | 0.93 | 13.27 | 3.07 | 7.51 | 248 | 1.498 | 0.81 | 1.095 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.15 | 118.71 | 2.68 | 21.38 | 1.13 | 5.29% | 6.042 | 0.94 | 11.84 | 3.11 | 8.11 | 267 | 1.860 | 0.81 | 1.097 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.21 | 117.43 | 2.68 | 19.23 | 0.98 | 5.10% | 5.921 | 0.95 | 10.47 | 3.15 | 8.59 | 283 | 2.198 | 0.81 | 1.099 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.30 | 114.61 | 2.68 | 18.25 | 0.68 | 3.73% | 4.369 | 0.93 | 9.83 | 3.09 | 7.79 | 257 | 1.657 | 0.81 | 1.101 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.35 | 113.17 | 2.69 | 18.06 | 0.56 | 3.10% | 3.643 | 0.92 | 9.70 | 3.04 | 7.25 | 239 | 1.355 | 0.81 | 1.103 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.43 | 111.94 | 2.69 | 17.67 | 0.48 | 2.72% | 3.205 | 0.91 | 9.44 | 3.02 | 6.98 | 230 | 1.216 | 0.81 | 1.105 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.48 | 111.52 | 2.69 | 17.57 | 0.45 | 2.56% | 3.025 | 0.91 | 9.37 | 3.01 | 6.84 | 226 | 1.151 | 0.81 | 1.107 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.57 | 111.31 | 2.70 | 17.57 | 0.44 | 2.50% | 2.959 | 0.91 | 9.35 | 3.00 | 6.79 | 224 | 1.124 | 0.80 | 1.110 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.61 | 111.23 | 2.70 | 17.57 | 0.43 | 2.45% | 2.892 | 0.91 | 9.34 | 3.00 | 6.72 | 222 | 1.096 | 0.80 | 1.111 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.70 | 107.74 | 2.71 | 17.77 | 0.27 | 1.52% | 1.792 | 0.87 | 9.45 | 2.88 | 5.47 | 181 | 0.628 | 0.80 | 1.114 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.75 | 107.02 | 2.71 | 18.16 | 0.24 | 1.32% | 1.553 | 0.86 | 9.69 | 2.83 | 5.08 | 168 | 0.518 | 0.80 | 1.115 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.82 | 107.99 | 2.71 | 18.55 | 0.27 | 1.46% | 1.705 | 0.86 | 9.92 | 2.85 | 5.19 | 171 | 0.546 | 0.80 | 1.118 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.88 | 109.54 | 2.72 | 18.94 | 0.33 | 1.74% | 2.034 | 0.87 | 10.16 | 2.88 | 5.49 | 181 | 0.634 | 0.80 | 1.119 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 45.97 | 111.86 | 2.72 | 20.01 | 0.45 | 2.25% | 2.603 | 0.88 | 10.81 | 2.92 | 5.86 | 193 | 0.752 | 0.80 | 1.122 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.00 | 112.19 | 2.72 | 20.11 | 0.47 | 2.34% | 2.703 | 0.89 | 10.86 | 2.92 | 5.94 | 196 | 0.779 | 0.80 | 1.123 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.07 | 112.54 | 2.73 | 20.89 | 0.49 | 2.35% | 2.698 | 0.88 | 11.34 | 2.91 | 5.77 | 190 | 0.722 | 0.80 | 1.125 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.16 | 112.96 | 2.73 | 20.21 | 0.52 | 2.57% | 2.975 | 0.89 | 10.89 | 2.95 | 6.18 | 204 | 0.869 | 0.80 | 1.128 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.21 | 113.38 | 2.74 | 19.91 | 0.55 | 2.76% | 3.202 | 0.90 | 10.70 | 2.97 | 6.46 | 213 | 0.979 | 0.80 | 1.130 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.28 | 113.99 | 2.74 | 19.62 | 0.60 | 3.06% | 3.554 | 0.91 | 10.50 | 3.01 | 6.84 | 226 | 1.148 | 0.80 | 1.132 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.34 | 114.49 | 2.74 | 19.43 | 0.65 | 3.35% | 3.895 | 0.92 | 10.37 | 3.04 | 7.17 | 237 | 1.312 | 0.80 | 1.134 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.40 | 114.85 | 2.75 | 19.62 | 0.68 | 3.47% | 4.030 | 0.92 | 10.48 | 3.04 | 7.24 | 239 | 1.346 | 0.80 | 1.136 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.48 | 115.15 | 2.75 | 19.72 | 0.71 | 3.60% | 4.184 | 0.92 | 10.52 | 3.05 | 7.34 | 242 | 1.400 | 0.80 | 1.138 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.53 | 115.34 | 2.75 | 19.62 | 0.73 | 3.72% | 4.328 | 0.93 | 10.45 | 3.06 | 7.48 | 247 | 1.478 | 0.80 | 1.140 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.61 | 115.68 | 2.76 | 19.43 | 0.76 | 3.91% | 4.559 | 0.93 | 10.32 | 3.08 | 7.71 | 254 | 1.611 | 0.80 | 1.142 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.66 | 115.87 | 2.76 | 19.91 | 0.78 | 3.92% | 4.548 | 0.93 | 10.60 | 3.07 | 7.58 | 250 | 1.536 | 0.80 | 1.144 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.74 | 116.11 | 2.77 | 20.99 | 0.79 | 3.76% | 4.335 | 0.92 | 11.25 | 3.04 | 7.17 | 236 | 1.310 | 0.80 | 1.146 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.80 | 116.21 | 2.77 | 23.04 | 0.77 | 3.34% | 3.799 | 0.90 | 12.50 | 2.96 | 6.33 | 209 | 0.930 | 0.79 | 1.148 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.88 | 116.45 | 2.77 | 24.31 | 0.79 | 3.25% | 3.668 | 0.89 | 13.27 | 2.93 | 6.01 | 198 | 0.806 | 0.79 | 1.151 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 46.92 | 116.61 | 2.78 | 23.82 | 0.81 | 3.40% | 3.849 | 0.89 | 12.95 | 2.95 | 6.24 | 206 | 0.891 | 0.79 | 1.152 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.01 | 117.19 | 2.78 | 23.33 | 0.88 | 3.77% | 4.283 | 0.91 | 12.63 | 2.99 | 6.66 | 220 | 1.066 | 0.79 | 1.155 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.05 | 117.59 | 2.78 | 22.94 | 0.94 | 4.10% | 4.664 | 0.91 | 12.38 | 3.02 | 7.01 | 231 | 1.230 | 0.79 | 1.156 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.13 | 118.34 | 2.79 | 23.23 | 1.03 | 4.43% | 5.039 | 0.92 | 12.54 | 3.04 | 7.21 | 238 | 1.333 | 0.79 | 1.158 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.19 | 118.79 | 2.79 | 23.14 | 1.10 | 4.75% | 5.406 | 0.93 | 12.47 | 3.06 | 7.47 | 247 | 1.476 | 0.79 | 1.160 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-3

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| **Analysis Scenario:** | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft) 1 | **MAGNITUDE:** 6.62 | **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet | **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47.28 | 119.77 | 2.80 | 24.89 | 1.23 | 4.94% | 5.568 | 0.92 | 13.52 | 3.04 | 7.24 | 239 | 1.349 | 0.79 | 1.163 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.32 | 120.21 | 2.80 | 25.87 | 1.29 | 4.99% | 5.592 | 0.92 | 14.10 | 3.03 | 7.08 | 234 | 1.269 | 0.79 | 1.164 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.38 | 120.87 | 2.80 | 28.80 | 1.36 | 4.72% | 5.232 | 0.90 | 15.88 | 2.97 | 6.41 | 212 | 0.960 | 0.79 | 1.166 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.46 | 121.53 | 2.81 | 30.85 | 1.46 | 4.73% | 5.207 | 0.89 | 17.10 | 2.94 | 6.13 | 202 | 0.848 | 0.79 | 1.169 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.55 | 116.98 | 2.81 | 32.12 | 0.77 | 2.40% | 2.627 | 0.83 | 17.84 | 2.73 | 4.23 | 140 | 0.333 | 0.79 | 1.172 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.59 | 117.49 | 2.82 | 32.12 | 0.83 | 2.58% | 2.832 | 0.83 | 17.83 | 2.75 | 4.39 | 145 | 0.363 | 0.79 | 1.173 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.66 | 119.07 | 2.82 | 32.12 | 1.03 | 3.21% | 3.515 | 0.85 | 17.81 | 2.81 | 4.90 | 162 | 0.473 | 0.79 | 1.175 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.73 | 119.36 | 2.82 | 33.19 | 1.06 | 3.19% | 3.491 | 0.85 | 18.43 | 2.80 | 4.78 | 158 | 0.444 | 0.79 | 1.177 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.81 | 118.84 | 2.83 | 35.63 | 0.96 | 2.69% | 2.927 | 0.82 | 19.88 | 2.72 | 4.16 | 137 | 0.320 | 0.79 | 1.180 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.84 | 118.78 | 2.83 | 35.68 | 0.96 | 2.69% | 2.922 | 0.82 | 19.90 | 2.72 | 4.15 | 137 | 0.319 | 0.79 | 1.181 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.91 | 118.87 | 2.84 | 38.95 | 0.94 | 2.41% | 2.603 | 0.80 | 21.86 | 2.65 | 3.68 | 121 | 0.246 | 0.79 | 1.183 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 47.99 | 118.65 | 2.84 | 35.73 | 0.94 | 2.63% | 2.858 | 0.82 | 19.88 | 2.71 | 4.11 | 136 | 0.311 | 0.79 | 1.185 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.04 | 118.32 | 2.84 | 31.24 | 0.94 | 3.01% | 3.310 | 0.85 | 17.15 | 2.81 | 4.86 | 161 | 0.465 | 0.78 | 1.187 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.12 | 118.16 | 2.85 | 26.55 | 0.97 | 3.65% | 4.092 | 0.89 | 14.29 | 2.93 | 6.04 | 199 | 0.817 | 0.78 | 1.189 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.16 | 118.11 | 2.85 | 24.11 | 1.00 | 4.15% | 4.704 | 0.91 | 12.81 | 3.01 | 6.89 | 227 | 1.173 | 0.78 | 1.191 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.24 | 117.58 | 2.85 | 20.70 | 0.97 | 4.69% | 5.436 | 0.94 | 10.74 | 3.12 | 8.14 | 269 | 1.883 | 0.78 | 1.193 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.30 | 117.07 | 2.86 | 19.23 | 0.93 | 4.84% | 5.681 | 0.96 | 9.84 | 3.16 | 8.71 | 287 | 2.288 | 0.78 | 1.195 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.37 | 116.30 | 2.86 | 18.25 | 0.85 | 4.66% | 5.524 | 0.96 | 9.24 | 3.18 | 8.91 | 294 | 2.442 | 0.78 | 1.197 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.43 | 115.64 | 2.87 | 17.77 | 0.78 | 4.39% | 5.233 | 0.96 | 8.94 | 3.17 | 8.86 | 292 | 2.406 | 0.78 | 1.199 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.50 | 115.18 | 2.87 | 17.08 | 0.75 | 4.39% | 5.278 | 0.97 | 8.52 | 3.19 | 9.14 | 301 | 2.628 | 0.78 | 1.201 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.56 | 114.61 | 2.87 | 16.99 | 0.69 | 4.06% | 4.888 | 0.96 | 8.45 | 3.17 | 8.88 | 293 | 2.422 | 0.78 | 1.203 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.63 | 114.05 | 2.88 | 16.60 | 0.64 | 3.86% | 4.664 | 0.96 | 8.21 | 3.17 | 8.85 | 292 | 2.400 | 0.78 | 1.205 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.71 | 113.96 | 2.88 | 16.30 | 0.64 | 3.93% | 4.770 | 0.96 | 8.02 | 3.19 | 9.06 | 299 | 2.562 | 0.78 | 1.208 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.75 | 113.97 | 2.88 | 16.30 | 0.64 | 3.93% | 4.770 | 0.96 | 8.01 | 3.19 | 9.06 | 299 | 2.566 | 0.78 | 1.209 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.84 | 114.01 | 2.89 | 16.50 | 0.64 | 3.88% | 4.702 | 0.96 | 8.11 | 3.18 | 8.94 | 295 | 2.469 | 0.78 | 1.212 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.90 | 114.19 | 2.89 | 16.89 | 0.65 | 3.85% | 4.644 | 0.96 | 8.34 | 3.16 | 8.76 | 289 | 2.327 | 0.78 | 1.214 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 48.97 | 114.58 | 2.90 | 16.89 | 0.69 | 4.09% | 4.931 | 0.96 | 8.33 | 3.18 | 8.99 | 297 | 2.508 | 0.78 | 1.216 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.03 | 114.66 | 2.90 | 17.28 | 0.69 | 3.99% | 4.798 | 0.96 | 8.55 | 3.16 | 8.76 | 289 | 2.325 | 0.78 | 1.218 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.11 | 114.70 | 2.90 | 17.28 | 0.69 | 3.99% | 4.800 | 0.96 | 8.53 | 3.16 | 8.77 | 289 | 2.331 | 0.78 | 1.220 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.15 | 114.79 | 2.91 | 17.28 | 0.70 | 4.05% | 4.870 | 0.96 | 8.53 | 3.17 | 8.82 | 291 | 2.376 | 0.78 | 1.221 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.24 | 115.18 | 2.91 | 17.28 | 0.74 | 4.28% | 5.150 | 0.96 | 8.51 | 3.19 | 9.04 | 298 | 2.551 | 0.78 | 1.224 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.29 | 114.87 | 2.92 | 17.47 | 0.71 | 4.06% | 4.878 | 0.96 | 8.62 | 3.17 | 8.78 | 290 | 2.340 | 0.77 | 1.226 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.35 | 114.47 | 2.92 | 17.47 | 0.67 | 3.84% | 4.604 | 0.95 | 8.61 | 3.15 | 8.57 | 283 | 2.185 | 0.77 | 1.228 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.42 | 114.52 | 2.92 | 17.47 | 0.67 | 3.84% | 4.606 | 0.95 | 8.59 | 3.15 | 8.58 | 283 | 2.190 | 0.77 | 1.230 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.50 | 112.86 | 2.93 | 17.47 | 0.54 | 3.09% | 3.713 | 0.94 | 8.58 | 3.09 | 7.84 | 259 | 1.691 | 0.77 | 1.232 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.57 | 113.48 | 2.93 | 17.77 | 0.58 | 3.26% | 3.909 | 0.94 | 8.75 | 3.10 | 7.92 | 261 | 1.742 | 0.77 | 1.235 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.61 | 114.56 | 2.93 | 18.25 | 0.67 | 3.67% | 4.374 | 0.94 | 9.02 | 3.12 | 8.16 | 269 | 1.898 | 0.77 | 1.236 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.68 | 115.54 | 2.94 | 15.81 | 0.80 | 5.06% | 6.215 | 0.99 | 7.58 | 3.28 | 10.41 | 343 | 3.846 | 0.77 | 1.238 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.74 | 116.92 | 2.94 | 20.11 | 0.89 | 4.43% | 5.184 | 0.95 | 10.09 | 3.13 | 8.25 | 272 | 1.954 | 0.77 | 1.240 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.83 | 115.29 | 2.95 | 23.14 | 0.68 | 2.94% | 3.367 | 0.89 | 11.86 | 2.95 | 6.17 | 204 | 0.866 | 0.77 | 1.243 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.87 | 116.81 | 2.95 | 23.92 | 0.83 | 3.47% | 3.958 | 0.90 | 12.30 | 2.98 | 6.50 | 214 | 0.998 | 0.77 | 1.244 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 49.96 | 119.04 | 2.95 | 25.58 | 1.10 | 4.30% | 4.862 | 0.91 | 13.26 | 3.01 | 6.85 | 226 | 1.155 | 0.77 | 1.247 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.03 | 119.95 | 2.96 | 26.55 | 1.23 | 4.63% | 5.214 | 0.91 | 13.80 | 3.02 | 6.92 | 228 | 1.187 | 0.77 | 1.249 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.09 | 120.42 | 2.96 | 27.24 | 1.30 | 4.77% | 5.355 | 0.91 | 14.19 | 3.01 | 6.90 | 228 | 1.177 | 0.77 | 1.251 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.15 | 120.38 | 2.97 | 29.09 | 1.27 | 4.37% | 4.861 | 0.90 | 15.26 | 2.96 | 6.31 | 208 | 0.919 | 0.77 | 1.253 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.23 | 120.04 | 2.97 | 30.26 | 1.20 | 3.97% | 4.397 | 0.88 | 15.91 | 2.92 | 5.85 | 193 | 0.750 | 0.77 | 1.255 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.28 | 120.01 | 2.97 | 30.16 | 1.20 | 3.98% | 4.414 | 0.88 | 15.84 | 2.92 | 5.88 | 194 | 0.760 | 0.77 | 1.257 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.33 | 120.06 | 2.98 | 29.38 | 1.21 | 4.12% | 4.583 | 0.89 | 15.37 | 2.94 | 6.10 | 201 | 0.838 | 0.77 | 1.258 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.41 | 120.00 | 2.98 | 28.11 | 1.22 | 4.34% | 4.855 | 0.90 | 14.61 | 2.97 | 6.47 | 213 | 0.983 | 0.77 | 1.261 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.46 | 120.41 | 2.98 | 26.26 | 1.32 | 5.03% | 5.671 | 0.92 | 13.52 | 3.05 | 7.29 | 240 | 1.373 | 0.77 | 1.262 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.53 | 121.11 | 2.99 | 26.94 | 1.44 | 5.35% | 6.012 | 0.92 | 13.90 | 3.06 | 7.38 | 244 | 1.423 | 0.76 | 1.265 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.60 | 121.83 | 2.99 | 31.63 | 1.50 | 4.74% | 5.238 | 0.89 | 16.60 | 2.95 | 6.23 | 206 | 0.889 | 0.76 | 1.267 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.68 | 123.19 | 3.00 | 45.30 | 1.61 | 3.55% | 3.806 | 0.82 | 24.48 | 2.72 | 4.16 | 137 | 0.321 | 0.76 | 1.269 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.050 | 0.000 | | |
| 50.73 | 124.19 | 3.00 | 59.55 | 1.69 | 2.84% | 2.989 | 0.77 | 32.70 | 2.55 | 3.04 | 111 | 0.209 | 0.76 | 1.271 | 0.521 | | 0.40 | 0.55 | <= | 2.114 | 0.013 | 0.000 | 2.050 | 0.000 | 50.68 | 50.73 |
| 50.80 | 125.27 | 3.00 | 72.63 | 1.84 | 2.53% | 2.643 | 0.74 | 40.21 | 2.44 | 2.49 | 114 | 0.220 | 0.76 | 1.273 | 0.521 | | 0.42 | 0.58 | <= | 2.068 | 0.017 | 0.000 | 2.037 | 0.000 | 50.73 | 50.80 |
| 50.86 | 126.17 | 3.01 | 85.12 | 1.97 | 2.31% | 2.399 | 0.72 | 47.36 | 2.36 | 2.15 | 118 | 0.231 | 0.76 | 1.275 | 0.521 | | 0.44 | 0.61 | <= | 2.024 | 0.015 | 0.000 | 2.020 | 0.000 | 50.80 | 50.86 |
| 50.93 | 126.96 | 3.01 | 95.86 | 2.11 | 2.20% | 2.273 | 0.70 | 53.49 | 2.30 | 1.95 | 122 | 0.247 | 0.76 | 1.277 | 0.521 | | 0.48 | 0.65 | <= | 1.969 | 0.017 | 0.000 | 2.005 | 0.000 | 50.86 | 50.93 |
| 50.99 | 127.43 | 3.02 | 102.30 | 2.21 | 2.16% | 2.226 | 0.69 | 57.13 | 2.27 | 1.86 | 125 | 0.260 | 0.76 | 1.279 | 0.520 | | 0.50 | 0.69 | <= | 1.931 | 0.014 | 0.000 | 1.989 | 0.000 | 50.93 | 50.99 |
| 51.08 | 127.84 | 3.02 | 112.07 | 2.26 | 2.02% | 2.072 | 0.67 | 62.64 | 2.22 | 1.71 | 127 | 0.270 | 0.76 | 1.282 | 0.520 | | 0.52 | 0.72 | <= | 1.903 | 0.021 | 0.000 | 1.975 | 0.000 | 50.99 | 51.08 |
| 51.13 | 128.02 | 3.03 | 115.19 | 2.30 | 2.00% | 2.051 | 0.67 | 64.37 | 2.21 | 1.68 | 128 | 0.277 | 0.76 | 1.283 | 0.520 | | 0.53 | 0.73 | <= | 1.886 | 0.011 | 0.000 | 1.954 | 0.000 | 51.08 | 51.13 |
| 51.19 | 127.24 | 3.03 | 118.80 | 2.05 | 1.73% | 1.771 | 0.65 | 66.37 | 2.15 | 1.55 | 123 | 0.254 | 0.76 | 1.285 | 0.519 | | 0.49 | 0.67 | <= | 1.949 | 0.014 | 0.000 | 1.943 | 0.000 | 51.13 | 51.19 |
| 51.26 | 127.45 | 3.03 | 122.32 | 2.08 | 1.70% | 1.744 | 0.65 | 68.30 | 2.14 | 1.52 | 125 | 0.260 | 0.76 | 1.287 | 0.519 | | 0.50 | 0.69 | <= | 1.930 | 0.016 | 0.000 | 1.929 | 0.000 | 51.19 | 51.26 |
| 51.33 | 127.79 | 3.04 | 126.12 | 2.16 | 1.71% | 1.755 | 0.65 | 70.38 | 2.13 | 1.51 | 127 | 0.272 | 0.76 | 1.289 | 0.519 | | 0.52 | 0.72 | <= | 1.532 | 0.013 | 0.000 | 1.913 | 0.000 | 51.26 | 51.33 |
| 51.38 | 127.80 | 3.04 | 128.47 | 2.15 | 1.67% | 1.714 | 0.64 | 71.65 | 2.11 | 1.48 | 128 | 0.274 | 0.76 | 1.291 | 0.519 | | 0.53 | 0.73 | <= | 1.549 | 0.009 | 0.000 | 1.900 | 0.000 | 51.33 | 51.38 |
| 51.47 | 128.51 | 3.05 | 132.37 | 2.35 | 1.78% | 1.817 | 0.64 | 73.75 | 2.12 | 1.50 | 133 | 0.298 | 0.76 | 1.294 | 0.518 | | 0.58 | 0.79 | <= | 1.793 | 0.019 | 0.000 | 1.890 | 0.000 | 51.38 | 51.47 |
| 51.52 | 128.74 | 3.05 | 134.23 | 2.41 | 1.80% | 1.837 | 0.64 | 74.74 | 2.12 | 1.49 | 135 | 0.307 | 0.76 | 1.295 | 0.518 | | 0.59 | 0.81 | <= | 1.041 | 0.006 | 0.000 | 1.871 | 0.000 | 51.47 | 51.52 |
| 51.58 | 128.79 | 3.05 | 127.59 | 2.47 | 1.94% | 1.983 | 0.66 | 70.87 | 2.16 | 1.58 | 134 | 0.304 | 0.76 | 1.297 | 0.518 | | 0.59 | 0.81 | <= | 1.028 | 0.007 | 0.000 | 1.865 | 0.000 | 51.52 | 51.58 |
| 51.64 | 129.04 | 3.06 | 128.76 | 2.54 | 1.97% | 2.021 | 0.66 | 71.46 | 2.17 | 1.59 | 136 | 0.313 | 0.76 | 1.299 | 0.518 | | 0.60 | 0.83 | <= | 1.084 | 0.008 | 0.000 | 1.857 | 0.000 | 51.58 | 51.64 |
| 51.71 | 129.49 | 3.06 | 142.52 | 2.62 | 1.84% | 1.879 | 0.64 | 79.17 | 2.11 | 1.47 | 141 | 0.340 | 0.76 | 1.301 | 0.517 | | 0.66 | 0.90 | <= | 0.651 | 0.005 | 0.000 | 1.850 | 0.000 | 51.64 | 51.71 |
| 51.78 | 129.96 | 3.07 | 145.74 | 2.77 | 1.90% | 1.942 | 0.64 | 80.89 | 2.11 | 1.48 | 145 | 0.361 | 0.75 | 1.304 | 0.517 | | 0.70 | 0.96 | <= | 0.788 | 0.007 | 0.000 | 1.844 | 0.000 | 51.71 | 51.78 |
| 51.84 | 130.29 | 3.07 | 148.19 | 2.88 | 1.94% | 1.985 | 0.64 | 82.18 | 2.11 | 1.48 | 147 | 0.377 | 0.75 | 1.305 | 0.517 | | 0.73 | 1.00 | <= | 0.434 | 0.003 | 0.000 | 1.838 | 0.000 | 51.78 | 51.84 |
| 51.94 | 130.59 | 3.08 | 151.50 | 2.98 | 1.97% | 2.008 | 0.64 | 83.89 | 2.11 | 1.48 | 150 | 0.393 | 0.75 | 1.309 | 0.516 | | 0.76 | 1.05 | <= | 0.510 | 0.006 | 0.000 | 1.834 | 0.000 | 51.84 | 51.94 |
| 51.98 | 130.53 | 3.08 | 152.29 | 2.95 | 1.94% | 1.977 | 0.64 | 84.27 | 2.11 | 1.46 | 150 | 0.391 | 0.75 | 1.310 | 0.516 | | 0.76 | 1.04 | <= | 0.501 | 0.002 | 0.000 | 1.828 | 0.000 | 51.94 | 51.98 |
| 52.06 | 129.69 | 3.09 | 152.58 | 2.63 | 1.72% | 1.759 | 0.63 | 84.30 | 2.07 | 1.40 | 144 | 0.356 | 0.75 | 1.312 | 0.516 | | 0.69 | 0.95 | <= | 0.767 | 0.007 | 0.000 | 1.826 | 0.000 | 51.98 | 52.06 |
| 52.10 | 129.42 | 3.09 | 151.70 | 2.54 | 1.67% | 1.709 | 0.63 | 83.74 | 2.06 | 1.39 | 142 | 0.345 | 0.75 | 1.314 | 0.515 | | 0.67 | 0.92 | <= | 0.697 | 0.003 | 0.000 | 1.819 | 0.000 | 52.06 | 52.10 |
| 52.20 | 128.82 | 3.09 | 148.77 | 2.36 | 1.59% | 1.620 | 0.62 | 81.93 | 2.05 | 1.37 | 137 | 0.321 | 0.75 | 1.317 | 0.515 | | 0.62 | 0.86 | <= | 1.149 | 0.014 | 0.000 | 1.815 | 0.000 | 52.10 | 52.20 |
| 52.24 | 128.82 | 3.10 | 145.74 | 2.37 | 1.63% | 1.661 | 0.63 | 80.16 | 2.06 | 1.39 | 137 | 0.317 | 0.75 | 1.318 | 0.515 | | 0.62 | 0.85 | <= | 1.121 | 0.005 | 0.000 | 1.801 | 0.000 | 52.20 | 52.24 |
| 52.32 | 128.53 | 3.10 | 133.35 | 2.35 | 1.76% | 1.804 | 0.64 | 73.09 | 2.12 | 1.49 | 132 | 0.295 | 0.75 | 1.320 | 0.514 | | 0.57 | 0.79 | <= | 1.790 | 0.017 | 0.000 | 1.796 | 0.000 | 52.24 | 52.32 |
| 52.38 | 128.28 | 3.11 | 124.95 | 2.32 | 1.86% | 1.904 | 0.66 | 68.30 | 2.16 | 1.57 | 130 | 0.282 | 0.75 | 1.322 | 0.514 | | 0.55 | 0.75 | <= | 1.656 | 0.012 | 0.000 | 1.779 | 0.000 | 52.32 | 52.38 |
| 52.45 | 128.60 | 3.11 | 114.60 | 2.49 | 2.17% | 2.233 | 0.68 | 62.41 | 2.24 | 1.77 | 131 | 0.291 | 0.75 | 1.324 | 0.514 | | 0.57 | 0.78 | <= | 1.850 | 0.016 | 0.000 | 1.767 | 0.000 | 52.38 | 52.45 |
| 52.51 | 128.95 | 3.11 | 102.79 | 2.71 | 2.64% | 2.719 | 0.71 | 55.74 | 2.34 | 2.09 | 136 | 0.314 | 0.75 | 1.326 | 0.514 | | 0.61 | 0.84 | <= | 1.318 | 0.009 | 0.000 | 1.751 | 0.000 | 52.45 | 52.51 |
| 52.56 | 129.03 | 3.12 | 95.67 | 2.81 | 2.94% | 3.036 | 0.73 | 51.71 | 2.40 | 2.31 | 139 | 0.328 | 0.75 | 1.328 | 0.513 | | 0.64 | 0.88 | <= | 1.601 | 0.010 | 0.000 | 1.742 | 0.000 | 52.51 | 52.56 |
| 52.64 | 129.14 | 3.12 | 87.37 | 2.94 | 3.36% | 3.490 | 0.75 | 47.00 | 2.48 | 2.65 | 143 | 0.350 | 0.75 | 1.330 | 0.513 | | 0.68 | 0.94 | <= | 1.063 | 0.010 | 0.000 | 1.732 | 0.000 | 52.56 | 52.64 |
| 52.71 | 129.22 | 3.13 | 77.51 | 3.09 | 3.99% | 4.154 | 0.78 | 41.44 | 2.57 | 3.17 | 148 | 0.381 | 0.75 | 1.333 | 0.513 | | 0.74 | 1.02 | <= | 0.470 | 0.004 | 0.000 | 1.722 | 0.000 | 52.64 | 52.71 |
| 52.78 | 129.69 | 3.13 | 86.98 | 3.17 | 3.64% | 3.781 | 0.76 | 46.65 | 2.50 | 2.79 | 149 | 0.385 | 0.75 | 1.335 | 0.512 | | 0.75 | 1.03 | <= | 0.487 | 0.004 | 0.000 | 1.718 | 0.000 | 52.71 | 52.78 |
| 52.83 | 129.38 | 3.14 | 74.19 | 3.20 | 4.31% | 4.504 | 0.79 | 39.50 | 2.61 | 3.42 | 151 | 0.402 | 0.75 | 1.336 | 0.512 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.714 | 0.000 | | |
| 52.89 | 129.87 | 3.14 | 86.59 | 3.25 | 3.75% | 3.895 | 0.76 | 46.33 | 2.52 | 2.85 | 151 | 0.397 | 0.75 | 1.338 | 0.512 | | 0.78 | 1.07 | <= | 0.544 | 0.004 | 0.000 | 1.714 | 0.000 | 52.83 | 52.89 |
| 52.96 | 130.28 | 3.14 | 101.82 | 3.26 | 3.20% | 3.304 | 0.73 | 54.72 | 2.41 | 2.35 | 149 | 0.389 | 0.75 | 1.340 | 0.512 | | 0.76 | 1.05 | <= | 0.507 | 0.004 | 0.000 | 1.710 | 0.000 | 52.89 | 52.96 |
| 53.03 | 130.61 | 3.15 | 123.59 | 3.20 | 2.59% | 2.657 | 0.69 | 66.70 | 2.27 | 1.87 | 148 | 0.381 | 0.74 | 1.343 | 0.511 | | 0.75 | 1.03 | <= | 0.475 | 0.004 | 0.000 | 1.706 | 0.000 | 52.96 | 53.03 |
| 53.09 | 130.76 | 3.15 | 142.33 | 3.11 | 2.19% | 2.235 | 0.66 | 76.99 | 2.17 | 1.60 | 149 | 0.386 | 0.74 | 1.344 | 0.511 | | 0.76 | 1.04 | <= | 0.499 | 0.004 | 0.000 | 1.702 | 0.000 | 53.03 | 53.09 |
| 53.19 | 130.22 | 3.16 | 153.75 | 2.82 | 1.83% | 1.873 | 0.63 | 83.14 | 2.09 | 1.44 | 146 | 0.371 | 0.74 | 1.348 | 0.511 | | 0.73 | 1.00 | <= | 0.876 | 0.011 | 0.000 | 1.698 | 0.000 | 53.09 | 53.19 |
| 53.23 | 128.91 | 3.16 | 157.26 | 2.34 | 1.49% | 1.519 | 0.61 | 85.02 | 2.01 | 1.32 | 139 | 0.330 | 0.74 | 1.349 | 0.510 | | 0.65 | 0.89 | <= | 1.227 | 0.006 | 0.000 | 1.688 | 0.000 | 53.19 | 53.23 |
| 53.29 | 126.12 | 3.17 | 160.39 | 1.59 | 0.99% | 1.011 | 0.57 | 86.65 | 1.88 | 1.17 | 129 | 0.279 | 0.74 | 1.351 | 0.510 | | 0.55 | 0.75 | <= | 1.656 | 0.012 | 0.000 | 1.682 | 0.000 | 53.23 | 53.29 |
| 53.36 | 126.23 | 3.17 | 157.75 | 1.62 | 1.03% | 1.048 | 0.58 | 85.09 | 1.90 | 1.19 | 128 | 0.275 | 0.74 | 1.353 | 0.510 | | 0.54 | 0.74 | <= | 1.616 | 0.014 | 0.000 | 1.670 | 0.000 | 53.29 | 53.36 |
| 53.45 | 126.92 | 3.18 | 147.50 | 1.82 | 1.23% | 1.261 | 0.60 | 79.32 | 1.98 | 1.27 | 126 | 0.267 | 0.74 | 1.356 | 0.509 | | 0.52 | 0.72 | <= | 1.549 | 0.017 | 0.000 | 1.656 | 0.000 | 53.36 | 53.45 |
| 53.49 | 127.63 | 3.18 | 140.08 | 2.04 | 1.46% | 1.490 | 0.62 | 75.18 | 2.05 | 1.37 | 127 | 0.271 | 0.74 | 1.357 | 0.509 | | 0.53 | 0.73 | <= | 1.588 | 0.008 | 0.000 | 1.640 | 0.000 | 53.45 | 53.49 |
| 53.56 | 128.31 | 3.18 | 121.93 | 2.35 | 1.93% | 1.979 | 0.66 | 65.13 | 2.19 | 1.63 | 128 | 0.277 | 0.74 | 1.359 | 0.509 | | 0.54 | 0.75 | <= | 1.885 | 0.016 | 0.000 | 1.632 | 0.000 | 53.49 | 53.56 |
| 53.63 | 128.60 | 3.19 | 102.30 | 2.59 | 2.53% | 2.613 | 0.71 | 54.29 | 2.33 | 2.06 | 132 | 0.294 | 0.74 | 1.361 | 0.509 | | 0.58 | 0.80 | <= | 1.843 | 0.015 | 0.000 | 1.616 | 0.000 | 53.56 | 53.63 |
| 53.68 | 128.45 | 3.19 | 95.67 | 2.59 | 2.71% | 2.801 | 0.72 | 50.61 | 2.38 | 2.23 | 132 | 0.294 | 0.74 | 1.363 | 0.508 | | 0.58 | 0.80 | <= | 1.843 | 0.011 | 0.000 | 1.601 | 0.000 | 53.63 | 53.68 |
| 53.77 | 127.27 | 3.20 | 74.09 | 2.40 | 3.24% | 3.385 | 0.77 | 38.74 | 2.53 | 2.91 | 129 | 0.279 | 0.74 | 1.366 | 0.508 | | 0.55 | 0.75 | <= | 1.881 | 0.020 | 0.000 | 1.590 | 0.000 | 53.68 | 53.77 |
| 53.81 | 126.99 | 3.20 | 74.09 | 2.31 | 3.12% | 3.258 | 0.76 | 38.71 | 2.52 | 2.85 | 126 | 0.267 | 0.74 | 1.367 | 0.508 | | 0.53 | 0.72 | <= | 1.912 | 0.009 | 0.000 | 1.569 | 0.000 | 53.77 | 53.81 |
| 53.89 | 126.19 | 3.20 | 74.09 | 2.07 | 2.79% | 2.920 | 0.75 | 38.65 | 2.48 | 2.68 | 119 | 0.237 | 0.74 | 1.369 | 0.507 | | 0.47 | 0.64 | <= | 2.003 | 0.019 | 0.000 | 1.560 | 0.000 | 53.81 | 53.89 |
| 53.95 | 125.91 | 3.21 | 80.63 | 1.94 | 2.41% | 2.506 | 0.73 | 42.17 | 2.40 | 2.33 | 115 | 0.220 | 0.74 | 1.371 | 0.507 | | 0.43 | 0.60 | <= | 2.065 | 0.015 | 0.000 | 1.541 | 0.000 | 53.89 | 53.95 |
| 54.01 | 126.22 | 3.21 | 97.23 | 1.90 | 1.95% | 2.021 | 0.69 | 51.16 | 2.27 | 1.86 | 114 | 0.217 | 0.74 | 1.373 | 0.507 | | 0.43 | 0.59 | <= | 2.079 | 0.015 | 0.000 | 1.526 | 0.000 | 53.95 | 54.01 |
| 54.07 | 126.33 | 3.21 | 105.23 | 1.88 | 1.79% | 1.843 | 0.67 | 55.45 | 2.22 | 1.71 | 114 | 0.218 | 0.74 | 1.375 | 0.507 | | 0.43 | 0.59 | <= | 2.073 | 0.015 | 0.000 | 1.511 | 0.000 | 54.01 | 54.07 |
| 54.17 | 125.97 | 3.22 | 108.16 | 1.77 | 1.64% | 1.687 | 0.66 | 56.94 | 2.18 | 1.62 | 112 | 0.210 | 0.74 | 1.378 | 0.506 | | 0.42 | 0.57 | <= | 2.107 | 0.025 | 0.000 | 1.496 | 0.000 | 54.07 | 54.17 |
| 54.21 | 125.97 | 3.22 | 105.04 | 1.79 | 1.70% | 1.758 | 0.67 | 55.21 | 2.20 | 1.67 | 112 | 0.210 | 0.73 | 1.379 | 0.506 | | 0.41 | 0.57 | <= | 2.109 | 0.010 | 0.000 | 1.471 | 0.000 | 54.17 | 54.21 |
| 54.31 | 126.02 | 3.23 | 84.34 | 1.94 | 2.30% | 2.392 | 0.72 | 43.91 | 2.38 | 2.22 | 114 | 0.219 | 0.73 | 1.382 | 0.506 | | 0.43 | 0.60 | <= | 2.071 | 0.025 | 0.000 | 1.461 | 0.000 | 54.21 | 54.31 |
| 54.34 | 125.89 | 3.23 | 77.80 | 1.96 | 2.52% | 2.628 | 0.74 | 40.34 | 2.43 | 2.46 | 115 | 0.222 | 0.73 | 1.383 | 0.505 | | 0.44 | 0.60 | <= | 2.058 | 0.007 | 0.000 | 1.436 | 0.000 | 54.31 | 54.34 |
| 54.42 | 125.13 | 3.24 | 60.13 | 1.92 | 3.19% | 3.375 | 0.79 | 30.74 | 2.60 | 3.35 | 116 | 0.226 | 0.73 | 1.386 | 0.505 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 54.48 | 124.42 | 3.24 | 51.35 | 1.84 | 3.58% | 3.825 | 0.82 | 25.97 | 2.70 | 3.99 | 132 | 0.293 | 0.73 | 1.388 | 0.505 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 54.53 | 123.61 | 3.24 | 42.76 | 1.75 | 4.09% | 4.429 | 0.85 | 21.31 | 2.81 | 4.89 | 161 | 0.471 | 0.73 | 1.389 | 0.505 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 54.62 | 122.48 | 3.25 | 34.95 | 1.60 | 4.58% | 5.047 | 0.89 | 17.07 | 2.93 | 5.99 | 198 | 0.797 | 0.73 | 1.392 | 0.504 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 54.67 | 121.81 | 3.25 | 31.24 | 1.52 | 4.87% | 5.431 | 0.91 | 15.06 | 2.99 | 6.68 | 221 | 1.078 | 0.73 | 1.394 | 0.504 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 54.75 | 120.65 | 3.26 | 29.48 | 1.32 | 4.48% | 5.034 | 0.91 | 14.09 | 3.00 | 6.69 | 221 | 1.081 | 0.73 | 1.396 | 0.504 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 54.80 | 119.93 | 3.26 | 28.99 | 1.20 | 4.14% | 4.664 | 0.90 | 13.82 | 2.98 | 6.52 | 215 | 1.007 | 0.73 | 1.398 | 0.503 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 54.88 | 118.85 | 3.26 | 27.63 | 1.06 | 3.84% | 4.350 | 0.90 | 13.07 | 2.98 | 6.52 | 215 | 1.006 | 0.73 | 1.400 | 0.503 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 54.93 | 118.41 | 3.27 | 25.48 | 1.02 | 4.00% | 4.592 | 0.92 | 11.91 | 3.03 | 7.07 | 233 | 1.261 | 0.73 | 1.402 | 0.503 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 55.02 | 118.23 | 3.27 | 23.62 | 1.02 | 4.32% | 5.013 | 0.93 | 10.89 | 3.09 | 7.75 | 256 | 1.638 | 0.73 | 1.405 | 0.503 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 55.07 | 118.40 | 3.28 | 23.23 | 1.05 | 4.52% | 5.262 | 0.94 | 10.67 | 3.11 | 8.02 | 265 | 1.804 | 0.73 | 1.406 | 0.502 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 55.15 | 119.16 | 3.28 | 24.31 | 1.15 | 4.73% | 5.469 | 0.94 | 11.23 | 3.10 | 7.93 | 262 | 1.745 | 0.73 | 1.409 | 0.502 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 55.20 | 120.10 | 3.28 | 28.21 | 1.24 | 4.40% | 4.975 | 0.91 | 13.31 | 3.01 | 6.88 | 227 | 1.168 | 0.73 | 1.410 | 0.502 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 55.27 | 121.19 | 3.29 | 34.07 | 1.36 | 3.99% | 4.418 | 0.88 | 16.41 | 2.90 | 5.72 | 189 | 0.706 | 0.73 | 1.412 | 0.502 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 55.34 | 119.75 | 3.29 | 38.46 | 1.07 | 2.78% | 3.043 | 0.83 | 18.73 | 2.75 | 4.35 | 143 | 0.354 | 0.73 | 1.415 | 0.501 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 55.39 | 119.19 | 3.30 | 43.83 | 0.95 | 2.17% | 2.344 | 0.79 | 21.57 | 2.62 | 3.46 | 114 | 0.218 | 0.73 | 1.416 | 0.501 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.429 | 0.000 | | |
| 55.47 | 120.56 | 3.30 | 49.49 | 1.10 | 2.22% | 2.381 | 0.78 | 24.55 | 2.58 | 3.19 | 105 | 0.189 | 0.72 | 1.419 | 0.501 | | 0.38 | 0.52 | <= | 2.211 | 0.021 | 0.000 | 1.429 | 0.000 | 55.39 | 55.47 |
| 55.51 | 121.20 | 3.30 | 52.71 | 1.17 | 2.22% | 2.368 | 0.77 | 26.25 | 2.55 | 3.05 | 100 | 0.174 | 0.72 | 1.420 | 0.501 | | 0.35 | 0.48 | <= | 2.298 | 0.011 | 0.000 | 1.407 | 0.000 | 55.47 | 55.51 |
| 55.59 | 122.07 | 3.31 | 56.03 | 1.29 | 2.30% | 2.447 | 0.77 | 27.97 | 2.54 | 2.97 | 98 | 0.168 | 0.72 | 1.422 | 0.500 | | 0.34 | 0.46 | <= | 2.344 | 0.023 | 0.000 | 1.396 | 0.000 | 55.51 | 55.59 |
| 55.65 | 122.50 | 3.31 | 57.60 | 1.36 | 2.36% | 2.505 | 0.77 | 28.78 | 2.54 | 2.95 | 98 | 0.166 | 0.72 | 1.424 | 0.500 | | 0.33 | 0.46 | <= | 2.354 | 0.017 | 0.000 | 1.374 | 0.000 | 55.59 | 55.65 |
| 55.72 | 123.15 | 3.45 | 60.33 | 1.46 | 2.42% | 2.567 | 0.77 | 28.14 | 2.54 | 3.01 | 99 | 0.171 | 0.72 | 1.426 | 0.486 | | 0.35 | 0.48 | <= | 2.322 | 0.020 | 0.000 | 1.357 | 0.000 | 55.65 | 55.72 |
| 55.79 | 123.87 | 3.45 | 62.38 | 1.60 | 2.56% | 2.715 | 0.77 | 29.18 | 2.55 | 3.03 | 103 | 0.181 | 0.72 | 1.429 | 0.486 | | 0.37 | 0.51 | <= | 2.257 | 0.019 | 0.000 | 1.337 | 0.000 | 55.72 | 55.79 |
| 55.85 | 124.36 | 3.45 | 69.70 | 1.65 | 2.37% | 2.490 | 0.75 | 32.84 | 2.48 | 2.67 | 103 | 0.183 | 0.72 | 1.431 | 0.486 | | 0.38 | 0.52 | <= | 2.244 | 0.016 | 0.000 | 1.318 | 0.000 | 55.79 | 55.85 |
| 55.93 | 124.79 | 3.45 | 80.83 | 1.66 | 2.05% | 2.145 | 0.72 | 38.40 | 2.38 | 2.24 | 103 | 0.182 | 0.72 | 1.433 | 0.486 | | 0.37 | 0.52 | <= | 2.249 | 0.022 | 0.000 | 1.302 | 0.000 | 55.85 | 55.93 |
| 55.98 | 125.29 | 3.45 | 88.44 | 1.73 | 1.96% | 2.035 | 0.71 | 42.21 | 2.33 | 2.05 | 105 | 0.188 | 0.72 | 1.435 | 0.486 | | 0.39 | 0.53 | <= | 2.214 | 0.013 | 0.000 | 1.281 | 0.000 | 55.93 | 55.98 |
| 56.06 | 126.15 | 3.45 | 97.91 | 1.88 | 1.92% | 1.990 | 0.69 | 46.97 | 2.29 | 1.91 | 110 | 0.203 | 0.72 | 1.437 | 0.486 | | 0.42 | 0.57 | <= | 2.140 | 0.021 | 0.000 | 1.267 | 0.000 | 55.98 | 56.06 |
| 56.11 | 126.75 | 3.45 | 107.19 | 1.98 | 1.85% | 1.909 | 0.68 | 51.63 | 2.24 | 1.78 | 113 | 0.215 | 0.72 | 1.439 | 0.486 | | 0.44 | 0.61 | <= | 2.088 | 0.013 | 0.000 | 1.247 | 0.000 | 56.06 | 56.11 |
| 56.20 | 127.36 | 3.45 | 123.29 | 2.05 | 1.66% | 1.711 | 0.66 | 59.72 | 2.16 | 1.57 | 118 | 0.231 | 0.72 | 1.441 | 0.487 | | 0.48 | 0.65 | <= | 2.024 | 0.022 | 0.000 | 1.234 | 0.000 | 56.11 | 56.20 |
| 56.25 | 127.46 | 3.45 | 128.37 | 2.05 | 1.60% | 1.641 | 0.65 | 62.30 | 2.13 | 1.51 | 119 | 0.236 | 0.72 | 1.443 | 0.487 | | 0.49 | 0.67 | <= | 2.007 | 0.012 | 0.000 | 1.212 | 0.000 | 56.20 | 56.25 |
| 56.31 | 126.32 | 3.45 | 134.71 | 1.73 | 1.28% | 1.318 | 0.62 | 65.53 | 2.05 | 1.36 | 115 | 0.220 | 0.72 | 1.445 | 0.487 | | 0.45 | 0.62 | <= | 2.067 | 0.015 | 0.000 | 1.200 | 0.000 | 56.25 | 56.31 |
| 56.38 | 125.39 | 3.45 | 138.23 | 1.51 | 1.09% | 1.120 | 0.60 | 67.36 | 1.99 | 1.28 | 112 | 0.211 | 0.72 | 1.447 | 0.487 | | 0.43 | 0.60 | <= | 2.105 | 0.018 | 0.000 | 1.185 | 0.000 | 56.31 | 56.38 |
| 56.47 | 124.66 | 3.45 | 140.96 | 1.36 | 0.96% | 0.989 | 0.59 | 68.82 | 1.94 | 1.23 | 111 | 0.206 | 0.72 | 1.450 | 0.487 | | 0.42 | 0.58 | <= | 2.124 | 0.023 | 0.000 | 1.168 | 0.000 | 56.38 | 56.47 |
| 56.50 | 124.91 | 3.45 | 140.96 | 1.40 | 0.99% | 1.018 | 0.59 | 68.85 | 1.95 | 1.24 | 111 | 0.209 | 0.72 | 1.451 | 0.487 | | 0.43 | 0.59 | <= | 2.114 | 0.008 | 0.000 | 1.145 | 0.000 | 56.47 | 56.50 |
| 56.60 | 126.34 | 3.45 | 138.91 | 1.71 | 1.23% | 1.262 | 0.61 | 67.93 | 2.02 | 1.33 | 116 | 0.225 | 0.72 | 1.454 | 0.487 | | 0.46 | 0.64 | <= | 2.047 | 0.025 | 0.000 | 1.137 | 0.000 | 56.50 | 56.60 |
| 56.65 | 127.05 | 3.45 | 132.66 | 1.92 | 1.45% | 1.486 | 0.63 | 64.85 | 2.09 | 1.43 | 118 | 0.232 | 0.72 | 1.455 | 0.487 | | 0.48 | 0.65 | <= | 2.022 | 0.012 | 0.000 | 1.113 | 0.000 | 56.60 | 56.65 |
| 56.70 | 127.63 | 3.45 | 128.66 | 2.10 | 1.63% | 1.677 | 0.65 | 62.89 | 2.14 | 1.52 | 120 | 0.242 | 0.71 | 1.457 | 0.488 | | 0.50 | 0.68 | <= | 1.988 | 0.012 | 0.000 | 1.101 | 0.000 | 56.65 | 56.70 |
| 56.78 | 129.46 | 3.45 | 118.22 | 2.77 | 2.34% | 2.413 | 0.69 | 57.72 | 2.28 | 1.89 | 133 | 0.299 | 0.71 | 1.460 | 0.488 | | 0.61 | 0.84 | <= | 1.360 | 0.013 | 0.000 | 1.089 | 0.000 | 56.70 | 56.78 |
| 56.83 | 130.08 | 3.45 | 115.58 | 3.04 | 2.63% | 2.711 | 0.71 | 56.43 | 2.33 | 2.03 | 139 | 0.329 | 0.71 | 1.461 | 0.488 | | 0.67 | 0.93 | <= | 0.733 | 0.004 | 0.000 | 1.076 | 0.000 | 56.78 | 56.83 |
| 56.91 | 129.98 | 3.45 | 105.62 | 3.09 | 2.93% | 3.024 | 0.73 | 51.49 | 2.39 | 2.28 | 140 | 0.335 | 0.71 | 1.464 | 0.488 | | 0.69 | 0.95 | <= | 0.777 | 0.007 | 0.000 | 1.071 | 0.000 | 56.83 | 56.91 |
| 56.97 | 129.67 | 3.45 | 95.08 | 3.07 | 3.23% | 3.350 | 0.75 | 46.22 | 2.46 | 2.57 | 140 | 0.336 | 0.71 | 1.465 | 0.488 | | 0.69 | 0.95 | <= | 1.175 | 0.008 | 0.000 | 1.064 | 0.000 | 56.91 | 56.97 |
| 57.05 | 129.47 | 3.45 | 88.44 | 3.06 | 3.46% | 3.600 | 0.76 | 42.92 | 2.51 | 2.81 | 141 | 0.339 | 0.71 | 1.468 | 0.488 | | 0.69 | 0.95 | <= | 1.249 | 0.012 | 0.000 | 1.055 | 0.000 | 56.97 | 57.05 |
| 57.10 | 129.83 | 3.45 | 94.40 | 3.14 | 3.33% | 3.452 | 0.75 | 45.97 | 2.47 | 2.63 | 142 | 0.347 | 0.71 | 1.470 | 0.488 | | 0.71 | 0.98 | <= | 1.476 | 0.009 | 0.000 | 1.043 | 0.000 | 57.05 | 57.10 |
| 57.18 | 131.00 | 3.45 | 120.56 | 3.40 | 2.82% | 2.903 | 0.71 | 59.27 | 2.33 | 2.06 | 147 | 0.377 | 0.71 | 1.472 | 0.489 | | 0.77 | 1.06 | <= | 0.541 | 0.005 | 0.000 | 1.034 | 0.000 | 57.10 | 57.18 |
| 57.22 | 131.73 | 3.45 | 143.99 | 3.54 | 2.46% | 2.519 | 0.68 | 71.17 | 2.23 | 1.74 | 152 | 0.407 | 0.71 | 1.473 | 0.489 | | 0.83 | 1.15 | <= | 0.355 | 0.002 | 0.000 | 1.029 | 0.000 | 57.18 | 57.22 |
| 57.29 | 132.56 | 3.45 | 193.97 | 3.59 | 1.85% | 1.884 | 0.62 | 96.58 | 2.03 | 1.35 | 166 | 0.506 | 0.71 | 1.475 | 0.489 | | 1.04 | 1.43 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 57.36 | 132.71 | 3.45 | 240.34 | 3.41 | 1.42% | 1.439 | 0.57 | 120.22 | 1.87 | 1.17 | 184 | 0.664 | 0.71 | 1.478 | 0.489 | | 1.36 | 1.87 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 57.41 | 132.52 | 3.45 | 272.26 | 3.19 | 1.17% | 1.187 | 0.54 | 136.53 | 1.77 | 1.09 | 199 | 0.811 | 0.71 | 1.479 | 0.489 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 57.48 | 131.78 | 3.45 | 296.76 | 2.80 | 0.94% | 0.955 | 0.51 | 149.14 | 1.67 | 1.02 | 203 | 0.862 | 0.71 | 1.481 | 0.489 | | 1.76 | 2.42 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 57.58 | 129.58 | 3.45 | 323.12 | 2.02 | 0.63% | 0.632 | 0.50 | 162.80 | 1.52 | 1.00 | 200 | 0.824 | 0.71 | 1.484 | 0.489 | | 1.68 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 57.67 | 129.51 | 3.45 | 335.71 | 1.97 | 0.59% | 0.593 | 0.50 | 169.46 | 1.48 | 1.00 | 200 | 0.824 | 0.71 | 1.487 | 0.490 | | 1.68 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 57.70 | 129.53 | 3.45 | 340.79 | 1.97 | 0.58% | 0.584 | 0.50 | 172.13 | 1.47 | 1.00 | 200 | 0.824 | 0.71 | 1.488 | 0.490 | | 1.68 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 57.77 | 129.56 | 3.45 | 347.82 | 1.96 | 0.56% | 0.569 | 0.50 | 175.91 | 1.46 | 1.00 | 200 | 0.824 | 0.71 | 1.490 | 0.490 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 57.81 | 129.59 | 3.45 | 347.23 | 1.97 | 0.57% | 0.573 | 0.50 | 175.72 | 1.46 | 1.00 | 200 | 0.824 | 0.71 | 1.492 | 0.490 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 57.90 | 129.81 | 3.45 | 346.64 | 2.03 | 0.59% | 0.592 | 0.50 | 175.67 | 1.47 | 1.00 | 200 | 0.824 | 0.71 | 1.494 | 0.490 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 57.95 | 130.25 | 3.45 | 350.26 | 2.15 | 0.61% | 0.620 | 0.50 | 177.67 | 1.48 | 1.00 | 200 | 0.824 | 0.70 | 1.496 | 0.490 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.02 | 131.03 | 3.45 | 353.97 | 2.39 | 0.68% | 0.682 | 0.50 | 179.77 | 1.51 | 1.00 | 200 | 0.824 | 0.70 | 1.498 | 0.490 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.07 | 131.55 | 3.45 | 354.45 | 2.56 | 0.72% | 0.729 | 0.50 | 180.16 | 1.53 | 1.00 | 200 | 0.824 | 0.70 | 1.500 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.14 | 132.04 | 3.45 | 352.60 | 2.74 | 0.78% | 0.785 | 0.50 | 179.41 | 1.55 | 1.00 | 200 | 0.824 | 0.70 | 1.502 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.20 | 132.33 | 3.45 | 347.03 | 2.87 | 0.83% | 0.835 | 0.50 | 176.72 | 1.58 | 1.00 | 200 | 0.824 | 0.70 | 1.504 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.27 | 132.51 | 3.45 | 341.08 | 2.95 | 0.86% | 0.874 | 0.50 | 173.85 | 1.60 | 1.00 | 200 | 0.824 | 0.70 | 1.506 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.35 | 132.55 | 3.45 | 331.03 | 3.00 | 0.91% | 0.916 | 0.50 | 168.90 | 1.62 | 1.00 | 200 | 0.824 | 0.70 | 1.509 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.40 | 132.51 | 3.45 | 323.90 | 3.01 | 0.93% | 0.939 | 0.50 | 165.35 | 1.63 | 1.00 | 200 | 0.824 | 0.70 | 1.510 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.49 | 132.42 | 3.45 | 319.12 | 2.98 | 0.93% | 0.944 | 0.50 | 163.12 | 1.64 | 1.00 | 200 | 0.824 | 0.70 | 1.513 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.54 | 132.42 | 3.45 | 324.00 | 2.97 | 0.92% | 0.927 | 0.50 | 165.78 | 1.63 | 1.00 | 200 | 0.824 | 0.70 | 1.514 | 0.492 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.62 | 132.40 | 3.45 | 322.14 | 2.97 | 0.92% | 0.932 | 0.50 | 165.03 | 1.63 | 1.00 | 200 | 0.824 | 0.70 | 1.517 | 0.492 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.67 | 132.46 | 3.45 | 324.09 | 2.98 | 0.92% | 0.929 | 0.50 | 166.17 | 1.63 | 1.00 | 200 | 0.824 | 0.70 | 1.519 | 0.492 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.76 | 132.46 | 3.45 | 325.17 | 2.98 | 0.92% | 0.926 | 0.50 | 166.98 | 1.63 | 1.00 | 200 | 0.824 | 0.70 | 1.521 | 0.492 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.81 | 132.38 | 3.45 | 325.95 | 2.95 | 0.91% | 0.915 | 0.50 | 167.52 | 1.62 | 1.00 | 200 | 0.824 | 0.70 | 1.523 | 0.492 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.89 | 132.41 | 3.45 | 326.24 | 2.96 | 0.91% | 0.917 | 0.50 | 167.88 | 1.62 | 1.00 | 200 | 0.824 | 0.70 | 1.525 | 0.492 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.94 | 132.35 | 3.45 | 325.17 | 2.94 | 0.90% | 0.914 | 0.50 | 167.46 | 1.62 | 1.00 | 200 | 0.824 | 0.70 | 1.527 | 0.492 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 58.99 | 132.29 | 3.45 | 325.56 | 2.91 | 0.89% | 0.903 | 0.50 | 167.80 | 1.62 | 1.00 | 200 | 0.824 | 0.70 | 1.528 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-3

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**Analysis Scenario:** MCE (2% exceedance probability in 50 years)

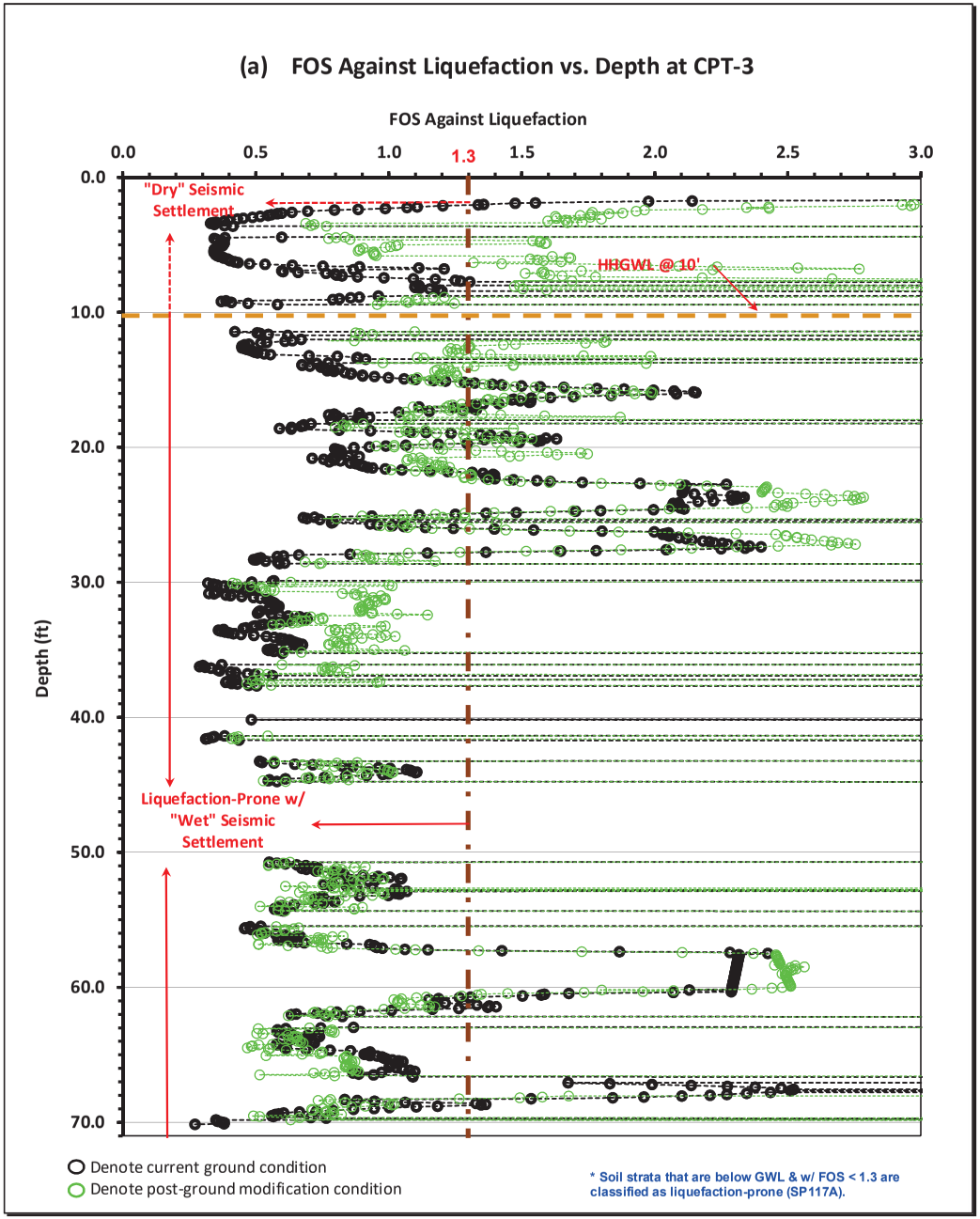
D(ft): 1 | **MAGNITUDE:** 6.62 | **MAGNITUDE SCALING FACTOR:** 1.38

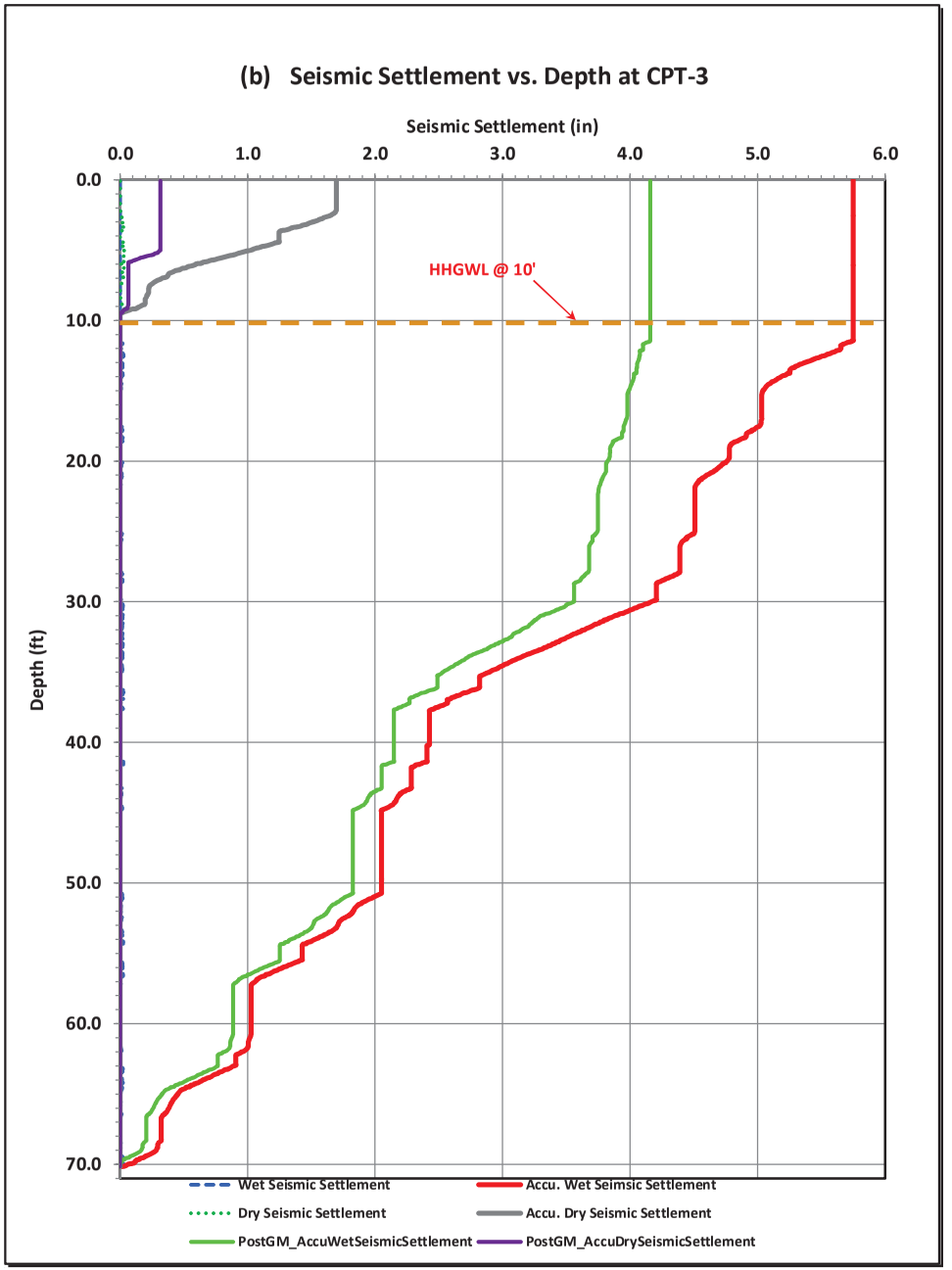
**GROUNDWATER LEVEL:** 10 feet | **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.08 | 132.51 | 3.45 | 331.90 | 2.98 | 0.90% | 0.907 | 0.50 | 171.36 | 1.61 | 1.00 | 200 | 0.824 | 0.70 | 1.531 | 0.493 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.13 | 132.64 | 3.45 | 337.76 | 3.02 | 0.89% | 0.903 | 0.50 | 174.56 | 1.61 | 1.00 | 200 | 0.824 | 0.70 | 1.533 | 0.493 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.20 | 132.29 | 3.45 | 340.79 | 2.87 | 0.84% | 0.851 | 0.50 | 176.34 | 1.59 | 1.00 | 200 | 0.824 | 0.69 | 1.535 | 0.493 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.25 | 131.65 | 3.45 | 339.81 | 2.63 | 0.77% | 0.782 | 0.50 | 175.97 | 1.56 | 1.00 | 200 | 0.824 | 0.69 | 1.537 | 0.493 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.34 | 131.63 | 3.45 | 337.57 | 2.63 | 0.78% | 0.787 | 0.50 | 175.06 | 1.56 | 1.00 | 200 | 0.824 | 0.69 | 1.539 | 0.493 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.39 | 131.63 | 3.45 | 337.47 | 2.63 | 0.78% | 0.787 | 0.50 | 175.15 | 1.56 | 1.00 | 200 | 0.824 | 0.69 | 1.541 | 0.493 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.46 | 131.68 | 3.45 | 337.86 | 2.65 | 0.78% | 0.792 | 0.50 | 175.55 | 1.57 | 1.00 | 200 | 0.824 | 0.69 | 1.543 | 0.494 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.52 | 131.67 | 3.45 | 335.81 | 2.65 | 0.79% | 0.797 | 0.50 | 174.65 | 1.57 | 1.00 | 200 | 0.824 | 0.69 | 1.545 | 0.494 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.59 | 131.52 | 3.45 | 315.70 | 2.65 | 0.84% | 0.849 | 0.50 | 164.27 | 1.61 | 1.00 | 200 | 0.824 | 0.69 | 1.547 | 0.494 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.65 | 131.61 | 3.45 | 326.93 | 2.65 | 0.81% | 0.819 | 0.50 | 170.34 | 1.58 | 1.00 | 200 | 0.824 | 0.69 | 1.549 | 0.494 | | 1.67 | **2.29** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.74 | 131.75 | 3.45 | 325.07 | 2.71 | 0.83% | 0.843 | 0.50 | 169.62 | 1.60 | 1.00 | 200 | 0.824 | 0.69 | 1.552 | 0.494 | | 1.67 | **2.29** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.79 | 131.42 | 3.45 | 323.61 | 2.59 | 0.80% | 0.809 | 0.50 | 168.98 | 1.58 | 1.00 | 200 | 0.824 | 0.69 | 1.553 | 0.494 | | 1.67 | **2.29** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.87 | 128.94 | 3.45 | 319.80 | 1.85 | 0.58% | 0.585 | 0.50 | 167.19 | 1.49 | 1.00 | 200 | 0.824 | 0.69 | 1.556 | 0.495 | | 1.67 | **2.29** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 59.92 | 128.83 | 3.45 | 315.41 | 1.83 | 0.58% | 0.587 | 0.50 | 165.01 | 1.50 | 1.00 | 200 | 0.824 | 0.69 | 1.558 | 0.495 | | 1.67 | **2.29** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.01 | 129.31 | 3.45 | 310.62 | 1.97 | 0.63% | 0.641 | 0.50 | 162.72 | 1.53 | 1.00 | 200 | 0.824 | 0.69 | 1.560 | 0.495 | | 1.66 | **2.29** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.05 | 129.63 | 3.45 | 308.87 | 2.06 | 0.67% | 0.674 | 0.50 | 161.90 | 1.54 | 1.00 | 200 | 0.824 | 0.69 | 1.562 | 0.495 | | 1.66 | **2.29** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.14 | 129.83 | 3.45 | 305.45 | 2.12 | 0.69% | 0.702 | 0.50 | 160.32 | 1.56 | 1.00 | 200 | 0.824 | 0.69 | 1.564 | 0.495 | | 1.66 | **2.29** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.19 | 129.42 | 3.45 | 275.87 | 2.08 | 0.75% | 0.764 | 0.50 | 144.74 | 1.62 | 1.00 | 195 | 0.767 | 0.69 | 1.566 | 0.495 | | 1.55 | **2.13** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.24 | 129.50 | 3.45 | 290.90 | 2.07 | 0.71% | 0.720 | 0.50 | 152.85 | 1.58 | 1.00 | 200 | 0.824 | 0.69 | 1.567 | 0.495 | | 1.66 | **2.29** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.32 | 129.38 | 3.45 | 284.85 | 2.05 | 0.72% | 0.728 | 0.50 | 149.83 | 1.59 | 1.00 | 200 | 0.824 | 0.69 | 1.570 | 0.496 | | 1.66 | **2.29** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.38 | 129.09 | 3.45 | 272.65 | 2.00 | 0.73% | 0.743 | 0.50 | 143.48 | 1.61 | 1.00 | 193 | 0.746 | 0.68 | 1.572 | 0.496 | | 1.50 | **2.07** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.45 | 128.11 | 3.45 | 251.95 | 1.79 | 0.71% | 0.720 | 0.50 | 132.60 | 1.63 | 1.00 | 178 | 0.605 | 0.68 | 1.574 | 0.496 | | 1.22 | **1.68** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.51 | 127.34 | 3.45 | 246.49 | 1.63 | 0.66% | 0.671 | 0.50 | 129.82 | 1.61 | 1.00 | 174 | 0.571 | 0.68 | 1.576 | 0.496 | | 1.15 | **1.58** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.56 | 126.50 | 3.45 | 245.71 | 1.45 | 0.59% | 0.599 | 0.50 | 129.51 | 1.58 | 1.00 | 174 | 0.567 | 0.68 | 1.577 | 0.496 | | 1.14 | **1.57** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.63 | 125.86 | 3.45 | 241.31 | 1.34 | 0.56% | 0.563 | 0.50 | 127.31 | 1.57 | 1.00 | 171 | 0.542 | 0.68 | 1.580 | 0.496 | | 1.09 | **1.50** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.72 | 126.39 | 3.45 | 228.43 | 1.46 | 0.64% | 0.649 | 0.50 | 120.59 | 1.63 | 1.00 | 162 | 0.472 | 0.68 | 1.582 | 0.497 | | 0.95 | **1.31** | | 0.000 | 0.000 | 0.000 | 1.027 | 0.000 | | |
| 60.77 | 126.09 | 3.45 | 225.40 | 1.41 | 0.63% | 0.635 | 0.50 | 119.07 | 1.63 | 1.00 | 159 | 0.457 | 0.68 | 1.584 | 0.497 | | 0.92 | **1.27** | <= | 0.259 | 0.002 | 0.000 | 1.027 | 0.000 | 60.72 | 60.77 |
| 60.84 | 125.80 | 3.45 | 219.64 | 1.37 | 0.62% | 0.634 | 0.50 | 116.12 | 1.64 | 1.00 | 155 | 0.429 | 0.68 | 1.586 | 0.497 | | 0.86 | **1.19** | <= | 0.398 | 0.003 | 0.000 | 1.026 | 0.000 | 60.77 | 60.84 |
| 60.90 | 125.63 | 3.45 | 216.81 | 1.34 | 0.62% | 0.628 | 0.50 | 114.71 | 1.64 | 1.00 | 153 | 0.416 | 0.68 | 1.588 | 0.497 | | 0.84 | **1.15** | <= | 0.357 | 0.003 | 0.000 | 1.023 | 0.000 | 60.84 | 60.90 |
| 60.98 | 125.72 | 3.45 | 219.15 | 1.35 | 0.62% | 0.626 | 0.50 | 116.13 | 1.63 | 1.00 | 155 | 0.428 | 0.68 | 1.591 | 0.497 | | 0.86 | **1.18** | <= | 0.393 | 0.004 | 0.000 | 1.020 | 0.000 | 60.90 | 60.98 |
| 61.03 | 125.60 | 3.45 | 218.96 | 1.33 | 0.61% | 0.617 | 0.50 | 116.12 | 1.63 | 1.00 | 155 | 0.427 | 0.68 | 1.592 | 0.497 | | 0.86 | **1.18** | <= | 0.392 | 0.002 | 0.000 | 1.016 | 0.000 | 60.98 | 61.03 |
| 61.11 | 125.63 | 3.45 | 218.76 | 1.34 | 0.61% | 0.622 | 0.50 | 116.17 | 1.63 | 1.00 | 155 | 0.427 | 0.68 | 1.595 | 0.498 | | 0.86 | **1.18** | <= | 0.390 | 0.004 | 0.000 | 1.014 | 0.000 | 61.03 | 61.11 |
| 61.17 | 125.69 | 3.45 | 221.01 | 1.34 | 0.61% | 0.616 | 0.50 | 117.50 | 1.63 | 1.00 | 157 | 0.438 | 0.68 | 1.597 | 0.498 | | 0.88 | **1.21** | <= | 0.217 | 0.002 | 0.000 | 1.010 | 0.000 | 61.11 | 61.17 |
| 61.23 | 125.55 | 3.45 | 226.09 | 1.31 | 0.58% | 0.588 | 0.50 | 120.37 | 1.61 | 1.00 | 161 | 0.465 | 0.68 | 1.598 | 0.498 | | 0.93 | **1.28** | <= | 0.274 | 0.002 | 0.000 | 1.009 | 0.000 | 61.17 | 61.23 |
| 61.30 | 125.18 | 3.45 | 229.21 | 1.24 | 0.54% | 0.549 | 0.50 | 122.20 | 1.58 | 1.00 | 163 | 0.482 | 0.68 | 1.601 | 0.498 | | 0.97 | **1.33** | | 0.000 | 0.000 | 0.000 | 1.007 | 0.000 | | |
| 61.38 | 124.85 | 3.45 | 232.24 | 1.18 | 0.51% | 0.516 | 0.50 | 124.01 | 1.56 | 1.00 | 165 | 0.499 | 0.68 | 1.603 | 0.498 | | 1.00 | **1.38** | | 0.000 | 0.000 | 0.000 | 1.007 | 0.000 | | |
| 61.44 | 124.61 | 3.45 | 233.80 | 1.14 | 0.49% | 0.495 | 0.50 | 124.98 | 1.55 | 1.00 | 166 | 0.508 | 0.68 | 1.605 | 0.498 | | 1.02 | **1.40** | | 0.000 | 0.000 | 0.000 | 1.007 | 0.000 | | |
| 61.48 | 124.37 | 3.45 | 231.65 | 1.11 | 0.48% | 0.486 | 0.50 | 123.90 | 1.55 | 1.00 | 165 | 0.497 | 0.68 | 1.606 | 0.498 | | 1.00 | **1.37** | | 0.000 | 0.000 | 0.000 | 1.007 | 0.000 | | |
| 61.57 | 123.86 | 3.45 | 224.13 | 1.04 | 0.46% | 0.471 | 0.50 | 120.00 | 1.55 | 1.00 | 160 | 0.458 | 0.68 | 1.609 | 0.499 | | 0.92 | **1.26** | <= | 0.257 | 0.003 | 0.000 | 1.007 | 0.000 | 61.48 | 61.57 |
| 61.62 | 123.29 | 3.45 | 216.81 | 0.97 | 0.45% | 0.455 | 0.50 | 116.11 | 1.55 | 1.00 | 154 | 0.422 | 0.67 | 1.611 | 0.499 | | 0.85 | **1.16** | <= | 0.371 | 0.002 | 0.000 | 1.004 | 0.000 | 61.57 | 61.62 |
| 61.71 | 123.10 | 3.45 | 204.41 | 0.97 | 0.47% | 0.483 | 0.50 | 109.53 | 1.59 | 1.00 | 145 | 0.366 | 0.67 | 1.613 | 0.499 | | 0.73 | **1.01** | <= | 0.450 | 0.005 | 0.000 | 1.002 | 0.000 | 61.62 | 61.71 |
| 61.77 | 122.98 | 3.45 | 193.68 | 0.97 | 0.50% | 0.510 | 0.50 | 103.79 | 1.62 | 1.00 | 138 | 0.323 | 0.67 | 1.615 | 0.499 | | 0.65 | **0.89** | <= | 1.246 | 0.009 | 0.000 | 0.997 | 0.000 | 61.71 | 61.77 |
| 61.84 | 123.60 | 3.45 | 180.69 | 1.08 | 0.60% | 0.609 | 0.52 | 96.82 | 1.70 | 1.03 | 132 | 0.292 | 0.67 | 1.617 | 0.499 | | 0.59 | **0.81** | <= | 1.044 | 0.009 | 0.000 | 0.988 | 0.000 | 61.77 | 61.84 |
| 61.91 | 125.06 | 3.45 | 161.85 | 1.37 | 0.85% | 0.865 | 0.56 | 86.63 | 1.83 | 1.13 | 126 | 0.266 | 0.67 | 1.620 | 0.500 | | 0.53 | **0.73** | <= | 1.552 | 0.013 | 0.000 | 0.979 | 0.000 | 61.84 | 61.91 |
| 61.98 | 126.15 | 3.45 | 136.67 | 1.68 | 1.23% | 1.261 | 0.61 | 72.95 | 2.01 | 1.31 | 119 | 0.237 | 0.67 | 1.622 | 0.500 | | 0.47 | **0.65** | <= | 2.005 | 0.017 | 0.000 | 0.966 | 0.000 | 61.91 | 61.98 |
| 62.02 | 126.56 | 3.45 | 122.41 | 1.84 | 1.50% | 1.547 | 0.64 | 65.18 | 2.11 | 1.47 | 117 | 0.230 | 0.67 | 1.623 | 0.500 | | 0.46 | **0.63** | <= | 2.028 | 0.010 | 0.000 | 0.949 | 0.000 | 61.98 | 62.02 |
| 62.11 | 128.07 | 3.45 | 96.55 | 2.45 | 2.54% | 2.632 | 0.72 | 51.09 | 2.36 | 2.14 | 129 | 0.277 | 0.67 | 1.626 | 0.500 | | 0.55 | **0.76** | <= | 1.884 | 0.020 | 0.000 | 0.939 | 0.000 | 62.02 | 62.11 |
| 62.16 | 127.90 | 3.45 | 77.80 | 2.57 | 3.30% | 3.457 | 0.76 | 40.84 | 2.52 | 2.86 | 133 | 0.300 | 0.67 | 1.627 | 0.500 | | 0.60 | **0.83** | <= | 1.830 | 0.011 | 0.000 | 0.919 | 0.000 | 62.11 | 62.16 |
| 62.23 | 127.66 | 3.45 | 65.70 | 2.64 | 4.02% | 4.241 | 0.80 | 34.23 | 2.64 | 3.59 | 137 | 0.321 | 0.67 | 1.630 | 0.500 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.908 | 0.000 | | |
| 62.29 | 127.54 | 3.45 | 60.23 | 2.67 | 4.43% | 4.702 | 0.82 | 31.26 | 2.70 | 4.02 | 139 | 0.330 | 0.67 | 1.631 | 0.501 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.908 | 0.000 | | |
| 62.37 | 127.43 | 3.45 | 56.42 | 2.69 | 4.77% | 5.078 | 0.83 | 29.20 | 2.75 | 4.38 | 145 | 0.361 | 0.67 | 1.634 | 0.501 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.908 | 0.000 | | |
| 62.43 | 127.31 | 3.45 | 51.54 | 2.73 | 5.30% | 5.677 | 0.85 | 26.54 | 2.82 | 4.94 | 163 | 0.482 | 0.67 | 1.636 | 0.501 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.908 | 0.000 | | |
| 62.47 | 127.32 | 3.45 | 48.91 | 2.77 | 5.66% | 6.093 | 0.87 | 25.10 | 2.86 | 5.31 | 175 | 0.579 | 0.67 | 1.637 | 0.501 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.908 | 0.000 | | |
| 62.55 | 127.24 | 3.45 | 48.52 | 2.75 | 5.67% | 6.101 | 0.87 | 24.92 | 2.86 | 5.33 | 176 | 0.587 | 0.67 | 1.640 | 0.501 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.908 | 0.000 | | |
| 62.60 | 127.33 | 3.45 | 48.71 | 2.78 | 5.71% | 6.142 | 0.87 | 25.05 | 2.86 | 5.34 | 176 | 0.588 | 0.67 | 1.641 | 0.501 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.908 | 0.000 | | |
| 62.70 | 127.41 | 3.45 | 52.62 | 2.74 | 5.21% | 5.572 | 0.85 | 27.26 | 2.80 | 4.81 | 159 | 0.453 | 0.67 | 1.644 | 0.502 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.908 | 0.000 | | |
| 62.74 | 127.75 | 3.45 | 59.45 | 2.76 | 4.64% | 4.928 | 0.82 | 31.07 | 2.72 | 4.15 | 142 | 0.347 | 0.67 | 1.645 | 0.502 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.908 | 0.000 | | |
| 62.83 | 127.84 | 3.45 | 62.67 | 2.74 | 4.37% | 4.627 | 0.81 | 32.91 | 2.68 | 3.87 | 141 | 0.341 | 0.67 | 1.648 | 0.502 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.908 | 0.000 | | |
| 62.87 | 127.79 | 3.45 | 63.65 | 2.71 | 4.26% | 4.502 | 0.81 | 33.47 | 2.67 | 3.77 | 140 | 0.336 | 0.66 | 1.650 | 0.502 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.908 | 0.000 | | |
| 62.96 | 127.96 | 3.45 | 73.51 | 2.64 | 3.59% | 3.768 | 0.78 | 39.02 | 2.56 | 3.10 | 137 | 0.317 | 0.66 | 1.652 | 0.502 | | 0.63 | **0.87** | <= | 1.794 | 0.019 | 0.000 | 0.908 | 0.000 | 62.87 | 62.96 |
| 63.01 | 127.36 | 3.45 | 81.90 | 2.35 | 2.87% | 2.995 | 0.74 | 43.73 | 2.45 | 2.53 | 127 | 0.272 | 0.66 | 1.654 | 0.502 | | 0.54 | **0.74** | <= | 1.899 | 0.011 | 0.000 | 0.889 | 0.000 | 62.96 | 63.01 |
| 63.06 | 126.40 | 3.45 | 103.18 | 1.91 | 1.85% | 1.915 | 0.68 | 55.64 | 2.23 | 1.74 | 116 | 0.224 | 0.66 | 1.655 | 0.502 | | 0.45 | **0.61** | <= | 2.051 | 0.012 | 0.000 | 0.877 | 0.000 | 63.01 | 63.06 |
| 63.14 | 125.48 | 3.45 | 121.44 | 1.59 | 1.31% | 1.348 | 0.63 | 65.91 | 2.07 | 1.39 | 113 | 0.213 | 0.66 | 1.658 | 0.503 | | 0.42 | **0.58** | <= | 2.097 | 0.020 | 0.000 | 0.865 | 0.000 | 63.06 | 63.14 |
| 63.23 | 125.03 | 3.45 | 126.71 | 1.48 | 1.17% | 1.201 | 0.61 | 68.97 | 2.02 | 1.32 | 112 | 0.212 | 0.66 | 1.661 | 0.503 | | 0.42 | **0.58** | <= | 2.100 | 0.023 | 0.000 | 0.845 | 0.000 | 63.14 | 63.23 |
| 63.27 | 125.23 | 3.45 | 125.34 | 1.53 | 1.22% | 1.255 | 0.62 | 68.25 | 2.03 | 1.34 | 113 | 0.214 | 0.66 | 1.662 | 0.503 | | 0.42 | **0.58** | <= | 2.093 | 0.010 | 0.000 | 0.822 | 0.000 | 63.23 | 63.27 |
| 63.33 | 125.68 | 3.45 | 118.12 | 1.65 | 1.40% | 1.439 | 0.64 | 64.27 | 2.09 | 1.44 | 113 | 0.214 | 0.66 | 1.664 | 0.503 | | 0.43 | **0.59** | <= | 2.091 | 0.015 | 0.000 | 0.812 | 0.000 | 63.27 | 63.33 |
| 63.41 | 126.27 | 3.45 | 105.72 | 1.86 | 1.76% | 1.819 | 0.67 | 57.40 | 2.20 | 1.68 | 115 | 0.222 | 0.66 | 1.666 | 0.503 | | 0.44 | **0.61** | <= | 2.060 | 0.020 | 0.000 | 0.797 | 0.000 | 63.33 | 63.41 |
| 63.45 | 126.63 | 3.45 | 100.16 | 1.99 | 1.99% | 2.058 | 0.69 | 54.32 | 2.26 | 1.83 | 118 | 0.232 | 0.66 | 1.668 | 0.504 | | 0.46 | **0.63** | <= | 2.023 | 0.010 | 0.000 | 0.777 | 0.000 | 63.41 | 63.45 |
| 63.54 | 127.18 | 3.45 | 91.47 | 2.21 | 2.42% | 2.511 | 0.71 | 49.52 | 2.35 | 2.14 | 123 | 0.254 | 0.66 | 1.670 | 0.504 | | 0.50 | **0.69** | <= | 1.949 | 0.021 | 0.000 | 0.768 | 0.000 | 63.45 | 63.54 |
| 63.60 | 127.38 | 3.45 | 87.66 | 2.31 | 2.64% | 2.743 | 0.73 | 47.42 | 2.40 | 2.30 | 126 | 0.267 | 0.66 | 1.672 | 0.504 | | 0.53 | **0.73** | <= | 1.912 | 0.014 | 0.000 | 0.747 | 0.000 | 63.54 | 63.60 |
| 63.65 | 127.48 | 3.45 | 87.17 | 2.34 | 2.68% | 2.795 | 0.73 | 47.19 | 2.40 | 2.33 | 127 | 0.271 | 0.66 | 1.674 | 0.504 | | 0.54 | **0.74** | <= | 1.901 | 0.011 | 0.000 | 0.733 | 0.000 | 63.60 | 63.65 |
| 63.72 | 127.04 | 3.45 | 87.47 | 2.20 | 2.52% | 2.618 | 0.72 | 47.42 | 2.38 | 2.24 | 123 | 0.254 | 0.66 | 1.676 | 0.504 | | 0.50 | **0.69** | <= | 1.949 | 0.016 | 0.000 | 0.721 | 0.000 | 63.65 | 63.72 |
| 63.81 | 126.20 | 3.45 | 85.32 | 1.98 | 2.32% | 2.418 | 0.72 | 46.28 | 2.37 | 2.18 | 117 | 0.229 | 0.66 | 1.679 | 0.504 | | 0.45 | **0.63** | <= | 2.031 | 0.022 | 0.000 | 0.705 | 0.000 | 63.72 | 63.81 |
| 63.87 | 126.13 | 3.45 | 81.80 | 1.99 | 2.43% | 2.540 | 0.73 | 44.33 | 2.40 | 2.29 | 118 | 0.231 | 0.66 | 1.681 | 0.505 | | 0.46 | **0.63** | <= | 2.024 | 0.015 | 0.000 | 0.683 | 0.000 | 63.81 | 63.87 |
| 63.94 | 126.46 | 3.45 | 76.92 | 2.12 | 2.76% | 2.885 | 0.74 | 41.62 | 2.46 | 2.56 | 122 | 0.248 | 0.66 | 1.683 | 0.505 | | 0.49 | **0.68** | <= | 1.967 | 0.017 | 0.000 | 0.668 | 0.000 | 63.87 | 63.94 |
| 63.98 | 126.45 | 3.45 | 73.90 | 2.15 | 2.91% | 3.052 | 0.75 | 39.94 | 2.49 | 2.71 | 123 | 0.254 | 0.66 | 1.684 | 0.505 | | 0.50 | **0.69** | <= | 1.950 | 0.009 | 0.000 | 0.652 | 0.000 | 63.94 | 63.98 |
| 64.05 | 126.61 | 3.45 | 73.80 | 2.20 | 2.98% | 3.127 | 0.76 | 39.93 | 2.50 | 2.75 | 125 | 0.260 | 0.66 | 1.686 | 0.505 | | 0.52 | **0.71** | <= | 1.930 | 0.016 | 0.000 | 0.643 | 0.000 | 63.98 | 64.05 |
| 64.12 | 126.70 | 3.45 | 73.70 | 2.23 | 3.03% | 3.174 | 0.76 | 39.93 | 2.50 | 2.77 | 126 | 0.265 | 0.65 | 1.689 | 0.505 | | 0.52 | **0.72** | <= | 1.919 | 0.016 | 0.000 | 0.626 | 0.000 | 64.05 | 64.12 |
| 64.21 | 125.61 | 3.45 | 86.88 | 1.81 | 2.08% | 2.169 | 0.71 | 47.49 | 2.32 | 2.03 | 112 | 0.212 | 0.65 | 1.691 | 0.506 | | 0.42 | **0.58** | <= | 2.098 | 0.023 | 0.000 | 0.610 | 0.000 | 64.12 | 64.21 |
| 64.26 | 125.85 | 3.45 | 100.16 | 1.79 | 1.79% | 1.851 | 0.68 | 55.10 | 2.23 | 1.73 | 113 | 0.214 | 0.65 | 1.693 | 0.506 | | 0.42 | **0.58** | <= | 2.090 | 0.013 | 0.000 | 0.588 | 0.000 | 64.21 | 64.26 |
| 64.34 | 126.23 | 3.45 | 108.45 | 1.84 | 1.70% | 1.752 | 0.66 | 59.91 | 2.18 | 1.62 | 116 | 0.224 | 0.65 | 1.695 | 0.506 | | 0.44 | **0.61** | <= | 2.050 | 0.020 | 0.000 | 0.575 | 0.000 | 64.26 | 64.34 |
| 64.37 | 126.14 | 3.45 | 111.38 | 1.80 | 1.62% | 1.668 | 0.65 | 61.61 | 2.16 | 1.56 | 115 | 0.223 | 0.65 | 1.696 | 0.506 | | 0.44 | **0.61** | <= | 2.055 | 0.007 | 0.000 | 0.555 | 0.000 | 64.34 | 64.37 |
| 64.48 | 126.27 | 3.45 | 112.65 | 1.82 | 1.62% | 1.667 | 0.65 | 62.46 | 2.15 | 1.55 | 116 | 0.226 | 0.65 | 1.700 | 0.506 | | 0.45 | **0.61** | <= | 2.042 | 0.027 | 0.000 | 0.548 | 0.000 | 64.37 | 64.48 |
| 64.51 | 126.17 | 3.45 | 94.79 | 1.91 | 2.01% | 2.091 | 0.69 | 52.27 | 2.28 | 1.89 | 116 | 0.225 | 0.65 | 1.701 | 0.506 | | 0.44 | **0.61** | <= | 2.048 | 0.007 | 0.000 | 0.521 | 0.000 | 64.48 | 64.51 |
| 64.58 | 127.30 | 3.45 | 104.84 | 2.15 | 2.05% | 2.120 | 0.68 | 58.10 | 2.25 | 1.80 | 123 | 0.254 | 0.65 | 1.703 | 0.507 | | 0.50 | **0.69** | <= | 1.950 | 0.016 | 0.000 | 0.514 | 0.000 | 64.51 | 64.58 |
| 64.65 | 128.08 | 3.45 | 98.11 | 2.45 | 2.50% | 2.588 | 0.71 | 54.31 | 2.34 | 2.07 | 131 | 0.287 | 0.65 | 1.705 | 0.507 | | 0.57 | **0.78** | <= | 1.860 | 0.016 | 0.000 | 0.497 | 0.000 | 64.58 | 64.65 |
| 64.70 | 128.58 | 3.45 | 93.03 | 2.66 | 2.86% | 2.969 | 0.73 | 51.44 | 2.40 | 2.30 | 136 | 0.315 | 0.65 | 1.707 | 0.507 | | 0.62 | **0.86** | <= | 1.434 | 0.009 | 0.000 | 0.482 | 0.000 | 64.65 | 64.70 |
| 64.78 | 129.07 | 3.45 | 92.84 | 2.85 | 3.07% | 3.188 | 0.73 | 51.41 | 2.42 | 2.40 | 141 | 0.343 | 0.65 | 1.709 | 0.507 | | 0.68 | **0.93** | <= | 0.723 | 0.007 | 0.000 | 0.473 | 0.000 | 64.70 | 64.78 |
| 64.85 | 129.05 | 3.45 | 92.84 | 2.84 | 3.06% | 3.177 | 0.73 | 51.47 | 2.42 | 2.39 | 141 | 0.342 | 0.65 | 1.711 | 0.507 | | 0.67 | **0.93** | <= | 0.715 | 0.006 | 0.000 | 0.466 | 0.000 | 64.78 | 64.85 |
| 64.92 | 128.96 | 3.45 | 92.64 | 2.81 | 3.03% | 3.151 | 0.73 | 51.42 | 2.42 | 2.38 | 140 | 0.338 | 0.65 | 1.714 | 0.508 | | 0.67 | **0.92** | <= | 0.687 | 0.006 | 0.000 | 0.460 | 0.000 | 64.85 | 64.92 |
| 64.96 | 129.07 | 3.45 | 98.01 | 2.80 | 2.86% | 2.961 | 0.72 | 54.56 | 2.38 | 2.22 | 140 | 0.335 | 0.65 | 1.715 | 0.508 | | 0.66 | **0.91** | <= | 0.666 | 0.003 | 0.000 | 0.454 | 0.000 | 64.92 | 64.96 |
| 65.05 | 129.61 | 3.45 | 118.02 | 2.83 | 2.40% | 2.470 | 0.69 | 66.21 | 2.26 | 1.82 | 141 | 0.343 | 0.65 | 1.718 | 0.508 | | 0.67 | **0.93** | <= | 0.720 | 0.008 | 0.000 | 0.451 | 0.000 | 64.96 | 65.05 |
| 65.09 | 129.83 | 3.45 | 132.47 | 2.81 | 2.12% | 2.178 | 0.66 | 74.61 | 2.18 | 1.62 | 143 | 0.353 | 0.65 | 1.719 | 0.508 | | 0.69 | **0.96** | <= | 0.785 | 0.004 | 0.000 | 0.443 | 0.000 | 65.05 | 65.09 |
| 65.16 | 129.74 | 3.45 | 147.11 | 2.68 | 1.82% | 1.865 | 0.64 | 83.18 | 2.09 | 1.44 | 144 | 0.360 | 0.65 | 1.721 | 0.508 | | 0.71 | **0.97** | <= | 0.827 | 0.007 | 0.000 | 0.440 | 0.000 | 65.09 | 65.16 |
| 65.23 | 129.42 | 3.45 | 156.97 | 2.51 | 1.60% | 1.635 | 0.62 | 89.00 | 2.03 | 1.34 | 145 | 0.362 | 0.65 | 1.723 | 0.508 | | 0.71 | **0.98** | <= | 0.841 | 0.007 | 0.000 | 0.433 | 0.000 | 65.16 | 65.23 |
| 65.30 | 129.13 | 3.45 | 163.61 | 2.38 | 1.45% | 1.486 | 0.60 | 92.97 | 1.98 | 1.28 | 145 | 0.366 | 0.65 | 1.725 | 0.509 | | 0.72 | **0.99** | <= | 0.861 | 0.007 | 0.000 | 0.426 | 0.000 | 65.23 | 65.30 |
| 65.37 | 129.11 | 3.45 | 167.32 | 2.36 | 1.41% | 1.440 | 0.60 | 95.25 | 1.97 | 1.26 | 147 | 0.374 | 0.64 | 1.728 | 0.509 | | 0.74 | **1.01** | <= | 0.452 | 0.004 | 0.000 | 0.418 | 0.000 | 65.30 | 65.37 |
| 65.44 | 129.33 | 3.45 | 168.39 | 2.42 | 1.44% | 1.467 | 0.60 | 95.99 | 1.97 | 1.26 | 148 | 0.383 | 0.64 | 1.730 | 0.509 | | 0.75 | **1.04** | <= | 0.493 | 0.004 | 0.000 | 0.415 | 0.000 | 65.37 | 65.44 |
| 65.50 | 129.50 | 3.45 | 168.30 | 2.48 | 1.47% | 1.504 | 0.60 | 96.04 | 1.98 | 1.27 | 149 | 0.389 | 0.64 | 1.732 | 0.509 | | 0.76 | **1.05** | <= | 0.519 | 0.004 | 0.000 | 0.410 | 0.000 | 65.44 | 65.50 |
| 65.59 | 129.48 | 3.45 | 166.15 | 2.48 | 1.49% | 1.524 | 0.60 | 94.94 | 1.99 | 1.28 | 148 | 0.384 | 0.64 | 1.734 | 0.509 | | 0.75 | **1.04** | <= | 0.496 | 0.005 | 0.000 | 0.407 | 0.000 | 65.50 | 65.59 |
| 65.63 | 129.43 | 3.45 | 164.29 | 2.48 | 1.51% | 1.542 | 0.61 | 93.93 | 1.99 | 1.29 | 148 | 0.380 | 0.64 | 1.736 | 0.510 | | 0.75 | **1.03** | <= | 0.474 | 0.002 | 0.000 | 0.401 | 0.000 | 65.59 | 65.63 |
| 65.70 | 129.35 | 3.45 | 162.63 | 2.46 | 1.51% | 1.545 | 0.61 | 93.08 | 2.00 | 1.30 | 147 | 0.374 | 0.64 | 1.738 | 0.510 | | 0.73 | **1.01** | <= | 0.447 | 0.004 | 0.000 | 0.399 | 0.000 | 65.63 | 65.70 |
| 65.76 | 129.34 | 3.45 | 161.56 | 2.46 | 1.52% | 1.556 | 0.61 | 92.55 | 2.00 | 1.30 | 146 | 0.372 | 0.64 | 1.740 | 0.510 | | 0.73 | **1.00** | <= | 0.436 | 0.003 | 0.000 | 0.395 | 0.000 | 65.70 | 65.76 |
| 65.82 | 129.33 | 3.45 | 161.51 | 2.46 | 1.52% | 1.556 | 0.61 | 92.62 | 2.00 | 1.30 | 146 | 0.372 | 0.64 | 1.742 | 0.510 | | 0.73 | **1.00** | <= | 0.437 | 0.003 | 0.000 | 0.392 | 0.000 | 65.76 | 65.82 |
| 65.88 | 129.30 | 3.45 | 161.46 | 2.45 | 1.52% | 1.551 | 0.61 | 92.70 | 2.00 | 1.30 | 146 | 0.371 | 0.64 | 1.743 | 0.510 | | 0.73 | **1.00** | <= | 0.433 | 0.003 | 0.000 | 0.389 | 0.000 | 65.82 | 65.88 |
| 65.97 | 129.30 | 3.45 | 166.15 | 2.42 | 1.46% | 1.487 | 0.60 | 95.61 | 1.98 | 1.27 | 148 | 0.381 | 0.64 | 1.746 | 0.510 | | 0.75 | **1.03** | <= | 0.478 | 0.005 | 0.000 | 0.386 | 0.000 | 65.88 | 65.97 |
| 66.03 | 129.23 | 3.45 | 170.35 | 2.38 | 1.40% | 1.426 | 0.59 | 98.18 | 1.96 | 1.25 | 149 | 0.390 | 0.64 | 1.748 | 0.511 | | 0.76 | **1.05** | <= | 0.515 | 0.004 | 0.000 | 0.381 | 0.000 | 65.97 | 66.03 |
| 66.08 | 129.16 | 3.45 | 172.10 | 2.35 | 1.37% | 1.393 | 0.59 | 99.30 | 1.94 | 1.23 | 150 | 0.392 | 0.64 | 1.750 | 0.511 | | 0.77 | **1.06** | <= | 0.526 | 0.003 | 0.000 | 0.377 | 0.000 | 66.03 | 66.08 |
| 66.14 | 129.08 | 3.45 | 176.10 | 2.31 | 1.31% | 1.338 | 0.59 | 101.77 | 1.92 | 1.21 | 151 | 0.401 | 0.64 | 1.752 | 0.511 | | 0.78 | **1.08** | <= | 0.564 | 0.004 | 0.000 | 0.374 | 0.000 | 66.08 | 66.14 |
| 66.22 | 129.14 | 3.45 | 178.06 | 2.31 | 1.30% | 1.323 | 0.58 | 103.08 | 1.92 | 1.20 | 152 | 0.408 | 0.64 | 1.754 | 0.511 | | 0.80 | **1.10** | <= | 0.592 | 0.006 | 0.000 | 0.370 | 0.000 | 66.14 | 66.22 |
| 66.30 | 127.73 | 3.45 | 173.66 | 1.93 | 1.11% | 1.134 | 0.57 | 100.63 | 1.88 | 1.17 | 145 | 0.362 | 0.64 | 1.757 | 0.511 | | 0.71 | **0.97** | <= | 0.822 | 0.008 | 0.000 | 0.364 | 0.000 | 66.22 | 66.30 |
| 66.34 | 126.56 | 3.45 | 167.12 | 1.66 | 0.99% | 1.014 | 0.56 | 96.83 | 1.86 | 1.15 | 137 | 0.322 | 0.64 | 1.758 | 0.512 | | 0.63 | **0.87** | <= | 1.169 | 0.006 | 0.000 | 0.356 | 0.000 | 66.30 | 66.34 |
| 66.43 | 128.77 | 3.45 | 144.96 | 2.36 | 1.63% | 1.668 | 0.63 | 83.86 | 2.06 | 1.38 | 139 | 0.330 | 0.64 | 1.761 | 0.512 | | 0.64 | **0.89** | <= | 1.217 | 0.013 | 0.000 | 0.351 | 0.000 | 66.34 | 66.43 |
| 66.48 | 129.62 | 3.45 | 120.27 | 2.82 | 2.34% | 2.414 | 0.68 | 69.29 | 2.24 | 1.77 | 143 | 0.351 | 0.64 | 1.762 | 0.512 | | 0.69 | **0.94** | <= | 0.751 | 0.005 | 0.000 | 0.337 | 0.000 | 66.43 | 66.48 |
| 66.55 | 129.94 | 3.45 | 94.49 | 3.19 | 3.38% | 3.504 | 0.74 | 54.07 | 2.44 | 2.47 | 152 | 0.405 | 0.63 | 1.764 | 0.512 | | 0.79 | **1.09** | <= | 0.575 | 0.005 | 0.000 | 0.333 | 0.000 | 66.48 | 66.55 |
| 66.62 | 129.10 | 3.45 | 74.09 | 3.08 | 4.16% | 4.360 | 0.78 | 42.01 | 2.59 | 3.26 | 152 | 0.406 | 0.63 | 1.767 | 0.512 | | 0.79 | **1.09** | <= | 0.580 | 0.005 | 0.000 | 0.328 | 0.000 | 66.55 | 66.62 |
| 66.69 | 128.05 | 3.45 | 61.21 | 2.85 | 4.66% | 4.934 | 0.82 | 34.40 | 2.69 | 3.95 | 148 | 0.383 | 0.63 | 1.769 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 66.75 | 127.81 | 3.45 | 59.94 | 2.77 | 4.62% | 4.903 | 0.82 | 33.68 | 2.70 | 3.98 | 146 | 0.371 | 0.63 | 1.771 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 66.80 | 127.85 | 3.45 | 55.94 | 2.86 | 5.11% | 5.448 | 0.83 | 31.32 | 2.76 | 4.41 | 150 | 0.392 | 0.63 | 1.772 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 66.89 | 128.85 | 3.45 | 56.03 | 3.27 | 5.84% | 6.219 | 0.85 | 31.43 | 2.80 | 4.76 | 161 | 0.467 | 0.63 | 1.775 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 66.93 | 129.44 | 3.45 | 56.13 | 3.54 | 6.31% | 6.720 | 0.85 | 31.51 | 2.82 | 4.97 | 168 | 0.520 | 0.63 | 1.776 | 0.513 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.02 | 131.22 | 3.45 | 78.58 | 4.04 | 5.14% | 5.377 | 0.80 | 45.01 | 2.64 | 3.56 | 176 | 0.591 | 0.63 | 1.779 | 0.514 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.07 | 131.86 | 3.45 | 86.98 | 4.26 | 4.90% | 5.100 | 0.78 | 50.09 | 2.59 | 3.25 | 180 | 0.625 | 0.63 | 1.781 | 0.514 | | 1.22 | **1.67** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.14 | 132.70 | 3.45 | 97.81 | 4.60 | 4.70% | 4.875 | 0.77 | 56.66 | 2.54 | 2.95 | 187 | 0.684 | 0.63 | 1.783 | 0.514 | | 1.33 | **1.83** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.20 | 133.18 | 3.45 | 100.45 | 4.87 | 4.85% | 5.021 | 0.77 | 58.31 | 2.54 | 2.96 | 192 | 0.743 | 0.63 | 1.785 | 0.514 | | 1.45 | **1.99** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.27 | 133.54 | 3.45 | 101.13 | 5.10 | 5.04% | 5.221 | 0.77 | 58.80 | 2.55 | 3.02 | 198 | 0.799 | 0.63 | 1.787 | 0.514 | | 1.55 | **2.14** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.34 | 133.82 | 3.45 | 101.23 | 5.30 | 5.24% | 5.420 | 0.78 | 58.94 | 2.56 | 3.09 | 202 | 0.850 | 0.63 | 1.789 | 0.515 | | 1.65 | **2.27** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.40 | 133.99 | 3.45 | 100.25 | 5.44 | 5.43% | 5.620 | 0.78 | 58.41 | 2.58 | 3.18 | 206 | 0.889 | 0.63 | 1.791 | 0.515 | | 1.73 | **2.38** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.47 | 134.16 | 3.45 | 99.77 | 5.57 | 5.58% | 5.783 | 0.78 | 58.20 | 2.59 | 3.24 | 209 | 0.926 | 0.63 | 1.793 | 0.515 | | 1.80 | **2.47** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.55 | 134.19 | 3.45 | 98.40 | 5.62 | 5.71% | 5.919 | 0.79 | 57.46 | 2.60 | 3.32 | 210 | 0.944 | 0.63 | 1.796 | 0.515 | | 1.83 | **2.52** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.59 | 134.15 | 3.45 | 96.94 | 5.62 | 5.80% | 6.011 | 0.79 | 56.62 | 2.61 | 3.38 | 211 | 0.948 | 0.63 | 1.797 | 0.515 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.65 | 134.17 | 3.45 | 98.50 | 5.60 | 5.69% | 5.892 | 0.79 | 57.63 | 2.60 | 3.30 | 210 | 0.941 | 0.63 | 1.799 | 0.516 | | 1.82 | **2.51** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.74 | 134.04 | 3.45 | 97.13 | 5.53 | 5.69% | 5.903 | 0.79 | 56.89 | 2.60 | 3.33 | 209 | 0.926 | 0.63 | 1.801 | 0.516 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.78 | 134.02 | 3.45 | 98.60 | 5.49 | 5.57% | 5.770 | 0.78 | 57.83 | 2.59 | 3.25 | 208 | 0.913 | 0.62 | 1.803 | 0.516 | | 1.77 | **2.44** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.85 | 133.98 | 3.45 | 102.50 | 5.39 | 5.26% | 5.442 | 0.77 | 60.28 | 2.56 | 3.07 | 205 | 0.880 | 0.62 | 1.805 | 0.516 | | 1.70 | **2.34** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.93 | 133.92 | 3.45 | 105.33 | 5.30 | 5.03% | 5.202 | 0.77 | 62.10 | 2.53 | 2.93 | 202 | 0.852 | 0.62 | 1.807 | 0.516 | | 1.65 | **2.27** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 67.99 | 133.87 | 3.45 | 107.58 | 5.22 | 4.85% | 5.013 | 0.76 | 63.54 | 2.51 | 2.83 | 200 | 0.829 | 0.62 | 1.809 | 0.517 | | 1.60 | **2.21** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 68.05 | 133.70 | 3.45 | 109.82 | 5.07 | 4.62% | 4.766 | 0.75 | 64.98 | 2.49 | 2.71 | 197 | 0.789 | 0.62 | 1.811 | 0.517 | | 1.53 | **2.10** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 68.12 | 133.52 | 3.45 | 115.29 | 4.87 | 4.22% | 4.354 | 0.74 | 68.42 | 2.44 | 2.49 | 192 | 0.736 | 0.62 | 1.813 | 0.517 | | 1.42 | **1.96** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 68.18 | 133.27 | 3.45 | 117.24 | 4.68 | 3.99% | 4.113 | 0.73 | 69.69 | 2.42 | 2.38 | 187 | 0.692 | 0.62 | 1.815 | 0.517 | | 1.34 | **1.84** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 68.25 | 132.50 | 3.45 | 124.07 | 4.13 | 3.33% | 3.424 | 0.71 | 73.97 | 2.34 | 2.07 | 175 | 0.577 | 0.62 | 1.817 | 0.517 | | 1.12 | **1.54** | | 0.000 | 0.000 | 0.000 | 0.323 | 0.000 | | |
| 68.31 | 128.37 | 3.45 | 133.05 | 2.30 | 1.73% | 1.775 | 0.64 | 79.57 | 2.10 | 1.45 | 136 | 0.314 | 0.62 | 1.819 | 0.518 | | 0.61 | **0.83** | <= | 1.088 | 0.008 | 0.000 | 0.323 | 0.000 | 68.25 | 68.31 |
| 68.38 | 128.34 | 3.45 | 147.31 | 2.21 | 1.50% | 1.536 | 0.61 | 88.44 | 2.02 | 1.33 | 139 | 0.332 | 0.62 | 1.821 | 0.518 | | 0.64 | **0.88** | <= | 1.195 | 0.010 | 0.000 | 0.315 | 0.000 | 68.31 | 68.38 |
| 68.44 | 128.70 | 3.45 | 154.82 | 2.28 | 1.47% | 1.506 | 0.61 | 93.17 | 2.00 | 1.29 | 144 | 0.356 | 0.62 | 1.823 | 0.518 | | 0.69 | **0.95** | <= | 0.755 | 0.005 | 0.000 | 0.305 | 0.000 | 68.38 | 68.44 |
| 68.52 | 128.77 | 3.45 | 171.81 | 2.23 | 1.30% | 1.325 | 0.58 | 103.78 | 1.92 | 1.21 | 151 | 0.400 | 0.62 | 1.826 | 0.518 | | 0.77 | **1.06** | <= | 0.531 | 0.005 | 0.000 | 0.300 | 0.000 | 68.44 | 68.52 |
| 68.59 | 129.28 | 3.45 | 197.78 | 2.28 | 1.15% | 1.173 | 0.56 | 119.95 | 1.84 | 1.13 | 165 | 0.500 | 0.62 | 1.828 | 0.518 | | 0.96 | **1.33** | | 0.000 | 0.000 | 0.000 | 0.295 | 0.000 | | |
| 68.66 | 128.94 | 3.45 | 203.73 | 2.16 | 1.06% | 1.078 | 0.55 | 123.79 | 1.80 | 1.11 | 167 | 0.514 | 0.62 | 1.830 | 0.519 | | 0.99 | **1.36** | | 0.000 | 0.000 | 0.000 | 0.295 | 0.000 | | |
| 68.71 | 128.23 | 3.45 | 207.05 | 1.95 | 0.94% | 0.958 | 0.53 | 125.97 | 1.76 | 1.08 | 166 | 0.508 | 0.62 | 1.832 | 0.519 | | 0.98 | **1.35** | | 0.000 | 0.000 | 0.000 | 0.295 | 0.000 | | |
| 68.81 | 126.63 | 3.45 | 201.09 | 1.58 | 0.79% | 0.799 | 0.52 | 122.52 | 1.71 | 1.04 | 158 | 0.447 | 0.62 | 1.835 | 0.519 | | 0.86 | **1.18** | <= | 0.389 | 0.005 | 0.000 | 0.295 | 0.000 | 68.71 | 68.81 |
| 68.85 | 126.02 | 3.45 | 196.12 | 1.46 | 0.74% | 0.758 | 0.52 | 119.53 | 1.70 | 1.04 | 153 | 0.416 | 0.62 | 1.836 | 0.519 | | 0.80 | **1.10** | <= | 0.300 | 0.001 | 0.000 | 0.290 | 0.000 | 68.81 | 68.85 |
| 68.91 | 125.28 | 3.45 | 188.31 | 1.34 | 0.71% | 0.725 | 0.52 | 114.82 | 1.70 | 1.04 | 147 | 0.378 | 0.62 | 1.838 | 0.519 | | 0.73 | **1.00** | <= | 0.431 | 0.003 | 0.000 | 0.289 | 0.000 | 68.85 | 68.91 |
| 68.97 | 124.93 | 3.45 | 182.94 | 1.29 | 0.71% | 0.719 | 0.52 | 111.61 | 1.71 | 1.05 | 144 | 0.357 | 0.62 | 1.840 | 0.520 | | 0.69 | **0.94** | <= | 0.750 | 0.005 | 0.000 | 0.286 | 0.000 | 68.91 | 68.97 |
| 69.04 | 124.69 | 3.45 | 173.86 | 1.27 | 0.73% | 0.745 | 0.53 | 106.11 | 1.74 | 1.07 | 139 | 0.328 | 0.61 | 1.842 | 0.520 | | 0.63 | **0.87** | <= | 1.162 | 0.010 | 0.000 | 0.280 | 0.000 | 68.97 | 69.04 |
| 69.11 | 124.54 | 3.45 | 163.32 | 1.27 | 0.78% | 0.794 | 0.54 | 99.68 | 1.78 | 1.09 | 133 | 0.298 | 0.61 | 1.844 | 0.520 | | 0.57 | **0.79** | <= | 1.598 | 0.013 | 0.000 | 0.271 | 0.000 | 69.04 | 69.11 |
| 69.17 | 124.33 | 3.45 | 154.73 | 1.26 | 0.81% | 0.833 | 0.55 | 94.44 | 1.81 | 1.12 | 128 | 0.275 | 0.61 | 1.846 | 0.520 | | 0.53 | **0.73** | <= | 1.502 | 0.011 | 0.000 | 0.257 | 0.000 | 69.11 | 69.17 |
| 69.23 | 123.91 | 3.45 | 146.23 | 1.21 | 0.83% | 0.847 | 0.56 | 89.23 | 1.84 | 1.14 | 123 | 0.251 | 0.61 | 1.848 | 0.521 | | 0.48 | **0.66** | <= | 1.957 | 0.014 | 0.000 | 0.246 | 0.000 | 69.17 | 69.23 |
| 69.30 | 124.17 | 3.45 | 132.47 | 1.30 | 0.98% | 1.008 | 0.59 | 80.74 | 1.92 | 1.21 | 117 | 0.229 | 0.61 | 1.850 | 0.521 | | 0.44 | **0.61** | <= | 2.032 | 0.017 | 0.000 | 0.232 | 0.000 | 69.23 | 69.30 |
| 69.37 | 124.61 | 3.45 | 123.59 | 1.41 | 1.14% | 1.174 | 0.61 | 75.29 | 1.99 | 1.29 | 115 | 0.222 | 0.61 | 1.852 | 0.521 | | 0.43 | **0.59** | <= | 2.059 | 0.017 | 0.000 | 0.215 | 0.000 | 69.30 | 69.37 |
| 69.42 | 124.85 | 3.45 | 115.97 | 1.49 | 1.28% | 1.324 | 0.62 | 70.58 | 2.05 | 1.37 | 114 | 0.217 | 0.61 | 1.854 | 0.521 | | 0.42 | **0.57** | <= | 2.078 | 0.012 | 0.000 | 0.198 | 0.000 | 69.37 | 69.42 |
| 69.52 | 125.06 | 3.45 | 102.01 | 1.60 | 1.57% | 1.623 | 0.66 | 61.95 | 2.16 | 1.57 | 112 | 0.212 | 0.61 | 1.857 | 0.521 | | 0.41 | **0.56** | <= | 2.099 | 0.025 | 0.000 | 0.185 | 0.000 | 69.42 | 69.52 |
| 69.56 | 125.21 | 3.45 | 98.79 | 1.65 | 1.67% | 1.731 | 0.66 | 59.97 | 2.19 | 1.64 | 113 | 0.215 | 0.61 | 1.858 | 0.522 | | 0.41 | **0.57** | <= | 2.088 | 0.010 | 0.000 | 0.160 | 0.000 | 69.52 | 69.56 |
| 69.65 | 126.66 | 3.45 | 81.80 | 2.14 | 2.62% | 2.731 | 0.73 | 49.37 | 2.39 | 2.28 | 126 | 0.268 | 0.61 | 1.861 | 0.522 | | 0.51 | **0.71** | <= | 1.909 | 0.021 | 0.000 | 0.150 | 0.000 | 69.56 | 69.65 |
| 69.69 | 126.70 | 3.45 | 71.07 | 2.25 | 3.17% | 3.327 | 0.76 | 42.64 | 2.50 | 2.78 | 131 | 0.290 | 0.61 | 1.862 | 0.522 | | 0.56 | **0.76** | <= | 1.853 | 0.009 | 0.000 | 0.130 | 0.000 | 69.65 | 69.69 |
| 69.77 | 126.56 | 3.45 | 58.57 | 2.36 | 4.03% | 4.281 | 0.80 | 34.82 | 2.65 | 3.63 | 137 | 0.321 | 0.61 | 1.865 | 0.522 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 0.121 | 0.000 | | |
| 69.82 | 87.42 | 3.45 | 51.74 | 0.00 | 0.00% | 0.002 | 0.74 | 30.53 | 2.43 | 2.43 | 83 | 0.133 | 0.61 | 1.866 | 0.522 | | 0.25 | **0.35** | <= | 2.684 | 0.016 | 0.000 | 0.121 | 0.000 | 69.77 | 69.82 |
| 69.92 | 87.42 | 3.45 | 41.10 | 0.00 | 0.00% | 0.003 | 0.74 | 23.85 | 2.45 | 2.55 | 84 | 0.135 | 0.61 | 1.870 | 0.523 | | 0.26 | **0.36** | <= | 2.652 | 0.032 | 0.000 | 0.105 | 0.000 | 69.82 | 69.92 |
| 69.97 | 87.42 | 3.45 | 36.80 | 0.00 | 0.00% | 0.003 | 0.75 | 21.15 | 2.47 | 2.63 | 87 | 0.141 | 0.61 | 1.871 | 0.523 | | 0.27 | **0.37** | <= | 2.589 | 0.016 | 0.000 | 0.073 | 0.000 | 69.92 | 69.97 |
| 70.02 | 87.42 | 3.45 | 34.07 | 0.00 | 0.00% | 0.003 | 0.75 | 19.44 | 2.48 | 2.69 | 89 | 0.145 | 0.61 | 1.873 | 0.523 | | 0.28 | **0.38** | <= | 2.541 | 0.015 | 0.000 | 0.057 | 0.000 | 69.97 | 70.02 |
| 70.10 | 87.42 | 3.45 | 33.97 | 0.00 | 0.00% | 0.003 | 0.75 | 19.40 | 2.48 | 2.69 | 89 | 0.145 | 0.61 | 1.875 | 0.523 | | 0.28 | **0.38** | <= | 2.541 | 0.024 | 0.000 | 0.042 | 0.000 | 70.02 | 70.10 |
| 70.15 | 87.42 | 3.11 | 40.51 | 0.00 | 0.00% | 0.003 | 0.72 | 30.38 | 2.39 | 2.26 | 75 | 0.119 | 0.61 | 1.877 | 0.602 | | 0.20 | **0.27** | <= | 2.920 | 0.018 | 0.000 | 0.018 | 0.000 | 70.10 | 70.15 |

| | | | |
|---|---|---|---|
| Total Wet Seismic Settlement (in) | 5.75 | Total Wet Seismic Settlement within 50' Depth (in) | 3.70 |
| Total Dry Seismic Settlement (in) | 1.70 | Total Post-Grading Dry Seismic Settlement (in) * | 0.00 |

* Upon implementation of remedial grading recommended in Section 6.2.3 of the Soils Report.


(a) FOS Against Liquefaction vs. Depth at CPT-3
FOS Against Liquefaction
0.0
0.5
1.0
1.3
1.5
2.0
2.5
3.0
Depth (ft)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
"Dry" Seismic Settlement
HHGWL @ 10'
Liquefaction-Prone w/ "Wet" Seismic Settlement
Denote current ground condition
Denote post-ground modification condition
* Soil strata that are below GWL & w/ FOS < 1.3 are classified as liquefaction-prone (SP117A).


(b) Seismic Settlement vs. Depth at CPT-3
Seismic Settlement (in)
0.0
1.0
2.0
3.0
4.0
5.0
6.0
Depth (ft)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
HHGWL @ 10'
Wet Seismic Settlement
Accu. Wet Seimsic Settlement
Dry Seismic Settlement
Accu. Dry Seismic Settlement
PostGM_AccuWetSeismicSettlement
PostGM_AccuDrySeismicSettlement

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-4

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**Analysis Scenario:** MCE (2% exceedance probability in 50 years)

D(ft) 1 | **MAGNITUDE:** 6.62 | **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet | **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | | | | | | | | | | | | | | | | | 5.513 | 0.497 | | |
| 0.08 | 107.67 | 0.00 | 12.70 | 0.30 | 2.36% | 2.363 | 0.58 | 2947.83 | 1.89 | 1.18 | 236 | 1.304 | 1.00 | 0.000 | 0.394 | | 3.31 | 4.56 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.13 | 109.47 | 0.01 | 17.29 | 0.34 | 1.97% | 1.967 | 0.56 | 2453.73 | 1.84 | 1.13 | 227 | 1.166 | 1.00 | 0.000 | 0.394 | | 2.96 | 4.07 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.22 | 112.33 | 0.01 | 24.91 | 0.45 | 1.81% | 1.807 | 0.55 | 2057.95 | 1.80 | 1.11 | 222 | 1.091 | 1.00 | 0.000 | 0.394 | | 2.77 | 3.81 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.27 | 113.36 | 0.01 | 29.98 | 0.49 | 1.63% | 1.635 | 0.54 | 2006.71 | 1.76 | 1.08 | 216 | 1.015 | 1.00 | 0.000 | 0.394 | | 2.58 | 3.55 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.34 | 114.58 | 0.02 | 32.82 | 0.56 | 1.71% | 1.707 | 0.54 | 1731.59 | 1.78 | 1.09 | 218 | 1.050 | 1.00 | 0.000 | 0.394 | | 2.67 | 3.67 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.40 | 115.28 | 0.02 | 33.79 | 0.61 | 1.81% | 1.806 | 0.55 | 1507.41 | 1.81 | 1.11 | 222 | 1.103 | 1.00 | 0.000 | 0.394 | | 2.80 | 3.86 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.49 | 116.08 | 0.03 | 33.70 | 0.68 | 2.02% | 2.019 | 0.57 | 1218.92 | 1.86 | 1.15 | 231 | 1.226 | 1.00 | 0.000 | 0.393 | | 3.12 | 4.29 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.53 | 116.61 | 0.03 | 33.60 | 0.73 | 2.17% | 2.175 | 0.58 | 1120.61 | 1.89 | 1.18 | 236 | 1.308 | 1.00 | 0.000 | 0.393 | | 3.32 | 4.57 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.61 | 117.14 | 0.03 | 33.31 | 0.79 | 2.37% | 2.374 | 0.59 | 960.54 | 1.94 | 1.22 | 245 | 1.445 | 1.00 | 0.000 | 0.393 | | 3.67 | 5.06 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.66 | 117.32 | 0.04 | 32.82 | 0.81 | 2.47% | 2.471 | 0.60 | 872.44 | 1.96 | 1.25 | 250 | 1.535 | 1.00 | 0.000 | 0.393 | | 3.90 | 5.37 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.72 | 117.54 | 0.04 | 30.96 | 0.85 | 2.75% | 2.749 | 0.61 | 752.25 | 2.01 | 1.32 | 263 | 1.778 | 1.00 | 0.000 | 0.393 | | 4.52 | 6.22 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.80 | 118.27 | 0.05 | 30.96 | 0.94 | 3.04% | 3.041 | 0.62 | 674.50 | 2.06 | 1.38 | 276 | 2.031 | 1.00 | 0.000 | 0.393 | | 5.17 | 7.11 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.89 | 116.28 | 0.05 | 32.04 | 0.71 | 2.22% | 2.220 | 0.60 | 626.43 | 1.97 | 1.26 | 237 | 1.318 | 1.00 | 0.000 | 0.393 | | 3.35 | 4.61 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 0.93 | 115.19 | 0.05 | 32.43 | 0.61 | 1.88% | 1.884 | 0.59 | 606.66 | 1.93 | 1.22 | 217 | 1.027 | 1.00 | 0.000 | 0.393 | | 2.61 | 3.60 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.01 | 116.01 | 0.06 | 34.48 | 0.67 | 1.94% | 1.946 | 0.59 | 593.39 | 1.94 | 1.22 | 222 | 1.094 | 1.00 | 0.000 | 0.393 | | 2.79 | 3.83 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.07 | 116.52 | 0.06 | 33.40 | 0.72 | 2.16% | 2.160 | 0.60 | 542.05 | 1.98 | 1.27 | 224 | 1.124 | 1.00 | 0.000 | 0.393 | | 2.86 | 3.94 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.12 | 116.88 | 0.06 | 31.94 | 0.77 | 2.41% | 2.416 | 0.62 | 494.76 | 2.03 | 1.34 | 227 | 1.170 | 1.00 | 0.000 | 0.393 | | 2.98 | 4.10 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.19 | 116.70 | 0.07 | 26.27 | 0.80 | 3.05% | 3.053 | 0.65 | 382.44 | 2.14 | 1.54 | 228 | 1.182 | 1.00 | 0.000 | 0.393 | | 3.01 | 4.14 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.27 | 117.13 | 0.07 | 29.20 | 0.82 | 2.81% | 2.815 | 0.64 | 397.93 | 2.11 | 1.47 | 225 | 1.135 | 1.00 | 0.000 | 0.393 | | 2.89 | 3.98 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.33 | 117.32 | 0.08 | 29.20 | 0.84 | 2.88% | 2.884 | 0.64 | 379.62 | 2.12 | 1.49 | 224 | 1.127 | 1.00 | 0.000 | 0.393 | | 2.87 | 3.95 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.42 | 117.63 | 0.08 | 29.50 | 0.88 | 2.98% | 2.991 | 0.65 | 358.71 | 2.14 | 1.53 | 225 | 1.139 | 1.00 | 0.000 | 0.393 | | 2.90 | 3.99 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.45 | 117.47 | 0.08 | 29.40 | 0.86 | 2.93% | 2.934 | 0.65 | 349.95 | 2.14 | 1.52 | 220 | 1.075 | 1.00 | 0.000 | 0.393 | | 2.74 | 3.77 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.52 | 117.22 | 0.09 | 31.06 | 0.81 | 2.61% | 2.615 | 0.64 | 352.46 | 2.10 | 1.45 | 209 | 0.928 | 1.00 | 0.000 | 0.392 | | 2.36 | 3.25 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.60 | 116.42 | 0.09 | 33.60 | 0.71 | 2.11% | 2.119 | 0.62 | 362.12 | 2.03 | 1.34 | 192 | 0.738 | 1.00 | 0.000 | 0.392 | | 1.88 | 2.59 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.64 | 116.04 | 0.09 | 35.36 | 0.66 | 1.87% | 1.872 | 0.60 | 371.79 | 1.99 | 1.28 | 185 | 0.667 | 1.00 | 0.000 | 0.392 | | 1.70 | 2.34 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.72 | 115.16 | 0.10 | 38.97 | 0.57 | 1.46% | 1.466 | 0.58 | 390.82 | 1.91 | 1.19 | 174 | 0.569 | 1.00 | 0.000 | 0.392 | | 1.45 | 2.00 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.77 | 114.62 | 0.10 | 43.76 | 0.51 | 1.17% | 1.168 | 0.55 | 426.66 | 1.82 | 1.12 | 171 | 0.541 | 1.00 | 0.000 | 0.392 | | 1.38 | 1.90 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.86 | 113.21 | 0.11 | 49.52 | 0.40 | 0.81% | 0.810 | 0.52 | 460.00 | 1.71 | 1.04 | 161 | 0.470 | 1.00 | 0.000 | 0.392 | | 1.20 | 1.65 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.91 | 112.47 | 0.11 | 52.84 | 0.36 | 0.68% | 0.683 | 0.50 | 478.36 | 1.65 | 1.01 | 158 | 0.447 | 1.00 | 0.000 | 0.392 | | 1.14 | 1.57 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 1.99 | 111.98 | 0.11 | 56.45 | 0.33 | 0.58% | 0.586 | 0.50 | 491.11 | 1.60 | 1.00 | 163 | 0.484 | 1.00 | 0.000 | 0.392 | | 1.23 | 1.70 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 2.04 | 111.88 | 0.12 | 58.41 | 0.32 | 0.55% | 0.549 | 0.50 | 496.08 | 1.57 | 1.00 | 167 | 0.511 | 1.00 | 0.000 | 0.392 | | 1.30 | 1.79 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 2.12 | 111.96 | 0.12 | 60.46 | 0.32 | 0.53% | 0.530 | 0.50 | 494.64 | 1.56 | 1.00 | 169 | 0.532 | 0.99 | 0.000 | 0.392 | | 1.36 | 1.87 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 2.17 | 111.99 | 0.12 | 61.14 | 0.32 | 0.52% | 0.524 | 0.50 | 488.97 | 1.56 | 1.00 | 169 | 0.532 | 0.99 | 0.000 | 0.392 | | 1.36 | 1.87 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 2.27 | 112.02 | 0.13 | 61.34 | 0.32 | 0.52% | 0.523 | 0.50 | 469.45 | 1.56 | 1.00 | 166 | 0.507 | 0.99 | 0.000 | 0.392 | | 1.29 | 1.78 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 2.31 | 112.04 | 0.13 | 61.14 | 0.32 | 0.52% | 0.525 | 0.50 | 460.00 | 1.57 | 1.00 | 164 | 0.492 | 0.99 | 0.000 | 0.392 | | 1.26 | 1.73 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 2.37 | 112.17 | 0.14 | 59.68 | 0.33 | 0.55% | 0.554 | 0.50 | 437.85 | 1.59 | 1.00 | 158 | 0.449 | 0.99 | 0.000 | 0.392 | | 1.15 | 1.58 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 2.44 | 112.17 | 0.14 | 57.53 | 0.33 | 0.57% | 0.575 | 0.50 | 410.17 | 1.62 | 1.00 | 150 | 0.397 | 0.99 | 0.000 | 0.392 | | 1.01 | 1.39 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.497 | | |
| 2.49 | 112.12 | 0.14 | 54.69 | 0.34 | 0.62% | 0.623 | 0.51 | 382.20 | 1.66 | 1.01 | 145 | 0.362 | 0.99 | 0.000 | 0.392 | | 0.93 | 1.27 | <= | 0.284 | 0.000 | 0.002 | 5.513 | 0.497 | | |
| 2.58 | 111.88 | 0.15 | 50.89 | 0.33 | 0.65% | 0.650 | 0.52 | 343.42 | 1.70 | 1.03 | 138 | 0.326 | 0.99 | 0.000 | 0.391 | | 0.83 | 1.15 | <= | 0.377 | 0.000 | 0.004 | 5.513 | 0.495 | | |
| 2.66 | 111.50 | 0.15 | 46.10 | 0.33 | 0.72% | 0.718 | 0.53 | 301.86 | 1.75 | 1.07 | 132 | 0.293 | 0.99 | 0.000 | 0.391 | | 0.75 | 1.03 | <= | 0.528 | 0.000 | 0.005 | 5.513 | 0.491 | | |
| 2.71 | 111.19 | 0.15 | 42.88 | 0.32 | 0.75% | 0.749 | 0.54 | 275.65 | 1.78 | 1.09 | 126 | 0.268 | 0.99 | 0.000 | 0.391 | | 0.68 | 0.94 | <= | 0.866 | 0.000 | 0.005 | 5.513 | 0.486 | | |
| 2.76 | 110.82 | 0.16 | 39.65 | 0.31 | 0.78% | 0.785 | 0.55 | 250.32 | 1.82 | 1.12 | 121 | 0.244 | 0.99 | 0.000 | 0.391 | | 0.62 | 0.86 | <= | 1.390 | 0.000 | 0.008 | 5.513 | 0.481 | | |
| 2.84 | 110.04 | 0.16 | 35.26 | 0.29 | 0.82% | 0.826 | 0.57 | 216.43 | 1.87 | 1.16 | 113 | 0.213 | 0.99 | 0.000 | 0.391 | | 0.54 | 0.75 | <= | 1.903 | 0.000 | 0.018 | 5.513 | 0.473 | | |
| 2.89 | 109.54 | 0.16 | 32.62 | 0.28 | 0.86% | 0.863 | 0.58 | 196.81 | 1.90 | 1.19 | 108 | 0.197 | 0.99 | 0.000 | 0.391 | | 0.50 | 0.69 | <= | 2.166 | 0.000 | 0.013 | 5.513 | 0.454 | | |
| 2.96 | 108.63 | 0.17 | 29.30 | 0.26 | 0.89% | 0.893 | 0.59 | 172.67 | 1.95 | 1.24 | 102 | 0.178 | 0.99 | 0.000 | 0.391 | | 0.45 | 0.62 | <= | 2.277 | 0.000 | 0.019 | 5.513 | 0.441 | | |
| 3.02 | 107.94 | 0.17 | 27.15 | 0.24 | 0.88% | 0.890 | 0.60 | 156.90 | 1.97 | 1.26 | 96 | 0.164 | 0.99 | 0.000 | 0.391 | | 0.42 | 0.58 | <= | 2.374 | 0.000 | 0.017 | 5.513 | 0.422 | | |
| 3.11 | 107.45 | 0.18 | 25.98 | 0.23 | 0.89% | 0.891 | 0.61 | 145.96 | 1.99 | 1.29 | 93 | 0.156 | 0.99 | 0.000 | 0.391 | | 0.40 | 0.55 | <= | 2.439 | 0.000 | 0.026 | 5.513 | 0.405 | | |
| 3.16 | 107.30 | 0.18 | 25.39 | 0.22 | 0.87% | 0.873 | 0.61 | 140.48 | 2.00 | 1.29 | 91 | 0.150 | 0.99 | 0.000 | 0.391 | | 0.38 | 0.53 | <= | 2.488 | 0.000 | 0.015 | 5.513 | 0.379 | | |
| 3.25 | 107.28 | 0.18 | 25.93 | 0.22 | 0.85% | 0.855 | 0.60 | 139.70 | 1.99 | 1.29 | 91 | 0.149 | 0.99 | 0.000 | 0.391 | | 0.38 | 0.53 | <= | 2.496 | 0.000 | 0.027 | 5.513 | 0.364 | | |
| 3.29 | 107.03 | 0.19 | 25.49 | 0.22 | 0.86% | 0.869 | 0.61 | 135.73 | 2.00 | 1.30 | 90 | 0.148 | 0.99 | 0.000 | 0.391 | | 0.38 | 0.52 | <= | 2.512 | 0.000 | 0.012 | 5.513 | 0.337 | | |
| 3.35 | 105.24 | 0.19 | 25.88 | 0.17 | 0.66% | 0.662 | 0.59 | 135.51 | 1.94 | 1.23 | 83 | 0.134 | 0.99 | 0.000 | 0.391 | | 0.34 | 0.47 | <= | 2.676 | 0.000 | 0.019 | 5.513 | 0.325 | | |
| 3.42 | 99.82 | 0.19 | 26.57 | 0.08 | 0.30% | 0.303 | 0.55 | 136.61 | 1.81 | 1.11 | 71 | 0.113 | 0.99 | 0.000 | 0.391 | | 0.29 | 0.40 | <= | 3.037 | 0.000 | 0.026 | 5.513 | 0.306 | | |
| 3.50 | 100.79 | 0.20 | 27.15 | 0.09 | 0.33% | 0.334 | 0.55 | 136.74 | 1.82 | 1.12 | 73 | 0.116 | 0.99 | 0.000 | 0.391 | | 0.30 | 0.41 | <= | 2.982 | 0.000 | 0.029 | 5.513 | 0.280 | | |
| 3.56 | 101.48 | 0.20 | 27.45 | 0.10 | 0.36% | 0.367 | 0.56 | 136.14 | 1.83 | 1.13 | 74 | 0.118 | 0.99 | 0.000 | 0.391 | | 0.30 | 0.41 | <= | 2.938 | 0.000 | 0.021 | 5.513 | 0.251 | | |
| 3.65 | 102.67 | 0.20 | 30.18 | 0.11 | 0.36% | 0.367 | 0.55 | 146.38 | 1.80 | 1.11 | 78 | 0.124 | 0.99 | 0.000 | 0.390 | | 0.32 | 0.44 | <= | 2.820 | 0.000 | 0.030 | 5.513 | 0.230 | | |
| 3.69 | 103.23 | 0.21 | 32.62 | 0.12 | 0.37% | 0.370 | 0.54 | 156.70 | 1.78 | 1.09 | 82 | 0.131 | 0.99 | 0.000 | 0.390 | | 0.33 | 0.46 | <= | 2.715 | 0.000 | 0.013 | 5.513 | 0.200 | | |
| 3.75 | 103.49 | 0.21 | 31.16 | 0.12 | 0.39% | 0.388 | 0.55 | 147.42 | 1.81 | 1.11 | 80 | 0.127 | 0.99 | 0.000 | 0.390 | | 0.33 | 0.45 | <= | 2.771 | 0.000 | 0.020 | 5.513 | 0.187 | | |
| 3.81 | 104.59 | 0.21 | 36.04 | 0.14 | 0.39% | 0.391 | 0.54 | 168.13 | 1.76 | 1.08 | 87 | 0.141 | 0.99 | 0.000 | 0.390 | | 0.36 | 0.50 | <= | 2.579 | 0.000 | 0.019 | 5.513 | 0.167 | | |
| 3.88 | 105.71 | 0.22 | 40.83 | 0.15 | 0.37% | 0.369 | 0.52 | 187.34 | 1.71 | 1.05 | 93 | 0.154 | 0.99 | 0.000 | 0.390 | | 0.40 | 0.54 | <= | 2.450 | 0.000 | 0.021 | 5.513 | 0.148 | | |
| 3.96 | 106.82 | 0.22 | 45.12 | 0.17 | 0.38% | 0.379 | 0.51 | 203.11 | 1.69 | 1.03 | 99 | 0.169 | 0.99 | 0.000 | 0.390 | | 0.43 | 0.60 | <= | 2.331 | 0.000 | 0.022 | 5.513 | 0.128 | | |
| 4.01 | 107.35 | 0.22 | 47.96 | 0.18 | 0.38% | 0.377 | 0.51 | 213.35 | 1.67 | 1.02 | 102 | 0.179 | 0.99 | 0.000 | 0.390 | | 0.46 | 0.63 | <= | 2.268 | 0.000 | 0.014 | 5.513 | 0.105 | | |
| 4.11 | 108.02 | 0.23 | 51.76 | 0.20 | 0.39% | 0.388 | 0.50 | 224.89 | 1.65 | 1.01 | 107 | 0.194 | 0.99 | 0.000 | 0.390 | | 0.50 | 0.68 | <= | 2.184 | 0.000 | 0.026 | 5.513 | 0.092 | | |
| 4.14 | 108.20 | 0.23 | 53.03 | 0.20 | 0.38% | 0.379 | 0.50 | 228.80 | 1.64 | 1.00 | 108 | 0.197 | 0.99 | 0.000 | 0.390 | | 0.50 | 0.69 | <= | 2.171 | 0.000 | 0.008 | 5.513 | 0.066 | | |
| 4.23 | 109.32 | 0.24 | 57.04 | 0.23 | 0.40% | 0.405 | 0.50 | 241.02 | 1.64 | 1.00 | 115 | 0.220 | 0.99 | 0.000 | 0.390 | | 0.57 | 0.78 | <= | 1.930 | 0.000 | 0.021 | 5.513 | 0.058 | | |
| 4.27 | 109.67 | 0.24 | 58.50 | 0.24 | 0.41% | 0.412 | 0.50 | 244.92 | 1.63 | 1.00 | 117 | 0.229 | 0.99 | 0.000 | 0.390 | | 0.59 | 0.81 | <= | 1.259 | 0.000 | 0.006 | 5.513 | 0.037 | | |
| 4.33 | 110.26 | 0.24 | 62.22 | 0.25 | 0.40% | 0.403 | 0.50 | 256.97 | 1.61 | 1.00 | 124 | 0.256 | 0.99 | 0.000 | 0.390 | | 0.66 | 0.90 | <= | 0.740 | 0.000 | 0.005 | 5.513 | 0.031 | | |
| 4.41 | 111.07 | 0.25 | 65.73 | 0.27 | 0.41% | 0.412 | 0.50 | 266.60 | 1.59 | 1.00 | 130 | 0.282 | 0.99 | 0.000 | 0.390 | | 0.72 | 1.00 | <= | 1.038 | 0.000 | 0.010 | 5.513 | 0.026 | | |
| 4.49 | 111.67 | 0.25 | 69.15 | 0.29 | 0.42% | 0.421 | 0.50 | 275.49 | 1.58 | 1.00 | 135 | 0.309 | 0.99 | 0.000 | 0.390 | | 0.79 | 1.09 | <= | 0.649 | 0.000 | 0.006 | 5.513 | 0.016 | | |
| 4.54 | 111.95 | 0.25 | 70.81 | 0.30 | 0.42% | 0.425 | 0.50 | 279.00 | 1.58 | 1.00 | 138 | 0.322 | 0.99 | 0.000 | 0.390 | | 0.83 | 1.14 | <= | 0.367 | 0.000 | 0.002 | 5.513 | 0.009 | | |
| 4.60 | 112.28 | 0.26 | 72.76 | 0.31 | 0.43% | 0.428 | 0.50 | 282.93 | 1.57 | 1.00 | 140 | 0.338 | 0.99 | 0.000 | 0.390 | | 0.87 | 1.19 | <= | 0.432 | 0.000 | 0.003 | 5.513 | 0.007 | | |
| 4.67 | 112.52 | 0.26 | 73.94 | 0.32 | 0.43% | 0.434 | 0.50 | 283.16 | 1.57 | 1.00 | 142 | 0.344 | 0.99 | 0.000 | 0.390 | | 0.88 | 1.22 | <= | 0.238 | 0.000 | 0.002 | 5.513 | 0.004 | | |
| 4.73 | 112.82 | 0.26 | 75.69 | 0.33 | 0.44% | 0.438 | 0.50 | 286.15 | 1.57 | 1.00 | 144 | 0.358 | 0.99 | 0.000 | 0.389 | | 0.92 | 1.26 | <= | 0.278 | 0.000 | 0.002 | 5.513 | 0.002 | | |
| 4.80 | 113.15 | 0.27 | 77.65 | 0.34 | 0.44% | 0.439 | 0.50 | 289.23 | 1.56 | 1.00 | 147 | 0.374 | 0.99 | 0.000 | 0.389 | | 0.96 | 1.32 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 4.90 | 113.62 | 0.27 | 79.89 | 0.36 | 0.45% | 0.452 | 0.50 | 291.39 | 1.56 | 1.00 | 149 | 0.390 | 0.99 | 0.000 | 0.389 | | 1.00 | 1.38 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 4.94 | 113.86 | 0.28 | 81.55 | 0.37 | 0.45% | 0.455 | 0.50 | 295.00 | 1.56 | 1.00 | 152 | 0.406 | 0.99 | 0.000 | 0.389 | | 1.04 | 1.43 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.03 | 109.26 | 0.28 | 83.90 | 0.20 | 0.24% | 0.239 | 0.50 | 298.19 | 1.41 | 1.00 | 155 | 0.425 | 0.99 | 0.000 | 0.389 | | 1.09 | 1.50 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.07 | 110.52 | 0.28 | 85.56 | 0.23 | 0.27% | 0.270 | 0.50 | 301.73 | 1.43 | 1.00 | 157 | 0.442 | 0.99 | 0.000 | 0.389 | | 1.14 | 1.56 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.13 | 111.74 | 0.29 | 87.41 | 0.27 | 0.31% | 0.310 | 0.50 | 304.65 | 1.45 | 1.00 | 160 | 0.459 | 0.99 | 0.000 | 0.389 | | 1.18 | 1.62 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.19 | 112.70 | 0.29 | 88.78 | 0.31 | 0.35% | 0.350 | 0.50 | 305.81 | 1.48 | 1.00 | 161 | 0.470 | 0.99 | 0.000 | 0.389 | | 1.21 | 1.66 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.30 | 113.80 | 0.30 | 90.74 | 0.36 | 0.40% | 0.398 | 0.50 | 305.94 | 1.50 | 1.00 | 163 | 0.484 | 0.99 | 0.000 | 0.389 | | 1.24 | 1.71 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.34 | 114.15 | 0.30 | 90.93 | 0.37 | 0.41% | 0.408 | 0.50 | 304.23 | 1.51 | 1.00 | 163 | 0.481 | 0.99 | 0.000 | 0.389 | | 1.24 | 1.70 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.38 | 114.44 | 0.30 | 90.00 | 0.39 | 0.43% | 0.435 | 0.50 | 298.80 | 1.53 | 1.00 | 161 | 0.465 | 0.99 | 0.000 | 0.389 | | 1.20 | 1.64 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.47 | 115.04 | 0.31 | 90.93 | 0.42 | 0.46% | 0.463 | 0.50 | 296.77 | 1.54 | 1.00 | 161 | 0.467 | 0.99 | 0.000 | 0.389 | | 1.20 | 1.65 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.52 | 115.24 | 0.31 | 89.07 | 0.44 | 0.49% | 0.496 | 0.50 | 287.95 | 1.57 | 1.00 | 157 | 0.438 | 0.99 | 0.000 | 0.389 | | 1.13 | 1.55 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.60 | 115.78 | 0.31 | 90.93 | 0.47 | 0.52% | 0.519 | 0.50 | 289.62 | 1.58 | 1.00 | 159 | 0.453 | 0.99 | 0.000 | 0.389 | | 1.17 | 1.60 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.65 | 116.13 | 0.32 | 92.30 | 0.49 | 0.53% | 0.533 | 0.50 | 291.28 | 1.58 | 1.00 | 161 | 0.465 | 0.99 | 0.000 | 0.389 | | 1.20 | 1.64 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.71 | 116.44 | 0.32 | 95.52 | 0.50 | 0.52% | 0.525 | 0.50 | 298.17 | 1.57 | 1.00 | 165 | 0.499 | 0.99 | 0.000 | 0.389 | | 1.29 | 1.77 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.79 | 116.94 | 0.32 | 97.47 | 0.54 | 0.55% | 0.556 | 0.50 | 299.87 | 1.58 | 1.00 | 167 | 0.516 | 0.99 | 0.000 | 0.388 | | 1.33 | 1.83 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.88 | 117.11 | 0.33 | 99.62 | 0.54 | 0.54% | 0.544 | 0.50 | 301.59 | 1.57 | 1.00 | 170 | 0.534 | 0.99 | 0.000 | 0.388 | | 1.38 | 1.89 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.93 | 117.18 | 0.33 | 100.99 | 0.55 | 0.54% | 0.546 | 0.50 | 303.04 | 1.56 | 1.00 | 171 | 0.547 | 0.99 | 0.000 | 0.388 | | 1.41 | 1.94 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 5.99 | 117.28 | 0.34 | 102.36 | 0.55 | 0.54% | 0.539 | 0.50 | 303.94 | 1.56 | 1.00 | 173 | 0.559 | 0.99 | 0.000 | 0.388 | | 1.44 | 1.98 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.05 | 117.43 | 0.34 | 103.14 | 0.56 | 0.54% | 0.545 | 0.50 | 303.07 | 1.56 | 1.00 | 173 | 0.562 | 0.99 | 0.000 | 0.388 | | 1.45 | 1.99 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.13 | 117.83 | 0.34 | 105.09 | 0.59 | 0.56% | 0.563 | 0.50 | 304.57 | 1.56 | 1.00 | 175 | 0.580 | 0.99 | 0.000 | 0.388 | | 1.49 | 2.05 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.18 | 118.39 | 0.35 | 107.14 | 0.63 | 0.59% | 0.590 | 0.50 | 307.87 | 1.57 | 1.00 | 178 | 0.603 | 0.99 | 0.000 | 0.388 | | 1.55 | 2.14 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.24 | 119.03 | 0.35 | 109.59 | 0.68 | 0.62% | 0.622 | 0.50 | 311.72 | 1.58 | 1.00 | 181 | 0.631 | 0.99 | 0.000 | 0.388 | | 1.63 | 2.24 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.33 | 119.57 | 0.36 | 115.15 | 0.72 | 0.63% | 0.627 | 0.50 | 322.62 | 1.57 | 1.00 | 189 | 0.705 | 0.98 | 0.000 | 0.388 | | 1.82 | 2.50 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.37 | 119.80 | 0.36 | 118.08 | 0.74 | 0.63% | 0.629 | 0.50 | 328.63 | 1.56 | 1.00 | 193 | 0.747 | 0.98 | 0.000 | 0.388 | | 1.93 | 2.65 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.46 | 119.87 | 0.36 | 122.09 | 0.74 | 0.61% | 0.608 | 0.50 | 334.77 | 1.54 | 1.00 | 198 | 0.801 | 0.98 | 0.000 | 0.388 | | 2.07 | 2.84 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.51 | 119.92 | 0.37 | 124.82 | 0.74 | 0.59% | 0.595 | 0.50 | 339.47 | 1.53 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.388 | | 2.12 | 2.92 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.59 | 120.02 | 0.37 | 128.92 | 0.74 | 0.57% | 0.576 | 0.50 | 346.11 | 1.51 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.388 | | 2.13 | 2.92 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.64 | 120.06 | 0.37 | 131.37 | 0.74 | 0.56% | 0.565 | 0.50 | 349.87 | 1.50 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.388 | | 2.13 | 2.92 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.71 | 120.17 | 0.38 | 135.96 | 0.74 | 0.54% | 0.546 | 0.50 | 358.09 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.388 | | 2.13 | 2.92 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.77 | 120.37 | 0.38 | 139.18 | 0.76 | 0.55% | 0.548 | 0.50 | 363.13 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.388 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.86 | 120.79 | 0.39 | 142.89 | 0.80 | 0.56% | 0.561 | 0.50 | 367.59 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.90 | 120.86 | 0.39 | 144.36 | 0.80 | 0.55% | 0.556 | 0.50 | 369.07 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 6.97 | 121.00 | 0.39 | 147.09 | 0.81 | 0.55% | 0.552 | 0.50 | 372.02 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.04 | 121.15 | 0.40 | 148.95 | 0.83 | 0.56% | 0.559 | 0.50 | 372.72 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.09 | 121.36 | 0.40 | 150.31 | 0.85 | 0.57% | 0.567 | 0.50 | 373.28 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.16 | 121.60 | 0.41 | 152.27 | 0.87 | 0.57% | 0.573 | 0.50 | 374.19 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.22 | 121.78 | 0.41 | 153.83 | 0.89 | 0.58% | 0.580 | 0.50 | 374.65 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.30 | 119.92 | 0.41 | 154.32 | 0.69 | 0.45% | 0.448 | 0.50 | 371.48 | 1.40 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.39 | 117.48 | 0.42 | 155.20 | 0.49 | 0.32% | 0.317 | 0.50 | 368.89 | 1.32 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.42 | 117.94 | 0.42 | 155.00 | 0.53 | 0.34% | 0.343 | 0.50 | 366.86 | 1.34 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.49 | 118.67 | 0.43 | 155.25 | 0.58 | 0.37% | 0.375 | 0.50 | 363.86 | 1.36 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.57 | 119.30 | 0.43 | 154.42 | 0.63 | 0.41% | 0.409 | 0.50 | 357.88 | 1.39 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.62 | 119.49 | 0.43 | 155.29 | 0.65 | 0.42% | 0.420 | 0.50 | 357.42 | 1.39 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.70 | 119.81 | 0.44 | 147.09 | 0.69 | 0.47% | 0.471 | 0.50 | 334.78 | 1.44 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.75 | 120.11 | 0.44 | 150.22 | 0.71 | 0.47% | 0.474 | 0.50 | 339.59 | 1.44 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.84 | 120.74 | 0.45 | 151.49 | 0.78 | 0.51% | 0.516 | 0.50 | 338.29 | 1.46 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.88 | 120.97 | 0.45 | 151.49 | 0.80 | 0.53% | 0.530 | 0.50 | 336.46 | 1.47 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 7.98 | 121.15 | 0.45 | 151.49 | 0.82 | 0.54% | 0.543 | 0.50 | 331.96 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.02 | 121.24 | 0.46 | 152.46 | 0.83 | 0.54% | 0.546 | 0.50 | 332.32 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.07 | 121.32 | 0.46 | 152.75 | 0.84 | 0.55% | 0.552 | 0.50 | 330.75 | 1.48 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.15 | 121.33 | 0.47 | 150.31 | 0.84 | 0.56% | 0.561 | 0.50 | 322.05 | 1.49 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | 2.94 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.21 | 121.27 | 0.47 | 147.48 | 0.84 | 0.57% | 0.571 | 0.50 | 313.51 | 1.51 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | 2.94 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.27 | 121.17 | 0.47 | 144.16 | 0.84 | 0.58% | 0.585 | 0.50 | 304.06 | 1.52 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.386 | | 2.13 | 2.94 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.34 | 121.03 | 0.48 | 141.23 | 0.83 | 0.59% | 0.590 | 0.50 | 295.21 | 1.53 | 1.00 | 200 | 0.823 | 0.98 | 0.000 | 0.386 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.40 | 120.99 | 0.48 | 137.81 | 0.83 | 0.60% | 0.604 | 0.50 | 285.85 | 1.55 | 1.00 | 194 | 0.762 | 0.98 | 0.000 | 0.386 | | 1.97 | 2.72 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.47 | 120.96 | 0.48 | 135.86 | 0.83 | 0.61% | 0.613 | 0.50 | 279.32 | 1.56 | 1.00 | 191 | 0.725 | 0.98 | 0.000 | 0.386 | | 1.88 | 2.58 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.56 | 120.96 | 0.49 | 134.88 | 0.83 | 0.62% | 0.618 | 0.50 | 274.21 | 1.57 | 1.00 | 188 | 0.700 | 0.98 | 0.000 | 0.386 | | 1.81 | 2.50 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.61 | 120.99 | 0.49 | 134.59 | 0.84 | 0.62% | 0.626 | 0.50 | 271.93 | 1.57 | 1.00 | 187 | 0.691 | 0.98 | 0.000 | 0.386 | | 1.79 | 2.46 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.69 | 121.07 | 0.50 | 133.61 | 0.85 | 0.64% | 0.639 | 0.50 | 267.31 | 1.58 | 1.00 | 185 | 0.669 | 0.98 | 0.000 | 0.386 | | 1.73 | 2.38 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.74 | 121.16 | 0.50 | 134.30 | 0.86 | 0.64% | 0.643 | 0.50 | 267.07 | 1.58 | 1.00 | 185 | 0.672 | 0.98 | 0.000 | 0.386 | | 1.74 | 2.40 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.81 | 121.40 | 0.51 | 133.61 | 0.89 | 0.67% | 0.669 | 0.50 | 263.45 | 1.60 | 1.00 | 184 | 0.656 | 0.98 | 0.000 | 0.386 | | 1.70 | 2.34 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.86 | 121.50 | 0.51 | 132.24 | 0.90 | 0.68% | 0.683 | 0.50 | 259.17 | 1.61 | 1.00 | 181 | 0.633 | 0.98 | 0.000 | 0.386 | | 1.64 | 2.26 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 8.93 | 121.58 | 0.51 | 130.39 | 0.92 | 0.71% | 0.708 | 0.50 | 253.40 | 1.62 | 1.00 | 178 | 0.604 | 0.98 | 0.000 | 0.386 | | 1.57 | 2.15 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.01 | 121.76 | 0.52 | 127.85 | 0.94 | 0.74% | 0.738 | 0.50 | 246.10 | 1.64 | 1.00 | 173 | 0.564 | 0.98 | 0.000 | 0.385 | | 1.46 | 2.01 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.09 | 121.95 | 0.52 | 126.09 | 0.97 | 0.77% | 0.772 | 0.51 | 240.42 | 1.66 | 1.01 | 173 | 0.561 | 0.98 | 0.000 | 0.385 | | 1.46 | 2.00 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.14 | 121.95 | 0.53 | 124.33 | 0.98 | 0.79% | 0.792 | 0.51 | 235.67 | 1.67 | 1.02 | 172 | 0.552 | 0.98 | 0.000 | 0.385 | | 1.43 | 1.97 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.22 | 121.96 | 0.53 | 123.26 | 0.98 | 0.80% | 0.799 | 0.51 | 231.47 | 1.68 | 1.02 | 170 | 0.541 | 0.98 | 0.000 | 0.385 | | 1.40 | 1.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.27 | 122.01 | 0.53 | 125.02 | 0.98 | 0.78% | 0.787 | 0.51 | 233.44 | 1.67 | 1.02 | 171 | 0.547 | 0.98 | 0.000 | 0.385 | | 1.42 | 1.96 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.35 | 122.13 | 0.54 | 129.61 | 0.99 | 0.76% | 0.767 | 0.50 | 239.84 | 1.65 | 1.01 | 174 | 0.572 | 0.98 | 0.000 | 0.385 | | 1.48 | 2.04 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.41 | 122.17 | 0.54 | 133.12 | 0.98 | 0.74% | 0.739 | 0.50 | 244.69 | 1.64 | 1.00 | 177 | 0.592 | 0.98 | 0.000 | 0.385 | | 1.54 | 2.12 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.45 | 122.21 | 0.54 | 137.42 | 0.98 | 0.71% | 0.716 | 0.50 | 251.49 | 1.62 | 1.00 | 182 | 0.640 | 0.98 | 0.000 | 0.385 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.54 | 122.33 | 0.55 | 143.38 | 0.98 | 0.68% | 0.686 | 0.50 | 259.80 | 1.59 | 1.00 | 189 | 0.707 | 0.98 | 0.000 | 0.385 | | 1.84 | 2.53 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.59 | 122.38 | 0.55 | 146.70 | 0.98 | 0.67% | 0.671 | 0.50 | 264.37 | 1.58 | 1.00 | 193 | 0.746 | 0.98 | 0.000 | 0.385 | | 1.94 | 2.67 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.67 | 122.47 | 0.56 | 150.90 | 0.98 | 0.65% | 0.652 | 0.50 | 269.57 | 1.57 | 1.00 | 197 | 0.795 | 0.98 | 0.000 | 0.385 | | 2.07 | 2.84 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.72 | 122.50 | 0.56 | 153.15 | 0.98 | 0.64% | 0.642 | 0.50 | 272.10 | 1.56 | 1.00 | 200 | 0.822 | 0.98 | 0.000 | 0.385 | | 2.14 | 2.94 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.81 | 122.69 | 0.57 | 155.98 | 1.00 | 0.64% | 0.643 | 0.50 | 274.43 | 1.55 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | 2.95 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.85 | 121.42 | 0.57 | 156.56 | 0.84 | 0.54% | 0.538 | 0.50 | 274.28 | 1.50 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | 2.95 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.92 | 116.47 | 0.57 | 158.13 | 0.43 | 0.27% | 0.273 | 0.50 | 275.06 | 1.33 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | 2.95 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 9.99 | 117.41 | 0.58 | 158.52 | 0.49 | 0.31% | 0.310 | 0.50 | 273.77 | 1.36 | 1.00 | 200 | 0.824 | 0.98 | 0.000 | 0.385 | | 2.14 | 2.95 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.05 | 118.29 | 0.58 | 158.71 | 0.55 | 0.35% | 0.348 | 0.50 | 273.15 | 1.39 | 1.00 | 200 | 0.824 | 0.98 | 0.002 | 0.386 | | 2.14 | 2.94 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.12 | 119.18 | 0.58 | 159.01 | 0.62 | 0.39% | 0.391 | 0.50 | 272.73 | 1.42 | 1.00 | 200 | 0.824 | 0.98 | 0.004 | 0.387 | | 2.13 | 2.93 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.18 | 119.64 | 0.59 | 151.09 | 0.67 | 0.44% | 0.445 | 0.50 | 258.32 | 1.47 | 1.00 | 193 | 0.752 | 0.98 | 0.006 | 0.388 | | 1.94 | 2.67 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.24 | 119.92 | 0.59 | 144.26 | 0.70 | 0.49% | 0.487 | 0.50 | 245.86 | 1.51 | 1.00 | 184 | 0.662 | 0.98 | 0.007 | 0.389 | | 1.70 | 2.34 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.32 | 120.67 | 0.60 | 152.07 | 0.77 | 0.51% | 0.508 | 0.50 | 258.19 | 1.50 | 1.00 | 194 | 0.758 | 0.98 | 0.010 | 0.391 | | 1.94 | 2.67 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.37 | 121.12 | 0.60 | 152.46 | 0.82 | 0.54% | 0.540 | 0.50 | 258.21 | 1.52 | 1.00 | 194 | 0.761 | 0.98 | 0.012 | 0.392 | | 1.94 | 2.67 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.47 | 121.58 | 0.61 | 152.85 | 0.87 | 0.57% | 0.571 | 0.50 | 257.56 | 1.53 | 1.00 | 194 | 0.761 | 0.98 | 0.015 | 0.394 | | 1.93 | 2.66 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.51 | 121.74 | 0.61 | 152.75 | 0.89 | 0.58% | 0.585 | 0.50 | 256.87 | 1.54 | 1.00 | 194 | 0.757 | 0.98 | 0.016 | 0.394 | | 1.92 | 2.64 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.58 | 121.95 | 0.61 | 152.66 | 0.91 | 0.60% | 0.598 | 0.50 | 255.81 | 1.55 | 1.00 | 193 | 0.753 | 0.97 | 0.018 | 0.396 | | 1.90 | 2.62 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.65 | 122.06 | 0.62 | 152.56 | 0.93 | 0.61% | 0.612 | 0.50 | 254.74 | 1.55 | 1.00 | 193 | 0.748 | 0.97 | 0.020 | 0.397 | | 1.88 | 2.59 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.71 | 122.10 | 0.62 | 152.07 | 0.93 | 0.61% | 0.614 | 0.50 | 253.16 | 1.56 | 1.00 | 192 | 0.738 | 0.97 | 0.022 | 0.398 | | 1.85 | 2.55 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.78 | 122.15 | 0.62 | 151.78 | 0.94 | 0.62% | 0.622 | 0.50 | 251.78 | 1.56 | 1.00 | 191 | 0.731 | 0.97 | 0.024 | 0.399 | | 1.83 | 2.52 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.83 | 122.18 | 0.63 | 151.19 | 0.95 | 0.63% | 0.631 | 0.50 | 250.17 | 1.57 | 1.00 | 190 | 0.721 | 0.97 | 0.026 | 0.400 | | 1.80 | 2.48 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.92 | 122.19 | 0.63 | 148.95 | 0.95 | 0.64% | 0.641 | 0.50 | 245.35 | 1.58 | 1.00 | 187 | 0.689 | 0.97 | 0.029 | 0.402 | | 1.71 | 2.36 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 10.96 | 122.18 | 0.64 | 146.99 | 0.95 | 0.65% | 0.649 | 0.50 | 241.62 | 1.59 | 1.00 | 184 | 0.663 | 0.97 | 0.030 | 0.403 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 11.04 | 122.15 | 0.64 | 145.53 | 0.95 | 0.65% | 0.656 | 0.50 | 238.26 | 1.59 | 1.00 | 182 | 0.642 | 0.97 | 0.032 | 0.404 | | 1.59 | 2.19 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 11.10 | 122.11 | 0.64 | 144.06 | 0.95 | 0.66% | 0.662 | 0.50 | 235.15 | 1.60 | 1.00 | 180 | 0.623 | 0.97 | 0.034 | 0.405 | | 1.54 | 2.12 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 11.18 | 121.84 | 0.65 | 139.28 | 0.93 | 0.67% | 0.671 | 0.50 | 226.42 | 1.62 | 1.00 | 174 | 0.568 | 0.97 | 0.037 | 0.407 | | 1.40 | 1.92 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 11.23 | 121.66 | 0.65 | 136.35 | 0.91 | 0.67% | 0.671 | 0.50 | 221.09 | 1.62 | 1.00 | 170 | 0.536 | 0.97 | 0.038 | 0.407 | | 1.31 | 1.81 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 11.30 | 121.37 | 0.66 | 131.17 | 0.89 | 0.68% | 0.682 | 0.50 | 211.93 | 1.64 | 1.00 | 163 | 0.479 | 0.97 | 0.041 | 0.409 | | 1.17 | 1.61 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 11.36 | 121.06 | 0.66 | 127.36 | 0.86 | 0.68% | 0.679 | 0.50 | 205.15 | 1.65 | 1.00 | 159 | 0.452 | 0.97 | 0.042 | 0.410 | | 1.10 | 1.52 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 11.43 | 120.58 | 0.66 | 119.65 | 0.82 | 0.69% | 0.689 | 0.51 | 192.03 | 1.67 | 1.02 | 152 | 0.407 | 0.97 | 0.045 | 0.411 | | 0.99 | 1.36 | | 0.000 | 0.000 | 0.000 | 5.513 | 0.000 | | |
| 11.49 | 118.98 | 0.67 | 113.39 | 0.67 | 0.59% | 0.594 | 0.50 | 181.42 | 1.65 | 1.01 | 141 | 0.343 | 0.97 | 0.046 | 0.412 | | 0.83 | 1.15 | <= | 0.371 | 0.003 | 0.000 | 5.513 | 0.000 | 11.43 | 11.49 |
| 11.55 | 112.97 | 0.67 | 100.50 | 0.31 | 0.31% | 0.311 | 0.50 | 160.28 | 1.55 | 1.00 | 124 | 0.257 | 0.97 | 0.048 | 0.413 | | 0.62 | 0.86 | <= | 1.334 | 0.010 | 0.000 | 5.511 | 0.000 | 11.49 | 11.55 |
| 11.63 | 112.85 | 0.68 | 95.72 | 0.31 | 0.32% | 0.326 | 0.50 | 152.11 | 1.58 | 1.00 | 118 | 0.232 | 0.97 | 0.051 | 0.414 | | 0.56 | 0.77 | <= | 1.838 | 0.018 | 0.000 | 5.501 | 0.000 | 11.55 | 11.63 |
| 11.68 | 112.81 | 0.68 | 94.15 | 0.31 | 0.33% | 0.332 | 0.50 | 149.29 | 1.59 | 1.00 | 116 | 0.225 | 0.97 | 0.052 | 0.415 | | 0.54 | 0.74 | <= | 1.793 | 0.011 | 0.000 | 5.483 | 0.000 | 11.63 | 11.68 |
| 11.75 | 113.06 | 0.68 | 91.91 | 0.32 | 0.35% | 0.351 | 0.50 | 145.29 | 1.61 | 1.00 | 113 | 0.214 | 0.97 | 0.055 | 0.416 | | 0.51 | 0.71 | <= | 1.733 | 0.015 | 0.000 | 5.473 | 0.000 | 11.68 | 11.75 |
| 11.82 | 113.64 | 0.69 | 85.27 | 0.36 | 0.42% | 0.426 | 0.51 | 134.33 | 1.68 | 1.02 | 108 | 0.196 | 0.97 | 0.057 | 0.417 | | 0.47 | 0.65 | <= | 2.174 | 0.018 | 0.000 | 5.458 | 0.000 | 11.75 | 11.82 |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-4

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft) 1 **MAGNITUDE:** 6.62 **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.90 | 113.69 | 0.69 | 54.89 | 0.42 | 0.77% | 0.775 | 0.60 | 85.79 | 1.97 | 1.26 | 88 | 0.144 | 0.97 | 0.059 | 0.419 | | 0.34 | **0.47** | <= | 2.549 | 0.024 | 0.000 | 5.440 | 0.000 | 11.82 | 11.90 |
| 11.95 | 115.18 | 0.69 | 67.88 | 0.47 | 0.69% | 0.700 | 0.57 | 106.13 | 1.87 | 1.16 | 100 | 0.172 | 0.97 | 0.061 | 0.420 | | 0.41 | **0.56** | <= | 2.315 | 0.014 | 0.000 | 5.415 | 0.000 | 11.90 | 11.95 |
| 12.03 | 117.24 | 0.70 | 63.29 | 0.64 | 1.01% | 1.023 | 0.60 | 98.53 | 1.99 | 1.28 | 104 | 0.185 | 0.97 | 0.063 | 0.421 | | 0.44 | **0.60** | <= | 2.234 | 0.021 | 0.000 | 5.401 | 0.000 | 11.95 | 12.03 |
| 12.08 | 118.23 | 0.70 | 58.80 | 0.76 | 1.29% | 1.308 | 0.63 | 91.26 | 2.08 | 1.41 | 108 | 0.196 | 0.97 | 0.065 | 0.422 | | 0.46 | **0.64** | <= | 2.175 | 0.013 | 0.000 | 5.380 | 0.000 | 12.03 | 12.08 |
| 12.16 | 118.28 | 0.71 | 50.30 | 0.80 | 1.59% | 1.613 | 0.66 | 77.63 | 2.18 | 1.63 | 107 | 0.194 | 0.97 | 0.067 | 0.423 | | 0.46 | **0.63** | <= | 2.183 | 0.021 | 0.000 | 5.367 | 0.000 | 12.08 | 12.16 |
| 12.21 | 118.15 | 0.71 | 46.88 | 0.81 | 1.73% | 1.754 | 0.68 | 72.11 | 2.23 | 1.74 | 107 | 0.195 | 0.97 | 0.069 | 0.424 | | 0.46 | **0.63** | <= | 2.180 | 0.013 | 0.000 | 5.346 | 0.000 | 12.16 | 12.21 |
| 12.28 | 118.03 | 0.71 | 45.42 | 0.80 | 1.76% | 1.789 | 0.68 | 69.61 | 2.24 | 1.78 | 106 | 0.192 | 0.97 | 0.071 | 0.425 | | 0.45 | **0.62** | <= | 2.193 | 0.018 | 0.000 | 5.333 | 0.000 | 12.21 | 12.28 |
| 12.35 | 118.06 | 0.72 | 46.49 | 0.80 | 1.72% | 1.748 | 0.68 | 71.06 | 2.23 | 1.75 | 106 | 0.192 | 0.97 | 0.073 | 0.426 | | 0.45 | **0.62** | <= | 2.194 | 0.018 | 0.000 | 5.314 | 0.000 | 12.28 | 12.35 |
| 12.43 | 118.48 | 0.72 | 59.38 | 0.78 | 1.31% | 1.330 | 0.63 | 90.74 | 2.08 | 1.42 | 108 | 0.198 | 0.97 | 0.076 | 0.427 | | 0.46 | **0.64** | <= | 2.165 | 0.021 | 0.000 | 5.296 | 0.000 | 12.35 | 12.43 |
| 12.48 | 118.86 | 0.73 | 72.67 | 0.77 | 1.06% | 1.070 | 0.60 | 111.06 | 1.96 | 1.25 | 115 | 0.220 | 0.97 | 0.077 | 0.428 | | 0.51 | **0.71** | <= | 1.700 | 0.010 | 0.000 | 5.275 | 0.000 | 12.43 | 12.48 |
| 12.55 | 119.42 | 0.73 | 94.93 | 0.76 | 0.80% | 0.807 | 0.55 | 144.97 | 1.80 | 1.11 | 130 | 0.282 | 0.97 | 0.080 | 0.429 | | 0.66 | **0.90** | <= | 0.708 | 0.006 | 0.000 | 5.265 | 0.000 | 12.48 | 12.55 |
| 12.61 | 119.57 | 0.73 | 109.19 | 0.74 | 0.68% | 0.682 | 0.52 | 166.47 | 1.71 | 1.04 | 139 | 0.329 | 0.97 | 0.081 | 0.430 | | 0.77 | **1.05** | <= | 0.555 | 0.004 | 0.000 | 5.259 | 0.000 | 12.55 | 12.61 |
| 12.66 | 119.61 | 0.74 | 121.70 | 0.72 | 0.59% | 0.595 | 0.50 | 185.26 | 1.64 | 1.00 | 147 | 0.374 | 0.97 | 0.083 | 0.431 | | 0.87 | **1.20** | <= | 0.423 | 0.003 | 0.000 | 5.255 | 0.000 | 12.61 | 12.66 |
| 12.75 | 120.11 | 0.74 | 130.58 | 0.75 | 0.57% | 0.578 | 0.50 | 198.06 | 1.61 | 1.00 | 157 | 0.442 | 0.97 | 0.086 | 0.432 | | 1.02 | **1.41** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 12.82 | 120.46 | 0.75 | 136.93 | 0.77 | 0.56% | 0.565 | 0.50 | 207.10 | 1.59 | 1.00 | 165 | 0.495 | 0.97 | 0.088 | 0.433 | | 1.14 | **1.57** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 12.86 | 120.85 | 0.75 | 140.35 | 0.81 | 0.58% | 0.580 | 0.50 | 211.92 | 1.59 | 1.00 | 169 | 0.526 | 0.97 | 0.089 | 0.434 | | 1.21 | **1.67** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 12.93 | 121.43 | 0.75 | 144.45 | 0.87 | 0.60% | 0.605 | 0.50 | 217.45 | 1.59 | 1.00 | 173 | 0.564 | 0.97 | 0.091 | 0.435 | | 1.30 | **1.79** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.02 | 122.09 | 0.76 | 147.58 | 0.94 | 0.64% | 0.640 | 0.50 | 221.28 | 1.60 | 1.00 | 177 | 0.593 | 0.97 | 0.094 | 0.436 | | 1.36 | **1.87** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.10 | 122.64 | 0.76 | 150.31 | 1.01 | 0.67% | 0.675 | 0.50 | 224.57 | 1.61 | 1.00 | 180 | 0.620 | 0.97 | 0.097 | 0.437 | | 1.42 | **1.95** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.15 | 122.85 | 0.77 | 152.07 | 1.03 | 0.68% | 0.681 | 0.50 | 226.70 | 1.60 | 1.00 | 182 | 0.637 | 0.97 | 0.098 | 0.438 | | 1.46 | **2.00** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.19 | 123.05 | 0.77 | 153.73 | 1.06 | 0.69% | 0.693 | 0.50 | 228.76 | 1.61 | 1.00 | 183 | 0.654 | 0.97 | 0.100 | 0.438 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.28 | 123.39 | 0.77 | 155.59 | 1.11 | 0.71% | 0.717 | 0.50 | 230.59 | 1.61 | 1.00 | 185 | 0.671 | 0.97 | 0.102 | 0.440 | | 1.53 | **2.10** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.32 | 123.60 | 0.78 | 156.76 | 1.13 | 0.72% | 0.724 | 0.50 | 231.91 | 1.61 | 1.00 | 187 | 0.683 | 0.97 | 0.104 | 0.440 | | 1.55 | **2.14** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.41 | 123.95 | 0.78 | 157.74 | 1.19 | 0.75% | 0.758 | 0.50 | 232.40 | 1.63 | 1.00 | 187 | 0.691 | 0.97 | 0.106 | 0.441 | | 1.57 | **2.15** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.46 | 124.12 | 0.78 | 158.52 | 1.21 | 0.76% | 0.767 | 0.50 | 233.02 | 1.63 | 1.00 | 188 | 0.698 | 0.97 | 0.108 | 0.442 | | 1.58 | **2.17** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.54 | 124.31 | 0.79 | 159.40 | 1.24 | 0.78% | 0.782 | 0.50 | 233.46 | 1.63 | 1.00 | 189 | 0.705 | 0.97 | 0.110 | 0.443 | | 1.59 | **2.19** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.59 | 124.42 | 0.79 | 160.37 | 1.26 | 0.79% | 0.790 | 0.50 | 234.34 | 1.63 | 1.00 | 190 | 0.714 | 0.97 | 0.112 | 0.444 | | 1.61 | **2.21** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.68 | 124.55 | 0.80 | 162.23 | 1.28 | 0.79% | 0.793 | 0.50 | 236.10 | 1.63 | 1.00 | 191 | 0.732 | 0.97 | 0.115 | 0.445 | | 1.65 | **2.26** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.73 | 124.58 | 0.80 | 163.11 | 1.28 | 0.78% | 0.789 | 0.50 | 236.84 | 1.63 | 1.00 | 192 | 0.741 | 0.97 | 0.116 | 0.446 | | 1.66 | **2.29** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.78 | 124.60 | 0.80 | 164.57 | 1.28 | 0.78% | 0.782 | 0.50 | 238.43 | 1.62 | 1.00 | 194 | 0.757 | 0.97 | 0.118 | 0.446 | | 1.69 | **2.33** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.85 | 124.55 | 0.81 | 165.74 | 1.27 | 0.77% | 0.770 | 0.50 | 239.37 | 1.62 | 1.00 | 195 | 0.768 | 0.97 | 0.120 | 0.447 | | 1.72 | **2.36** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.94 | 124.52 | 0.81 | 166.14 | 1.26 | 0.76% | 0.762 | 0.50 | 238.97 | 1.61 | 1.00 | 195 | 0.769 | 0.97 | 0.123 | 0.449 | | 1.71 | **2.36** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 13.99 | 122.70 | 0.82 | 166.53 | 0.98 | 0.59% | 0.591 | 0.50 | 239.01 | 1.54 | 1.00 | 195 | 0.771 | 0.97 | 0.124 | 0.449 | | 1.72 | **2.36** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.04 | 118.87 | 0.82 | 166.82 | 0.58 | 0.35% | 0.349 | 0.50 | 238.93 | 1.40 | 1.00 | 195 | 0.773 | 0.97 | 0.126 | 0.450 | | 1.72 | **2.36** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.12 | 119.86 | 0.83 | 167.01 | 0.67 | 0.40% | 0.403 | 0.50 | 238.41 | 1.44 | 1.00 | 195 | 0.772 | 0.97 | 0.129 | 0.451 | | 1.71 | **2.35** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.17 | 120.54 | 0.83 | 168.09 | 0.73 | 0.43% | 0.436 | 0.50 | 239.46 | 1.46 | 1.00 | 196 | 0.783 | 0.97 | 0.130 | 0.452 | | 1.73 | **2.39** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.26 | 121.25 | 0.83 | 171.31 | 0.80 | 0.47% | 0.469 | 0.50 | 243.14 | 1.47 | 1.00 | 200 | 0.820 | 0.97 | 0.133 | 0.453 | | 1.81 | **2.49** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.33 | 121.66 | 0.84 | 171.21 | 0.84 | 0.49% | 0.493 | 0.50 | 242.27 | 1.48 | 1.00 | 199 | 0.815 | 0.97 | 0.135 | 0.454 | | 1.80 | **2.47** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.38 | 122.10 | 0.84 | 170.04 | 0.90 | 0.53% | 0.532 | 0.50 | 240.10 | 1.51 | 1.00 | 198 | 0.798 | 0.97 | 0.137 | 0.454 | | 1.76 | **2.42** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.44 | 122.71 | 0.85 | 176.20 | 0.97 | 0.55% | 0.553 | 0.50 | 248.19 | 1.51 | 1.00 | 200 | 0.824 | 0.97 | 0.139 | 0.455 | | 1.81 | **2.49** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.53 | 123.47 | 0.85 | 184.79 | 1.05 | 0.57% | 0.571 | 0.50 | 259.34 | 1.50 | 1.00 | 200 | 0.824 | 0.97 | 0.141 | 0.456 | | 1.81 | **2.49** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.58 | 123.79 | 0.85 | 186.94 | 1.10 | 0.59% | 0.591 | 0.50 | 261.80 | 1.51 | 1.00 | 200 | 0.824 | 0.97 | 0.143 | 0.457 | | 1.80 | **2.48** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.67 | 124.32 | 0.86 | 189.87 | 1.17 | 0.62% | 0.619 | 0.50 | 264.87 | 1.52 | 1.00 | 200 | 0.824 | 0.97 | 0.146 | 0.458 | | 1.80 | **2.48** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.70 | 124.43 | 0.86 | 190.26 | 1.19 | 0.63% | 0.628 | 0.50 | 265.07 | 1.52 | 1.00 | 200 | 0.824 | 0.97 | 0.147 | 0.458 | | 1.80 | **2.47** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.77 | 124.53 | 0.87 | 191.33 | 1.20 | 0.63% | 0.630 | 0.50 | 265.75 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.149 | 0.459 | | 1.80 | **2.47** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.85 | 124.57 | 0.87 | 191.14 | 1.21 | 0.63% | 0.636 | 0.50 | 264.56 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.151 | 0.460 | | 1.79 | **2.46** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.91 | 124.57 | 0.87 | 191.43 | 1.21 | 0.63% | 0.635 | 0.50 | 264.28 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.153 | 0.461 | | 1.79 | **2.46** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 14.98 | 124.46 | 0.88 | 192.02 | 1.19 | 0.62% | 0.623 | 0.50 | 264.29 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.155 | 0.462 | | 1.79 | **2.46** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 15.04 | 124.31 | 0.88 | 190.94 | 1.17 | 0.61% | 0.616 | 0.50 | 262.12 | 1.51 | 1.00 | 200 | 0.824 | 0.96 | 0.157 | 0.462 | | 1.78 | **2.45** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 15.11 | 124.06 | 0.89 | 188.31 | 1.14 | 0.61% | 0.608 | 0.50 | 257.72 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.159 | 0.463 | | 1.78 | **2.45** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 15.16 | 123.84 | 0.89 | 185.38 | 1.11 | 0.60% | 0.602 | 0.50 | 253.15 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.161 | 0.464 | | 1.78 | **2.45** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 15.24 | 123.41 | 0.89 | 179.42 | 1.06 | 0.59% | 0.594 | 0.50 | 244.15 | 1.53 | 1.00 | 200 | 0.824 | 0.96 | 0.163 | 0.465 | | 1.77 | **2.44** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 15.29 | 123.12 | 0.90 | 173.46 | 1.03 | 0.59% | 0.597 | 0.50 | 235.51 | 1.54 | 1.00 | 198 | 0.798 | 0.96 | 0.165 | 0.465 | | 1.72 | **2.36** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 15.38 | 122.67 | 0.90 | 162.33 | 0.99 | 0.61% | 0.613 | 0.50 | 219.50 | 1.57 | 1.00 | 185 | 0.665 | 0.96 | 0.168 | 0.466 | | 1.43 | **1.96** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 15.43 | 122.40 | 0.91 | 153.34 | 0.97 | 0.63% | 0.636 | 0.50 | 206.85 | 1.60 | 1.00 | 174 | 0.571 | 0.96 | 0.169 | 0.467 | | 1.22 | **1.68** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 15.49 | 122.17 | 0.91 | 143.96 | 0.96 | 0.67% | 0.671 | 0.50 | 193.64 | 1.64 | 1.00 | 163 | 0.484 | 0.96 | 0.171 | 0.467 | | 1.04 | **1.43** | | 0.000 | 0.000 | 0.000 | 5.253 | 0.000 | | |
| 15.56 | 121.90 | 0.91 | 128.44 | 0.96 | 0.75% | 0.753 | 0.52 | 172.14 | 1.70 | 1.04 | 152 | 0.408 | 0.96 | 0.173 | 0.468 | | 0.87 | **1.20** | <= | 0.418 | 0.004 | 0.000 | 5.253 | 0.000 | 15.49 | 15.56 |
| 15.65 | 121.92 | 0.92 | 110.66 | 1.01 | 0.91% | 0.920 | 0.55 | 147.60 | 1.81 | 1.11 | 141 | 0.342 | 0.96 | 0.176 | 0.469 | | 0.73 | **1.00** | <= | 0.445 | 0.005 | 0.000 | 5.249 | 0.000 | 15.56 | 15.65 |
| 15.69 | 121.95 | 0.92 | 103.92 | 1.04 | 1.00% | 1.010 | 0.56 | 138.31 | 1.85 | 1.15 | 137 | 0.321 | 0.96 | 0.178 | 0.470 | | 0.68 | **0.94** | <= | 0.779 | 0.004 | 0.000 | 5.244 | 0.000 | 15.65 | 15.69 |
| 15.77 | 121.89 | 0.93 | 83.12 | 1.11 | 1.34% | 1.350 | 0.61 | 110.02 | 2.01 | 1.31 | 127 | 0.269 | 0.96 | 0.180 | 0.471 | | 0.57 | **0.79** | <= | 1.841 | 0.018 | 0.000 | 5.241 | 0.000 | 15.69 | 15.77 |
| 15.83 | 121.87 | 0.93 | 69.93 | 1.17 | 1.67% | 1.696 | 0.65 | 92.14 | 2.13 | 1.50 | 123 | 0.255 | 0.96 | 0.182 | 0.471 | | 0.54 | **0.74** | <= | 1.697 | 0.012 | 0.000 | 5.223 | 0.000 | 15.77 | 15.83 |
| 15.91 | 122.14 | 0.94 | 56.75 | 1.30 | 2.29% | 2.329 | 0.69 | 74.30 | 2.28 | 1.90 | 128 | 0.273 | 0.96 | 0.184 | 0.472 | | 0.58 | **0.80** | <= | 1.894 | 0.018 | 0.000 | 5.211 | 0.000 | 15.83 | 15.91 |
| 15.96 | 122.34 | 0.94 | 52.35 | 1.38 | 2.64% | 2.684 | 0.71 | 68.30 | 2.35 | 2.12 | 132 | 0.295 | 0.96 | 0.186 | 0.473 | | 0.62 | **0.86** | <= | 1.498 | 0.009 | 0.000 | 5.192 | 0.000 | 15.91 | 15.96 |
| 16.02 | 122.38 | 0.94 | 47.76 | 1.43 | 2.99% | 3.054 | 0.73 | 62.05 | 2.42 | 2.39 | 136 | 0.314 | 0.96 | 0.188 | 0.473 | | 0.66 | **0.91** | <= | 0.700 | 0.005 | 0.000 | 5.183 | 0.000 | 15.96 | 16.02 |
| 16.09 | 121.29 | 0.95 | 44.05 | 1.26 | 2.86% | 2.923 | 0.74 | 56.97 | 2.43 | 2.44 | 128 | 0.275 | 0.96 | 0.190 | 0.474 | | 0.58 | **0.80** | <= | 1.891 | 0.016 | 0.000 | 5.178 | 0.000 | 16.02 | 16.09 |
| 16.16 | 119.84 | 0.95 | 38.29 | 1.09 | 2.85% | 2.919 | 0.75 | 49.22 | 2.47 | 2.64 | 120 | 0.242 | 0.96 | 0.192 | 0.475 | | 0.51 | **0.70** | <= | 1.988 | 0.017 | 0.000 | 5.163 | 0.000 | 16.09 | 16.16 |
| 16.23 | 119.13 | 0.95 | 33.31 | 1.03 | 3.09% | 3.183 | 0.77 | 42.54 | 2.54 | 3.00 | 119 | 0.236 | 0.96 | 0.194 | 0.476 | | 0.50 | **0.68** | <= | 2.006 | 0.017 | 0.000 | 5.146 | 0.000 | 16.16 | 16.23 |
| 16.27 | 118.02 | 0.96 | 28.62 | 0.93 | 3.25% | 3.362 | 0.79 | 36.32 | 2.61 | 3.38 | 115 | 0.222 | 0.96 | 0.196 | 0.476 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.129 | 0.000 | | |
| 16.36 | 114.16 | 0.96 | 28.03 | 0.55 | 1.96% | 2.032 | 0.75 | 35.43 | 2.48 | 2.67 | 88 | 0.144 | 0.96 | 0.198 | 0.477 | | 0.30 | **0.41** | <= | 2.554 | 0.028 | 0.000 | 5.129 | 0.000 | 16.27 | 16.36 |
| 16.41 | 114.74 | 0.97 | 31.84 | 0.57 | 1.79% | 1.846 | 0.73 | 40.34 | 2.41 | 2.36 | 88 | 0.143 | 0.96 | 0.200 | 0.478 | | 0.30 | **0.41** | <= | 2.562 | 0.015 | 0.000 | 5.101 | 0.000 | 16.36 | 16.41 |
| 16.48 | 116.97 | 0.97 | 52.16 | 0.66 | 1.27% | 1.289 | 0.65 | 66.72 | 2.15 | 1.56 | 93 | 0.156 | 0.96 | 0.202 | 0.478 | | 0.33 | **0.45** | <= | 2.435 | 0.020 | 0.000 | 5.086 | 0.000 | 16.41 | 16.48 |
| 16.54 | 118.32 | 0.97 | 63.68 | 0.74 | 1.16% | 1.180 | 0.63 | 81.55 | 2.06 | 1.39 | 101 | 0.177 | 0.96 | 0.204 | 0.479 | | 0.37 | **0.51** | <= | 2.283 | 0.016 | 0.000 | 5.066 | 0.000 | 16.48 | 16.54 |
| 16.62 | 119.11 | 0.98 | 63.49 | 0.83 | 1.31% | 1.328 | 0.64 | 81.06 | 2.10 | 1.45 | 105 | 0.188 | 0.96 | 0.207 | 0.480 | | 0.39 | **0.54** | <= | 2.215 | 0.021 | 0.000 | 5.049 | 0.000 | 16.54 | 16.62 |
| 16.67 | 119.82 | 0.98 | 74.03 | 0.87 | 1.18% | 1.191 | 0.61 | 94.55 | 2.02 | 1.32 | 111 | 0.208 | 0.96 | 0.208 | 0.480 | | 0.43 | **0.60** | <= | 2.115 | 0.013 | 0.000 | 5.028 | 0.000 | 16.62 | 16.67 |
| 16.77 | 120.29 | 0.99 | 78.23 | 0.91 | 1.16% | 1.178 | 0.61 | 99.60 | 2.00 | 1.29 | 115 | 0.221 | 0.96 | 0.211 | 0.481 | | 0.46 | **0.63** | <= | 2.062 | 0.025 | 0.000 | 5.015 | 0.000 | 16.67 | 16.77 |
| 16.81 | 120.52 | 0.99 | 79.11 | 0.94 | 1.19% | 1.203 | 0.61 | 100.58 | 2.00 | 1.30 | 116 | 0.227 | 0.96 | 0.212 | 0.482 | | 0.47 | **0.65** | <= | 2.041 | 0.010 | 0.000 | 4.990 | 0.000 | 16.77 | 16.81 |
| 16.88 | 121.19 | 0.99 | 79.89 | 1.02 | 1.28% | 1.293 | 0.61 | 101.31 | 2.02 | 1.32 | 120 | 0.239 | 0.96 | 0.215 | 0.482 | | 0.50 | **0.68** | <= | 1.996 | 0.017 | 0.000 | 4.981 | 0.000 | 16.81 | 16.88 |
| 16.95 | 121.53 | 1.00 | 80.09 | 1.07 | 1.34% | 1.353 | 0.62 | 101.29 | 2.03 | 1.34 | 121 | 0.247 | 0.96 | 0.217 | 0.483 | | 0.51 | **0.70** | <= | 1.545 | 0.013 | 0.000 | 4.964 | 0.000 | 16.88 | 16.95 |
| 17.01 | 121.78 | 1.00 | 79.89 | 1.11 | 1.39% | 1.407 | 0.62 | 100.80 | 2.04 | 1.36 | 123 | 0.252 | 0.96 | 0.219 | 0.484 | | 0.52 | **0.72** | <= | 1.585 | 0.011 | 0.000 | 4.951 | 0.000 | 16.95 | 17.01 |
| 17.06 | 121.88 | 1.00 | 79.41 | 1.12 | 1.41% | 1.428 | 0.62 | 100.00 | 2.05 | 1.37 | 123 | 0.252 | 0.96 | 0.220 | 0.484 | | 0.52 | **0.72** | <= | 1.584 | 0.010 | 0.000 | 4.939 | 0.000 | 17.01 | 17.06 |
| 17.15 | 121.94 | 1.01 | 79.21 | 1.14 | 1.44% | 1.458 | 0.62 | 99.39 | 2.05 | 1.38 | 123 | 0.254 | 0.96 | 0.223 | 0.485 | | 0.52 | **0.72** | <= | 1.597 | 0.017 | 0.000 | 4.930 | 0.000 | 17.06 | 17.15 |
| 17.21 | 122.13 | 1.01 | 80.38 | 1.16 | 1.44% | 1.462 | 0.62 | 100.65 | 2.05 | 1.37 | 124 | 0.259 | 0.96 | 0.225 | 0.486 | | 0.53 | **0.73** | <= | 1.636 | 0.012 | 0.000 | 4.913 | 0.000 | 17.15 | 17.21 |
| 17.26 | 122.34 | 1.02 | 82.53 | 1.18 | 1.43% | 1.448 | 0.62 | 103.17 | 2.04 | 1.36 | 126 | 0.266 | 0.96 | 0.227 | 0.486 | | 0.55 | **0.75** | <= | 1.699 | 0.010 | 0.000 | 4.901 | 0.000 | 17.21 | 17.26 |
| 17.34 | 122.59 | 1.02 | 87.51 | 1.20 | 1.37% | 1.387 | 0.61 | 109.14 | 2.01 | 1.31 | 129 | 0.279 | 0.96 | 0.229 | 0.487 | | 0.57 | **0.79** | <= | 1.830 | 0.018 | 0.000 | 4.891 | 0.000 | 17.26 | 17.34 |
| 17.39 | 122.86 | 1.02 | 92.40 | 1.22 | 1.32% | 1.335 | 0.60 | 115.09 | 1.98 | 1.28 | 132 | 0.294 | 0.96 | 0.231 | 0.487 | | 0.60 | **0.83** | <= | 1.125 | 0.007 | 0.000 | 4.873 | 0.000 | 17.34 | 17.39 |
| 17.48 | 123.34 | 1.03 | 96.69 | 1.29 | 1.33% | 1.349 | 0.60 | 120.07 | 1.97 | 1.26 | 136 | 0.316 | 0.96 | 0.233 | 0.488 | | 0.65 | **0.89** | <= | 1.265 | 0.014 | 0.000 | 4.866 | 0.000 | 17.39 | 17.48 |
| 17.52 | 123.57 | 1.03 | 98.84 | 1.32 | 1.34% | 1.350 | 0.60 | 122.57 | 1.97 | 1.26 | 139 | 0.327 | 0.96 | 0.235 | 0.489 | | 0.67 | **0.92** | <= | 0.714 | 0.003 | 0.000 | 4.853 | 0.000 | 17.48 | 17.52 |
| 17.61 | 123.84 | 1.04 | 99.72 | 1.36 | 1.36% | 1.378 | 0.60 | 123.24 | 1.97 | 1.26 | 140 | 0.335 | 0.96 | 0.237 | 0.489 | | 0.69 | **0.94** | <= | 0.769 | 0.008 | 0.000 | 4.849 | 0.000 | 17.52 | 17.61 |
| 17.65 | 123.93 | 1.04 | 98.26 | 1.39 | 1.41% | 1.430 | 0.60 | 121.23 | 1.98 | 1.28 | 140 | 0.335 | 0.96 | 0.239 | 0.490 | | 0.68 | **0.94** | <= | 0.768 | 0.004 | 0.000 | 4.841 | 0.000 | 17.61 | 17.65 |
| 17.73 | 124.14 | 1.05 | 100.79 | 1.41 | 1.40% | 1.414 | 0.60 | 124.00 | 1.97 | 1.27 | 142 | 0.345 | 0.96 | 0.241 | 0.490 | | 0.70 | **0.97** | <= | 0.832 | 0.008 | 0.000 | 4.837 | 0.000 | 17.65 | 17.73 |
| 17.79 | 124.29 | 1.05 | 102.55 | 1.44 | 1.40% | 1.419 | 0.60 | 125.89 | 1.97 | 1.26 | 144 | 0.355 | 0.96 | 0.243 | 0.491 | | 0.72 | **1.00** | <= | 0.892 | 0.006 | 0.000 | 4.829 | 0.000 | 17.73 | 17.79 |
| 17.88 | 124.44 | 1.05 | 104.21 | 1.46 | 1.40% | 1.415 | 0.60 | 127.50 | 1.97 | 1.26 | 145 | 0.363 | 0.96 | 0.246 | 0.492 | | 0.74 | **1.02** | <= | 0.462 | 0.005 | 0.000 | 4.823 | 0.000 | 17.79 | 17.88 |
| 17.93 | 124.53 | 1.06 | 104.31 | 1.48 | 1.42% | 1.433 | 0.60 | 127.38 | 1.97 | 1.26 | 145 | 0.366 | 0.96 | 0.247 | 0.492 | | 0.74 | **1.02** | <= | 0.475 | 0.003 | 0.000 | 4.818 | 0.000 | 17.88 | 17.93 |
| 17.99 | 124.47 | 1.06 | 103.33 | 1.47 | 1.42% | 1.437 | 0.60 | 125.87 | 1.97 | 1.27 | 144 | 0.360 | 0.96 | 0.249 | 0.493 | | 0.73 | **1.01** | <= | 0.445 | 0.003 | 0.000 | 4.815 | 0.000 | 17.93 | 17.99 |
| 18.05 | 124.45 | 1.07 | 101.97 | 1.47 | 1.44% | 1.457 | 0.60 | 123.91 | 1.98 | 1.28 | 144 | 0.355 | 0.96 | 0.251 | 0.493 | | 0.72 | **0.99** | <= | 0.878 | 0.006 | 0.000 | 4.812 | 0.000 | 17.99 | 18.05 |
| 18.13 | 124.39 | 1.07 | 98.55 | 1.48 | 1.50% | 1.518 | 0.61 | 119.34 | 2.01 | 1.31 | 142 | 0.346 | 0.96 | 0.254 | 0.494 | | 0.70 | **0.96** | <= | 0.815 | 0.008 | 0.000 | 4.806 | 0.000 | 18.05 | 18.13 |
| 18.19 | 124.32 | 1.07 | 97.38 | 1.47 | 1.51% | 1.526 | 0.61 | 117.64 | 2.01 | 1.31 | 141 | 0.340 | 0.96 | 0.256 | 0.495 | | 0.69 | **0.95** | <= | 0.773 | 0.006 | 0.000 | 4.798 | 0.000 | 18.13 | 18.19 |
| 18.28 | 124.36 | 1.08 | 95.52 | 1.48 | 1.55% | 1.567 | 0.62 | 114.97 | 2.03 | 1.33 | 140 | 0.336 | 0.96 | 0.258 | 0.495 | | 0.68 | **0.93** | <= | 0.739 | 0.008 | 0.000 | 4.792 | 0.000 | 18.19 | 18.28 |
| 18.31 | 124.27 | 1.08 | 95.23 | 1.47 | 1.54% | 1.561 | 0.62 | 114.48 | 2.03 | 1.33 | 140 | 0.333 | 0.96 | 0.259 | 0.496 | | 0.67 | **0.92** | <= | 0.718 | 0.003 | 0.000 | 4.784 | 0.000 | 18.28 | 18.31 |
| 18.41 | 124.38 | 1.09 | 96.59 | 1.48 | 1.53% | 1.550 | 0.61 | 115.69 | 2.02 | 1.33 | 140 | 0.337 | 0.96 | 0.262 | 0.496 | | 0.68 | **0.93** | <= | 0.742 | 0.009 | 0.000 | 4.782 | 0.000 | 18.31 | 18.41 |
| 18.45 | 124.50 | 1.09 | 97.86 | 1.50 | 1.53% | 1.550 | 0.61 | 117.05 | 2.02 | 1.32 | 141 | 0.343 | 0.96 | 0.264 | 0.497 | | 0.69 | **0.95** | <= | 0.784 | 0.004 | 0.000 | 4.773 | 0.000 | 18.41 | 18.45 |
| 18.51 | 124.63 | 1.09 | 99.04 | 1.52 | 1.53% | 1.552 | 0.61 | 118.21 | 2.01 | 1.32 | 143 | 0.349 | 0.96 | 0.266 | 0.497 | | 0.70 | **0.97** | <= | 0.820 | 0.006 | 0.000 | 4.769 | 0.000 | 18.45 | 18.51 |
| 18.57 | 124.72 | 1.10 | 99.04 | 1.54 | 1.55% | 1.572 | 0.61 | 117.94 | 2.02 | 1.32 | 143 | 0.352 | 0.96 | 0.267 | 0.498 | | 0.71 | **0.97** | <= | 0.835 | 0.006 | 0.000 | 4.763 | 0.000 | 18.51 | 18.57 |
| 18.64 | 124.83 | 1.10 | 99.04 | 1.56 | 1.58% | 1.593 | 0.61 | 117.62 | 2.02 | 1.33 | 144 | 0.355 | 0.96 | 0.270 | 0.498 | | 0.71 | **0.98** | <= | 0.848 | 0.007 | 0.000 | 4.757 | 0.000 | 18.57 | 18.64 |
| 18.71 | 124.91 | 1.11 | 98.26 | 1.58 | 1.61% | 1.626 | 0.62 | 116.37 | 2.03 | 1.34 | 144 | 0.355 | 0.96 | 0.272 | 0.499 | | 0.71 | **0.98** | <= | 0.849 | 0.007 | 0.000 | 4.750 | 0.000 | 18.64 | 18.71 |
| 18.77 | 124.95 | 1.11 | 95.62 | 1.61 | 1.68% | 1.704 | 0.62 | 112.95 | 2.05 | 1.38 | 143 | 0.353 | 0.96 | 0.274 | 0.499 | | 0.71 | **0.97** | <= | 0.834 | 0.006 | 0.000 | 4.743 | 0.000 | 18.71 | 18.77 |
| 18.86 | 120.20 | 1.12 | 91.81 | 0.85 | 0.93% | 0.937 | 0.58 | 108.06 | 1.90 | 1.19 | 117 | 0.229 | 0.96 | 0.276 | 0.500 | | 0.46 | **0.63** | <= | 2.032 | 0.022 | 0.000 | 4.737 | 0.000 | 18.77 | 18.86 |
| 18.91 | 120.73 | 1.12 | 88.10 | 0.93 | 1.06% | 1.069 | 0.59 | 103.45 | 1.95 | 1.24 | 117 | 0.230 | 0.96 | 0.278 | 0.501 | | 0.46 | **0.63** | <= | 2.029 | 0.012 | 0.000 | 4.715 | 0.000 | 18.86 | 18.91 |
| 18.97 | 121.34 | 1.12 | 80.28 | 1.04 | 1.30% | 1.314 | 0.62 | 93.95 | 2.03 | 1.35 | 117 | 0.228 | 0.96 | 0.280 | 0.501 | | 0.46 | **0.63** | <= | 2.035 | 0.015 | 0.000 | 4.703 | 0.000 | 18.91 | 18.97 |
| 19.04 | 121.70 | 1.13 | 71.20 | 1.14 | 1.60% | 1.627 | 0.65 | 82.96 | 2.13 | 1.52 | 117 | 0.230 | 0.95 | 0.282 | 0.502 | | 0.46 | **0.63** | <= | 2.030 | 0.017 | 0.000 | 4.688 | 0.000 | 18.97 | 19.04 |
| 19.13 | 121.88 | 1.13 | 59.09 | 1.24 | 2.10% | 2.139 | 0.69 | 68.40 | 2.27 | 1.87 | 120 | 0.240 | 0.95 | 0.285 | 0.502 | | 0.48 | **0.66** | <= | 1.994 | 0.022 | 0.000 | 4.671 | 0.000 | 19.04 | 19.13 |
| 19.18 | 121.00 | 1.14 | 36.63 | 1.29 | 3.52% | 3.634 | 0.78 | 41.82 | 2.58 | 3.21 | 128 | 0.277 | 0.95 | 0.286 | 0.503 | | 0.55 | **0.76** | <= | 1.886 | 0.011 | 0.000 | 4.649 | 0.000 | 19.13 | 19.18 |
| 19.25 | 121.04 | 1.14 | 37.02 | 1.29 | 3.48% | 3.595 | 0.78 | 42.17 | 2.57 | 3.17 | 128 | 0.275 | 0.95 | 0.289 | 0.503 | | 0.55 | **0.75** | <= | 1.889 | 0.016 | 0.000 | 4.638 | 0.000 | 19.18 | 19.25 |
| 19.31 | 120.91 | 1.14 | 34.38 | 1.30 | 3.78% | 3.911 | 0.80 | 38.98 | 2.62 | 3.47 | 130 | 0.284 | 0.95 | 0.290 | 0.504 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.622 | 0.000 | | |
| 19.36 | 120.95 | 1.15 | 33.50 | 1.32 | 3.94% | 4.080 | 0.80 | 37.88 | 2.64 | 3.61 | 132 | 0.292 | 0.95 | 0.292 | 0.504 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.622 | 0.000 | | |
| 19.44 | 120.62 | 1.15 | 32.52 | 1.28 | 3.94% | 4.080 | 0.80 | 36.63 | 2.65 | 3.68 | 130 | 0.283 | 0.95 | 0.295 | 0.505 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.622 | 0.000 | | |
| 19.53 | 121.58 | 1.16 | 35.36 | 1.41 | 3.99% | 4.122 | 0.80 | 39.82 | 2.63 | 3.53 | 135 | 0.310 | 0.95 | 0.297 | 0.506 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.622 | 0.000 | | |
| 19.55 | 122.05 | 1.16 | 39.95 | 1.45 | 3.63% | 3.738 | 0.78 | 45.13 | 2.56 | 3.12 | 135 | 0.308 | 0.95 | 0.298 | 0.506 | | 0.61 | **0.84** | <= | 1.813 | 0.004 | 0.000 | 4.622 | 0.000 | 19.53 | 19.55 |
| 19.62 | 123.17 | 1.16 | 53.23 | 1.53 | 2.87% | 2.938 | 0.73 | 60.42 | 2.40 | 2.33 | 134 | 0.302 | 0.95 | 0.300 | 0.506 | | 0.60 | **0.82** | <= | 1.170 | 0.010 | 0.000 | 4.618 | 0.000 | 19.55 | 19.62 |
| 19.71 | 124.11 | 1.17 | 78.92 | 1.53 | 1.94% | 1.968 | 0.66 | 89.94 | 2.16 | 1.58 | 133 | 0.300 | 0.95 | 0.303 | 0.507 | | 0.59 | **0.81** | <= | 1.056 | 0.011 | 0.000 | 4.608 | 0.000 | 19.62 | 19.71 |
| 19.76 | 124.34 | 1.17 | 92.20 | 1.50 | 1.63% | 1.648 | 0.63 | 105.11 | 2.06 | 1.39 | 136 | 0.316 | 0.95 | 0.305 | 0.507 | | 0.62 | **0.86** | <= | 1.154 | 0.007 | 0.000 | 4.597 | 0.000 | 19.71 | 19.76 |
| 19.84 | 124.59 | 1.18 | 107.63 | 1.47 | 1.37% | 1.381 | 0.60 | 122.56 | 1.96 | 1.25 | 143 | 0.351 | 0.95 | 0.307 | 0.508 | | 0.69 | **0.95** | <= | 0.771 | 0.007 | 0.000 | 4.590 | 0.000 | 19.76 | 19.84 |
| 19.89 | 124.71 | 1.18 | 113.98 | 1.47 | 1.29% | 1.303 | 0.59 | 129.64 | 1.93 | 1.22 | 146 | 0.371 | 0.95 | 0.309 | 0.508 | | 0.73 | **1.00** | <= | 0.439 | 0.003 | 0.000 | 4.582 | 0.000 | 19.84 | 19.89 |
| 19.97 | 124.76 | 1.18 | 120.72 | 1.45 | 1.20% | 1.213 | 0.57 | 136.99 | 1.89 | 1.18 | 150 | 0.392 | 0.95 | 0.311 | 0.509 | | 0.77 | **1.06** | <= | 0.533 | 0.005 | 0.000 | 4.580 | 0.000 | 19.89 | 19.97 |
| 20.03 | 124.92 | 1.19 | 126.19 | 1.46 | 1.16% | 1.168 | 0.57 | 142.94 | 1.86 | 1.16 | 153 | 0.415 | 0.95 | 0.313 | 0.509 | | 0.82 | **1.12** | <= | 0.323 | 0.002 | 0.000 | 4.575 | 0.000 | 19.97 | 20.03 |
| 20.10 | 125.54 | 1.19 | 137.81 | 1.54 | 1.12% | 1.127 | 0.56 | 155.83 | 1.83 | 1.13 | 163 | 0.480 | 0.95 | 0.315 | 0.510 | | 0.94 | **1.30** | <= | 0.281 | 0.002 | 0.000 | 4.572 | 0.000 | 20.03 | 20.10 |
| 20.16 | 126.12 | 1.20 | 149.63 | 1.63 | 1.09% | 1.098 | 0.55 | 168.94 | 1.79 | 1.10 | 172 | 0.557 | 0.95 | 0.317 | 0.510 | | 1.09 | **1.50** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.25 | 127.16 | 1.20 | 165.74 | 1.81 | 1.09% | 1.100 | 0.54 | 186.65 | 1.76 | 1.08 | 187 | 0.687 | 0.95 | 0.320 | 0.511 | | 1.34 | **1.85** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.29 | 127.57 | 1.20 | 173.07 | 1.89 | 1.09% | 1.100 | 0.53 | 194.68 | 1.75 | 1.07 | 193 | 0.752 | 0.95 | 0.321 | 0.511 | | 1.47 | **2.02** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.38 | 128.23 | 1.21 | 186.65 | 2.01 | 1.08% | 1.084 | 0.53 | 209.35 | 1.72 | 1.05 | 204 | 0.875 | 0.95 | 0.324 | 0.512 | | 1.71 | **2.35** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.42 | 128.51 | 1.21 | 192.70 | 2.07 | 1.07% | 1.081 | 0.52 | 215.86 | 1.71 | 1.05 | 209 | 0.935 | 0.95 | 0.325 | 0.512 | | 1.83 | **2.51** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.51 | 129.00 | 1.22 | 201.69 | 2.18 | 1.08% | 1.087 | 0.52 | 225.22 | 1.70 | 1.04 | 208 | 0.917 | 0.95 | 0.328 | 0.513 | | 1.79 | **2.46** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.56 | 129.14 | 1.22 | 204.72 | 2.21 | 1.08% | 1.086 | 0.52 | 228.19 | 1.70 | 1.04 | 207 | 0.910 | 0.95 | 0.329 | 0.513 | | 1.77 | **2.44** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.61 | 129.23 | 1.22 | 208.62 | 2.23 | 1.07% | 1.075 | 0.52 | 232.13 | 1.69 | 1.03 | 206 | 0.896 | 0.95 | 0.331 | 0.513 | | 1.75 | **2.40** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.69 | 129.21 | 1.23 | 210.77 | 2.21 | 1.05% | 1.055 | 0.51 | 233.83 | 1.68 | 1.03 | 205 | 0.882 | 0.95 | 0.334 | 0.514 | | 1.72 | **2.36** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.74 | 129.17 | 1.23 | 211.75 | 2.20 | 1.04% | 1.045 | 0.51 | 234.48 | 1.68 | 1.02 | 205 | 0.876 | 0.95 | 0.335 | 0.514 | | 1.70 | **2.34** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.81 | 127.34 | 1.24 | 214.09 | 1.70 | 0.79% | 0.799 | 0.50 | 236.49 | 1.59 | 1.00 | 200 | 0.824 | 0.95 | 0.337 | 0.515 | | 1.60 | **2.20** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.88 | 123.70 | 1.24 | 217.51 | 1.03 | 0.47% | 0.476 | 0.50 | 239.71 | 1.44 | 1.00 | 200 | 0.824 | 0.95 | 0.339 | 0.515 | | 1.60 | **2.20** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 20.96 | 124.17 | 1.25 | 219.56 | 1.10 | 0.50% | 0.504 | 0.50 | 241.32 | 1.45 | 1.00 | 200 | 0.824 | 0.95 | 0.342 | 0.516 | | 1.60 | **2.20** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.00 | 124.61 | 1.25 | 221.22 | 1.16 | 0.52% | 0.527 | 0.50 | 242.81 | 1.46 | 1.00 | 200 | 0.824 | 0.95 | 0.343 | 0.516 | | 1.60 | **2.20** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.09 | 125.39 | 1.25 | 221.90 | 1.29 | 0.58% | 0.585 | 0.50 | 242.80 | 1.49 | 1.00 | 200 | 0.824 | 0.95 | 0.346 | 0.517 | | 1.59 | **2.19** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.14 | 125.62 | 1.26 | 219.37 | 1.34 | 0.61% | 0.614 | 0.50 | 239.59 | 1.51 | 1.00 | 200 | 0.824 | 0.95 | 0.348 | 0.517 | | 1.59 | **2.19** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.20 | 125.45 | 1.26 | 192.51 | 1.36 | 0.71% | 0.711 | 0.50 | 209.65 | 1.59 | 1.00 | 196 | 0.784 | 0.95 | 0.349 | 0.517 | | 1.52 | **2.08** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.27 | 125.75 | 1.27 | 203.84 | 1.39 | 0.68% | 0.686 | 0.50 | 221.53 | 1.56 | 1.00 | 200 | 0.824 | 0.95 | 0.352 | 0.518 | | 1.59 | **2.19** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.35 | 126.02 | 1.27 | 202.57 | 1.45 | 0.72% | 0.720 | 0.50 | 219.52 | 1.58 | 1.00 | 200 | 0.824 | 0.95 | 0.354 | 0.518 | | 1.59 | **2.19** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.40 | 126.14 | 1.27 | 202.47 | 1.47 | 0.73% | 0.731 | 0.50 | 219.03 | 1.58 | 1.00 | 200 | 0.824 | 0.95 | 0.356 | 0.519 | | 1.59 | **2.19** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.47 | 126.21 | 1.28 | 201.69 | 1.49 | 0.74% | 0.743 | 0.50 | 217.64 | 1.59 | 1.00 | 200 | 0.824 | 0.95 | 0.358 | 0.519 | | 1.59 | **2.18** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.53 | 126.29 | 1.28 | 202.37 | 1.50 | 0.74% | 0.746 | 0.50 | 217.93 | 1.59 | 1.00 | 200 | 0.824 | 0.95 | 0.360 | 0.520 | | 1.59 | **2.18** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.61 | 126.27 | 1.29 | 201.88 | 1.50 | 0.74% | 0.748 | 0.50 | 216.79 | 1.59 | 1.00 | 200 | 0.824 | 0.95 | 0.362 | 0.520 | | 1.58 | **2.18** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.66 | 126.22 | 1.29 | 201.10 | 1.49 | 0.74% | 0.746 | 0.50 | 215.57 | 1.59 | 1.00 | 200 | 0.824 | 0.95 | 0.364 | 0.520 | | 1.58 | **2.18** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.76 | 126.13 | 1.30 | 196.22 | 1.49 | 0.76% | 0.764 | 0.50 | 209.58 | 1.61 | 1.00 | 198 | 0.804 | 0.95 | 0.367 | 0.521 | | 1.54 | **2.12** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.79 | 126.11 | 1.30 | 195.24 | 1.48 | 0.76% | 0.763 | 0.50 | 208.31 | 1.61 | 1.00 | 197 | 0.792 | 0.95 | 0.368 | 0.521 | | 1.52 | **2.09** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.89 | 125.84 | 1.31 | 191.43 | 1.44 | 0.75% | 0.757 | 0.50 | 203.52 | 1.62 | 1.00 | 193 | 0.747 | 0.95 | 0.371 | 0.522 | | 1.43 | **1.97** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 21.93 | 125.78 | 1.31 | 188.89 | 1.44 | 0.76% | 0.768 | 0.50 | 200.52 | 1.62 | 1.00 | 190 | 0.720 | 0.95 | 0.372 | 0.522 | | 1.38 | **1.90** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 22.00 | 125.67 | 1.31 | 184.59 | 1.43 | 0.77% | 0.780 | 0.50 | 195.46 | 1.64 | 1.00 | 186 | 0.675 | 0.95 | 0.374 | 0.522 | | 1.29 | **1.78** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 22.06 | 125.61 | 1.32 | 180.88 | 1.42 | 0.79% | 0.791 | 0.50 | 191.11 | 1.65 | 1.00 | 182 | 0.641 | 0.95 | 0.376 | 0.523 | | 1.23 | **1.69** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 22.15 | 125.67 | 1.32 | 175.41 | 1.45 | 0.83% | 0.833 | 0.51 | 184.72 | 1.67 | 1.02 | 179 | 0.618 | 0.95 | 0.379 | 0.523 | | 1.18 | **1.62** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 22.20 | 125.72 | 1.32 | 172.87 | 1.47 | 0.85% | 0.857 | 0.51 | 181.72 | 1.69 | 1.03 | 178 | 0.608 | 0.95 | 0.381 | 0.524 | | 1.16 | **1.60** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 22.24 | 125.78 | 1.33 | 171.51 | 1.48 | 0.86% | 0.870 | 0.52 | 180.04 | 1.69 | 1.03 | 178 | 0.602 | 0.95 | 0.382 | 0.524 | | 1.15 | **1.58** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 22.33 | 125.99 | 1.33 | 169.85 | 1.53 | 0.90% | 0.908 | 0.52 | 177.74 | 1.71 | 1.04 | 178 | 0.601 | 0.95 | 0.385 | 0.524 | | 1.15 | **1.58** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 22.38 | 126.10 | 1.34 | 166.04 | 1.57 | 0.95% | 0.953 | 0.53 | 173.42 | 1.73 | 1.06 | 176 | 0.587 | 0.95 | 0.386 | 0.525 | | 1.12 | **1.54** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 22.45 | 126.75 | 1.34 | 155.20 | 1.75 | 1.13% | 1.137 | 0.55 | 161.62 | 1.81 | 1.11 | 173 | 0.558 | 0.95 | 0.388 | 0.525 | | 1.06 | **1.46** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 22.51 | 127.22 | 1.34 | 145.23 | 1.91 | 1.32% | 1.327 | 0.57 | 150.84 | 1.87 | 1.17 | 169 | 0.532 | 0.95 | 0.390 | 0.525 | | 1.01 | **1.39** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 22.60 | 127.99 | 1.35 | 127.17 | 2.22 | 1.75% | 1.764 | 0.61 | 131.49 | 2.00 | 1.30 | 166 | 0.506 | 0.95 | 0.393 | 0.526 | | 0.96 | **1.32** | | 0.000 | 0.000 | 0.000 | 4.570 | 0.000 | | |
| 22.64 | 128.24 | 1.35 | 113.69 | 2.38 | 2.09% | 2.119 | 0.64 | 117.24 | 2.10 | 1.45 | 165 | 0.494 | 0.95 | 0.394 | 0.526 | | 0.94 | **1.29** | <= | 0.276 | 0.001 | 0.000 | 4.570 | 0.000 | 22.60 | 22.64 |
| 22.73 | 121.97 | 1.36 | 90.15 | 1.09 | 1.21% | 1.228 | 0.61 | 92.41 | 2.00 | 1.31 | 117 | 0.229 | 0.95 | 0.397 | 0.527 | | 0.43 | **0.60** | <= | 2.033 | 0.022 | 0.000 | 4.569 | 0.000 | 22.64 | 22.73 |
| 22.78 | 122.35 | 1.36 | 75.11 | 1.22 | 1.62% | 1.654 | 0.65 | 76.63 | 2.15 | 1.55 | 116 | 0.224 | 0.95 | 0.399 | 0.527 | | 0.43 | **0.59** | <= | 2.050 | 0.012 | 0.000 | 4.547 | 0.000 | 22.73 | 22.78 |
| 22.86 | 122.94 | 1.37 | 60.36 | 1.42 | 2.35% | 2.407 | 0.71 | 61.15 | 2.33 | 2.05 | 123 | 0.252 | 0.95 | 0.401 | 0.527 | | 0.48 | **0.66** | <= | 1.956 | 0.019 | 0.000 | 4.534 | 0.000 | 22.78 | 22.86 |
| 22.91 | 123.07 | 1.37 | 58.31 | 1.47 | 2.52% | 2.582 | 0.72 | 58.93 | 2.36 | 2.17 | 125 | 0.262 | 0.95 | 0.403 | 0.528 | | 0.50 | **0.68** | <= | 1.926 | 0.012 | 0.000 | 4.516 | 0.000 | 22.86 | 22.91 |
| 23.00 | 123.47 | 1.37 | 59.68 | 1.54 | 2.58% | 2.641 | 0.72 | 60.17 | 2.36 | 2.17 | 128 | 0.274 | 0.95 | 0.406 | 0.528 | | 0.52 | **0.71** | <= | 1.892 | 0.020 | 0.000 | 4.504 | 0.000 | 22.91 | 23.00 |
| 23.03 | 122.38 | 1.38 | 35.84 | 1.57 | 4.38% | 4.556 | 0.81 | 35.53 | 2.69 | 3.92 | 138 | 0.322 | 0.95 | 0.407 | 0.528 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.484 | 0.000 | | |
| 23.11 | 125.36 | 1.38 | 103.63 | 1.66 | 1.60% | 1.623 | 0.62 | 105.14 | 2.04 | 1.36 | 140 | 0.333 | 0.95 | 0.409 | 0.529 | | 0.63 | **0.87** | <= | 1.143 | 0.011 | 0.000 | 4.484 | 0.000 | 23.03 | 23.11 |
| 23.19 | 126.28 | 1.39 | 136.64 | 1.71 | 1.25% | 1.264 | 0.57 | 138.72 | 1.88 | 1.17 | 158 | 0.448 | 0.95 | 0.412 | 0.529 | | 0.85 | **1.17** | <= | 0.367 | 0.004 | 0.000 | 4.473 | 0.000 | 23.11 | 23.19 |
| 23.24 | 126.63 | 1.39 | 154.51 | 1.72 | 1.11% | 1.123 | 0.55 | 156.78 | 1.81 | 1.11 | 170 | 0.534 | 0.94 | 0.413 | 0.530 | | 1.01 | **1.39** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 23.30 | 126.88 | 1.39 | 169.75 | 1.73 | 1.02% | 1.028 | 0.53 | 172.04 | 1.75 | 1.07 | 179 | 0.618 | 0.94 | 0.415 | 0.530 | | 1.17 | **1.60** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 23.38 | 127.29 | 1.40 | 186.35 | 1.77 | 0.95% | 0.957 | 0.52 | 188.50 | 1.70 | 1.04 | 191 | 0.723 | 0.94 | 0.417 | 0.530 | | 1.36 | **1.88** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 23.43 | 127.60 | 1.40 | 195.14 | 1.82 | 0.93% | 0.939 | 0.51 | 197.13 | 1.68 | 1.03 | 197 | 0.789 | 0.94 | 0.419 | 0.531 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 23.50 | 128.39 | 1.41 | 203.45 | 2.00 | 0.98% | 0.990 | 0.51 | 205.10 | 1.69 | 1.03 | 206 | 0.888 | 0.94 | 0.421 | 0.531 | | 1.67 | **2.30** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 23.56 | 128.94 | 1.41 | 208.23 | 2.14 | 1.03% | 1.035 | 0.52 | 209.52 | 1.69 | 1.03 | 207 | 0.902 | 0.94 | 0.423 | 0.531 | | 1.70 | **2.34** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 23.65 | 129.62 | 1.42 | 213.60 | 2.33 | 1.09% | 1.098 | 0.52 | 214.30 | 1.71 | 1.04 | 208 | 0.921 | 0.94 | 0.426 | 0.532 | | 1.73 | **2.38** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 23.70 | 129.93 | 1.42 | 217.31 | 2.42 | 1.11% | 1.121 | 0.52 | 217.67 | 1.71 | 1.04 | 209 | 0.924 | 0.94 | 0.427 | 0.532 | | 1.74 | **2.39** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

TEST LOCATION: **CPT-4**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft): 1 MAGNITUDE: 6.62 MAGNITUDE SCALING FACTOR: 1.38
GROUNDWATER LEVEL: 10 feet ACCELERATION: 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.79 | 130.50 | 1.43 | 220.83 | 2.60 | 1.18% | 1.185 | 0.52 | 220.53 | 1.72 | 1.05 | 210 | 0.947 | 0.94 | 0.430 | 0.532 | | 1.78 | **2.45** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 23.83 | 130.72 | 1.43 | 223.17 | 2.67 | 1.20% | 1.204 | 0.53 | 222.58 | 1.72 | 1.05 | 211 | 0.951 | 0.94 | 0.431 | 0.533 | | 1.79 | **2.46** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 23.89 | 130.94 | 1.43 | 224.54 | 2.74 | 1.22% | 1.228 | 0.53 | 223.49 | 1.73 | 1.06 | 211 | 0.959 | 0.94 | 0.433 | 0.533 | | 1.80 | **2.48** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 23.96 | 131.14 | 1.44 | 225.52 | 2.81 | 1.25% | 1.254 | 0.53 | 223.92 | 1.73 | 1.06 | 212 | 0.970 | 0.94 | 0.436 | 0.533 | | 1.82 | **2.50** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.05 | 131.24 | 1.44 | 224.54 | 2.86 | 1.27% | 1.282 | 0.53 | 222.25 | 1.74 | 1.07 | 213 | 0.985 | 0.94 | 0.438 | 0.534 | | 1.85 | **2.54** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.09 | 131.28 | 1.44 | 225.57 | 2.87 | 1.27% | 1.281 | 0.53 | 222.97 | 1.74 | 1.07 | 213 | 0.982 | 0.94 | 0.440 | 0.534 | | 1.84 | **2.53** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.17 | 131.33 | 1.45 | 224.54 | 2.89 | 1.29% | 1.295 | 0.53 | 221.33 | 1.75 | 1.07 | 214 | 0.992 | 0.94 | 0.442 | 0.534 | | 1.86 | **2.55** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.22 | 131.36 | 1.45 | 225.62 | 2.90 | 1.29% | 1.294 | 0.53 | 222.02 | 1.75 | 1.07 | 214 | 0.989 | 0.94 | 0.444 | 0.534 | | 1.85 | **2.55** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.31 | 131.40 | 1.46 | 227.76 | 2.90 | 1.27% | 1.281 | 0.53 | 223.45 | 1.74 | 1.07 | 213 | 0.980 | 0.94 | 0.446 | 0.535 | | 1.83 | **2.52** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.35 | 131.45 | 1.46 | 229.82 | 2.92 | 1.27% | 1.279 | 0.53 | 225.17 | 1.74 | 1.06 | 213 | 0.975 | 0.94 | 0.448 | 0.535 | | 1.82 | **2.51** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.41 | 131.57 | 1.47 | 232.45 | 2.95 | 1.27% | 1.277 | 0.53 | 227.30 | 1.73 | 1.06 | 212 | 0.969 | 0.94 | 0.450 | 0.535 | | 1.81 | **2.49** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.50 | 131.62 | 1.47 | 234.50 | 2.96 | 1.26% | 1.270 | 0.53 | 228.61 | 1.73 | 1.06 | 212 | 0.963 | 0.94 | 0.452 | 0.536 | | 1.80 | **2.47** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.54 | 131.62 | 1.47 | 234.11 | 2.97 | 1.27% | 1.277 | 0.53 | 227.91 | 1.73 | 1.06 | 212 | 0.967 | 0.94 | 0.454 | 0.536 | | 1.80 | **2.48** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.64 | 131.64 | 1.48 | 231.77 | 2.98 | 1.29% | 1.294 | 0.53 | 224.85 | 1.74 | 1.07 | 213 | 0.980 | 0.94 | 0.457 | 0.536 | | 1.83 | **2.51** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.68 | 131.64 | 1.48 | 229.91 | 2.99 | 1.30% | 1.309 | 0.53 | 222.73 | 1.75 | 1.07 | 214 | 0.991 | 0.94 | 0.458 | 0.536 | | 1.85 | **2.54** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.76 | 131.62 | 1.49 | 227.47 | 3.00 | 1.32% | 1.328 | 0.53 | 219.75 | 1.76 | 1.08 | 215 | 1.005 | 0.94 | 0.461 | 0.537 | | 1.87 | **2.58** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.82 | 131.58 | 1.49 | 225.81 | 2.99 | 1.32% | 1.333 | 0.54 | 217.70 | 1.76 | 1.08 | 216 | 1.012 | 0.94 | 0.462 | 0.537 | | 1.88 | **2.59** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.87 | 131.66 | 1.50 | 224.35 | 3.03 | 1.35% | 1.360 | 0.54 | 215.91 | 1.77 | 1.08 | 217 | 1.027 | 0.94 | 0.464 | 0.537 | | 1.91 | **2.63** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 24.95 | 130.20 | 1.50 | 221.42 | 2.49 | 1.12% | 1.132 | 0.52 | 212.51 | 1.71 | 1.05 | 209 | 0.931 | 0.94 | 0.466 | 0.538 | | 1.73 | **2.38** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 25.03 | 127.05 | 1.51 | 215.07 | 1.64 | 0.76% | 0.768 | 0.50 | 205.85 | 1.60 | 1.00 | 200 | 0.824 | 0.94 | 0.469 | 0.538 | | 1.53 | **2.11** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 25.08 | 127.11 | 1.51 | 209.21 | 1.66 | 0.79% | 0.799 | 0.50 | 199.89 | 1.62 | 1.00 | 200 | 0.822 | 0.94 | 0.470 | 0.538 | | 1.53 | **2.10** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 25.14 | 127.22 | 1.51 | 203.84 | 1.70 | 0.83% | 0.840 | 0.50 | 194.36 | 1.64 | 1.00 | 194 | 0.763 | 0.94 | 0.472 | 0.539 | | 1.42 | **1.95** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 25.21 | 127.36 | 1.52 | 198.07 | 1.75 | 0.88% | 0.890 | 0.51 | 188.40 | 1.67 | 1.02 | 192 | 0.740 | 0.94 | 0.475 | 0.539 | | 1.37 | **1.89** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 25.27 | 127.12 | 1.52 | 172.00 | 1.78 | 1.03% | 1.044 | 0.54 | 163.10 | 1.76 | 1.08 | 177 | 0.594 | 0.94 | 0.476 | 0.539 | | 1.10 | **1.52** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 25.34 | 127.15 | 1.53 | 173.56 | 1.78 | 1.03% | 1.035 | 0.54 | 164.23 | 1.76 | 1.08 | 178 | 0.601 | 0.94 | 0.479 | 0.539 | | 1.11 | **1.53** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 25.40 | 127.11 | 1.53 | 170.34 | 1.78 | 1.04% | 1.054 | 0.54 | 160.86 | 1.77 | 1.09 | 175 | 0.582 | 0.94 | 0.480 | 0.540 | | 1.08 | **1.48** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 25.47 | 127.01 | 1.53 | 163.11 | 1.78 | 1.09% | 1.102 | 0.55 | 153.63 | 1.80 | 1.11 | 171 | 0.543 | 0.94 | 0.483 | 0.540 | | 1.00 | **1.38** | | 0.000 | 0.000 | 0.000 | 4.469 | 0.000 | | |
| 25.56 | 126.62 | 1.54 | 149.53 | 1.74 | 1.16% | 1.176 | 0.56 | 140.33 | 1.85 | 1.14 | 161 | 0.470 | 0.94 | 0.485 | 0.540 | | 0.87 | **1.20** | <= | 0.398 | 0.004 | 0.000 | 4.469 | 0.000 | **25.47** | **25.56** |
| 25.61 | 126.16 | 1.54 | 136.35 | 1.68 | 1.23% | 1.246 | 0.58 | 127.64 | 1.89 | 1.18 | 152 | 0.406 | 0.94 | 0.487 | 0.541 | | 0.75 | **1.03** | <= | 0.478 | 0.003 | 0.000 | 4.465 | 0.000 | **25.56** | **25.61** |
| 25.68 | 125.55 | 1.55 | 121.70 | 1.61 | 1.32% | 1.340 | 0.59 | 113.52 | 1.95 | 1.24 | 142 | 0.346 | 0.94 | 0.489 | 0.541 | | 0.64 | **0.88** | <= | 1.159 | 0.010 | 0.000 | 4.462 | 0.000 | **25.61** | **25.68** |
| 25.74 | 125.10 | 1.55 | 106.46 | 1.58 | 1.48% | 1.506 | 0.62 | 98.95 | 2.03 | 1.34 | 134 | 0.302 | 0.94 | 0.491 | 0.541 | | 0.56 | **0.77** | <= | 1.666 | 0.012 | 0.000 | 4.452 | 0.000 | **25.68** | **25.74** |
| 25.80 | 124.81 | 1.56 | 91.52 | 1.60 | 1.75% | 1.778 | 0.65 | 84.70 | 2.13 | 1.51 | 129 | 0.278 | 0.94 | 0.493 | 0.541 | | 0.51 | **0.71** | <= | 1.443 | 0.010 | 0.000 | 4.440 | 0.000 | **25.74** | **25.80** |
| 25.87 | 124.66 | 1.56 | 77.45 | 1.66 | 2.14% | 2.187 | 0.68 | 71.30 | 2.24 | 1.78 | 128 | 0.275 | 0.94 | 0.495 | 0.542 | | 0.51 | **0.70** | <= | 1.890 | 0.016 | 0.000 | 4.430 | 0.000 | **25.80** | **25.87** |
| 25.92 | 124.54 | 1.56 | 68.08 | 1.70 | 2.50% | 2.556 | 0.71 | 62.41 | 2.33 | 2.06 | 129 | 0.282 | 0.94 | 0.497 | 0.542 | | 0.52 | **0.72** | <= | 1.873 | 0.011 | 0.000 | 4.414 | 0.000 | **25.87** | **25.92** |
| 26.01 | 123.97 | 1.57 | 51.57 | 1.73 | 3.35% | 3.460 | 0.76 | 46.79 | 2.51 | 2.84 | 134 | 0.303 | 0.94 | 0.500 | 0.542 | | 0.56 | **0.77** | <= | 1.822 | 0.020 | 0.000 | 4.403 | 0.000 | **25.92** | **26.01** |
| 26.07 | 123.24 | 1.57 | 41.22 | 1.69 | 4.10% | 4.262 | 0.80 | 37.04 | 2.65 | 3.65 | 136 | 0.314 | 0.94 | 0.501 | 0.543 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.12 | 122.40 | 1.57 | 36.24 | 1.57 | 4.33% | 4.529 | 0.82 | 32.34 | 2.71 | 4.08 | 135 | 0.307 | 0.94 | 0.503 | 0.543 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.18 | 121.28 | 1.58 | 30.77 | 1.42 | 4.61% | 4.864 | 0.84 | 27.19 | 2.79 | 4.68 | 154 | 0.423 | 0.94 | 0.505 | 0.543 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.25 | 120.52 | 1.58 | 27.93 | 1.32 | 4.73% | 5.010 | 0.86 | 24.49 | 2.83 | 5.04 | 166 | 0.509 | 0.94 | 0.507 | 0.543 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.32 | 120.07 | 1.59 | 25.98 | 1.27 | 4.89% | 5.206 | 0.87 | 22.63 | 2.87 | 5.38 | 177 | 0.599 | 0.94 | 0.509 | 0.544 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.41 | 119.44 | 1.59 | 23.44 | 1.21 | 5.16% | 5.538 | 0.88 | 20.22 | 2.92 | 5.90 | 195 | 0.768 | 0.94 | 0.512 | 0.544 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.45 | 119.18 | 1.59 | 23.34 | 1.17 | 5.01% | 5.380 | 0.88 | 20.11 | 2.91 | 5.84 | 193 | 0.745 | 0.94 | 0.513 | 0.544 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.51 | 118.73 | 1.60 | 22.95 | 1.11 | 4.84% | 5.199 | 0.88 | 19.71 | 2.91 | 5.80 | 191 | 0.732 | 0.94 | 0.515 | 0.545 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.59 | 118.26 | 1.60 | 22.27 | 1.05 | 4.71% | 5.081 | 0.88 | 19.04 | 2.91 | 5.85 | 193 | 0.748 | 0.94 | 0.518 | 0.545 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.64 | 118.08 | 1.61 | 20.80 | 1.05 | 5.05% | 5.470 | 0.90 | 17.66 | 2.96 | 6.32 | 209 | 0.923 | 0.94 | 0.519 | 0.545 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.72 | 118.27 | 1.61 | 20.76 | 1.07 | 5.15% | 5.588 | 0.90 | 17.58 | 2.97 | 6.40 | 211 | 0.955 | 0.94 | 0.522 | 0.546 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.78 | 118.34 | 1.61 | 20.41 | 1.09 | 5.34% | 5.799 | 0.90 | 17.23 | 2.99 | 6.59 | 217 | 1.035 | 0.94 | 0.524 | 0.546 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.85 | 118.56 | 1.62 | 20.71 | 1.12 | 5.41% | 5.866 | 0.90 | 17.47 | 2.98 | 6.57 | 217 | 1.029 | 0.94 | 0.526 | 0.546 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.94 | 118.83 | 1.62 | 21.49 | 1.15 | 5.35% | 5.789 | 0.90 | 18.14 | 2.97 | 6.40 | 211 | 0.955 | 0.94 | 0.529 | 0.547 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 26.98 | 118.95 | 1.63 | 22.27 | 1.15 | 5.16% | 5.571 | 0.89 | 18.83 | 2.94 | 6.15 | 203 | 0.858 | 0.94 | 0.530 | 0.547 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 27.04 | 119.23 | 1.63 | 24.52 | 1.16 | 4.73% | 5.068 | 0.87 | 20.85 | 2.88 | 5.55 | 183 | 0.650 | 0.94 | 0.532 | 0.547 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 27.12 | 119.62 | 1.63 | 27.74 | 1.17 | 4.22% | 4.482 | 0.85 | 23.72 | 2.81 | 4.84 | 160 | 0.458 | 0.94 | 0.534 | 0.548 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 27.17 | 119.91 | 1.64 | 30.08 | 1.19 | 3.96% | 4.184 | 0.84 | 25.81 | 2.76 | 4.44 | 147 | 0.373 | 0.94 | 0.536 | 0.548 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 27.25 | 119.75 | 1.64 | 33.40 | 1.12 | 3.35% | 3.527 | 0.81 | 28.76 | 2.67 | 3.81 | 126 | 0.265 | 0.94 | 0.538 | 0.548 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 27.30 | 119.09 | 1.65 | 34.67 | 1.01 | 2.91% | 3.058 | 0.79 | 29.87 | 2.62 | 3.45 | 114 | 0.218 | 0.94 | 0.540 | 0.548 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.383 | 0.000 | | |
| 27.39 | 115.77 | 1.65 | 36.04 | 0.64 | 1.78% | 1.861 | 0.75 | 31.04 | 2.47 | 2.63 | 87 | 0.140 | 0.94 | 0.543 | 0.549 | | 0.26 | **0.35** | <= | 2.590 | 0.028 | 0.000 | 4.383 | 0.000 | **27.30** | **27.39** |
| 27.43 | 116.92 | 1.65 | 37.11 | 0.74 | 1.99% | 2.087 | 0.76 | 31.97 | 2.49 | 2.72 | 90 | 0.148 | 0.93 | 0.544 | 0.549 | | 0.27 | **0.37** | <= | 2.514 | 0.012 | 0.000 | 4.355 | 0.000 | **27.39** | **27.43** |
| 27.51 | 118.38 | 1.66 | 38.29 | 0.89 | 2.32% | 2.430 | 0.76 | 32.97 | 2.52 | 2.88 | 97 | 0.164 | 0.93 | 0.546 | 0.549 | | 0.30 | **0.41** | <= | 2.373 | 0.023 | 0.000 | 4.343 | 0.000 | **27.43** | **27.51** |
| 27.57 | 118.78 | 1.66 | 32.33 | 0.99 | 3.06% | 3.228 | 0.81 | 27.56 | 2.66 | 3.73 | 123 | 0.253 | 0.93 | 0.548 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 4.320 | 0.000 | | |
| 27.65 | 120.60 | 1.67 | 44.44 | 1.15 | 2.59% | 2.689 | 0.76 | 38.35 | 2.50 | 2.77 | 108 | 0.197 | 0.93 | 0.551 | 0.550 | | 0.36 | **0.49** | <= | 2.167 | 0.021 | 0.000 | 4.320 | 0.000 | **27.57** | **27.65** |
| 27.70 | 120.90 | 1.67 | 44.15 | 1.20 | 2.72% | 2.825 | 0.76 | 38.04 | 2.52 | 2.86 | 111 | 0.205 | 0.93 | 0.552 | 0.550 | | 0.37 | **0.51** | <= | 2.128 | 0.013 | 0.000 | 4.299 | 0.000 | **27.65** | **27.70** |
| 27.78 | 121.33 | 1.67 | 44.15 | 1.27 | 2.88% | 2.990 | 0.77 | 37.96 | 2.53 | 2.95 | 114 | 0.217 | 0.93 | 0.555 | 0.550 | | 0.39 | **0.54** | <= | 2.078 | 0.020 | 0.000 | 4.287 | 0.000 | **27.70** | **27.78** |
| 27.83 | 121.57 | 1.68 | 44.54 | 1.31 | 2.94% | 3.056 | 0.77 | 38.25 | 2.54 | 2.97 | 116 | 0.223 | 0.93 | 0.556 | 0.551 | | 0.41 | **0.56** | <= | 2.053 | 0.012 | 0.000 | 4.267 | 0.000 | **27.78** | **27.83** |
| 27.92 | 121.82 | 1.68 | 45.90 | 1.34 | 2.92% | 3.030 | 0.77 | 39.37 | 2.53 | 2.90 | 116 | 0.227 | 0.93 | 0.559 | 0.551 | | 0.41 | **0.57** | <= | 2.041 | 0.022 | 0.000 | 4.254 | 0.000 | **27.83** | **27.92** |
| 27.96 | 121.95 | 1.68 | 47.08 | 1.35 | 2.87% | 2.974 | 0.76 | 40.37 | 2.51 | 2.83 | 116 | 0.227 | 0.93 | 0.560 | 0.551 | | 0.41 | **0.57** | <= | 2.040 | 0.010 | 0.000 | 4.232 | 0.000 | **27.92** | **27.96** |
| 28.02 | 122.11 | 1.69 | 48.84 | 1.36 | 2.78% | 2.884 | 0.76 | 41.87 | 2.49 | 2.73 | 116 | 0.226 | 0.93 | 0.562 | 0.551 | | 0.41 | **0.57** | <= | 2.042 | 0.015 | 0.000 | 4.222 | 0.000 | **27.96** | **28.02** |
| 28.09 | 122.24 | 1.69 | 49.71 | 1.38 | 2.78% | 2.874 | 0.75 | 42.56 | 2.48 | 2.69 | 117 | 0.229 | 0.93 | 0.564 | 0.552 | | 0.41 | **0.57** | <= | 2.033 | 0.017 | 0.000 | 4.208 | 0.000 | **28.02** | **28.09** |
| 28.19 | 122.55 | 1.70 | 52.84 | 1.41 | 2.67% | 2.757 | 0.74 | 45.21 | 2.45 | 2.54 | 117 | 0.230 | 0.93 | 0.568 | 0.552 | | 0.42 | **0.57** | <= | 2.027 | 0.024 | 0.000 | 4.191 | 0.000 | **28.09** | **28.19** |
| 28.23 | 122.71 | 1.70 | 54.89 | 1.42 | 2.59% | 2.670 | 0.74 | 46.97 | 2.43 | 2.44 | 117 | 0.230 | 0.93 | 0.569 | 0.552 | | 0.42 | **0.57** | <= | 2.027 | 0.010 | 0.000 | 4.166 | 0.000 | **28.19** | **28.23** |
| 28.30 | 122.92 | 1.71 | 58.21 | 1.44 | 2.47% | 2.548 | 0.73 | 49.80 | 2.40 | 2.30 | 118 | 0.231 | 0.93 | 0.571 | 0.552 | | 0.42 | **0.58** | <= | 2.025 | 0.017 | 0.000 | 4.157 | 0.000 | **28.23** | **28.30** |
| 28.36 | 123.05 | 1.71 | 60.36 | 1.45 | 2.40% | 2.472 | 0.72 | 51.61 | 2.38 | 2.22 | 118 | 0.231 | 0.93 | 0.573 | 0.553 | | 0.42 | **0.58** | <= | 2.024 | 0.015 | 0.000 | 4.140 | 0.000 | **28.30** | **28.36** |
| 28.41 | 123.17 | 1.71 | 62.41 | 1.45 | 2.32% | 2.389 | 0.71 | 53.34 | 2.36 | 2.14 | 117 | 0.230 | 0.93 | 0.574 | 0.553 | | 0.42 | **0.57** | <= | 2.028 | 0.012 | 0.000 | 4.125 | 0.000 | **28.36** | **28.41** |
| 28.50 | 123.18 | 1.72 | 65.34 | 1.43 | 2.19% | 2.248 | 0.71 | 55.77 | 2.32 | 2.03 | 116 | 0.226 | 0.93 | 0.577 | 0.553 | | 0.41 | **0.56** | <= | 2.043 | 0.022 | 0.000 | 4.113 | 0.000 | **28.41** | **28.50** |
| 28.55 | 123.17 | 1.72 | 66.51 | 1.42 | 2.14% | 2.192 | 0.70 | 56.72 | 2.31 | 1.98 | 116 | 0.224 | 0.93 | 0.579 | 0.553 | | 0.41 | **0.56** | <= | 2.050 | 0.012 | 0.000 | 4.091 | 0.000 | **28.50** | **28.55** |
| 28.63 | 123.28 | 1.73 | 67.59 | 1.44 | 2.13% | 2.186 | 0.70 | 57.54 | 2.31 | 1.97 | 116 | 0.227 | 0.93 | 0.581 | 0.554 | | 0.41 | **0.56** | <= | 2.041 | 0.020 | 0.000 | 4.079 | 0.000 | **28.55** | **28.63** |
| 28.68 | 123.45 | 1.73 | 68.95 | 1.46 | 2.12% | 2.172 | 0.70 | 58.65 | 2.30 | 1.94 | 117 | 0.229 | 0.93 | 0.583 | 0.554 | | 0.41 | **0.57** | <= | 2.030 | 0.012 | 0.000 | 4.059 | 0.000 | **28.63** | **28.68** |
| 28.77 | 123.63 | 1.73 | 71.79 | 1.48 | 2.06% | 2.113 | 0.69 | 60.97 | 2.28 | 1.87 | 118 | 0.232 | 0.93 | 0.586 | 0.554 | | 0.42 | **0.58** | <= | 2.021 | 0.022 | 0.000 | 4.047 | 0.000 | **28.68** | **28.77** |
| 28.82 | 123.67 | 1.74 | 73.25 | 1.48 | 2.02% | 2.070 | 0.69 | 62.16 | 2.26 | 1.84 | 118 | 0.232 | 0.93 | 0.587 | 0.554 | | 0.42 | **0.58** | <= | 2.020 | 0.012 | 0.000 | 4.025 | 0.000 | **28.77** | **28.82** |
| 28.89 | 123.50 | 1.74 | 74.81 | 1.43 | 1.91% | 1.957 | 0.68 | 63.39 | 2.24 | 1.77 | 116 | 0.225 | 0.93 | 0.589 | 0.555 | | 0.41 | **0.56** | <= | 2.045 | 0.017 | 0.000 | 4.013 | 0.000 | **28.82** | **28.89** |
| 28.94 | 123.40 | 1.75 | 75.21 | 1.41 | 1.87% | 1.919 | 0.68 | 63.65 | 2.23 | 1.75 | 115 | 0.223 | 0.93 | 0.591 | 0.555 | | 0.40 | **0.55** | <= | 2.056 | 0.012 | 0.000 | 3.996 | 0.000 | **28.89** | **28.94** |
| 29.04 | 123.42 | 1.75 | 75.21 | 1.41 | 1.87% | 1.919 | 0.68 | 63.48 | 2.23 | 1.75 | 115 | 0.222 | 0.93 | 0.594 | 0.555 | | 0.40 | **0.55** | <= | 2.058 | 0.025 | 0.000 | 3.983 | 0.000 | **28.94** | **29.04** |
| 29.08 | 123.26 | 1.75 | 75.21 | 1.38 | 1.83% | 1.879 | 0.68 | 63.41 | 2.23 | 1.74 | 114 | 0.218 | 0.93 | 0.595 | 0.555 | | 0.39 | **0.54** | <= | 2.074 | 0.010 | 0.000 | 3.959 | 0.000 | **29.04** | **29.08** |
| 29.16 | 121.19 | 1.76 | 74.91 | 1.04 | 1.39% | 1.422 | 0.65 | 63.02 | 2.15 | 1.55 | 102 | 0.177 | 0.93 | 0.598 | 0.556 | | 0.32 | **0.44** | <= | 2.278 | 0.022 | 0.000 | 3.949 | 0.000 | **29.08** | **29.16** |
| 29.21 | 120.53 | 1.76 | 74.52 | 0.96 | 1.29% | 1.319 | 0.65 | 62.60 | 2.13 | 1.51 | 99 | 0.169 | 0.93 | 0.599 | 0.556 | | 0.30 | **0.42** | <= | 2.334 | 0.014 | 0.000 | 3.927 | 0.000 | **29.16** | **29.21** |
| 29.29 | 121.74 | 1.77 | 74.52 | 1.13 | 1.52% | 1.553 | 0.66 | 62.47 | 2.18 | 1.61 | 105 | 0.187 | 0.93 | 0.602 | 0.556 | | 0.34 | **0.46** | <= | 2.223 | 0.021 | 0.000 | 3.913 | 0.000 | **29.21** | **29.29** |
| 29.34 | 122.47 | 1.77 | 74.52 | 1.25 | 1.68% | 1.718 | 0.67 | 62.39 | 2.21 | 1.68 | 109 | 0.200 | 0.93 | 0.603 | 0.556 | | 0.36 | **0.50** | <= | 2.152 | 0.013 | 0.000 | 3.891 | 0.000 | **29.29** | **29.34** |
| 29.43 | 123.28 | 1.78 | 74.52 | 1.39 | 1.87% | 1.911 | 0.68 | 62.24 | 2.24 | 1.76 | 114 | 0.218 | 0.93 | 0.606 | 0.556 | | 0.39 | **0.54** | <= | 2.075 | 0.022 | 0.000 | 3.879 | 0.000 | **29.34** | **29.43** |
| 29.47 | 123.48 | 1.78 | 75.01 | 1.43 | 1.91% | 1.953 | 0.68 | 62.59 | 2.24 | 1.78 | 115 | 0.223 | 0.93 | 0.607 | 0.557 | | 0.40 | **0.55** | <= | 2.054 | 0.010 | 0.000 | 3.856 | 0.000 | **29.43** | **29.47** |
| 29.53 | 123.50 | 1.78 | 75.50 | 1.43 | 1.89% | 1.940 | 0.68 | 62.91 | 2.24 | 1.77 | 115 | 0.223 | 0.93 | 0.609 | 0.557 | | 0.40 | **0.55** | <= | 2.054 | 0.015 | 0.000 | 3.846 | 0.000 | **29.47** | **29.53** |
| 29.61 | 123.49 | 1.79 | 77.75 | 1.41 | 1.81% | 1.856 | 0.67 | 64.69 | 2.22 | 1.71 | 115 | 0.221 | 0.93 | 0.612 | 0.557 | | 0.40 | **0.55** | <= | 2.062 | 0.020 | 0.000 | 3.831 | 0.000 | **29.53** | **29.61** |
| 29.70 | 123.21 | 1.79 | 80.19 | 1.35 | 1.68% | 1.722 | 0.66 | 66.61 | 2.18 | 1.63 | 113 | 0.215 | 0.93 | 0.615 | 0.557 | | 0.39 | **0.53** | <= | 2.088 | 0.023 | 0.000 | 3.812 | 0.000 | **29.61** | **29.70** |
| 29.74 | 123.03 | 1.79 | 81.46 | 1.31 | 1.61% | 1.644 | 0.66 | 67.61 | 2.17 | 1.59 | 112 | 0.211 | 0.93 | 0.616 | 0.558 | | 0.38 | **0.52** | <= | 2.105 | 0.010 | 0.000 | 3.789 | 0.000 | **29.70** | **29.74** |
| 29.80 | 122.85 | 1.80 | 83.70 | 1.26 | 1.51% | 1.538 | 0.65 | 69.40 | 2.14 | 1.53 | 111 | 0.207 | 0.93 | 0.618 | 0.558 | | 0.37 | **0.51** | <= | 2.123 | 0.015 | 0.000 | 3.779 | 0.000 | **29.74** | **29.80** |
| 29.87 | 122.64 | 1.80 | 84.87 | 1.22 | 1.44% | 1.469 | 0.64 | 70.27 | 2.12 | 1.49 | 110 | 0.203 | 0.93 | 0.620 | 0.558 | | 0.36 | **0.50** | <= | 2.140 | 0.018 | 0.000 | 3.764 | 0.000 | **29.80** | **29.87** |
| 29.96 | 122.40 | 1.81 | 85.95 | 1.18 | 1.37% | 1.402 | 0.64 | 71.01 | 2.10 | 1.46 | 109 | 0.199 | 0.93 | 0.623 | 0.558 | | 0.36 | **0.49** | <= | 2.157 | 0.023 | 0.000 | 3.746 | 0.000 | **29.87** | **29.96** |
| 30.01 | 122.50 | 1.81 | 86.34 | 1.19 | 1.38% | 1.408 | 0.64 | 71.25 | 2.10 | 1.46 | 109 | 0.201 | 0.93 | 0.624 | 0.560 | | 0.36 | **0.49** | <= | 2.150 | 0.013 | 0.000 | 3.722 | 0.000 | **29.96** | **30.01** |
| 30.07 | 122.49 | 1.81 | 86.53 | 1.19 | 1.38% | 1.405 | 0.64 | 71.30 | 2.10 | 1.46 | 109 | 0.201 | 0.93 | 0.626 | 0.560 | | 0.36 | **0.49** | <= | 2.151 | 0.015 | 0.000 | 3.710 | 0.000 | **30.01** | **30.07** |
| 30.14 | 122.51 | 1.82 | 86.44 | 1.19 | 1.38% | 1.406 | 0.64 | 71.09 | 2.10 | 1.46 | 109 | 0.200 | 0.93 | 0.628 | 0.560 | | 0.36 | **0.49** | <= | 2.152 | 0.018 | 0.000 | 3.694 | 0.000 | **30.07** | **30.14** |
| 30.18 | 122.56 | 1.82 | 86.34 | 1.20 | 1.39% | 1.420 | 0.64 | 70.93 | 2.11 | 1.47 | 109 | 0.201 | 0.93 | 0.630 | 0.560 | | 0.36 | **0.49** | <= | 2.148 | 0.010 | 0.000 | 3.676 | 0.000 | **30.14** | **30.18** |
| 30.27 | 122.67 | 1.83 | 85.36 | 1.22 | 1.43% | 1.460 | 0.64 | 69.95 | 2.12 | 1.49 | 109 | 0.202 | 0.93 | 0.632 | 0.560 | | 0.36 | **0.50** | <= | 2.144 | 0.023 | 0.000 | 3.666 | 0.000 | **30.18** | **30.27** |
| 30.32 | 122.71 | 1.83 | 84.00 | 1.24 | 1.48% | 1.509 | 0.65 | 68.72 | 2.13 | 1.52 | 110 | 0.203 | 0.93 | 0.634 | 0.560 | | 0.36 | **0.50** | <= | 2.141 | 0.013 | 0.000 | 3.643 | 0.000 | **30.27** | **30.32** |
| 30.38 | 122.87 | 1.83 | 81.46 | 1.28 | 1.57% | 1.608 | 0.66 | 66.49 | 2.16 | 1.58 | 110 | 0.205 | 0.93 | 0.636 | 0.560 | | 0.37 | **0.50** | <= | 2.131 | 0.015 | 0.000 | 3.630 | 0.000 | **30.32** | **30.38** |
| 30.45 | 122.84 | 1.84 | 78.62 | 1.29 | 1.64% | 1.680 | 0.66 | 64.00 | 2.19 | 1.64 | 110 | 0.204 | 0.93 | 0.638 | 0.560 | | 0.36 | **0.50** | <= | 2.136 | 0.018 | 0.000 | 3.614 | 0.000 | **30.38** | **30.45** |
| 30.53 | 122.29 | 1.84 | 74.62 | 1.21 | 1.62% | 1.663 | 0.67 | 60.54 | 2.20 | 1.68 | 106 | 0.192 | 0.93 | 0.641 | 0.560 | | 0.34 | **0.47** | <= | 2.194 | 0.021 | 0.000 | 3.596 | 0.000 | **30.45** | **30.53** |
| 30.59 | 121.77 | 1.85 | 71.59 | 1.15 | 1.61% | 1.649 | 0.67 | 57.93 | 2.22 | 1.71 | 104 | 0.184 | 0.93 | 0.642 | 0.560 | | 0.33 | **0.45** | <= | 2.240 | 0.016 | 0.000 | 3.575 | 0.000 | **30.53** | **30.59** |
| 30.68 | 121.81 | 1.85 | 68.76 | 1.17 | 1.70% | 1.749 | 0.68 | 55.46 | 2.25 | 1.79 | 104 | 0.185 | 0.93 | 0.645 | 0.560 | | 0.33 | **0.45** | <= | 2.234 | 0.024 | 0.000 | 3.559 | 0.000 | **30.59** | **30.68** |
| 30.72 | 121.89 | 1.85 | 66.22 | 1.20 | 1.81% | 1.864 | 0.69 | 53.30 | 2.28 | 1.88 | 105 | 0.188 | 0.93 | 0.646 | 0.559 | | 0.34 | **0.46** | <= | 2.218 | 0.011 | 0.000 | 3.535 | 0.000 | **30.68** | **30.72** |
| 30.81 | 122.16 | 1.86 | 61.24 | 1.27 | 2.07% | 2.139 | 0.71 | 49.06 | 2.35 | 2.10 | 108 | 0.197 | 0.92 | 0.649 | 0.559 | | 0.35 | **0.48** | <= | 2.171 | 0.023 | 0.000 | 3.524 | 0.000 | **30.72** | **30.81** |
| 30.85 | 122.32 | 1.86 | 59.09 | 1.32 | 2.23% | 2.307 | 0.72 | 47.23 | 2.38 | 2.23 | 110 | 0.204 | 0.92 | 0.651 | 0.559 | | 0.36 | **0.50** | <= | 2.135 | 0.010 | 0.000 | 3.501 | 0.000 | **30.81** | **30.85** |
| 30.94 | 122.51 | 1.87 | 55.77 | 1.38 | 2.47% | 2.560 | 0.74 | 44.39 | 2.43 | 2.44 | 113 | 0.214 | 0.92 | 0.653 | 0.559 | | 0.38 | **0.53** | <= | 2.091 | 0.023 | 0.000 | 3.491 | 0.000 | **30.85** | **30.94** |
| 30.97 | 122.51 | 1.87 | 53.72 | 1.40 | 2.61% | 2.700 | 0.75 | 42.67 | 2.46 | 2.57 | 114 | 0.218 | 0.92 | 0.654 | 0.559 | | 0.39 | **0.54** | <= | 2.073 | 0.007 | 0.000 | 3.468 | 0.000 | **30.94** | **30.97** |
| 31.04 | 122.54 | 1.87 | 50.50 | 1.43 | 2.83% | 2.941 | 0.76 | 39.95 | 2.51 | 2.80 | 116 | 0.226 | 0.92 | 0.656 | 0.559 | | 0.40 | **0.56** | <= | 2.044 | 0.017 | 0.000 | 3.461 | 0.000 | **30.97** | **31.04** |
| 31.12 | 122.43 | 1.88 | 47.66 | 1.44 | 3.02% | 3.145 | 0.77 | 37.54 | 2.55 | 3.01 | 117 | 0.230 | 0.92 | 0.659 | 0.559 | | 0.41 | **0.57** | <= | 2.028 | 0.019 | 0.000 | 3.444 | 0.000 | **31.04** | **31.12** |
| 31.19 | 122.26 | 1.88 | 43.95 | 1.44 | 3.28% | 3.423 | 0.79 | 34.43 | 2.60 | 3.32 | 118 | 0.234 | 0.92 | 0.661 | 0.559 | | 0.42 | **0.58** | <= | 2.013 | 0.017 | 0.000 | 3.424 | 0.000 | **31.12** | **31.19** |
| 31.26 | 122.13 | 1.89 | 40.73 | 1.45 | 3.56% | 3.733 | 0.80 | 31.74 | 2.65 | 3.66 | 121 | 0.244 | 0.92 | 0.663 | 0.559 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.407 | 0.000 | | |
| 31.30 | 121.86 | 1.89 | 39.75 | 1.41 | 3.55% | 3.724 | 0.81 | 30.90 | 2.66 | 3.71 | 122 | 0.251 | 0.92 | 0.665 | 0.559 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.407 | 0.000 | | |
| 31.39 | 118.37 | 1.89 | 36.43 | 0.90 | 2.47% | 2.606 | 0.78 | 28.13 | 2.59 | 3.25 | 107 | 0.195 | 0.92 | 0.667 | 0.559 | | 0.35 | **0.48** | <= | 2.178 | 0.024 | 0.000 | 3.407 | 0.000 | **31.30** | **31.39** |
| 31.43 | 118.57 | 1.90 | 35.94 | 0.93 | 2.59% | 2.732 | 0.79 | 27.71 | 2.61 | 3.37 | 111 | 0.207 | 0.92 | 0.669 | 0.559 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.384 | 0.000 | | |
| 31.53 | 118.97 | 1.90 | 34.58 | 1.00 | 2.89% | 3.060 | 0.80 | 26.53 | 2.65 | 3.67 | 121 | 0.245 | 0.92 | 0.672 | 0.559 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.384 | 0.000 | | |
| 31.57 | 119.03 | 1.91 | 33.89 | 1.01 | 2.98% | 3.158 | 0.81 | 25.95 | 2.67 | 3.78 | 125 | 0.260 | 0.92 | 0.673 | 0.559 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.384 | 0.000 | | |
| 31.65 | 119.17 | 1.91 | 32.52 | 1.05 | 3.23% | 3.430 | 0.82 | 24.79 | 2.71 | 4.06 | 134 | 0.303 | 0.92 | 0.675 | 0.559 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.384 | 0.000 | | |
| 31.71 | 120.26 | 1.91 | 43.56 | 1.10 | 2.53% | 2.641 | 0.77 | 33.68 | 2.53 | 2.93 | 103 | 0.180 | 0.92 | 0.677 | 0.559 | | 0.32 | **0.44** | <= | 2.260 | 0.016 | 0.000 | 3.384 | 0.000 | **31.65** | **31.71** |
| 31.79 | 121.40 | 1.92 | 54.99 | 1.19 | 2.16% | 2.242 | 0.73 | 42.83 | 2.40 | 2.32 | 104 | 0.185 | 0.92 | 0.680 | 0.559 | | 0.33 | **0.46** | <= | 2.230 | 0.021 | 0.000 | 3.367 | 0.000 | **31.71** | **31.79** |
| 31.83 | 121.65 | 1.92 | 63.49 | 1.17 | 1.84% | 1.900 | 0.70 | 49.64 | 2.31 | 1.96 | 103 | 0.181 | 0.92 | 0.681 | 0.559 | | 0.32 | **0.45** | <= | 2.255 | 0.011 | 0.000 | 3.346 | 0.000 | **31.79** | **31.83** |
| 31.91 | 121.93 | 1.93 | 82.24 | 1.12 | 1.36% | 1.395 | 0.65 | 64.63 | 2.13 | 1.51 | 104 | 0.184 | 0.92 | 0.684 | 0.559 | | 0.33 | **0.45** | <= | 2.240 | 0.022 | 0.000 | 3.335 | 0.000 | **31.83** | **31.91** |
| 31.97 | 122.05 | 1.93 | 91.91 | 1.10 | 1.20% | 1.222 | 0.62 | 72.31 | 2.05 | 1.37 | 106 | 0.192 | 0.92 | 0.685 | 0.559 | | 0.34 | **0.47** | <= | 2.196 | 0.016 | 0.000 | 3.314 | 0.000 | **31.91** | **31.97** |
| 32.05 | 122.41 | 1.93 | 99.62 | 1.12 | 1.12% | 1.147 | 0.61 | 78.35 | 2.01 | 1.31 | 110 | 0.204 | 0.91 | 0.688 | 0.559 | | 0.36 | **0.50** | <= | 2.136 | 0.021 | 0.000 | 3.298 | 0.000 | **31.97** | **32.05** |
| 32.11 | 122.65 | 1.94 | 103.24 | 1.14 | 1.10% | 1.125 | 0.60 | 81.13 | 1.99 | 1.29 | 112 | 0.211 | 0.91 | 0.690 | 0.559 | | 0.38 | **0.52** | <= | 2.103 | 0.015 | 0.000 | 3.277 | 0.000 | **32.05** | **32.11** |
| 32.15 | 122.76 | 1.94 | 104.99 | 1.16 | 1.10% | 1.126 | 0.60 | 82.45 | 1.98 | 1.28 | 113 | 0.216 | 0.91 | 0.691 | 0.559 | | 0.39 | **0.53** | <= | 2.084 | 0.010 | 0.000 | 3.262 | 0.000 | **32.11** | **32.15** |
| 32.24 | 122.79 | 1.95 | 105.09 | 1.16 | 1.10% | 1.125 | 0.60 | 82.35 | 1.98 | 1.28 | 113 | 0.215 | 0.91 | 0.694 | 0.559 | | 0.39 | **0.53** | <= | 2.085 | 0.023 | 0.000 | 3.252 | 0.000 | **32.15** | **32.24** |
| 32.29 | 122.74 | 1.95 | 101.77 | 1.16 | 1.14% | 1.162 | 0.61 | 79.60 | 2.00 | 1.30 | 112 | 0.210 | 0.91 | 0.695 | 0.559 | | 0.38 | **0.52** | <= | 2.109 | 0.013 | 0.000 | 3.230 | 0.000 | **32.24** | **32.29** |
| 32.38 | 122.61 | 1.96 | 92.20 | 1.18 | 1.28% | 1.308 | 0.63 | 71.81 | 2.07 | 1.41 | 108 | 0.198 | 0.91 | 0.698 | 0.559 | | 0.35 | **0.49** | <= | 2.163 | 0.023 | 0.000 | 3.217 | 0.000 | **32.29** | **32.38** |
| 32.42 | 122.55 | 1.96 | 86.34 | 1.20 | 1.39% | 1.422 | 0.64 | 67.08 | 2.12 | 1.49 | 107 | 0.194 | 0.91 | 0.700 | 0.559 | | 0.35 | **0.48** | <= | 2.185 | 0.010 | 0.000 | 3.194 | 0.000 | **32.38** | **32.42** |
| 32.49 | 122.50 | 1.96 | 77.94 | 1.23 | 1.58% | 1.619 | 0.67 | 60.30 | 2.19 | 1.65 | 106 | 0.190 | 0.91 | 0.702 | 0.559 | | 0.34 | **0.47** | <= | 2.202 | 0.019 | 0.000 | 3.183 | 0.000 | **32.42** | **32.49** |
| 32.55 | 122.46 | 1.97 | 71.79 | 1.26 | 1.76% | 1.805 | 0.68 | 55.33 | 2.25 | 1.80 | 106 | 0.191 | 0.91 | 0.704 | 0.559 | | 0.34 | **0.47** | <= | 2.199 | 0.016 | 0.000 | 3.165 | 0.000 | **32.49** | **32.55** |
| 32.64 | 122.39 | 1.97 | 64.17 | 1.29 | 2.01% | 2.074 | 0.71 | 49.19 | 2.33 | 2.05 | 107 | 0.194 | 0.91 | 0.706 | 0.558 | | 0.35 | **0.48** | <= | 2.185 | 0.024 | 0.000 | 3.149 | 0.000 | **32.55** | **32.64** |
| 32.68 | 122.22 | 1.97 | 60.26 | 1.29 | 2.14% | 2.213 | 0.72 | 46.05 | 2.37 | 2.20 | 107 | 0.195 | 0.91 | 0.708 | 0.558 | | 0.35 | **0.48** | <= | 2.181 | 0.010 | 0.000 | 3.125 | 0.000 | **32.64** | **32.68** |
| 32.75 | 121.45 | 1.98 | 54.40 | 1.20 | 2.21% | 2.289 | 0.73 | 41.35 | 2.42 | 2.39 | 104 | 0.185 | 0.91 | 0.710 | 0.558 | | 0.33 | **0.46** | <= | 2.234 | 0.019 | 0.000 | 3.115 | 0.000 | **32.68** | **32.75** |
| 32.82 | 120.45 | 1.98 | 51.18 | 1.07 | 2.09% | 2.175 | 0.74 | 38.74 | 2.43 | 2.42 | 99 | 0.170 | 0.91 | 0.712 | 0.558 | | 0.30 | **0.42** | <= | 2.330 | 0.020 | 0.000 | 3.096 | 0.000 | **32.75** | **32.82** |
| 32.88 | 120.04 | 1.99 | 46.88 | 1.04 | 2.22% | 2.317 | 0.75 | 35.31 | 2.47 | 2.64 | 98 | 0.168 | 0.91 | 0.714 | 0.558 | | 0.30 | **0.41** | <= | 2.343 | 0.017 | 0.000 | 3.076 | 0.000 | **32.82** | **32.88** |
| 32.95 | 120.00 | 1.99 | 41.41 | 1.08 | 2.61% | 2.740 | 0.78 | 30.95 | 2.57 | 3.13 | 103 | 0.182 | 0.91 | 0.716 | 0.558 | | 0.33 | **0.45** | <= | 2.247 | 0.019 | 0.000 | 3.060 | 0.000 | **32.88** | **32.95** |
| 33.02 | 119.84 | 1.99 | 34.38 | 1.12 | 3.26% | 3.458 | 0.82 | 25.39 | 2.70 | 4.00 | 132 | 0.294 | 0.91 | 0.718 | 0.558 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.041 | 0.000 | | |
| 33.09 | 119.51 | 2.00 | 29.20 | 1.14 | 3.90% | 4.191 | 0.85 | 21.29 | 2.82 | 4.91 | 162 | 0.477 | 0.91 | 0.720 | 0.558 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.041 | 0.000 | | |
| 33.17 | 118.94 | 2.00 | 25.10 | 1.10 | 4.38% | 4.762 | 0.88 | 18.05 | 2.91 | 5.77 | 191 | 0.723 | 0.91 | 0.723 | 0.558 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.041 | 0.000 | | |
| 33.22 | 118.48 | 2.01 | 22.95 | 1.07 | 4.66% | 5.109 | 0.90 | 16.35 | 2.96 | 6.32 | 209 | 0.924 | 0.90 | 0.724 | 0.558 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.041 | 0.000 | | |
| 33.27 | 117.97 | 2.01 | 20.71 | 1.03 | 4.97% | 5.508 | 0.91 | 14.58 | 3.02 | 6.98 | 230 | 1.219 | 0.90 | 0.726 | 0.558 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.041 | 0.000 | | |
| 33.35 | 117.49 | 2.01 | 18.56 | 1.00 | 5.39% | 6.044 | 0.93 | 12.88 | 3.09 | 7.80 | 257 | 1.666 | 0.90 | 0.729 | 0.558 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.041 | 0.000 | | |
| 33.40 | 117.50 | 2.02 | 18.66 | 1.00 | 5.36% | 6.008 | 0.93 | 12.94 | 3.09 | 7.76 | 256 | 1.641 | 0.90 | 0.730 | 0.558 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.041 | 0.000 | | |
| 33.48 | 117.50 | 2.02 | 18.66 | 1.00 | 5.36% | 6.010 | 0.93 | 12.91 | 3.09 | 7.77 | 256 | 1.647 | 0.90 | 0.733 | 0.558 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.041 | 0.000 | | |
| 33.57 | 117.32 | 2.03 | 18.75 | 0.98 | 5.23% | 5.860 | 0.93 | 12.95 | 3.08 | 7.67 | 253 | 1.585 | 0.90 | 0.735 | 0.558 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.041 | 0.000 | | |
| 33.60 | 117.71 | 2.03 | 23.25 | 0.96 | 4.13% | 4.524 | 0.89 | 16.43 | 2.92 | 5.94 | 196 | 0.780 | 0.90 | 0.736 | 0.558 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.041 | 0.000 | | |
| 33.67 | 118.46 | 2.03 | 35.65 | 0.92 | 2.58% | 2.737 | 0.80 | 25.99 | 2.63 | 3.48 | 115 | 0.221 | 0.90 | 0.739 | 0.558 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.041 | 0.000 | | |
| 33.75 | 119.89 | 2.04 | 54.60 | 0.97 | 1.78% | 1.845 | 0.72 | 40.56 | 2.36 | 2.16 | 93 | 0.155 | 0.90 | 0.741 | 0.558 | | 0.28 | **0.38** | <= | 2.440 | 0.023 | 0.000 | 3.041 | 0.000 | **33.67** | **33.75** |
| 33.80 | 120.75 | 2.04 | 68.08 | 1.01 | 1.48% | 1.529 | 0.68 | 50.90 | 2.23 | 1.74 | 95 | 0.161 | 0.90 | 0.743 | 0.558 | | 0.29 | **0.40** | <= | 2.397 | 0.014 | 0.000 | 3.017 | 0.000 | **33.75** | **33.80** |
| 33.87 | 120.48 | 2.04 | 83.90 | 0.91 | 1.08% | 1.112 | 0.63 | 62.99 | 2.07 | 1.40 | 96 | 0.162 | 0.90 | 0.745 | 0.557 | | 0.29 | **0.40** | <= | 2.389 | 0.020 | 0.000 | 3.003 | 0.000 | **33.80** | **33.87** |
| 33.94 | 119.48 | 2.05 | 92.79 | 0.77 | 0.83% | 0.849 | 0.60 | 69.72 | 1.96 | 1.25 | 95 | 0.161 | 0.90 | 0.747 | 0.557 | | 0.29 | **0.40** | <= | 2.395 | 0.020 | 0.000 | 2.983 | 0.000 | **33.87** | **33.94** |
| 34.02 | 120.49 | 2.05 | 97.18 | 0.87 | 0.90% | 0.915 | 0.60 | 72.96 | 1.96 | 1.25 | 100 | 0.174 | 0.90 | 0.749 | 0.557 | | 0.31 | **0.43** | <= | 2.302 | 0.022 | 0.000 | 2.963 | 0.000 | **33.94** | **34.02** |
| 34.06 | 120.97 | 2.06 | 98.16 | 0.93 | 0.95% | 0.968 | 0.60 | 73.64 | 1.97 | 1.27 | 102 | 0.179 | 0.90 | 0.751 | 0.557 | | 0.32 | **0.44** | <= | 2.266 | 0.011 | 0.000 | 2.941 | 0.000 | **34.02** | **34.06** |
| 34.15 | 121.93 | 2.06 | 94.74 | 1.07 | 1.13% | 1.155 | 0.62 | 70.87 | 2.04 | 1.35 | 104 | 0.186 | 0.90 | 0.753 | 0.557 | | 0.33 | **0.46** | <= | 2.228 | 0.024 | 0.000 | 2.930 | 0.000 | **34.06** | **34.15** |
| 34.20 | 122.39 | 2.06 | 90.64 | 1.15 | 1.27% | 1.298 | 0.63 | 67.66 | 2.09 | 1.43 | 105 | 0.188 | 0.90 | 0.755 | 0.557 | | 0.34 | **0.46** | <= | 2.215 | 0.013 | 0.000 | 2.906 | 0.000 | **34.15** | **34.20** |
| 34.25 | 122.72 | 2.07 | 82.34 | 1.25 | 1.52% | 1.557 | 0.66 | 61.25 | 2.17 | 1.60 | 106 | 0.191 | 0.90 | 0.757 | 0.557 | | 0.34 | **0.47** | <= | 2.202 | 0.013 | 0.000 | 2.892 | 0.000 | **34.20** | **34.25** |
| 34.33 | 123.44 | 2.07 | 81.26 | 1.38 | 1.70% | 1.743 | 0.67 | 60.31 | 2.21 | 1.69 | 110 | 0.204 | 0.90 | 0.759 | 0.557 | | 0.37 | **0.50** | <= | 2.137 | 0.021 | 0.000 | 2.879 | 0.000 | **34.25** | **34.33** |
| 34.39 | 123.90 | 2.08 | 80.19 | 1.48 | 1.85% | 1.895 | 0.68 | 59.40 | 2.24 | 1.77 | 113 | 0.214 | 0.90 | 0.761 | 0.557 | | 0.39 | **0.53** | <= | 2.089 | 0.015 | 0.000 | 2.859 | 0.000 | **34.33** | **34.39** |
| 34.46 | 124.49 | 2.08 | 79.31 | 1.61 | 2.03% | 2.085 | 0.69 | 58.63 | 2.27 | 1.86 | 117 | 0.230 | 0.89 | 0.763 | 0.557 | | 0.41 | **0.57** | <= | 2.028 | 0.017 | 0.000 | 2.844 | 0.000 | **34.39** | **34.46** |
| 34.54 | 124.85 | 2.09 | 83.41 | 1.66 | 1.99% | 2.041 | 0.68 | 61.63 | 2.25 | 1.79 | 119 | 0.237 | 0.89 | 0.766 | 0.557 | | 0.43 | **0.59** | <= | 2.002 | 0.019 | 0.000 | 2.827 | 0.000 | **34.46** | **34.54** |
| 34.58 | 125.04 | 2.09 | 91.32 | 1.65 | 1.81% | 1.849 | 0.66 | 67.55 | 2.19 | 1.64 | 120 | 0.240 | 0.89 | 0.767 | 0.557 | | 0.43 | **0.59** | <= | 1.992 | 0.010 | 0.000 | 2.807 | 0.000 | **34.54** | **34.58** |
| 34.65 | 124.84 | 2.09 | 102.94 | 1.55 | 1.51% | 1.537 | 0.64 | 76.22 | 2.09 | 1.44 | 120 | 0.241 | 0.89 | 0.769 | 0.556 | | 0.43 | **0.60** | <= | 1.991 | 0.017 | 0.000 | 2.798 | 0.000 | **34.58** | **34.65** |
| 34.73 | 124.63 | 2.10 | 109.00 | 1.47 | 1.35% | 1.375 | 0.62 | 80.65 | 2.04 | 1.36 | 120 | 0.241 | 0.89 | 0.772 | 0.556 | | 0.43 | **0.60** | <= | 1.991 | 0.019 | 0.000 | 2.781 | 0.000 | **34.65** | **34.73** |
| 34.78 | 124.55 | 2.10 | 113.49 | 1.44 | 1.27% | 1.293 | 0.61 | 83.93 | 2.01 | 1.31 | 121 | 0.245 | 0.89 | 0.773 | 0.556 | | 0.44 | **0.61** | <= | 1.976 | 0.012 | 0.000 | 2.762 | 0.000 | **34.73** | **34.78** |
| 34.85 | 124.39 | 2.10 | 112.81 | 1.41 | 1.25% | 1.274 | 0.61 | 83.28 | 2.01 | 1.31 | 120 | 0.241 | 0.89 | 0.775 | 0.556 | | 0.43 | **0.60** | <= | 1.991 | 0.017 | 0.000 | 2.750 | 0.000 | **34.78** | **34.85** |
| 34.93 | 124.12 | 2.11 | 104.51 | 1.39 | 1.33% | 1.357 | 0.62 | 76.89 | 2.05 | 1.37 | 116 | 0.225 | 0.89 | 0.778 | 0.556 | | 0.41 | **0.56** | <= | 2.046 | 0.020 | 0.000 | 2.733 | 0.000 | **34.85** | **34.93** |
| 34.99 | 123.80 | 2.11 | 92.10 | 1.39 | 1.51% | 1.545 | 0.65 | 67.48 | 2.13 | 1.52 | 112 | 0.210 | 0.89 | 0.780 | 0.556 | | 0.38 | **0.52** | <= | 2.106 | 0.015 | 0.000 | 2.714 | 0.000 | **34.93** | **34.99** |
| 35.05 | 123.51 | 2.12 | 81.65 | 1.39 | 1.70% | 1.748 | 0.67 | 59.56 | 2.21 | 1.70 | 110 | 0.203 | 0.89 | 0.782 | 0.556 | | 0.36 | **0.50** | <= | 2.141 | 0.015 | 0.000 | 2.699 | 0.000 | **34.99** | **35.05** |
| 35.13 | 123.16 | 2.12 | 71.01 | 1.39 | 1.96% | 2.018 | 0.70 | 51.49 | 2.30 | 1.96 | 109 | 0.199 | 0.89 | 0.784 | 0.556 | | 0.36 | **0.49** | <= | 2.156 | 0.021 | 0.000 | 2.683 | 0.000 | **35.05** | **35.13** |
| 35.18 | 122.80 | 2.12 | 61.34 | 1.39 | 2.27% | 2.347 | 0.73 | 44.21 | 2.40 | 2.30 | 109 | 0.201 | 0.89 | 0.786 | 0.556 | | 0.36 | **0.50** | <= | 2.150 | 0.013 | 0.000 | 2.662 | 0.000 | **35.13** | **35.18** |
| 35.26 | 122.36 | 2.13 | 51.18 | 1.39 | 2.72% | 2.834 | 0.76 | 36.56 | 2.52 | 2.85 | 111 | 0.207 | 0.89 | 0.788 | 0.555 | | 0.37 | **0.51** | <= | 2.123 | 0.020 | 0.000 | 2.649 | 0.000 | **35.18** | **35.26** |
| 35.31 | 121.95 | 2.13 | 42.29 | 1.40 | 3.31% | 3.486 | 0.80 | 29.90 | 2.65 | 3.61 | 119 | 0.238 | 0.89 | 0.790 | 0.555 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 35.40 | 121.56 | 2.14 | 35.26 | 1.41 | 4.00% | 4.257 | 0.84 | 24.61 | 2.77 | 4.53 | 149 | 0.390 | 0.89 | 0.792 | 0.555 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 35.44 | 120.76 | 2.14 | 27.64 | 1.37 | 4.96% | 5.373 | 0.89 | 18.93 | 2.93 | 5.95 | 196 | 0.783 | 0.89 | 0.794 | 0.555 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 35.51 | 120.38 | 2.15 | 30.77 | 1.26 | 4.09% | 4.402 | 0.86 | 21.22 | 2.83 | 5.03 | 166 | 0.505 | 0.89 | 0.796 | 0.555 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 35.57 | 119.69 | 2.15 | 29.40 | 1.16 | 3.95% | 4.257 | 0.86 | 20.17 | 2.84 | 5.09 | 168 | 0.521 | 0.89 | 0.798 | 0.555 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |

# LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-4

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**Analysis Scenario:** MCE (2% exceedance probability in 50 years)

**D(ft)** 1 **MAGNITUDE:** 6.62 **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35.64 | 118.67 | 2.15 | 24.71 | 1.07 | 4.33% | 4.743 | 0.89 | 16.67 | 2.93 | 6.01 | 198 | 0.805 | 0.89 | 0.800 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 35.71 | 117.89 | 2.16 | 21.68 | 1.00 | 4.61% | 5.122 | 0.91 | 14.41 | 3.00 | 6.77 | 224 | 1.119 | 0.88 | 0.802 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 35.77 | 117.10 | 2.16 | 19.63 | 0.93 | 4.74% | 5.324 | 0.92 | 12.88 | 3.05 | 7.34 | 242 | 1.404 | 0.88 | 0.804 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 35.84 | 115.78 | 2.16 | 16.70 | 0.82 | 4.91% | 5.641 | 0.95 | 10.70 | 3.13 | 8.34 | 275 | 2.020 | 0.88 | 0.806 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 35.91 | 114.72 | 2.17 | 15.63 | 0.73 | 4.67% | 5.423 | 0.95 | 9.90 | 3.15 | 8.55 | 282 | 2.172 | 0.88 | 0.808 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 35.97 | 113.77 | 2.17 | 13.58 | 0.67 | 4.93% | 5.873 | 0.98 | 8.38 | 3.23 | 9.66 | 319 | 3.096 | 0.88 | 0.810 | 0.555 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.04 | 113.36 | 2.18 | 14.06 | 0.62 | 4.41% | 5.217 | 0.96 | 8.72 | 3.18 | 9.01 | 297 | 2.527 | 0.88 | 0.812 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.12 | 112.14 | 2.18 | 12.50 | 0.55 | 4.40% | 5.330 | 0.98 | 7.56 | 3.24 | 9.81 | 324 | 3.235 | 0.88 | 0.815 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.17 | 111.76 | 2.18 | 12.01 | 0.53 | 4.41% | 5.393 | 0.99 | 7.19 | 3.26 | 10.12 | 334 | 3.542 | 0.88 | 0.817 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.26 | 111.62 | 2.19 | 12.31 | 0.51 | 4.14% | 5.039 | 0.98 | 7.39 | 3.23 | 9.71 | 320 | 3.136 | 0.88 | 0.819 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.31 | 111.73 | 2.19 | 12.31 | 0.52 | 4.22% | 5.139 | 0.98 | 7.39 | 3.24 | 9.79 | 323 | 3.214 | 0.88 | 0.821 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.39 | 112.08 | 2.20 | 12.01 | 0.55 | 4.58% | 5.604 | 0.99 | 7.15 | 3.27 | 10.30 | 340 | 3.731 | 0.88 | 0.823 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.44 | 112.54 | 2.20 | 12.50 | 0.58 | 4.64% | 5.630 | 0.99 | 7.50 | 3.26 | 10.06 | 332 | 3.488 | 0.88 | 0.825 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.48 | 113.04 | 2.20 | 12.99 | 0.61 | 4.70% | 5.654 | 0.98 | 7.85 | 3.24 | 9.84 | 325 | 3.269 | 0.88 | 0.826 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.57 | 114.45 | 2.21 | 15.24 | 0.70 | 4.59% | 5.370 | 0.96 | 9.47 | 3.16 | 8.72 | 288 | 2.298 | 0.88 | 0.829 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.62 | 115.01 | 2.21 | 15.33 | 0.76 | 4.96% | 5.792 | 0.96 | 9.52 | 3.18 | 8.98 | 296 | 2.499 | 0.88 | 0.831 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.70 | 117.05 | 2.21 | 18.46 | 0.94 | 5.09% | 5.786 | 0.94 | 11.77 | 3.11 | 8.01 | 264 | 1.796 | 0.88 | 0.833 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.75 | 118.20 | 2.22 | 20.90 | 1.06 | 5.07% | 5.673 | 0.92 | 13.52 | 3.05 | 7.36 | 243 | 1.411 | 0.88 | 0.835 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.84 | 119.98 | 2.22 | 25.00 | 1.27 | 5.08% | 5.575 | 0.90 | 16.46 | 2.98 | 6.54 | 216 | 1.016 | 0.88 | 0.837 | 0.554 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.88 | 120.96 | 2.22 | 26.66 | 1.42 | 5.33% | 5.811 | 0.90 | 17.64 | 2.97 | 6.42 | 212 | 0.966 | 0.88 | 0.839 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 36.96 | 121.70 | 2.23 | 28.71 | 1.54 | 5.36% | 5.815 | 0.89 | 19.08 | 2.94 | 6.15 | 203 | 0.858 | 0.87 | 0.841 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.02 | 122.13 | 2.23 | 29.89 | 1.61 | 5.39% | 5.821 | 0.89 | 19.90 | 2.93 | 6.01 | 198 | 0.806 | 0.87 | 0.843 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.10 | 123.43 | 2.24 | 35.65 | 1.81 | 5.08% | 5.417 | 0.86 | 24.00 | 2.85 | 5.21 | 172 | 0.552 | 0.87 | 0.846 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.16 | 124.27 | 2.24 | 42.49 | 1.92 | 4.52% | 4.770 | 0.83 | 28.88 | 2.75 | 4.37 | 144 | 0.358 | 0.87 | 0.847 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.24 | 124.79 | 2.25 | 49.71 | 1.95 | 3.92% | 4.108 | 0.80 | 33.99 | 2.65 | 3.65 | 131 | 0.291 | 0.87 | 0.850 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.27 | 124.62 | 2.25 | 48.15 | 1.93 | 4.01% | 4.205 | 0.81 | 32.85 | 2.67 | 3.77 | 131 | 0.290 | 0.87 | 0.851 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.37 | 123.42 | 2.25 | 37.31 | 1.79 | 4.80% | 5.106 | 0.85 | 25.03 | 2.82 | 4.92 | 162 | 0.479 | 0.87 | 0.854 | 0.553 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.42 | 120.87 | 2.26 | 27.45 | 1.40 | 5.10% | 5.557 | 0.89 | 17.97 | 2.95 | 6.21 | 205 | 0.882 | 0.87 | 0.856 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.51 | 116.16 | 2.26 | 21.68 | 0.79 | 3.64% | 4.068 | 0.89 | 13.83 | 2.95 | 6.21 | 205 | 0.882 | 0.87 | 0.858 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.55 | 116.10 | 2.26 | 20.41 | 0.80 | 3.92% | 4.409 | 0.91 | 12.91 | 3.00 | 6.71 | 222 | 1.091 | 0.87 | 0.860 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.60 | 115.84 | 2.27 | 19.44 | 0.79 | 4.06% | 4.600 | 0.92 | 12.21 | 3.03 | 7.07 | 233 | 1.261 | 0.87 | 0.861 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.69 | 115.49 | 2.27 | 18.26 | 0.77 | 4.22% | 4.816 | 0.93 | 11.35 | 3.07 | 7.52 | 248 | 1.503 | 0.87 | 0.864 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.76 | 115.29 | 2.28 | 16.80 | 0.77 | 4.58% | 5.302 | 0.95 | 10.29 | 3.13 | 8.28 | 273 | 1.980 | 0.87 | 0.866 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.81 | 115.36 | 2.28 | 16.99 | 0.77 | 4.53% | 5.234 | 0.94 | 10.42 | 3.12 | 8.18 | 270 | 1.912 | 0.87 | 0.868 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.88 | 115.48 | 2.28 | 16.99 | 0.78 | 4.59% | 5.304 | 0.95 | 10.40 | 3.12 | 8.24 | 272 | 1.948 | 0.87 | 0.870 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 37.93 | 115.41 | 2.29 | 16.21 | 0.79 | 4.87% | 5.674 | 0.96 | 9.84 | 3.16 | 8.74 | 288 | 2.312 | 0.87 | 0.871 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.01 | 115.18 | 2.29 | 15.63 | 0.77 | 4.93% | 5.773 | 0.96 | 9.41 | 3.18 | 9.02 | 298 | 2.531 | 0.87 | 0.874 | 0.552 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.09 | 114.90 | 2.30 | 15.63 | 0.74 | 4.73% | 5.550 | 0.96 | 9.39 | 3.17 | 8.88 | 293 | 2.418 | 0.87 | 0.876 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.15 | 114.65 | 2.30 | 15.63 | 0.72 | 4.61% | 5.401 | 0.96 | 9.38 | 3.17 | 8.78 | 290 | 2.343 | 0.86 | 0.878 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.19 | 114.50 | 2.30 | 15.92 | 0.70 | 4.40% | 5.140 | 0.95 | 9.58 | 3.14 | 8.50 | 281 | 2.134 | 0.86 | 0.880 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.28 | 109.95 | 2.31 | 14.85 | 0.39 | 2.63% | 3.109 | 0.92 | 8.81 | 3.04 | 7.23 | 238 | 1.341 | 0.86 | 0.882 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.33 | 108.64 | 2.31 | 15.24 | 0.32 | 2.10% | 2.475 | 0.90 | 9.07 | 2.97 | 6.46 | 213 | 0.982 | 0.86 | 0.884 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.42 | 111.03 | 2.31 | 15.24 | 0.44 | 2.89% | 3.404 | 0.92 | 9.05 | 3.06 | 7.38 | 243 | 1.422 | 0.86 | 0.887 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.46 | 112.36 | 2.32 | 15.63 | 0.53 | 3.39% | 3.981 | 0.93 | 9.32 | 3.09 | 7.75 | 256 | 1.633 | 0.86 | 0.888 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.55 | 114.81 | 2.32 | 16.90 | 0.72 | 4.26% | 4.939 | 0.94 | 10.19 | 3.11 | 8.07 | 266 | 1.840 | 0.86 | 0.891 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.60 | 115.20 | 2.32 | 13.09 | 0.82 | 6.26% | 7.617 | 1.00 | 7.52 | 3.34 | 11.32 | 374 | 4.930 | 0.86 | 0.892 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.65 | 116.85 | 2.33 | 18.17 | 0.92 | 5.06% | 5.807 | 0.95 | 11.05 | 3.13 | 8.29 | 274 | 1.985 | 0.86 | 0.894 | 0.551 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.74 | 117.76 | 2.33 | 20.51 | 1.01 | 4.92% | 5.556 | 0.93 | 12.66 | 3.07 | 7.55 | 249 | 1.516 | 0.86 | 0.897 | 0.550 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.78 | 118.09 | 2.34 | 21.59 | 1.03 | 4.77% | 5.349 | 0.92 | 13.40 | 3.04 | 7.18 | 237 | 1.319 | 0.86 | 0.898 | 0.550 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.87 | 118.04 | 2.34 | 23.73 | 1.00 | 4.21% | 4.675 | 0.90 | 14.86 | 2.96 | 6.35 | 210 | 0.937 | 0.86 | 0.901 | 0.550 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.96 | 117.73 | 2.35 | 24.52 | 0.94 | 3.83% | 4.239 | 0.89 | 15.37 | 2.92 | 5.94 | 196 | 0.780 | 0.86 | 0.904 | 0.550 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 38.99 | 117.51 | 2.35 | 23.73 | 0.93 | 3.92% | 4.349 | 0.89 | 14.82 | 2.94 | 6.15 | 203 | 0.856 | 0.86 | 0.904 | 0.550 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.05 | 117.16 | 2.35 | 22.17 | 0.90 | 4.06% | 4.541 | 0.90 | 13.72 | 2.98 | 6.56 | 217 | 1.024 | 0.86 | 0.906 | 0.550 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.14 | 116.19 | 2.36 | 19.05 | 0.83 | 4.36% | 4.972 | 0.93 | 11.54 | 3.07 | 7.55 | 249 | 1.519 | 0.86 | 0.909 | 0.550 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.19 | 115.44 | 2.36 | 17.58 | 0.77 | 4.38% | 5.059 | 0.94 | 10.51 | 3.11 | 8.02 | 265 | 1.802 | 0.86 | 0.911 | 0.550 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.27 | 113.81 | 2.36 | 14.94 | 0.65 | 4.35% | 5.168 | 0.96 | 8.67 | 3.18 | 8.99 | 297 | 2.510 | 0.86 | 0.913 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.31 | 113.14 | 2.37 | 14.65 | 0.60 | 4.10% | 4.884 | 0.96 | 8.46 | 3.17 | 8.90 | 294 | 2.437 | 0.86 | 0.914 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.38 | 112.36 | 2.37 | 14.46 | 0.54 | 3.73% | 4.466 | 0.96 | 8.32 | 3.16 | 8.66 | 286 | 2.251 | 0.86 | 0.917 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.45 | 111.52 | 2.37 | 13.58 | 0.49 | 3.61% | 4.373 | 0.96 | 7.70 | 3.18 | 8.96 | 296 | 2.487 | 0.85 | 0.919 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.53 | 110.74 | 2.38 | 13.48 | 0.44 | 3.26% | 3.963 | 0.96 | 7.62 | 3.16 | 8.67 | 286 | 2.257 | 0.85 | 0.921 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.57 | 110.37 | 2.38 | 13.77 | 0.42 | 3.05% | 3.688 | 0.95 | 7.81 | 3.13 | 8.30 | 274 | 1.993 | 0.85 | 0.923 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.65 | 110.43 | 2.38 | 13.48 | 0.42 | 3.12% | 3.785 | 0.95 | 7.60 | 3.15 | 8.52 | 281 | 2.150 | 0.85 | 0.925 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.71 | 110.45 | 2.39 | 13.48 | 0.43 | 3.19% | 3.877 | 0.95 | 7.59 | 3.15 | 8.61 | 284 | 2.214 | 0.85 | 0.927 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.77 | 110.54 | 2.39 | 13.48 | 0.43 | 3.19% | 3.878 | 0.95 | 7.58 | 3.15 | 8.62 | 284 | 2.219 | 0.85 | 0.929 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.85 | 111.19 | 2.40 | 13.58 | 0.47 | 3.46% | 4.202 | 0.96 | 7.64 | 3.17 | 8.86 | 292 | 2.407 | 0.85 | 0.931 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.93 | 112.08 | 2.40 | 13.77 | 0.53 | 3.85% | 4.662 | 0.97 | 7.75 | 3.19 | 9.16 | 302 | 2.651 | 0.85 | 0.934 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 39.98 | 112.99 | 2.40 | 15.14 | 0.58 | 3.83% | 4.554 | 0.95 | 8.68 | 3.15 | 8.53 | 281 | 2.151 | 0.85 | 0.935 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 40.03 | 113.67 | 2.41 | 15.63 | 0.63 | 4.03% | 4.764 | 0.95 | 9.00 | 3.15 | 8.51 | 281 | 2.141 | 0.85 | 0.937 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 40.12 | 115.23 | 2.41 | 17.39 | 0.75 | 4.31% | 5.007 | 0.94 | 10.18 | 3.12 | 8.12 | 268 | 1.869 | 0.85 | 0.940 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 40.16 | 115.76 | 2.41 | 18.46 | 0.79 | 4.28% | 4.923 | 0.93 | 10.90 | 3.09 | 7.76 | 256 | 1.641 | 0.85 | 0.941 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 40.22 | 115.44 | 2.42 | 20.41 | 0.73 | 3.58% | 4.057 | 0.91 | 12.20 | 2.99 | 6.66 | 220 | 1.068 | 0.85 | 0.943 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 40.30 | 110.95 | 2.42 | 21.78 | 0.39 | 1.79% | 2.015 | 0.84 | 13.11 | 2.78 | 4.64 | 153 | 0.414 | 0.85 | 0.945 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 40.38 | 116.17 | 2.43 | 22.07 | 0.79 | 3.58% | 4.022 | 0.90 | 13.29 | 2.96 | 6.31 | 208 | 0.919 | 0.85 | 0.948 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 40.43 | 118.00 | 2.43 | 22.07 | 1.01 | 4.58% | 5.142 | 0.92 | 13.27 | 3.03 | 7.08 | 234 | 1.266 | 0.85 | 0.949 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 40.50 | 119.39 | 2.43 | 22.17 | 1.22 | 5.50% | 6.181 | 0.93 | 13.32 | 3.08 | 7.70 | 254 | 1.606 | 0.85 | 0.952 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 40.56 | 120.02 | 2.44 | 24.32 | 1.29 | 5.30% | 5.895 | 0.92 | 14.75 | 3.03 | 7.12 | 235 | 1.286 | 0.85 | 0.953 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 40.65 | 121.71 | 2.44 | 37.99 | 1.40 | 3.69% | 3.938 | 0.83 | 23.92 | 2.75 | 4.37 | 144 | 0.359 | 0.84 | 0.956 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.629 | 0.000 | | |
| 40.70 | 122.52 | 2.45 | 49.13 | 1.44 | 2.93% | 3.085 | 0.78 | 31.38 | 2.59 | 3.24 | 110 | 0.203 | 0.84 | 0.958 | 0.547 | | 0.37 | 0.51 | <= | 2.139 | 0.013 | 0.000 | 2.629 | 0.000 | 40.65 | 40.70 |
| 40.78 | 123.87 | 2.45 | 78.04 | 1.48 | 1.90% | 1.958 | 0.69 | 50.73 | 2.29 | 1.91 | 108 | 0.198 | 0.84 | 0.960 | 0.547 | | 0.36 | 0.50 | <= | 2.165 | 0.021 | 0.000 | 2.616 | 0.000 | 40.70 | 40.78 |
| 40.83 | 124.47 | 2.45 | 102.85 | 1.47 | 1.43% | 1.464 | 0.64 | 67.31 | 2.11 | 1.47 | 112 | 0.212 | 0.84 | 0.962 | 0.546 | | 0.39 | 0.53 | <= | 2.101 | 0.013 | 0.000 | 2.595 | 0.000 | 40.78 | 40.83 |
| 40.92 | 124.20 | 2.46 | 133.90 | 1.30 | 0.97% | 0.989 | 0.58 | 87.96 | 1.90 | 1.19 | 122 | 0.248 | 0.84 | 0.965 | 0.546 | | 0.45 | 0.62 | <= | 1.968 | 0.021 | 0.000 | 2.583 | 0.000 | 40.83 | 40.92 |
| 40.97 | 123.83 | 2.46 | 149.73 | 1.19 | 0.79% | 0.808 | 0.55 | 98.44 | 1.80 | 1.11 | 129 | 0.277 | 0.84 | 0.966 | 0.546 | | 0.51 | 0.70 | <= | 1.883 | 0.011 | 0.000 | 2.562 | 0.000 | 40.92 | 40.97 |
| 41.02 | 123.43 | 2.47 | 162.33 | 1.09 | 0.67% | 0.682 | 0.53 | 106.76 | 1.73 | 1.06 | 134 | 0.303 | 0.84 | 0.968 | 0.546 | | 0.56 | 0.76 | <= | 1.512 | 0.009 | 0.000 | 2.550 | 0.000 | 40.97 | 41.02 |
| 41.09 | 123.26 | 2.47 | 171.41 | 1.05 | 0.61% | 0.622 | 0.51 | 112.66 | 1.68 | 1.02 | 138 | 0.324 | 0.84 | 0.970 | 0.546 | | 0.59 | 0.82 | <= | 1.015 | 0.009 | 0.000 | 2.541 | 0.000 | 41.02 | 41.09 |
| 41.15 | 123.71 | 2.47 | 181.37 | 1.10 | 0.61% | 0.615 | 0.51 | 119.15 | 1.66 | 1.01 | 144 | 0.358 | 0.84 | 0.972 | 0.545 | | 0.66 | 0.90 | <= | 0.637 | 0.005 | 0.000 | 2.533 | 0.000 | 41.09 | 41.15 |
| 41.21 | 123.54 | 2.48 | 186.26 | 1.06 | 0.57% | 0.577 | 0.50 | 122.26 | 1.63 | 1.00 | 147 | 0.375 | 0.84 | 0.974 | 0.545 | | 0.69 | 0.95 | <= | 0.736 | 0.005 | 0.000 | 2.528 | 0.000 | 41.15 | 41.21 |
| 41.28 | 123.84 | 2.48 | 190.16 | 1.10 | 0.58% | 0.586 | 0.50 | 124.67 | 1.63 | 1.00 | 150 | 0.394 | 0.84 | 0.976 | 0.545 | | 0.72 | 0.99 | <= | 0.833 | 0.007 | 0.000 | 2.523 | 0.000 | 41.21 | 41.28 |
| 41.37 | 124.14 | 2.49 | 191.14 | 1.14 | 0.60% | 0.604 | 0.50 | 125.09 | 1.63 | 1.00 | 151 | 0.398 | 0.84 | 0.979 | 0.545 | | 0.73 | 1.00 | <= | 0.430 | 0.005 | 0.000 | 2.516 | 0.000 | 41.28 | 41.37 |
| 41.42 | 124.24 | 2.49 | 189.58 | 1.16 | 0.61% | 0.620 | 0.50 | 123.92 | 1.64 | 1.00 | 149 | 0.389 | 0.84 | 0.980 | 0.545 | | 0.71 | 0.98 | <= | 0.809 | 0.005 | 0.000 | 2.511 | 0.000 | 41.37 | 41.42 |
| 41.50 | 124.45 | 2.50 | 183.62 | 1.21 | 0.66% | 0.668 | 0.51 | 119.77 | 1.68 | 1.02 | 147 | 0.376 | 0.84 | 0.983 | 0.545 | | 0.69 | 0.95 | <= | 0.742 | 0.007 | 0.000 | 2.506 | 0.000 | 41.42 | 41.50 |
| 41.55 | 124.50 | 2.50 | 176.10 | 1.23 | 0.70% | 0.709 | 0.52 | 114.68 | 1.71 | 1.04 | 143 | 0.354 | 0.84 | 0.984 | 0.544 | | 0.65 | 0.89 | <= | 1.185 | 0.007 | 0.000 | 2.499 | 0.000 | 41.50 | 41.55 |
| 41.62 | 124.58 | 2.50 | 161.15 | 1.28 | 0.79% | 0.807 | 0.54 | 104.65 | 1.78 | 1.09 | 136 | 0.312 | 0.84 | 0.987 | 0.544 | | 0.57 | 0.79 | <= | 1.555 | 0.013 | 0.000 | 2.492 | 0.000 | 41.55 | 41.62 |
| 41.68 | 124.65 | 2.51 | 145.62 | 1.34 | 0.92% | 0.936 | 0.57 | 94.29 | 1.86 | 1.15 | 128 | 0.275 | 0.84 | 0.988 | 0.544 | | 0.50 | 0.69 | <= | 1.882 | 0.014 | 0.000 | 2.479 | 0.000 | 41.62 | 41.68 |
| 41.77 | 124.83 | 2.51 | 118.38 | 1.47 | 1.24% | 1.269 | 0.61 | 76.20 | 2.02 | 1.33 | 117 | 0.229 | 0.84 | 0.991 | 0.544 | | 0.42 | 0.58 | <= | 2.033 | 0.022 | 0.000 | 2.466 | 0.000 | 41.68 | 41.77 |
| 41.82 | 124.87 | 2.51 | 103.14 | 1.55 | 1.50% | 1.540 | 0.65 | 66.11 | 2.12 | 1.50 | 114 | 0.216 | 0.84 | 0.993 | 0.544 | | 0.40 | 0.55 | <= | 2.082 | 0.012 | 0.000 | 2.444 | 0.000 | 41.77 | 41.82 |
| 41.87 | 124.63 | 2.52 | 80.38 | 1.63 | 2.03% | 2.093 | 0.70 | 51.10 | 2.30 | 1.96 | 112 | 0.212 | 0.83 | 0.994 | 0.543 | | 0.39 | 0.54 | <= | 2.101 | 0.013 | 0.000 | 2.431 | 0.000 | 41.82 | 41.87 |
| 41.94 | 123.95 | 2.52 | 61.34 | 1.63 | 2.66% | 2.771 | 0.75 | 38.55 | 2.48 | 2.68 | 114 | 0.216 | 0.83 | 0.997 | 0.543 | | 0.40 | 0.55 | <= | 2.082 | 0.017 | 0.000 | 2.418 | 0.000 | 41.87 | 41.94 |
| 42.02 | 122.51 | 2.53 | 43.76 | 1.49 | 3.40% | 3.614 | 0.81 | 26.98 | 2.68 | 3.87 | 128 | 0.273 | 0.83 | 0.999 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.07 | 121.73 | 2.53 | 37.80 | 1.41 | 3.73% | 3.998 | 0.84 | 23.06 | 2.77 | 4.49 | 148 | 0.383 | 0.83 | 1.001 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.13 | 120.65 | 2.53 | 31.35 | 1.30 | 4.15% | 4.511 | 0.87 | 18.82 | 2.87 | 5.41 | 179 | 0.609 | 0.83 | 1.002 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.20 | 119.47 | 2.54 | 26.57 | 1.17 | 4.40% | 4.869 | 0.89 | 15.67 | 2.96 | 6.26 | 207 | 0.899 | 0.83 | 1.005 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.26 | 118.55 | 2.54 | 22.85 | 1.08 | 4.73% | 5.318 | 0.92 | 13.23 | 3.04 | 7.19 | 237 | 1.324 | 0.83 | 1.007 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.32 | 117.31 | 2.55 | 21.49 | 0.93 | 4.33% | 4.909 | 0.92 | 12.33 | 3.04 | 7.21 | 238 | 1.334 | 0.83 | 1.008 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.40 | 114.99 | 2.55 | 21.29 | 0.68 | 3.19% | 3.629 | 0.90 | 12.18 | 2.96 | 6.32 | 209 | 0.925 | 0.83 | 1.011 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.48 | 112.74 | 2.55 | 21.59 | 0.50 | 2.32% | 2.627 | 0.87 | 12.35 | 2.87 | 5.41 | 179 | 0.610 | 0.83 | 1.013 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.53 | 111.54 | 2.56 | 21.59 | 0.42 | 1.95% | 2.207 | 0.86 | 12.34 | 2.83 | 5.01 | 165 | 0.500 | 0.83 | 1.015 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.60 | 109.42 | 2.56 | 21.59 | 0.32 | 1.48% | 1.682 | 0.84 | 12.33 | 2.76 | 4.45 | 147 | 0.375 | 0.83 | 1.017 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.65 | 108.75 | 2.56 | 21.59 | 0.29 | 1.34% | 1.524 | 0.83 | 12.31 | 2.74 | 4.27 | 141 | 0.341 | 0.83 | 1.019 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.74 | 109.81 | 2.57 | 22.17 | 0.33 | 1.49% | 1.684 | 0.83 | 12.67 | 2.75 | 4.37 | 144 | 0.359 | 0.83 | 1.021 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.80 | 110.15 | 2.57 | 19.63 | 0.36 | 1.83% | 2.110 | 0.87 | 11.02 | 2.86 | 5.30 | 175 | 0.577 | 0.83 | 1.023 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.88 | 110.32 | 2.58 | 16.41 | 0.39 | 2.38% | 2.819 | 0.91 | 8.92 | 3.01 | 6.86 | 226 | 1.157 | 0.83 | 1.026 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.93 | 110.41 | 2.58 | 16.21 | 0.40 | 2.47% | 2.935 | 0.92 | 8.78 | 3.03 | 7.04 | 232 | 1.245 | 0.83 | 1.027 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 42.99 | 110.49 | 2.58 | 16.21 | 0.40 | 2.47% | 2.935 | 0.92 | 8.77 | 3.03 | 7.04 | 232 | 1.247 | 0.83 | 1.029 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.05 | 110.86 | 2.59 | 16.36 | 0.42 | 2.57% | 3.049 | 0.92 | 8.86 | 3.03 | 7.11 | 235 | 1.282 | 0.83 | 1.031 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.11 | 111.42 | 2.59 | 16.51 | 0.45 | 2.73% | 3.233 | 0.92 | 8.95 | 3.04 | 7.24 | 239 | 1.350 | 0.82 | 1.033 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.18 | 112.89 | 2.59 | 16.90 | 0.55 | 3.25% | 3.844 | 0.93 | 9.18 | 3.08 | 7.67 | 253 | 1.589 | 0.82 | 1.035 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.24 | 113.88 | 2.60 | 17.29 | 0.62 | 3.59% | 4.220 | 0.94 | 9.42 | 3.09 | 7.86 | 259 | 1.705 | 0.82 | 1.037 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.34 | 114.95 | 2.60 | 18.56 | 0.70 | 3.77% | 4.387 | 0.93 | 10.22 | 3.08 | 7.63 | 252 | 1.566 | 0.82 | 1.040 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.38 | 115.37 | 2.60 | 19.53 | 0.73 | 3.74% | 4.313 | 0.92 | 10.83 | 3.05 | 7.32 | 242 | 1.393 | 0.82 | 1.041 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.47 | 116.00 | 2.61 | 20.80 | 0.78 | 3.75% | 4.288 | 0.92 | 11.62 | 3.02 | 7.01 | 231 | 1.231 | 0.82 | 1.044 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.52 | 116.37 | 2.61 | 21.19 | 0.81 | 3.82% | 4.360 | 0.91 | 11.86 | 3.02 | 6.98 | 230 | 1.216 | 0.82 | 1.046 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.57 | 117.17 | 2.62 | 21.10 | 0.91 | 4.31% | 4.923 | 0.93 | 11.79 | 3.06 | 7.40 | 244 | 1.436 | 0.82 | 1.047 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.64 | 117.92 | 2.62 | 20.90 | 1.01 | 4.83% | 5.525 | 0.94 | 11.64 | 3.09 | 7.86 | 259 | 1.700 | 0.82 | 1.050 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.72 | 118.41 | 2.62 | 19.73 | 1.10 | 5.58% | 6.431 | 0.96 | 10.88 | 3.16 | 8.73 | 288 | 2.302 | 0.82 | 1.052 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.78 | 119.26 | 2.63 | 19.83 | 1.23 | 6.20% | 7.150 | 0.97 | 10.93 | 3.19 | 9.13 | 301 | 2.623 | 0.82 | 1.054 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.86 | 120.81 | 2.63 | 22.27 | 1.47 | 6.60% | 7.486 | 0.96 | 12.46 | 3.16 | 8.71 | 287 | 2.285 | 0.82 | 1.056 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.92 | 122.08 | 2.64 | 27.05 | 1.64 | 6.06% | 6.718 | 0.92 | 15.47 | 3.05 | 7.37 | 243 | 1.418 | 0.82 | 1.058 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 43.97 | 123.24 | 2.64 | 33.70 | 1.79 | 5.31% | 5.763 | 0.89 | 19.66 | 2.93 | 5.97 | 197 | 0.792 | 0.82 | 1.060 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.04 | 124.13 | 2.64 | 39.17 | 1.92 | 4.90% | 5.257 | 0.86 | 23.09 | 2.85 | 5.19 | 171 | 0.546 | 0.82 | 1.062 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.09 | 124.40 | 2.65 | 41.70 | 1.96 | 4.70% | 5.019 | 0.85 | 24.66 | 2.81 | 4.87 | 161 | 0.465 | 0.82 | 1.064 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.18 | 123.65 | 2.65 | 37.90 | 1.83 | 4.83% | 5.192 | 0.86 | 22.22 | 2.85 | 5.27 | 174 | 0.568 | 0.82 | 1.066 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.23 | 122.89 | 2.66 | 34.18 | 1.71 | 5.00% | 5.424 | 0.88 | 19.86 | 2.91 | 5.75 | 190 | 0.716 | 0.82 | 1.068 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.31 | 122.07 | 2.66 | 29.11 | 1.61 | 5.53% | 6.087 | 0.91 | 16.63 | 3.00 | 6.74 | 223 | 1.105 | 0.82 | 1.070 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.36 | 121.67 | 2.66 | 26.27 | 1.58 | 6.01% | 6.693 | 0.93 | 14.83 | 3.07 | 7.52 | 248 | 1.504 | 0.81 | 1.072 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.43 | 120.98 | 2.67 | 23.15 | 1.50 | 6.48% | 7.323 | 0.95 | 12.85 | 3.14 | 8.48 | 280 | 2.115 | 0.81 | 1.074 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.49 | 120.70 | 2.67 | 23.00 | 1.45 | 6.30% | 7.133 | 0.95 | 12.74 | 3.14 | 8.41 | 278 | 2.068 | 0.81 | 1.076 | 0.537 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.57 | 120.55 | 2.68 | 23.00 | 1.42 | 6.17% | 6.987 | 0.95 | 12.72 | 3.13 | 8.34 | 275 | 2.017 | 0.81 | 1.079 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.63 | 120.59 | 2.68 | 22.85 | 1.43 | 6.26% | 7.090 | 0.95 | 12.61 | 3.14 | 8.43 | 278 | 2.084 | 0.81 | 1.080 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.72 | 120.95 | 2.69 | 26.76 | 1.42 | 5.31% | 5.898 | 0.92 | 15.03 | 3.02 | 7.02 | 232 | 1.238 | 0.81 | 1.083 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.77 | 121.12 | 2.69 | 29.69 | 1.41 | 4.75% | 5.222 | 0.89 | 16.84 | 2.95 | 6.20 | 205 | 0.876 | 0.81 | 1.085 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.84 | 120.94 | 2.69 | 32.91 | 1.33 | 4.04% | 4.401 | 0.87 | 18.82 | 2.86 | 5.32 | 176 | 0.584 | 0.81 | 1.087 | 0.536 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.89 | 120.73 | 2.70 | 34.48 | 1.27 | 3.68% | 3.996 | 0.85 | 19.78 | 2.81 | 4.91 | 162 | 0.476 | 0.81 | 1.089 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 44.98 | 120.10 | 2.70 | 32.23 | 1.19 | 3.69% | 4.030 | 0.86 | 18.34 | 2.84 | 5.16 | 170 | 0.540 | 0.81 | 1.091 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.03 | 119.72 | 2.70 | 30.86 | 1.15 | 3.73% | 4.084 | 0.87 | 17.48 | 2.86 | 5.36 | 177 | 0.593 | 0.81 | 1.093 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.12 | 118.88 | 2.71 | 27.15 | 1.07 | 3.94% | 4.378 | 0.89 | 15.15 | 2.93 | 6.04 | 199 | 0.817 | 0.81 | 1.096 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.15 | 118.75 | 2.71 | 26.47 | 1.06 | 4.00% | 4.461 | 0.89 | 14.72 | 2.95 | 6.20 | 205 | 0.877 | 0.81 | 1.097 | 0.535 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.25 | 118.71 | 2.72 | 25.20 | 1.07 | 4.25% | 4.759 | 0.90 | 13.90 | 2.99 | 6.62 | 218 | 1.048 | 0.81 | 1.100 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.30 | 118.67 | 2.72 | 24.81 | 1.07 | 4.31% | 4.844 | 0.91 | 13.65 | 3.00 | 6.74 | 223 | 1.105 | 0.81 | 1.101 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.38 | 118.44 | 2.72 | 22.46 | 1.07 | 4.76% | 5.422 | 0.93 | 12.18 | 3.07 | 7.59 | 250 | 1.540 | 0.81 | 1.104 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.43 | 118.34 | 2.73 | 21.39 | 1.07 | 5.00% | 5.734 | 0.94 | 11.50 | 3.11 | 8.03 | 265 | 1.813 | 0.81 | 1.105 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.48 | 118.57 | 2.73 | 22.61 | 1.09 | 4.82% | 5.483 | 0.93 | 12.24 | 3.07 | 7.60 | 251 | 1.549 | 0.81 | 1.107 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.56 | 118.22 | 2.74 | 21.10 | 1.06 | 5.02% | 5.772 | 0.94 | 11.29 | 3.12 | 8.14 | 269 | 1.882 | 0.80 | 1.109 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.61 | 117.93 | 2.74 | 22.76 | 0.99 | 4.35% | 4.945 | 0.92 | 12.30 | 3.04 | 7.23 | 238 | 1.341 | 0.80 | 1.111 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.68 | 115.77 | 2.74 | 25.78 | 0.71 | 2.75% | 3.082 | 0.87 | 14.14 | 2.86 | 5.32 | 175 | 0.583 | 0.80 | 1.113 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.74 | 117.43 | 2.75 | 28.32 | 0.86 | 3.04% | 3.363 | 0.86 | 15.68 | 2.85 | 5.19 | 171 | 0.548 | 0.80 | 1.115 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.80 | 118.51 | 2.75 | 29.89 | 0.98 | 3.28% | 3.611 | 0.86 | 16.62 | 2.85 | 5.19 | 171 | 0.546 | 0.80 | 1.117 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.88 | 119.24 | 2.75 | 29.20 | 1.09 | 3.73% | 4.122 | 0.88 | 16.18 | 2.89 | 5.63 | 186 | 0.677 | 0.80 | 1.119 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 45.96 | 119.54 | 2.76 | 26.47 | 1.18 | 4.46% | 4.977 | 0.90 | 14.48 | 2.99 | 6.60 | 218 | 1.039 | 0.80 | 1.122 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.01 | 119.56 | 2.76 | 25.69 | 1.19 | 4.63% | 5.190 | 0.91 | 13.99 | 3.01 | 6.87 | 227 | 1.162 | 0.80 | 1.124 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.10 | 119.17 | 2.77 | 22.85 | 1.17 | 5.12% | 5.826 | 0.94 | 12.24 | 3.09 | 7.82 | 258 | 1.677 | 0.80 | 1.126 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.14 | 118.94 | 2.77 | 21.78 | 1.15 | 5.28% | 6.049 | 0.94 | 11.58 | 3.12 | 8.20 | 271 | 1.924 | 0.80 | 1.128 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.23 | 118.62 | 2.78 | 20.61 | 1.13 | 5.48% | 6.336 | 0.96 | 10.84 | 3.16 | 8.68 | 286 | 2.263 | 0.80 | 1.130 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.27 | 118.41 | 2.78 | 19.92 | 1.11 | 5.57% | 6.475 | 0.96 | 10.42 | 3.18 | 8.95 | 295 | 2.477 | 0.80 | 1.132 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.36 | 118.09 | 2.78 | 19.73 | 1.06 | 5.37% | 6.255 | 0.96 | 10.28 | 3.17 | 8.88 | 293 | 2.418 | 0.80 | 1.134 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.41 | 117.91 | 2.79 | 19.83 | 1.03 | 5.19% | 6.043 | 0.96 | 10.33 | 3.16 | 8.72 | 288 | 2.296 | 0.80 | 1.136 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.49 | 117.96 | 2.79 | 20.22 | 1.04 | 5.14% | 5.967 | 0.95 | 10.55 | 3.15 | 8.57 | 283 | 2.185 | 0.80 | 1.138 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.54 | 118.00 | 2.79 | 20.51 | 1.04 | 5.07% | 5.870 | 0.95 | 10.72 | 3.14 | 8.44 | 278 | 2.088 | 0.80 | 1.140 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.62 | 118.09 | 2.80 | 20.32 | 1.05 | 5.17% | 5.993 | 0.95 | 10.58 | 3.15 | 8.57 | 283 | 2.186 | 0.80 | 1.143 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.67 | 118.20 | 2.80 | 20.32 | 1.07 | 5.27% | 6.108 | 0.95 | 10.57 | 3.16 | 8.65 | 285 | 2.244 | 0.80 | 1.144 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.76 | 118.33 | 2.81 | 20.12 | 1.09 | 5.42% | 6.296 | 0.96 | 10.43 | 3.17 | 8.83 | 291 | 2.382 | 0.80 | 1.147 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.81 | 118.46 | 2.81 | 19.92 | 1.11 | 5.57% | 6.487 | 0.96 | 10.30 | 3.18 | 9.01 | 297 | 2.525 | 0.79 | 1.148 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.85 | 118.66 | 2.81 | 20.22 | 1.14 | 5.64% | 6.549 | 0.96 | 10.47 | 3.18 | 8.97 | 296 | 2.491 | 0.79 | 1.150 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 46.92 | 119.02 | 2.82 | 20.71 | 1.19 | 5.75% | 6.650 | 0.96 | 10.75 | 3.17 | 8.90 | 294 | 2.439 | 0.79 | 1.152 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.01 | 119.70 | 2.82 | 21.49 | 1.28 | 5.96% | 6.856 | 0.96 | 11.20 | 3.17 | 8.83 | 291 | 2.383 | 0.79 | 1.155 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.07 | 120.46 | 2.82 | 22.07 | 1.41 | 6.39% | 7.327 | 0.96 | 11.54 | 3.18 | 8.96 | 296 | 2.486 | 0.79 | 1.157 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.12 | 121.01 | 2.83 | 22.95 | 1.50 | 6.54% | 7.455 | 0.96 | 12.05 | 3.17 | 8.83 | 291 | 2.381 | 0.79 | 1.158 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.20 | 121.05 | 2.83 | 25.20 | 1.47 | 5.83% | 6.572 | 0.94 | 13.38 | 3.10 | 7.87 | 260 | 1.712 | 0.79 | 1.161 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.25 | 121.13 | 2.84 | 27.15 | 1.45 | 5.34% | 5.964 | 0.92 | 14.53 | 3.04 | 7.18 | 237 | 1.318 | 0.79 | 1.162 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.34 | 121.77 | 2.84 | 29.89 | 1.53 | 5.12% | 5.656 | 0.90 | 16.14 | 2.99 | 6.59 | 218 | 1.038 | 0.79 | 1.165 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.38 | 122.31 | 2.84 | 31.45 | 1.62 | 5.15% | 5.663 | 0.90 | 17.05 | 2.97 | 6.39 | 211 | 0.954 | 0.79 | 1.166 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.48 | 123.13 | 2.85 | 32.62 | 1.79 | 5.49% | 6.013 | 0.90 | 17.71 | 2.97 | 6.45 | 213 | 0.977 | 0.79 | 1.169 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-4

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft) 1 **MAGNITUDE:** 6.62 **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47.51 | 122.97 | 2.85 | 29.01 | 1.82 | 6.27% | 6.958 | 0.93 | 15.56 | 3.06 | 7.46 | 246 | 1.466 | 0.79 | 1.170 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.58 | 123.50 | 2.86 | 35.36 | 1.83 | 5.18% | 5.630 | 0.89 | 19.31 | 2.92 | 5.94 | 196 | 0.779 | 0.79 | 1.172 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.66 | 123.30 | 2.86 | 35.26 | 1.79 | 5.08% | 5.525 | 0.88 | 19.22 | 2.92 | 5.89 | 195 | 0.764 | 0.79 | 1.175 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.71 | 123.08 | 2.86 | 33.89 | 1.75 | 5.16% | 5.640 | 0.89 | 18.39 | 2.94 | 6.11 | 202 | 0.842 | 0.79 | 1.177 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.80 | 122.77 | 2.87 | 32.04 | 1.72 | 5.37% | 5.896 | 0.90 | 17.26 | 2.98 | 6.48 | 214 | 0.989 | 0.79 | 1.179 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.84 | 122.77 | 2.87 | 32.04 | 1.71 | 5.34% | 5.863 | 0.90 | 17.24 | 2.97 | 6.46 | 213 | 0.982 | 0.79 | 1.181 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.93 | 122.82 | 2.88 | 32.72 | 1.71 | 5.23% | 5.730 | 0.90 | 17.61 | 2.96 | 6.31 | 208 | 0.920 | 0.79 | 1.183 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 47.98 | 122.83 | 2.88 | 32.82 | 1.71 | 5.21% | 5.712 | 0.90 | 17.66 | 2.96 | 6.29 | 208 | 0.912 | 0.79 | 1.185 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 48.06 | 123.17 | 2.89 | 33.31 | 1.79 | 5.37% | 5.883 | 0.90 | 17.92 | 2.96 | 6.33 | 209 | 0.930 | 0.78 | 1.187 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 48.11 | 123.28 | 2.89 | 33.99 | 1.80 | 5.30% | 5.788 | 0.89 | 18.30 | 2.95 | 6.21 | 205 | 0.879 | 0.78 | 1.189 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 48.18 | 123.33 | 2.89 | 36.72 | 1.77 | 4.82% | 5.233 | 0.88 | 19.88 | 2.89 | 5.61 | 185 | 0.671 | 0.78 | 1.191 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 48.24 | 123.49 | 2.90 | 41.12 | 1.74 | 4.23% | 4.552 | 0.85 | 22.44 | 2.81 | 4.85 | 160 | 0.461 | 0.78 | 1.193 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 48.33 | 123.70 | 2.90 | 48.64 | 1.69 | 3.47% | 3.695 | 0.81 | 26.80 | 2.68 | 3.88 | 128 | 0.275 | 0.78 | 1.196 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 48.37 | 123.79 | 2.90 | 53.43 | 1.66 | 3.11% | 3.285 | 0.79 | 29.59 | 2.61 | 3.42 | 113 | 0.213 | 0.78 | 1.197 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.401 | 0.000 | | |
| 48.44 | 123.62 | 2.91 | 57.53 | 1.59 | 2.76% | 2.911 | 0.77 | 31.95 | 2.55 | 3.04 | 109 | 0.200 | 0.78 | 1.199 | 0.524 | | 0.38 | 0.52 | <= | 2.156 | 0.018 | 0.000 | 2.401 | 0.000 | 48.37 | 48.44 |
| 48.51 | 123.32 | 2.91 | 59.68 | 1.50 | 2.51% | 2.642 | 0.76 | 33.16 | 2.51 | 2.82 | 105 | 0.188 | 0.78 | 1.202 | 0.524 | | 0.36 | 0.49 | <= | 2.214 | 0.019 | 0.000 | 2.383 | 0.000 | 48.44 | 48.51 |
| 48.56 | 123.19 | 2.92 | 61.34 | 1.46 | 2.38% | 2.499 | 0.75 | 34.10 | 2.48 | 2.68 | 104 | 0.183 | 0.78 | 1.203 | 0.523 | | 0.35 | 0.48 | <= | 2.243 | 0.013 | 0.000 | 2.364 | 0.000 | 48.51 | 48.56 |
| 48.65 | 122.82 | 2.92 | 63.29 | 1.38 | 2.18% | 2.286 | 0.74 | 35.18 | 2.45 | 2.51 | 100 | 0.174 | 0.78 | 1.206 | 0.523 | | 0.33 | 0.46 | <= | 2.299 | 0.025 | 0.000 | 2.351 | 0.000 | 48.56 | 48.65 |
| 48.73 | 122.65 | 2.93 | 64.95 | 1.34 | 2.06% | 2.160 | 0.73 | 36.09 | 2.42 | 2.40 | 99 | 0.170 | 0.78 | 1.208 | 0.523 | | 0.32 | 0.45 | <= | 2.329 | 0.022 | 0.000 | 2.326 | 0.000 | 48.65 | 48.73 |
| 48.78 | 122.61 | 2.93 | 66.71 | 1.32 | 1.98% | 2.070 | 0.73 | 37.08 | 2.40 | 2.30 | 98 | 0.167 | 0.78 | 1.210 | 0.523 | | 0.32 | 0.44 | <= | 2.345 | 0.014 | 0.000 | 2.304 | 0.000 | 48.73 | 48.78 |
| 48.83 | 122.50 | 2.93 | 66.90 | 1.30 | 1.94% | 2.032 | 0.73 | 37.16 | 2.39 | 2.28 | 97 | 0.165 | 0.78 | 1.211 | 0.522 | | 0.32 | 0.44 | <= | 2.360 | 0.014 | 0.000 | 2.290 | 0.000 | 48.78 | 48.83 |
| 48.91 | 122.56 | 2.94 | 68.27 | 1.30 | 1.90% | 1.990 | 0.72 | 37.90 | 2.38 | 2.23 | 97 | 0.165 | 0.78 | 1.214 | 0.522 | | 0.32 | 0.44 | <= | 2.362 | 0.023 | 0.000 | 2.275 | 0.000 | 48.83 | 48.91 |
| 48.95 | 122.47 | 2.94 | 67.78 | 1.28 | 1.89% | 1.974 | 0.72 | 37.58 | 2.38 | 2.23 | 96 | 0.163 | 0.78 | 1.215 | 0.522 | | 0.31 | 0.43 | <= | 2.376 | 0.011 | 0.000 | 2.253 | 0.000 | 48.91 | 48.95 |
| 49.02 | 122.14 | 2.94 | 67.39 | 1.23 | 1.83% | 1.909 | 0.72 | 37.31 | 2.37 | 2.20 | 95 | 0.159 | 0.78 | 1.217 | 0.522 | | 0.30 | 0.42 | <= | 2.412 | 0.020 | 0.000 | 2.241 | 0.000 | 48.95 | 49.02 |
| 49.09 | 121.93 | 2.95 | 66.71 | 1.20 | 1.80% | 1.882 | 0.72 | 36.87 | 2.37 | 2.20 | 94 | 0.156 | 0.78 | 1.220 | 0.521 | | 0.30 | 0.41 | <= | 2.434 | 0.020 | 0.000 | 2.221 | 0.000 | 49.02 | 49.09 |
| 49.18 | 122.26 | 2.95 | 67.29 | 1.25 | 1.86% | 1.943 | 0.72 | 37.14 | 2.38 | 2.22 | 95 | 0.160 | 0.78 | 1.222 | 0.521 | | 0.31 | 0.42 | <= | 2.399 | 0.026 | 0.000 | 2.201 | 0.000 | 49.09 | 49.18 |
| 49.23 | 122.09 | 2.96 | 65.54 | 1.23 | 1.88% | 1.965 | 0.73 | 36.10 | 2.39 | 2.28 | 95 | 0.159 | 0.78 | 1.224 | 0.521 | | 0.30 | 0.42 | <= | 2.412 | 0.014 | 0.000 | 2.175 | 0.000 | 49.18 | 49.23 |
| 49.28 | 122.29 | 2.96 | 64.66 | 1.27 | 1.96% | 2.058 | 0.73 | 35.56 | 2.41 | 2.35 | 96 | 0.162 | 0.77 | 1.226 | 0.521 | | 0.31 | 0.43 | <= | 2.383 | 0.014 | 0.000 | 2.160 | 0.000 | 49.23 | 49.28 |
| 49.35 | 122.27 | 2.96 | 63.39 | 1.28 | 2.02% | 2.118 | 0.74 | 34.79 | 2.43 | 2.42 | 96 | 0.164 | 0.77 | 1.228 | 0.521 | | 0.31 | 0.43 | <= | 2.374 | 0.020 | 0.000 | 2.146 | 0.000 | 49.28 | 49.35 |
| 49.42 | 122.00 | 2.97 | 62.22 | 1.24 | 1.99% | 2.093 | 0.74 | 34.07 | 2.43 | 2.44 | 95 | 0.160 | 0.77 | 1.230 | 0.520 | | 0.31 | 0.42 | <= | 2.402 | 0.020 | 0.000 | 2.126 | 0.000 | 49.35 | 49.42 |
| 49.49 | 121.95 | 2.97 | 61.73 | 1.23 | 1.99% | 2.093 | 0.74 | 33.74 | 2.43 | 2.45 | 95 | 0.159 | 0.77 | 1.232 | 0.520 | | 0.31 | 0.42 | <= | 2.409 | 0.020 | 0.000 | 2.106 | 0.000 | 49.42 | 49.49 |
| 49.58 | 122.03 | 2.98 | 60.26 | 1.26 | 2.09% | 2.200 | 0.75 | 32.85 | 2.46 | 2.56 | 96 | 0.162 | 0.77 | 1.235 | 0.520 | | 0.31 | 0.43 | <= | 2.385 | 0.026 | 0.000 | 2.086 | 0.000 | 49.49 | 49.58 |
| 49.63 | 121.01 | 2.98 | 58.50 | 1.11 | 1.90% | 1.999 | 0.74 | 31.81 | 2.44 | 2.49 | 90 | 0.149 | 0.77 | 1.236 | 0.520 | | 0.29 | 0.39 | <= | 2.500 | 0.015 | 0.000 | 2.060 | 0.000 | 49.58 | 49.63 |
| 49.69 | 120.02 | 2.99 | 56.06 | 0.98 | 1.75% | 1.846 | 0.74 | 30.38 | 2.43 | 2.46 | 86 | 0.138 | 0.77 | 1.238 | 0.519 | | 0.27 | 0.37 | <= | 2.615 | 0.019 | 0.000 | 2.045 | 0.000 | 49.63 | 49.69 |
| 49.76 | 120.36 | 2.99 | 53.72 | 1.04 | 1.94% | 2.050 | 0.75 | 29.00 | 2.48 | 2.67 | 88 | 0.144 | 0.77 | 1.241 | 0.519 | | 0.28 | 0.38 | <= | 2.552 | 0.021 | 0.000 | 2.026 | 0.000 | 49.69 | 49.76 |
| 49.81 | 120.50 | 2.99 | 51.47 | 1.08 | 2.10% | 2.228 | 0.76 | 27.69 | 2.52 | 2.88 | 95 | 0.160 | 0.77 | 1.242 | 0.519 | | 0.31 | 0.42 | <= | 2.405 | 0.014 | 0.000 | 2.005 | 0.000 | 49.76 | 49.81 |
| 49.88 | 120.75 | 3.00 | 49.62 | 1.13 | 2.28% | 2.424 | 0.78 | 26.60 | 2.56 | 3.09 | 102 | 0.178 | 0.77 | 1.244 | 0.519 | | 0.34 | 0.47 | <= | 2.272 | 0.019 | 0.000 | 1.990 | 0.000 | 49.81 | 49.88 |
| 49.94 | 121.10 | 3.00 | 47.76 | 1.20 | 2.51% | 2.681 | 0.79 | 25.51 | 2.60 | 3.35 | 111 | 0.205 | 0.77 | 1.246 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.971 | 0.000 | | |
| 50.02 | 121.91 | 3.01 | 45.90 | 1.35 | 2.94% | 3.147 | 0.81 | 24.42 | 2.67 | 3.75 | 124 | 0.257 | 0.77 | 1.249 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.971 | 0.000 | | |
| 50.07 | 122.22 | 3.01 | 43.66 | 1.44 | 3.30% | 3.542 | 0.82 | 23.12 | 2.72 | 4.14 | 137 | 0.318 | 0.77 | 1.250 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.971 | 0.000 | | |
| 50.14 | 122.54 | 3.01 | 39.65 | 1.55 | 3.91% | 4.231 | 0.85 | 20.81 | 2.81 | 4.87 | 161 | 0.465 | 0.77 | 1.252 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.971 | 0.000 | | |
| 50.20 | 122.88 | 3.02 | 37.02 | 1.66 | 4.48% | 4.882 | 0.87 | 19.30 | 2.88 | 5.49 | 181 | 0.634 | 0.77 | 1.254 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.971 | 0.000 | | |
| 50.28 | 123.45 | 3.02 | 35.55 | 1.82 | 5.12% | 5.595 | 0.89 | 18.43 | 2.94 | 6.06 | 200 | 0.823 | 0.77 | 1.257 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.971 | 0.000 | | |
| 50.34 | 123.94 | 3.03 | 38.09 | 1.90 | 4.99% | 5.419 | 0.88 | 19.85 | 2.90 | 5.71 | 188 | 0.701 | 0.77 | 1.259 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.971 | 0.000 | | |
| 50.40 | 124.72 | 3.03 | 47.86 | 1.96 | 4.10% | 4.372 | 0.83 | 25.35 | 2.75 | 4.39 | 145 | 0.363 | 0.77 | 1.260 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.971 | 0.000 | | |
| 50.46 | 125.23 | 3.03 | 55.67 | 2.00 | 3.59% | 3.800 | 0.80 | 29.73 | 2.65 | 3.68 | 121 | 0.246 | 0.77 | 1.262 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.971 | 0.000 | | |
| 50.55 | 125.25 | 3.04 | 65.54 | 1.90 | 2.90% | 3.040 | 0.77 | 35.25 | 2.53 | 2.92 | 116 | 0.227 | 0.76 | 1.265 | 0.516 | | 0.44 | 0.60 | <= | 2.041 | 0.022 | 0.000 | 1.971 | 0.000 | 50.46 | 50.55 |
| 50.61 | 125.02 | 3.04 | 70.52 | 1.80 | 2.55% | 2.668 | 0.75 | 38.02 | 2.46 | 2.59 | 113 | 0.213 | 0.76 | 1.267 | 0.516 | | 0.41 | 0.57 | <= | 2.097 | 0.015 | 0.000 | 1.949 | 0.000 | 50.55 | 50.61 |
| 50.67 | 125.09 | 3.05 | 78.72 | 1.75 | 2.22% | 2.313 | 0.72 | 42.59 | 2.38 | 2.23 | 110 | 0.205 | 0.76 | 1.269 | 0.516 | | 0.40 | 0.55 | <= | 2.131 | 0.015 | 0.000 | 1.934 | 0.000 | 50.61 | 50.67 |
| 50.74 | 124.73 | 3.05 | 83.80 | 1.63 | 1.95% | 2.019 | 0.70 | 45.39 | 2.32 | 2.00 | 107 | 0.193 | 0.76 | 1.271 | 0.515 | | 0.37 | 0.51 | <= | 2.190 | 0.018 | 0.000 | 1.919 | 0.000 | 50.67 | 50.74 |
| 50.81 | 123.86 | 3.05 | 90.64 | 1.41 | 1.56% | 1.610 | 0.67 | 49.17 | 2.22 | 1.72 | 101 | 0.175 | 0.76 | 1.273 | 0.515 | | 0.34 | 0.47 | <= | 2.292 | 0.019 | 0.000 | 1.900 | 0.000 | 50.74 | 50.81 |
| 50.87 | 123.98 | 3.06 | 93.37 | 1.42 | 1.52% | 1.572 | 0.67 | 50.65 | 2.20 | 1.68 | 101 | 0.177 | 0.76 | 1.275 | 0.515 | | 0.34 | 0.47 | <= | 2.280 | 0.016 | 0.000 | 1.881 | 0.000 | 50.81 | 50.87 |
| 50.96 | 123.65 | 3.06 | 95.13 | 1.35 | 1.42% | 1.466 | 0.66 | 51.55 | 2.18 | 1.61 | 100 | 0.172 | 0.76 | 1.278 | 0.514 | | 0.34 | 0.46 | <= | 2.311 | 0.025 | 0.000 | 1.865 | 0.000 | 50.87 | 50.96 |
| 51.00 | 123.94 | 3.07 | 94.54 | 1.41 | 1.49% | 1.541 | 0.67 | 51.19 | 2.19 | 1.65 | 101 | 0.177 | 0.76 | 1.279 | 0.514 | | 0.34 | 0.47 | <= | 2.283 | 0.011 | 0.000 | 1.840 | 0.000 | 50.96 | 51.00 |
| 51.09 | 124.60 | 3.07 | 91.22 | 1.56 | 1.71% | 1.770 | 0.68 | 49.25 | 2.25 | 1.79 | 105 | 0.187 | 0.76 | 1.282 | 0.514 | | 0.36 | 0.50 | <= | 2.219 | 0.024 | 0.000 | 1.829 | 0.000 | 51.00 | 51.09 |
| 51.14 | 124.89 | 3.07 | 87.22 | 1.65 | 1.89% | 1.961 | 0.70 | 46.97 | 2.30 | 1.93 | 107 | 0.194 | 0.76 | 1.284 | 0.514 | | 0.38 | 0.52 | <= | 2.182 | 0.013 | 0.000 | 1.805 | 0.000 | 51.09 | 51.14 |
| 51.19 | 125.16 | 3.08 | 84.00 | 1.73 | 2.06% | 2.138 | 0.71 | 45.13 | 2.34 | 2.07 | 109 | 0.202 | 0.76 | 1.285 | 0.514 | | 0.39 | 0.54 | <= | 2.147 | 0.013 | 0.000 | 1.792 | 0.000 | 51.14 | 51.19 |
| 51.27 | 124.62 | 3.08 | 73.35 | 1.68 | 2.29% | 2.391 | 0.73 | 39.14 | 2.42 | 2.39 | 108 | 0.197 | 0.76 | 1.288 | 0.513 | | 0.38 | 0.53 | <= | 2.167 | 0.021 | 0.000 | 1.779 | 0.000 | 51.19 | 51.27 |
| 51.32 | 124.23 | 3.09 | 66.51 | 1.64 | 2.47% | 2.586 | 0.75 | 35.29 | 2.48 | 2.66 | 107 | 0.195 | 0.76 | 1.289 | 0.513 | | 0.38 | 0.52 | <= | 2.177 | 0.013 | 0.000 | 1.758 | 0.000 | 51.27 | 51.32 |
| 51.39 | 124.06 | 3.09 | 57.33 | 1.69 | 2.95% | 3.116 | 0.78 | 30.15 | 2.59 | 3.25 | 110 | 0.205 | 0.76 | 1.291 | 0.513 | | 0.40 | 0.55 | <= | 2.130 | 0.018 | 0.000 | 1.745 | 0.000 | 51.32 | 51.39 |
| 51.45 | 124.21 | 3.09 | 49.81 | 1.81 | 3.63% | 3.874 | 0.82 | 25.94 | 2.71 | 4.04 | 133 | 0.300 | 0.76 | 1.293 | 0.512 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.727 | 0.000 | | |
| 51.54 | 123.35 | 3.10 | 41.41 | 1.71 | 4.13% | 4.464 | 0.85 | 21.24 | 2.82 | 4.94 | 163 | 0.482 | 0.76 | 1.296 | 0.512 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.727 | 0.000 | | |
| 51.59 | 122.77 | 3.10 | 36.63 | 1.64 | 4.48% | 4.892 | 0.88 | 18.57 | 2.89 | 5.62 | 185 | 0.672 | 0.76 | 1.298 | 0.512 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.727 | 0.000 | | |
| 51.65 | 122.32 | 3.11 | 33.99 | 1.58 | 4.65% | 5.116 | 0.89 | 17.09 | 2.93 | 6.04 | 199 | 0.815 | 0.76 | 1.299 | 0.512 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.727 | 0.000 | | |
| 51.72 | 122.85 | 3.11 | 45.81 | 1.54 | 3.36% | 3.607 | 0.82 | 23.60 | 2.72 | 4.12 | 136 | 0.313 | 0.76 | 1.302 | 0.511 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.727 | 0.000 | | |
| 51.81 | 125.18 | 3.12 | 82.14 | 1.74 | 2.12% | 2.202 | 0.71 | 43.61 | 2.35 | 2.14 | 109 | 0.201 | 0.75 | 1.304 | 0.511 | | 0.39 | 0.54 | <= | 2.148 | 0.023 | 0.000 | 1.727 | 0.000 | 51.72 | 51.81 |
| 51.85 | 125.92 | 3.12 | 93.57 | 1.85 | 1.98% | 2.045 | 0.69 | 49.88 | 2.29 | 1.91 | 113 | 0.213 | 0.75 | 1.306 | 0.511 | | 0.42 | 0.57 | <= | 2.095 | 0.010 | 0.000 | 1.704 | 0.000 | 51.81 | 51.85 |
| 51.93 | 126.34 | 3.12 | 86.14 | 2.01 | 2.33% | 2.421 | 0.72 | 45.72 | 2.37 | 2.19 | 117 | 0.229 | 0.75 | 1.308 | 0.511 | | 0.45 | 0.62 | <= | 2.034 | 0.020 | 0.000 | 1.694 | 0.000 | 51.85 | 51.93 |
| 51.99 | 126.24 | 3.13 | 73.55 | 2.09 | 2.84% | 2.968 | 0.75 | 38.74 | 2.49 | 2.70 | 120 | 0.241 | 0.75 | 1.310 | 0.510 | | 0.47 | 0.65 | <= | 1.989 | 0.014 | 0.000 | 1.674 | 0.000 | 51.93 | 51.99 |
| 52.08 | 124.89 | 3.13 | 61.34 | 1.85 | 3.02% | 3.178 | 0.78 | 31.97 | 2.57 | 3.17 | 114 | 0.220 | 0.75 | 1.313 | 0.510 | | 0.43 | 0.59 | <= | 2.068 | 0.022 | 0.000 | 1.660 | 0.000 | 51.99 | 52.08 |
| 52.12 | 123.72 | 3.14 | 55.09 | 1.63 | 2.96% | 3.137 | 0.79 | 28.52 | 2.61 | 3.38 | 111 | 0.209 | 0.75 | 1.314 | 0.510 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.637 | 0.000 | | |
| 52.17 | 122.49 | 3.14 | 46.59 | 1.46 | 3.13% | 3.360 | 0.82 | 23.83 | 2.69 | 3.93 | 130 | 0.283 | 0.75 | 1.316 | 0.510 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.637 | 0.000 | | |
| 52.25 | 123.22 | 3.14 | 42.00 | 1.67 | 3.98% | 4.298 | 0.85 | 21.28 | 2.80 | 4.82 | 159 | 0.455 | 0.75 | 1.318 | 0.509 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.637 | 0.000 | | |
| 52.30 | 123.24 | 3.15 | 38.09 | 1.73 | 4.54% | 4.951 | 0.87 | 19.12 | 2.88 | 5.55 | 183 | 0.651 | 0.75 | 1.320 | 0.509 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.637 | 0.000 | | |
| 52.37 | 123.56 | 3.15 | 42.39 | 1.74 | 4.10% | 4.434 | 0.85 | 21.45 | 2.81 | 4.88 | 161 | 0.469 | 0.75 | 1.322 | 0.509 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.637 | 0.000 | | |
| 52.44 | 124.32 | 3.16 | 53.98 | 1.78 | 3.30% | 3.502 | 0.80 | 27.75 | 2.65 | 3.65 | 121 | 0.243 | 0.75 | 1.324 | 0.508 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.637 | 0.000 | | |
| 52.52 | 123.81 | 3.16 | 42.78 | 1.80 | 4.21% | 4.543 | 0.85 | 21.60 | 2.82 | 4.92 | 162 | 0.479 | 0.75 | 1.327 | 0.508 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.637 | 0.000 | | |
| 52.57 | 124.18 | 3.16 | 51.96 | 1.77 | 3.41% | 3.627 | 0.81 | 26.58 | 2.68 | 3.83 | 126 | 0.267 | 0.75 | 1.328 | 0.508 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.637 | 0.000 | | |
| 52.64 | 124.20 | 3.17 | 65.24 | 1.65 | 2.53% | 2.658 | 0.76 | 33.78 | 2.50 | 2.76 | 107 | 0.194 | 0.75 | 1.330 | 0.508 | | 0.38 | 0.53 | <= | 2.182 | 0.018 | 0.000 | 1.637 | 0.000 | 52.57 | 52.64 |
| 52.71 | 124.08 | 3.17 | 79.99 | 1.51 | 1.89% | 1.966 | 0.71 | 41.75 | 2.33 | 2.06 | 102 | 0.178 | 0.75 | 1.333 | 0.507 | | 0.35 | 0.48 | <= | 2.275 | 0.019 | 0.000 | 1.619 | 0.000 | 52.64 | 52.71 |
| 52.76 | 124.17 | 3.18 | 90.15 | 1.47 | 1.63% | 1.690 | 0.68 | 47.23 | 2.25 | 1.79 | 101 | 0.176 | 0.75 | 1.334 | 0.507 | | 0.35 | 0.48 | <= | 2.284 | 0.014 | 0.000 | 1.600 | 0.000 | 52.71 | 52.76 |
| 52.84 | 124.29 | 3.18 | 94.64 | 1.47 | 1.55% | 1.607 | 0.67 | 49.60 | 2.21 | 1.70 | 102 | 0.178 | 0.75 | 1.337 | 0.507 | | 0.35 | 0.48 | <= | 2.274 | 0.022 | 0.000 | 1.586 | 0.000 | 52.76 | 52.84 |
| 52.93 | 124.23 | 3.19 | 91.71 | 1.48 | 1.61% | 1.672 | 0.68 | 47.94 | 2.24 | 1.76 | 102 | 0.177 | 0.75 | 1.339 | 0.506 | | 0.35 | 0.48 | <= | 2.278 | 0.025 | 0.000 | 1.564 | 0.000 | 52.84 | 52.93 |
| 52.98 | 124.50 | 3.19 | 88.59 | 1.55 | 1.75% | 1.815 | 0.69 | 46.21 | 2.27 | 1.87 | 103 | 0.182 | 0.74 | 1.341 | 0.506 | | 0.36 | 0.50 | <= | 2.249 | 0.013 | 0.000 | 1.540 | 0.000 | 52.93 | 52.98 |
| 53.02 | 124.87 | 3.19 | 91.42 | 1.61 | 1.76% | 1.825 | 0.69 | 47.70 | 2.26 | 1.84 | 105 | 0.188 | 0.74 | 1.342 | 0.506 | | 0.37 | 0.51 | <= | 2.216 | 0.011 | 0.000 | 1.526 | 0.000 | 52.98 | 53.02 |
| 53.09 | 125.06 | 3.20 | 85.56 | 1.69 | 1.98% | 2.052 | 0.71 | 44.48 | 2.32 | 2.03 | 107 | 0.194 | 0.74 | 1.344 | 0.506 | | 0.38 | 0.53 | <= | 2.184 | 0.018 | 0.000 | 1.516 | 0.000 | 53.02 | 53.09 |
| 53.15 | 125.68 | 3.20 | 91.13 | 1.81 | 1.99% | 2.058 | 0.70 | 47.44 | 2.30 | 1.96 | 111 | 0.206 | 0.74 | 1.346 | 0.506 | | 0.41 | 0.56 | <= | 2.127 | 0.015 | 0.000 | 1.497 | 0.000 | 53.09 | 53.15 |
| 53.25 | 126.71 | 3.21 | 104.02 | 1.99 | 1.91% | 1.974 | 0.68 | 54.30 | 2.24 | 1.78 | 116 | 0.226 | 0.74 | 1.349 | 0.505 | | 0.45 | 0.62 | <= | 2.042 | 0.024 | 0.000 | 1.482 | 0.000 | 53.15 | 53.25 |
| 53.29 | 127.13 | 3.21 | 107.73 | 2.08 | 1.93% | 1.990 | 0.68 | 56.25 | 2.23 | 1.76 | 119 | 0.237 | 0.74 | 1.351 | 0.505 | | 0.47 | 0.65 | <= | 2.005 | 0.010 | 0.000 | 1.458 | 0.000 | 53.25 | 53.29 |
| 53.36 | 127.55 | 3.21 | 112.61 | 2.17 | 1.93% | 1.984 | 0.67 | 58.80 | 2.22 | 1.71 | 122 | 0.248 | 0.74 | 1.353 | 0.505 | | 0.49 | 0.68 | <= | 1.968 | 0.017 | 0.000 | 1.448 | 0.000 | 53.29 | 53.36 |
| 53.42 | 127.85 | 3.22 | 115.74 | 2.24 | 1.94% | 1.991 | 0.67 | 60.42 | 2.21 | 1.69 | 124 | 0.257 | 0.74 | 1.355 | 0.504 | | 0.51 | 0.70 | <= | 1.941 | 0.014 | 0.000 | 1.431 | 0.000 | 53.36 | 53.42 |
| 53.48 | 128.22 | 3.22 | 119.94 | 2.33 | 1.94% | 1.996 | 0.67 | 62.61 | 2.20 | 1.66 | 127 | 0.268 | 0.74 | 1.357 | 0.504 | | 0.53 | 0.73 | <= | 1.908 | 0.014 | 0.000 | 1.417 | 0.000 | 53.42 | 53.48 |
| 53.56 | 128.45 | 3.23 | 118.08 | 2.42 | 2.05% | 2.107 | 0.67 | 61.52 | 2.22 | 1.72 | 128 | 0.276 | 0.74 | 1.359 | 0.504 | | 0.55 | 0.75 | <= | 1.888 | 0.018 | 0.000 | 1.404 | 0.000 | 53.48 | 53.56 |
| 53.64 | 129.27 | 3.23 | 113.39 | 2.74 | 2.42% | 2.487 | 0.69 | 58.92 | 2.29 | 1.92 | 135 | 0.309 | 0.74 | 1.362 | 0.503 | | 0.61 | 0.84 | <= | 1.348 | 0.013 | 0.000 | 1.386 | 0.000 | 53.56 | 53.64 |
| 53.69 | 129.89 | 3.23 | 116.91 | 2.95 | 2.52% | 2.595 | 0.70 | 60.75 | 2.29 | 1.93 | 140 | 0.335 | 0.74 | 1.363 | 0.503 | | 0.67 | 0.92 | <= | 0.691 | 0.004 | 0.000 | 1.373 | 0.000 | 53.64 | 53.69 |
| 53.78 | 130.93 | 3.24 | 137.62 | 3.22 | 2.34% | 2.396 | 0.67 | 71.69 | 2.21 | 1.70 | 148 | 0.381 | 0.74 | 1.366 | 0.503 | | 0.76 | 1.04 | <= | 0.507 | 0.005 | 0.000 | 1.369 | 0.000 | 53.69 | 53.78 |
| 53.82 | 131.36 | 3.24 | 154.22 | 3.29 | 2.13% | 2.179 | 0.65 | 80.49 | 2.15 | 1.54 | 153 | 0.410 | 0.74 | 1.367 | 0.503 | | 0.82 | 1.12 | <= | 0.326 | 0.002 | 0.000 | 1.363 | 0.000 | 53.78 | 53.82 |
| 53.91 | 131.94 | 3.25 | 173.36 | 3.43 | 1.98% | 2.016 | 0.63 | 90.54 | 2.08 | 1.42 | 160 | 0.462 | 0.74 | 1.370 | 0.502 | | 0.92 | 1.27 | <= | 0.260 | 0.003 | 0.000 | 1.361 | 0.000 | 53.82 | 53.91 |
| 53.95 | 132.02 | 3.25 | 177.56 | 3.44 | 1.94% | 1.974 | 0.63 | 92.70 | 2.07 | 1.40 | 162 | 0.473 | 0.74 | 1.371 | 0.502 | | 0.94 | 1.30 | <= | 0.283 | 0.001 | 0.000 | 1.359 | 0.000 | 53.91 | 53.95 |
| 54.04 | 131.95 | 3.26 | 185.28 | 3.36 | 1.81% | 1.846 | 0.62 | 96.65 | 2.03 | 1.34 | 163 | 0.483 | 0.74 | 1.374 | 0.502 | | 0.96 | 1.33 | | 0.000 | 0.000 | 0.000 | 1.357 | 0.000 | | |
| 54.09 | 131.64 | 3.26 | 188.60 | 3.20 | 1.70% | 1.727 | 0.61 | 98.32 | 2.00 | 1.31 | 162 | 0.475 | 0.74 | 1.376 | 0.501 | | 0.95 | 1.30 | | 0.000 | 0.000 | 0.000 | 1.357 | 0.000 | | |
| 54.14 | 131.23 | 3.26 | 190.16 | 3.02 | 1.59% | 1.616 | 0.60 | 99.05 | 1.98 | 1.27 | 160 | 0.461 | 0.74 | 1.377 | 0.501 | | 0.92 | 1.27 | <= | 0.260 | 0.002 | 0.000 | 1.357 | 0.000 | 54.09 | 54.14 |
| 54.22 | 130.16 | 3.27 | 190.26 | 2.60 | 1.37% | 1.390 | 0.59 | 98.96 | 1.93 | 1.22 | 154 | 0.422 | 0.73 | 1.380 | 0.501 | | 0.84 | 1.16 | <= | 0.367 | 0.004 | 0.000 | 1.356 | 0.000 | 54.14 | 54.22 |
| 54.27 | 129.10 | 3.27 | 191.82 | 2.25 | 1.17% | 1.193 | 0.57 | 99.70 | 1.88 | 1.17 | 151 | 0.398 | 0.73 | 1.381 | 0.501 | | 0.80 | 1.09 | <= | 0.591 | 0.004 | 0.000 | 1.352 | 0.000 | 54.22 | 54.27 |
| 54.36 | 129.56 | 3.28 | 192.60 | 2.39 | 1.24% | 1.262 | 0.58 | 99.95 | 1.90 | 1.19 | 153 | 0.411 | 0.73 | 1.384 | 0.500 | | 0.82 | 1.13 | <= | 0.334 | 0.004 | 0.000 | 1.349 | 0.000 | 54.27 | 54.36 |
| 54.42 | 129.97 | 3.28 | 194.46 | 2.52 | 1.30% | 1.318 | 0.58 | 100.82 | 1.91 | 1.20 | 155 | 0.427 | 0.73 | 1.386 | 0.500 | | 0.85 | 1.18 | <= | 0.384 | 0.003 | 0.000 | 1.345 | 0.000 | 54.36 | 54.42 |
| 54.49 | 130.35 | 3.29 | 196.61 | 2.64 | 1.34% | 1.366 | 0.58 | 101.82 | 1.92 | 1.20 | 158 | 0.444 | 0.73 | 1.388 | 0.500 | | 0.89 | 1.22 | <= | 0.225 | 0.002 | 0.000 | 1.342 | 0.000 | 54.42 | 54.49 |
| 54.53 | 130.52 | 3.29 | 197.88 | 2.70 | 1.36% | 1.388 | 0.58 | 102.41 | 1.92 | 1.21 | 159 | 0.453 | 0.73 | 1.389 | 0.499 | | 0.91 | 1.25 | <= | 0.245 | 0.001 | 0.000 | 1.340 | 0.000 | 54.49 | 54.53 |
| 54.63 | 130.88 | 3.30 | 197.98 | 2.84 | 1.43% | 1.459 | 0.59 | 102.28 | 1.93 | 1.22 | 160 | 0.464 | 0.73 | 1.392 | 0.499 | | 0.93 | 1.28 | <= | 0.271 | 0.003 | 0.000 | 1.339 | 0.000 | 54.53 | 54.63 |
| 54.68 | 131.08 | 3.30 | 202.47 | 2.89 | 1.43% | 1.451 | 0.59 | 104.54 | 1.93 | 1.21 | 163 | 0.484 | 0.73 | 1.394 | 0.499 | | 0.97 | 1.33 | | 0.000 | 0.000 | 0.000 | 1.336 | 0.000 | | |
| 54.73 | 131.21 | 3.30 | 205.59 | 2.93 | 1.43% | 1.448 | 0.58 | 106.08 | 1.92 | 1.21 | 165 | 0.498 | 0.73 | 1.396 | 0.498 | | 1.00 | 1.37 | | 0.000 | 0.000 | 0.000 | 1.336 | 0.000 | | |
| 54.81 | 131.32 | 3.31 | 209.01 | 2.96 | 1.42% | 1.439 | 0.58 | 107.72 | 1.91 | 1.20 | 167 | 0.512 | 0.73 | 1.398 | 0.498 | | 1.03 | 1.41 | | 0.000 | 0.000 | 0.000 | 1.336 | 0.000 | | |
| 54.87 | 131.28 | 3.31 | 210.38 | 2.93 | 1.39% | 1.415 | 0.58 | 108.32 | 1.91 | 1.19 | 167 | 0.514 | 0.73 | 1.400 | 0.498 | | 1.03 | 1.42 | | 0.000 | 0.000 | 0.000 | 1.336 | 0.000 | | |
| 54.94 | 131.20 | 3.32 | 210.97 | 2.90 | 1.37% | 1.397 | 0.58 | 108.49 | 1.90 | 1.19 | 167 | 0.513 | 0.73 | 1.402 | 0.497 | | 1.03 | 1.42 | | 0.000 | 0.000 | 0.000 | 1.336 | 0.000 | | |
| 54.99 | 131.17 | 3.32 | 210.87 | 2.89 | 1.37% | 1.392 | 0.58 | 108.33 | 1.90 | 1.19 | 167 | 0.511 | 0.73 | 1.404 | 0.497 | | 1.03 | 1.41 | | 0.000 | 0.000 | 0.000 | 1.336 | 0.000 | | |
| 55.08 | 131.08 | 3.33 | 206.08 | 2.88 | 1.40% | 1.420 | 0.58 | 105.66 | 1.91 | 1.20 | 164 | 0.491 | 0.73 | 1.406 | 0.497 | | 0.99 | 1.36 | | 0.000 | 0.000 | 0.000 | 1.336 | 0.000 | | |
| 55.12 | 131.01 | 3.33 | 204.62 | 2.85 | 1.39% | 1.416 | 0.58 | 104.82 | 1.92 | 1.20 | 163 | 0.483 | 0.73 | 1.408 | 0.497 | | 0.97 | 1.34 | | 0.000 | 0.000 | 0.000 | 1.336 | 0.000 | | |
| 55.19 | 130.99 | 3.33 | 201.30 | 2.86 | 1.42% | 1.445 | 0.59 | 102.96 | 1.93 | 1.22 | 162 | 0.472 | 0.73 | 1.410 | 0.496 | | 0.95 | 1.31 | | 0.000 | 0.000 | 0.000 | 1.336 | 0.000 | | |
| 55.26 | 131.23 | 3.34 | 194.56 | 2.99 | 1.54% | 1.564 | 0.60 | 99.33 | 1.97 | 1.26 | 160 | 0.461 | 0.73 | 1.412 | 0.496 | | 0.93 | 1.28 | <= | 0.271 | 0.002 | 0.000 | 1.336 | 0.000 | 55.19 | 55.26 |
| 55.33 | 131.88 | 3.34 | 182.74 | 3.34 | 1.83% | 1.862 | 0.62 | 93.07 | 2.04 | 1.36 | 160 | 0.462 | 0.73 | 1.414 | 0.496 | | 0.93 | 1.28 | <= | 0.273 | 0.002 | 0.000 | 1.334 | 0.000 | 55.26 | 55.33 |
| 55.39 | 132.26 | 3.35 | 169.16 | 3.61 | 2.13% | 2.177 | 0.64 | 85.93 | 2.12 | 1.50 | 160 | 0.462 | 0.73 | 1.416 | 0.495 | | 0.93 | 1.28 | <= | 0.273 | 0.002 | 0.000 | 1.331 | 0.000 | 55.33 | 55.39 |
| 55.48 | 132.09 | 3.35 | 153.83 | 3.64 | 2.37% | 2.419 | 0.66 | 77.86 | 2.19 | 1.64 | 157 | 0.440 | 0.72 | 1.419 | 0.495 | | 0.89 | 1.22 | <= | 0.226 | 0.002 | 0.000 | 1.329 | 0.000 | 55.39 | 55.48 |
| 55.52 | 131.75 | 3.35 | 145.14 | 3.54 | 2.44% | 2.497 | 0.67 | 73.31 | 2.22 | 1.71 | 154 | 0.417 | 0.72 | 1.420 | 0.495 | | 0.84 | 1.16 | <= | 0.367 | 0.002 | 0.000 | 1.327 | 0.000 | 55.48 | 55.52 |
| 55.60 | 130.85 | 3.36 | 137.32 | 3.19 | 2.32% | 2.381 | 0.67 | 69.16 | 2.22 | 1.72 | 145 | 0.366 | 0.72 | 1.423 | 0.494 | | 0.74 | 1.02 | <= | 0.467 | 0.004 | 0.000 | 1.325 | 0.000 | 55.52 | 55.60 |
| 55.66 | 130.39 | 3.36 | 147.38 | 2.92 | 1.98% | 2.028 | 0.65 | 74.28 | 2.14 | 1.54 | 142 | 0.347 | 0.72 | 1.425 | 0.494 | | 0.70 | 0.97 | <= | 0.822 | 0.006 | 0.000 | 1.321 | 0.000 | 55.60 | 55.66 |
| 55.71 | 130.54 | 3.45 | 180.00 | 2.80 | 1.56% | 1.586 | 0.61 | 87.32 | 2.01 | 1.31 | 148 | 0.381 | 0.72 | 1.426 | 0.485 | | 0.79 | 1.08 | <= | 0.576 | 0.003 | 0.000 | 1.315 | 0.000 | 55.66 | 55.71 |
| 55.78 | 130.74 | 3.45 | 240.85 | 2.61 | 1.08% | 1.099 | 0.54 | 117.54 | 1.79 | 1.10 | 175 | 0.576 | 0.72 | 1.428 | 0.486 | | 1.19 | 1.63 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 55.84 | 130.91 | 3.45 | 287.83 | 2.52 | 0.88% | 0.886 | 0.51 | 140.93 | 1.66 | 1.01 | 197 | 0.796 | 0.72 | 1.430 | 0.486 | | 1.64 | 2.26 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 55.91 | 130.64 | 3.45 | 301.11 | 2.39 | 0.79% | 0.803 | 0.50 | 147.67 | 1.61 | 1.00 | 200 | 0.824 | 0.72 | 1.432 | 0.486 | | 1.70 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 55.97 | 130.22 | 3.45 | 323.48 | 2.20 | 0.68% | 0.687 | 0.50 | 158.92 | 1.54 | 1.00 | 200 | 0.824 | 0.72 | 1.434 | 0.486 | | 1.70 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.06 | 129.07 | 3.45 | 330.81 | 1.87 | 0.57% | 0.571 | 0.50 | 162.79 | 1.48 | 1.00 | 200 | 0.824 | 0.72 | 1.437 | 0.486 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.10 | 128.80 | 3.45 | 334.03 | 1.79 | 0.54% | 0.541 | 0.50 | 164.49 | 1.46 | 1.00 | 200 | 0.824 | 0.72 | 1.438 | 0.486 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.19 | 129.41 | 3.45 | 337.55 | 1.94 | 0.57% | 0.581 | 0.50 | 166.47 | 1.48 | 1.00 | 200 | 0.824 | 0.72 | 1.441 | 0.486 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.24 | 129.84 | 3.45 | 340.28 | 2.05 | 0.60% | 0.609 | 0.50 | 167.96 | 1.49 | 1.00 | 200 | 0.824 | 0.72 | 1.443 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.33 | 129.84 | 3.45 | 349.36 | 2.04 | 0.58% | 0.590 | 0.50 | 172.73 | 1.47 | 1.00 | 200 | 0.824 | 0.72 | 1.445 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.37 | 129.93 | 3.45 | 357.37 | 2.05 | 0.57% | 0.579 | 0.50 | 176.84 | 1.46 | 1.00 | 200 | 0.824 | 0.72 | 1.447 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.45 | 130.28 | 3.45 | 367.92 | 2.12 | 0.58% | 0.582 | 0.50 | 182.34 | 1.45 | 1.00 | 200 | 0.824 | 0.72 | 1.449 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.51 | 130.04 | 3.45 | 374.76 | 2.04 | 0.54% | 0.549 | 0.50 | 185.94 | 1.43 | 1.00 | 200 | 0.824 | 0.72 | 1.451 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.58 | 130.96 | 3.45 | 380.91 | 2.31 | 0.61% | 0.612 | 0.50 | 189.23 | 1.46 | 1.00 | 200 | 0.824 | 0.72 | 1.453 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.64 | 131.59 | 3.45 | 383.74 | 2.51 | 0.65% | 0.660 | 0.50 | 190.82 | 1.48 | 1.00 | 200 | 0.824 | 0.72 | 1.455 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.70 | 131.74 | 3.45 | 359.03 | 2.61 | 0.73% | 0.734 | 0.50 | 178.59 | 1.53 | 1.00 | 200 | 0.824 | 0.71 | 1.457 | 0.488 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.79 | 132.15 | 3.45 | 367.53 | 2.74 | 0.75% | 0.753 | 0.50 | 183.12 | 1.53 | 1.00 | 200 | 0.824 | 0.71 | 1.460 | 0.488 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.83 | 132.26 | 3.45 | 367.24 | 2.79 | 0.76% | 0.767 | 0.50 | 183.09 | 1.54 | 1.00 | 200 | 0.824 | 0.71 | 1.461 | 0.488 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.91 | 132.39 | 3.45 | 363.33 | 2.85 | 0.78% | 0.792 | 0.50 | 181.35 | 1.55 | 1.00 | 200 | 0.824 | 0.71 | 1.464 | 0.488 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 56.97 | 132.45 | 3.45 | 360.01 | 2.88 | 0.80% | 0.808 | 0.50 | 179.85 | 1.56 | 1.00 | 200 | 0.824 | 0.71 | 1.465 | 0.488 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.03 | 132.50 | 3.45 | 358.25 | 2.90 | 0.81% | 0.817 | 0.50 | 179.13 | 1.56 | 1.00 | 200 | 0.824 | 0.71 | 1.467 | 0.488 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.10 | 132.52 | 3.45 | 354.93 | 2.92 | 0.82% | 0.831 | 0.50 | 177.65 | 1.57 | 1.00 | 200 | 0.824 | 0.71 | 1.470 | 0.488 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.16 | 132.59 | 3.45 | 353.17 | 2.95 | 0.84% | 0.844 | 0.50 | 176.92 | 1.58 | 1.00 | 200 | 0.824 | 0.71 | 1.471 | 0.489 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.23 | 132.70 | 3.45 | 350.14 | 3.01 | 0.86% | 0.868 | 0.50 | 175.59 | 1.59 | 1.00 | 200 | 0.824 | 0.71 | 1.474 | 0.489 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.32 | 132.62 | 3.45 | 347.02 | 2.98 | 0.86% | 0.867 | 0.50 | 174.25 | 1.59 | 1.00 | 200 | 0.824 | 0.71 | 1.476 | 0.489 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.36 | 132.57 | 3.45 | 345.07 | 2.97 | 0.86% | 0.869 | 0.50 | 173.37 | 1.59 | 1.00 | 200 | 0.824 | 0.71 | 1.478 | 0.489 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.44 | 131.40 | 3.45 | 337.84 | 2.55 | 0.75% | 0.763 | 0.50 | 169.92 | 1.56 | 1.00 | 200 | 0.824 | 0.71 | 1.480 | 0.489 | | 1.68 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.50 | 130.15 | 3.45 | 332.08 | 2.16 | 0.65% | 0.657 | 0.50 | 167.15 | 1.52 | 1.00 | 200 | 0.824 | 0.71 | 1.482 | 0.489 | | 1.68 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.57 | 129.58 | 3.45 | 325.73 | 2.01 | 0.62% | 0.624 | 0.50 | 164.10 | 1.51 | 1.00 | 200 | 0.824 | 0.71 | 1.484 | 0.489 | | 1.68 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.64 | 129.14 | 3.45 | 322.21 | 1.90 | 0.59% | 0.596 | 0.50 | 162.49 | 1.50 | 1.00 | 200 | 0.824 | 0.71 | 1.486 | 0.490 | | 1.68 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.68 | 128.87 | 3.45 | 322.41 | 1.83 | 0.57% | 0.574 | 0.50 | 162.70 | 1.49 | 1.00 | 200 | 0.824 | 0.71 | 1.488 | 0.490 | | 1.68 | 2.32 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.75 | 128.37 | 3.45 | 310.30 | 1.73 | 0.56% | 0.564 | 0.50 | 156.70 | 1.50 | 1.00 | 200 | 0.824 | 0.71 | 1.490 | 0.490 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.82 | 128.32 | 3.45 | 315.28 | 1.71 | 0.54% | 0.548 | 0.50 | 159.42 | 1.48 | 1.00 | 200 | 0.824 | 0.71 | 1.492 | 0.490 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.89 | 128.27 | 3.45 | 310.88 | 1.71 | 0.55% | 0.556 | 0.50 | 157.34 | 1.49 | 1.00 | 200 | 0.824 | 0.71 | 1.494 | 0.490 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 57.97 | 128.18 | 3.45 | 300.92 | 1.71 | 0.57% | 0.575 | 0.50 | 152.44 | 1.51 | 1.00 | 200 | 0.824 | 0.70 | 1.497 | 0.490 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.02 | 127.98 | 3.45 | 292.62 | 1.68 | 0.57% | 0.581 | 0.50 | 148.31 | 1.52 | 1.00 | 200 | 0.824 | 0.70 | 1.498 | 0.490 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.11 | 127.40 | 3.45 | 285.98 | 1.56 | 0.55% | 0.552 | 0.50 | 145.11 | 1.52 | 1.00 | 199 | 0.808 | 0.70 | 1.501 | 0.491 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.16 | 127.06 | 3.45 | 283.63 | 1.49 | 0.53% | 0.532 | 0.50 | 144.02 | 1.51 | 1.00 | 197 | 0.791 | 0.70 | 1.503 | 0.491 | | 1.61 | 2.22 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.21 | 126.60 | 3.45 | 279.14 | 1.41 | 0.51% | 0.511 | 0.50 | 141.82 | 1.50 | 1.00 | 194 | 0.758 | 0.70 | 1.504 | 0.491 | | 1.54 | 2.12 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.27 | 126.06 | 3.45 | 277.58 | 1.31 | 0.47% | 0.478 | 0.50 | 141.16 | 1.49 | 1.00 | 193 | 0.747 | 0.70 | 1.506 | 0.491 | | 1.52 | 2.09 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.34 | 125.68 | 3.45 | 277.38 | 1.25 | 0.45% | 0.456 | 0.50 | 141.21 | 1.48 | 1.00 | 193 | 0.747 | 0.70 | 1.508 | 0.491 | | 1.52 | 2.09 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.42 | 125.58 | 3.45 | 276.89 | 1.23 | 0.44% | 0.450 | 0.50 | 141.14 | 1.47 | 1.00 | 193 | 0.745 | 0.70 | 1.511 | 0.491 | | 1.52 | 2.09 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.47 | 125.55 | 3.45 | 272.89 | 1.23 | 0.45% | 0.456 | 0.50 | 139.19 | 1.48 | 1.00 | 190 | 0.717 | 0.70 | 1.512 | 0.491 | | 1.46 | 2.01 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.56 | 125.50 | 3.45 | 267.22 | 1.23 | 0.46% | 0.466 | 0.50 | 136.46 | 1.49 | 1.00 | 186 | 0.679 | 0.70 | 1.515 | 0.492 | | 1.38 | 1.90 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.61 | 125.46 | 3.45 | 262.93 | 1.23 | 0.47% | 0.474 | 0.50 | 134.35 | 1.50 | 1.00 | 183 | 0.651 | 0.70 | 1.517 | 0.492 | | 1.32 | 1.82 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.69 | 124.98 | 3.45 | 255.89 | 1.16 | 0.45% | 0.460 | 0.50 | 130.87 | 1.50 | 1.00 | 178 | 0.607 | 0.70 | 1.519 | 0.492 | | 1.23 | 1.70 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.73 | 124.68 | 3.45 | 253.26 | 1.12 | 0.44% | 0.448 | 0.50 | 129.59 | 1.50 | 1.00 | 176 | 0.591 | 0.70 | 1.520 | 0.492 | | 1.20 | 1.65 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.80 | 124.71 | 3.45 | 248.96 | 1.13 | 0.45% | 0.460 | 0.50 | 127.51 | 1.51 | 1.00 | 173 | 0.566 | 0.70 | 1.523 | 0.492 | | 1.15 | 1.58 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.87 | 124.77 | 3.45 | 246.52 | 1.14 | 0.46% | 0.469 | 0.50 | 126.38 | 1.52 | 1.00 | 172 | 0.552 | 0.70 | 1.525 | 0.492 | | 1.12 | 1.54 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 58.95 | 124.68 | 3.45 | 244.27 | 1.13 | 0.46% | 0.469 | 0.50 | 125.37 | 1.53 | 1.00 | 170 | 0.540 | 0.70 | 1.527 | 0.492 | | 1.10 | 1.51 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 59.00 | 124.54 | 3.45 | 243.49 | 1.11 | 0.46% | 0.462 | 0.50 | 125.07 | 1.52 | 1.00 | 170 | 0.536 | 0.70 | 1.529 | 0.493 | | 1.09 | 1.50 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 59.07 | 124.24 | 3.45 | 237.58 | 1.08 | 0.45% | 0.461 | 0.50 | 122.13 | 1.53 | 1.00 | 166 | 0.504 | 0.70 | 1.531 | 0.493 | | 1.02 | 1.41 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 59.13 | 124.18 | 3.45 | 230.89 | 1.08 | 0.47% | 0.475 | 0.50 | 118.76 | 1.55 | 1.00 | 161 | 0.469 | 0.70 | 1.533 | 0.493 | | 0.95 | 1.31 | | 0.000 | 0.000 | 0.000 | 1.311 | 0.000 | | |
| 59.21 | 124.73 | 3.45 | 227.96 | 1.17 | 0.51% | 0.521 | 0.50 | 117.38 | 1.58 | 1.00 | 159 | 0.455 | 0.69 | 1.535 | 0.493 | | 0.92 | 1.27 | <= | 0.264 | 0.003 | 0.000 | 1.311 | 0.000 | 59.13 | 59.21 |
| 59.29 | 124.14 | 3.45 | 220.15 | 1.09 | 0.50% | 0.503 | 0.50 | 113.44 | 1.58 | 1.00 | 154 | 0.418 | 0.69 | 1.538 | 0.493 | | 0.85 | 1.17 | <= | 0.375 | 0.004 | 0.000 | 1.309 | 0.000 | 59.21 | 59.29 |
| 59.34 | 122.94 | 3.45 | 212.24 | 0.94 | 0.44% | 0.450 | 0.50 | 109.39 | 1.57 | 1.00 | 148 | 0.383 | 0.69 | 1.539 | 0.493 | | 0.78 | 1.07 | <= | 0.550 | 0.003 | 0.000 | 1.305 | 0.000 | 59.29 | 59.34 |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-4

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| **Analysis Scenario:** | MCE (2% exceedance probability in 50 years) |
|---|---|

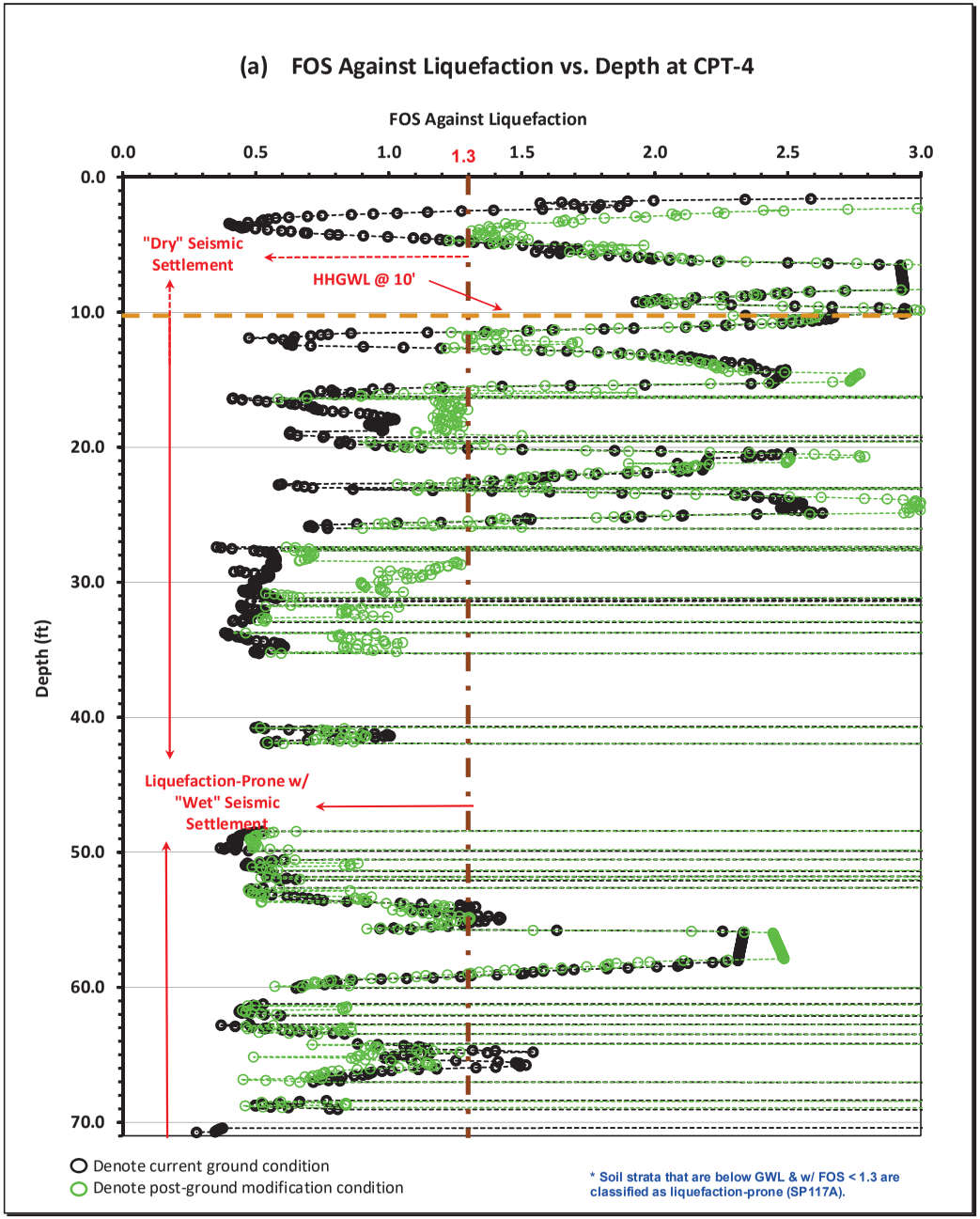
D(ft) 1 **MAGNITUDE:** 6.62 **MAGNITUDE SCALING FACTOR:** 1.38

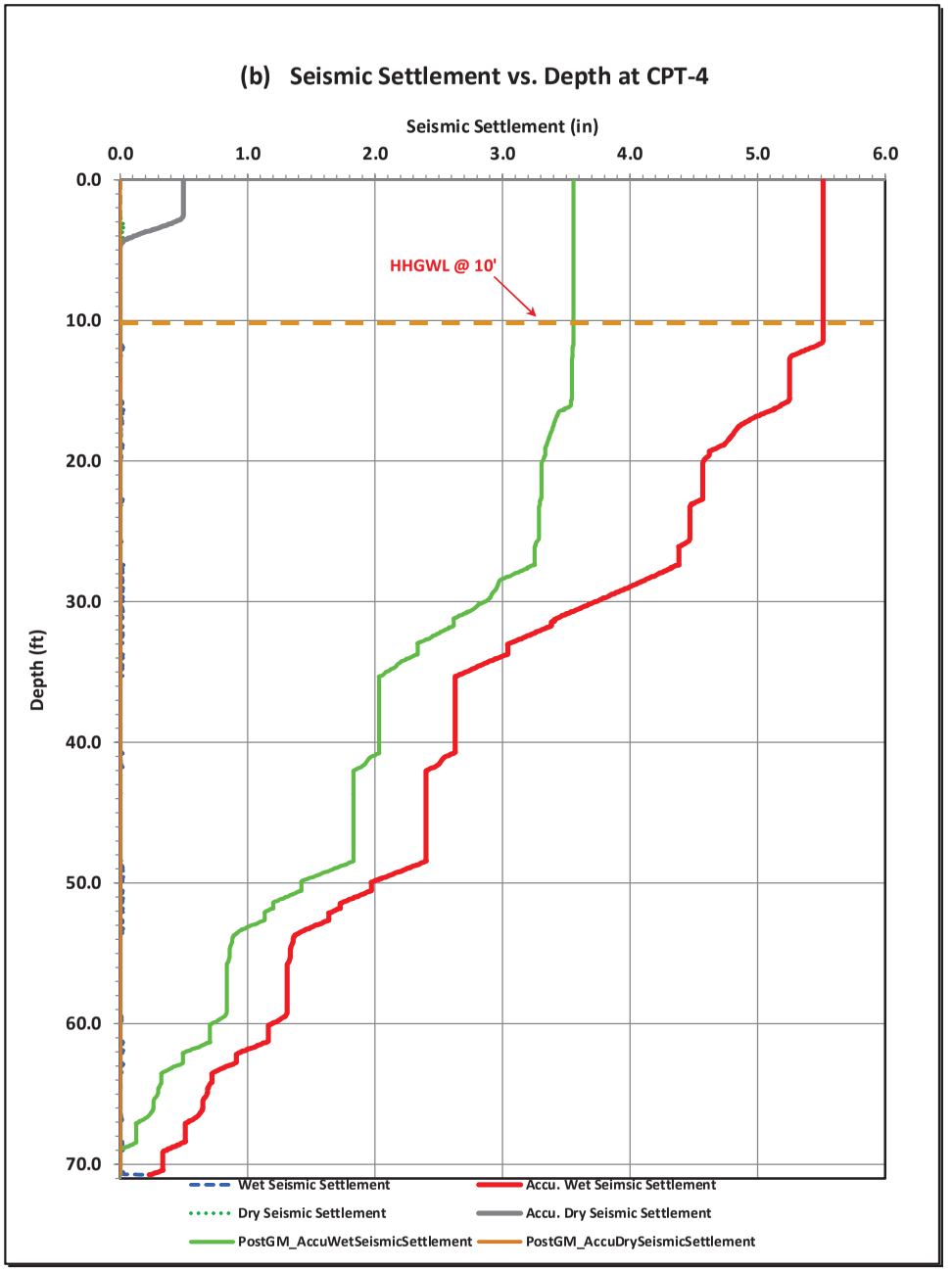
**GROUNDWATER LEVEL:** 10 feet **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.38 | 121.77 | 3.45 | 203.93 | 0.81 | 0.40% | 0.404 | 0.50 | 105.11 | 1.55 | 1.00 | 142 | 0.348 | 0.69 | 1.541 | 0.493 | | 0.71 | 0.97 | <= | 0.833 | 0.004 | 0.000 | 1.302 | 0.000 | 59.34 | 59.38 |
| 59.46 | 123.10 | 3.45 | 193.68 | 0.99 | 0.51% | 0.520 | 0.50 | 99.86 | 1.63 | 1.00 | 135 | 0.310 | 0.69 | 1.543 | 0.494 | | 0.63 | 0.86 | <= | 1.191 | 0.011 | 0.000 | 1.298 | 0.000 | 59.38 | 59.46 |
| 59.52 | 122.24 | 3.45 | 186.84 | 0.89 | 0.48% | 0.485 | 0.50 | 96.37 | 1.63 | 1.00 | 130 | 0.286 | 0.69 | 1.545 | 0.494 | | 0.58 | 0.80 | <= | 1.666 | 0.012 | 0.000 | 1.287 | 0.000 | 59.46 | 59.52 |
| 59.59 | 123.47 | 3.45 | 181.37 | 1.06 | 0.58% | 0.596 | 0.52 | 93.60 | 1.69 | 1.03 | 130 | 0.282 | 0.69 | 1.547 | 0.494 | | 0.57 | 0.79 | <= | 1.650 | 0.014 | 0.000 | 1.275 | 0.000 | 59.52 | 59.59 |
| 59.66 | 124.32 | 3.45 | 180.10 | 1.19 | 0.66% | 0.674 | 0.53 | 93.04 | 1.73 | 1.06 | 131 | 0.289 | 0.69 | 1.549 | 0.494 | | 0.58 | 0.80 | <= | 1.049 | 0.009 | 0.000 | 1.261 | 0.000 | 59.59 | 59.66 |
| 59.73 | 125.63 | 3.45 | 172.19 | 1.45 | 0.84% | 0.859 | 0.55 | 88.98 | 1.82 | 1.12 | 130 | 0.286 | 0.69 | 1.552 | 0.494 | | 0.58 | 0.80 | <= | 1.662 | 0.014 | 0.000 | 1.252 | 0.000 | 59.66 | 59.73 |
| 59.79 | 126.78 | 3.45 | 158.22 | 1.75 | 1.11% | 1.131 | 0.59 | 81.69 | 1.93 | 1.22 | 128 | 0.273 | 0.69 | 1.553 | 0.494 | | 0.55 | 0.76 | <= | 1.705 | 0.012 | 0.000 | 1.238 | 0.000 | 59.73 | 59.79 |
| 59.88 | 127.43 | 3.45 | 121.79 | 2.08 | 1.71% | 1.758 | 0.66 | 62.55 | 2.16 | 1.57 | 121 | 0.243 | 0.69 | 1.556 | 0.495 | | 0.49 | 0.68 | <= | 1.983 | 0.021 | 0.000 | 1.226 | 0.000 | 59.79 | 59.88 |
| 59.92 | 127.16 | 3.45 | 96.59 | 2.17 | 2.25% | 2.330 | 0.71 | 49.27 | 2.33 | 2.04 | 120 | 0.239 | 0.69 | 1.558 | 0.495 | | 0.48 | 0.67 | <= | 1.996 | 0.010 | 0.000 | 1.204 | 0.000 | 59.88 | 59.92 |
| 59.99 | 126.53 | 3.45 | 76.67 | 2.15 | 2.80% | 2.936 | 0.75 | 38.77 | 2.48 | 2.67 | 120 | 0.241 | 0.69 | 1.560 | 0.495 | | 0.49 | 0.67 | <= | 1.991 | 0.017 | 0.000 | 1.195 | 0.000 | 59.92 | 59.99 |
| 60.05 | 125.74 | 3.45 | 64.85 | 2.04 | 3.15% | 3.322 | 0.78 | 32.55 | 2.58 | 3.19 | 118 | 0.235 | 0.69 | 1.562 | 0.495 | | 0.47 | 0.65 | <= | 2.012 | 0.014 | 0.000 | 1.178 | 0.000 | 59.99 | 60.05 |
| 60.12 | 124.57 | 3.45 | 51.08 | 1.88 | 3.68% | 3.947 | 0.82 | 25.28 | 2.72 | 4.13 | 136 | 0.315 | 0.69 | 1.564 | 0.495 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.19 | 123.55 | 3.45 | 43.17 | 1.73 | 4.01% | 4.355 | 0.85 | 21.10 | 2.81 | 4.87 | 161 | 0.466 | 0.69 | 1.566 | 0.495 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.27 | 122.26 | 3.45 | 37.02 | 1.53 | 4.13% | 4.557 | 0.87 | 17.86 | 2.88 | 5.52 | 182 | 0.643 | 0.69 | 1.568 | 0.496 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.32 | 121.24 | 3.45 | 33.79 | 1.37 | 4.05% | 4.515 | 0.88 | 16.16 | 2.91 | 5.84 | 193 | 0.746 | 0.69 | 1.570 | 0.496 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.38 | 119.85 | 3.45 | 30.77 | 1.17 | 3.80% | 4.282 | 0.89 | 14.56 | 2.94 | 6.06 | 200 | 0.823 | 0.68 | 1.572 | 0.496 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.44 | 118.38 | 3.45 | 30.91 | 0.95 | 3.07% | 3.459 | 0.87 | 14.65 | 2.87 | 5.43 | 179 | 0.616 | 0.68 | 1.574 | 0.496 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.50 | 117.01 | 3.45 | 30.91 | 0.79 | 2.56% | 2.877 | 0.85 | 14.67 | 2.82 | 4.96 | 164 | 0.488 | 0.68 | 1.576 | 0.496 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.59 | 117.16 | 3.45 | 31.06 | 0.80 | 2.58% | 2.897 | 0.85 | 14.77 | 2.82 | 4.96 | 164 | 0.487 | 0.68 | 1.578 | 0.496 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.64 | 117.38 | 3.45 | 33.60 | 0.81 | 2.41% | 2.686 | 0.84 | 16.14 | 2.77 | 4.50 | 149 | 0.385 | 0.68 | 1.580 | 0.496 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.71 | 118.37 | 3.45 | 37.02 | 0.89 | 2.40% | 2.651 | 0.82 | 17.99 | 2.72 | 4.16 | 137 | 0.321 | 0.68 | 1.582 | 0.497 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.77 | 120.01 | 3.45 | 39.85 | 1.09 | 2.74% | 2.994 | 0.83 | 19.53 | 2.73 | 4.20 | 139 | 0.327 | 0.68 | 1.584 | 0.497 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.86 | 121.74 | 3.45 | 43.76 | 1.34 | 3.06% | 3.324 | 0.82 | 21.66 | 2.72 | 4.15 | 137 | 0.318 | 0.68 | 1.587 | 0.497 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.90 | 122.19 | 3.45 | 43.27 | 1.43 | 3.30% | 3.591 | 0.83 | 21.41 | 2.75 | 4.36 | 144 | 0.356 | 0.68 | 1.588 | 0.497 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 60.97 | 123.39 | 3.45 | 49.52 | 1.61 | 3.25% | 3.495 | 0.81 | 24.80 | 2.69 | 3.91 | 129 | 0.280 | 0.68 | 1.590 | 0.497 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 61.03 | 123.57 | 3.45 | 49.62 | 1.65 | 3.33% | 3.574 | 0.82 | 24.88 | 2.69 | 3.95 | 130 | 0.286 | 0.68 | 1.592 | 0.497 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 61.10 | 123.88 | 3.45 | 49.32 | 1.73 | 3.51% | 3.771 | 0.82 | 24.75 | 2.71 | 4.08 | 135 | 0.308 | 0.68 | 1.594 | 0.498 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 61.18 | 123.91 | 3.45 | 51.37 | 1.71 | 3.33% | 3.568 | 0.81 | 25.89 | 2.68 | 3.85 | 127 | 0.271 | 0.68 | 1.597 | 0.498 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.163 | 0.000 | | |
| 61.24 | 123.79 | 3.45 | 60.26 | 1.60 | 2.66% | 2.816 | 0.77 | 30.72 | 2.55 | 3.03 | 106 | 0.191 | 0.68 | 1.599 | 0.498 | | 0.38 | 0.53 | <= | 2.201 | 0.016 | 0.000 | 1.163 | 0.000 | 61.18 | 61.24 |
| 61.33 | 124.18 | 3.45 | 86.34 | 1.50 | 1.74% | 1.810 | 0.69 | 44.89 | 2.28 | 1.90 | 102 | 0.178 | 0.68 | 1.601 | 0.498 | | 0.36 | 0.49 | <= | 2.277 | 0.025 | 0.000 | 1.148 | 0.000 | 61.24 | 61.33 |
| 61.37 | 124.39 | 3.45 | 100.31 | 1.46 | 1.46% | 1.507 | 0.66 | 52.49 | 2.17 | 1.61 | 102 | 0.180 | 0.68 | 1.603 | 0.498 | | 0.36 | 0.50 | <= | 2.262 | 0.011 | 0.000 | 1.123 | 0.000 | 61.33 | 61.37 |
| 61.43 | 124.38 | 3.45 | 106.17 | 1.44 | 1.36% | 1.402 | 0.65 | 55.72 | 2.13 | 1.52 | 103 | 0.183 | 0.68 | 1.605 | 0.498 | | 0.37 | 0.50 | <= | 2.246 | 0.016 | 0.000 | 1.112 | 0.000 | 61.37 | 61.43 |
| 61.50 | 124.11 | 3.45 | 106.66 | 1.38 | 1.29% | 1.337 | 0.64 | 56.05 | 2.12 | 1.48 | 102 | 0.179 | 0.68 | 1.607 | 0.499 | | 0.36 | 0.49 | <= | 2.269 | 0.019 | 0.000 | 1.096 | 0.000 | 61.43 | 61.50 |
| 61.55 | 123.75 | 3.45 | 103.14 | 1.33 | 1.29% | 1.334 | 0.65 | 54.19 | 2.13 | 1.51 | 100 | 0.173 | 0.68 | 1.608 | 0.499 | | 0.35 | 0.48 | <= | 2.308 | 0.014 | 0.000 | 1.077 | 0.000 | 61.50 | 61.55 |
| 61.64 | 123.04 | 3.45 | 96.79 | 1.23 | 1.27% | 1.318 | 0.65 | 50.81 | 2.15 | 1.55 | 96 | 0.162 | 0.67 | 1.611 | 0.499 | | 0.32 | 0.45 | <= | 2.387 | 0.026 | 0.000 | 1.063 | 0.000 | 61.55 | 61.64 |
| 61.72 | 122.97 | 3.45 | 91.71 | 1.24 | 1.35% | 1.405 | 0.66 | 48.11 | 2.19 | 1.63 | 95 | 0.160 | 0.67 | 1.614 | 0.499 | | 0.32 | 0.44 | <= | 2.403 | 0.023 | 0.000 | 1.037 | 0.000 | 61.64 | 61.72 |
| 61.78 | 122.92 | 3.45 | 88.10 | 1.25 | 1.42% | 1.477 | 0.67 | 46.19 | 2.21 | 1.70 | 95 | 0.159 | 0.67 | 1.616 | 0.499 | | 0.32 | 0.44 | <= | 2.409 | 0.017 | 0.000 | 1.014 | 0.000 | 61.72 | 61.78 |
| 61.82 | 122.89 | 3.45 | 86.14 | 1.26 | 1.46% | 1.524 | 0.68 | 45.16 | 2.23 | 1.75 | 95 | 0.159 | 0.67 | 1.617 | 0.499 | | 0.32 | 0.44 | <= | 2.409 | 0.012 | 0.000 | 0.997 | 0.000 | 61.78 | 61.82 |
| 61.91 | 123.09 | 3.45 | 80.87 | 1.32 | 1.63% | 1.705 | 0.69 | 42.34 | 2.29 | 1.91 | 96 | 0.163 | 0.67 | 1.620 | 0.500 | | 0.33 | 0.45 | <= | 2.382 | 0.026 | 0.000 | 0.985 | 0.000 | 61.82 | 61.91 |
| 61.95 | 123.56 | 3.45 | 76.18 | 1.43 | 1.88% | 1.966 | 0.71 | 39.80 | 2.35 | 2.13 | 99 | 0.171 | 0.67 | 1.621 | 0.500 | | 0.34 | 0.47 | <= | 2.317 | 0.011 | 0.000 | 0.960 | 0.000 | 61.91 | 61.95 |
| 62.02 | 124.42 | 3.45 | 71.30 | 1.65 | 2.31% | 2.432 | 0.74 | 37.18 | 2.44 | 2.48 | 107 | 0.193 | 0.67 | 1.623 | 0.500 | | 0.39 | 0.53 | <= | 2.188 | 0.018 | 0.000 | 0.948 | 0.000 | 61.95 | 62.02 |
| 62.09 | 125.03 | 3.45 | 66.22 | 1.84 | 2.78% | 2.931 | 0.76 | 34.44 | 2.52 | 2.89 | 113 | 0.216 | 0.67 | 1.625 | 0.500 | | 0.43 | 0.59 | <= | 2.084 | 0.018 | 0.000 | 0.930 | 0.000 | 62.02 | 62.09 |
| 62.17 | 125.28 | 3.45 | 58.70 | 1.98 | 3.37% | 3.584 | 0.80 | 30.35 | 2.63 | 3.50 | 119 | 0.237 | 0.67 | 1.628 | 0.500 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.913 | 0.000 | | |
| 62.22 | 125.04 | 3.45 | 54.01 | 1.97 | 3.65% | 3.896 | 0.81 | 27.80 | 2.68 | 3.88 | 128 | 0.275 | 0.67 | 1.629 | 0.500 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.913 | 0.000 | | |
| 62.28 | 124.46 | 3.45 | 49.71 | 1.87 | 3.76% | 4.042 | 0.83 | 25.46 | 2.72 | 4.18 | 138 | 0.324 | 0.67 | 1.631 | 0.500 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.913 | 0.000 | | |
| 62.35 | 123.58 | 3.45 | 54.21 | 1.61 | 2.97% | 3.172 | 0.79 | 27.97 | 2.62 | 3.44 | 114 | 0.216 | 0.67 | 1.633 | 0.501 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.913 | 0.000 | | |
| 62.44 | 122.62 | 3.45 | 51.86 | 1.43 | 2.76% | 2.954 | 0.79 | 26.72 | 2.61 | 3.41 | 113 | 0.212 | 0.67 | 1.636 | 0.501 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.913 | 0.000 | | |
| 62.49 | 123.54 | 3.45 | 54.40 | 1.60 | 2.94% | 3.140 | 0.79 | 28.14 | 2.61 | 3.41 | 113 | 0.213 | 0.67 | 1.638 | 0.501 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.913 | 0.000 | | |
| 62.54 | 124.34 | 3.45 | 54.89 | 1.78 | 3.24% | 3.460 | 0.80 | 28.44 | 2.64 | 3.58 | 118 | 0.233 | 0.67 | 1.639 | 0.501 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.913 | 0.000 | | |
| 62.61 | 124.56 | 3.45 | 54.60 | 1.83 | 3.35% | 3.578 | 0.80 | 28.31 | 2.65 | 3.66 | 121 | 0.243 | 0.67 | 1.641 | 0.501 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.913 | 0.000 | | |
| 62.71 | 123.95 | 3.45 | 51.67 | 1.72 | 3.33% | 3.567 | 0.81 | 26.74 | 2.67 | 3.78 | 125 | 0.261 | 0.67 | 1.645 | 0.502 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.913 | 0.000 | | |
| 62.75 | 121.95 | 3.45 | 54.21 | 1.29 | 2.38% | 2.541 | 0.77 | 28.17 | 2.55 | 3.04 | 100 | 0.174 | 0.67 | 1.646 | 0.502 | | 0.35 | 0.48 | <= | 2.302 | 0.011 | 0.000 | 0.913 | 0.000 | 62.71 | 62.75 |
| 62.80 | 120.03 | 3.45 | 59.38 | 0.96 | 1.62% | 1.716 | 0.73 | 31.06 | 2.40 | 2.33 | 84 | 0.135 | 0.67 | 1.647 | 0.502 | | 0.27 | 0.37 | <= | 2.659 | 0.016 | 0.000 | 0.902 | 0.000 | 62.75 | 62.80 |
| 62.89 | 122.36 | 3.45 | 84.19 | 1.18 | 1.40% | 1.461 | 0.68 | 44.91 | 2.22 | 1.73 | 93 | 0.154 | 0.66 | 1.650 | 0.502 | | 0.31 | 0.42 | <= | 2.452 | 0.026 | 0.000 | 0.886 | 0.000 | 62.80 | 62.89 |
| 62.96 | 123.83 | 3.45 | 102.75 | 1.35 | 1.31% | 1.359 | 0.65 | 55.30 | 2.13 | 1.51 | 101 | 0.177 | 0.66 | 1.652 | 0.502 | | 0.35 | 0.48 | <= | 2.284 | 0.019 | 0.000 | 0.859 | 0.000 | 62.89 | 62.96 |
| 63.02 | 124.83 | 3.45 | 115.54 | 1.48 | 1.28% | 1.320 | 0.63 | 62.49 | 2.08 | 1.42 | 108 | 0.198 | 0.66 | 1.654 | 0.502 | | 0.39 | 0.54 | <= | 2.166 | 0.016 | 0.000 | 0.840 | 0.000 | 62.96 | 63.02 |
| 63.06 | 124.95 | 3.45 | 104.70 | 1.56 | 1.49% | 1.541 | 0.66 | 56.48 | 2.16 | 1.57 | 107 | 0.194 | 0.66 | 1.655 | 0.502 | | 0.39 | 0.53 | <= | 2.183 | 0.010 | 0.000 | 0.824 | 0.000 | 63.02 | 63.06 |
| 63.14 | 125.90 | 3.45 | 120.62 | 1.69 | 1.40% | 1.442 | 0.63 | 65.46 | 2.09 | 1.43 | 114 | 0.219 | 0.66 | 1.658 | 0.503 | | 0.44 | 0.60 | <= | 2.069 | 0.020 | 0.000 | 0.814 | 0.000 | 63.06 | 63.14 |
| 63.20 | 126.40 | 3.45 | 121.50 | 1.81 | 1.49% | 1.533 | 0.64 | 66.02 | 2.10 | 1.46 | 117 | 0.230 | 0.66 | 1.660 | 0.503 | | 0.46 | 0.63 | <= | 2.027 | 0.015 | 0.000 | 0.794 | 0.000 | 63.14 | 63.20 |
| 63.26 | 127.00 | 3.45 | 119.25 | 1.98 | 1.66% | 1.710 | 0.65 | 64.83 | 2.14 | 1.54 | 121 | 0.243 | 0.66 | 1.662 | 0.503 | | 0.48 | 0.66 | <= | 1.984 | 0.014 | 0.000 | 0.779 | 0.000 | 63.20 | 63.26 |
| 63.33 | 127.69 | 3.45 | 113.69 | 2.21 | 1.94% | 2.005 | 0.67 | 61.79 | 2.21 | 1.69 | 125 | 0.261 | 0.66 | 1.664 | 0.503 | | 0.52 | 0.71 | <= | 1.929 | 0.016 | 0.000 | 0.765 | 0.000 | 63.26 | 63.33 |
| 63.40 | 128.32 | 3.45 | 100.01 | 2.51 | 2.51% | 2.599 | 0.71 | 54.19 | 2.34 | 2.07 | 131 | 0.290 | 0.66 | 1.666 | 0.503 | | 0.58 | 0.79 | <= | 1.854 | 0.016 | 0.000 | 0.749 | 0.000 | 63.33 | 63.40 |
| 63.46 | 128.28 | 3.45 | 87.32 | 2.61 | 2.99% | 3.112 | 0.74 | 47.12 | 2.44 | 2.48 | 134 | 0.305 | 0.66 | 1.668 | 0.504 | | 0.61 | 0.83 | <= | 1.818 | 0.013 | 0.000 | 0.733 | 0.000 | 63.40 | 63.46 |
| 63.55 | 127.47 | 3.45 | 66.12 | 2.56 | 3.87% | 4.085 | 0.79 | 35.26 | 2.62 | 3.46 | 136 | 0.314 | 0.66 | 1.671 | 0.504 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.720 | 0.000 | | |
| 63.60 | 126.74 | 3.45 | 55.87 | 2.45 | 4.39% | 4.674 | 0.82 | 29.52 | 2.72 | 4.16 | 137 | 0.320 | 0.66 | 1.672 | 0.504 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.720 | 0.000 | | |
| 63.69 | 125.66 | 3.45 | 44.34 | 2.29 | 5.16% | 5.600 | 0.87 | 23.06 | 2.86 | 5.32 | 176 | 0.584 | 0.66 | 1.675 | 0.504 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.720 | 0.000 | | |
| 63.74 | 125.19 | 3.45 | 39.56 | 2.23 | 5.64% | 6.175 | 0.89 | 20.39 | 2.93 | 6.02 | 199 | 0.810 | 0.66 | 1.677 | 0.504 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.720 | 0.000 | | |
| 63.82 | 124.34 | 3.45 | 35.36 | 2.06 | 5.83% | 6.455 | 0.90 | 18.04 | 2.99 | 6.60 | 218 | 1.042 | 0.66 | 1.679 | 0.505 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.720 | 0.000 | | |
| 63.87 | 124.44 | 3.45 | 38.97 | 2.02 | 5.18% | 5.687 | 0.88 | 20.10 | 2.91 | 5.81 | 192 | 0.737 | 0.66 | 1.681 | 0.505 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.720 | 0.000 | | |
| 63.92 | 124.22 | 3.45 | 33.99 | 2.05 | 6.03% | 6.712 | 0.91 | 17.30 | 3.01 | 6.90 | 228 | 1.176 | 0.66 | 1.682 | 0.505 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.720 | 0.000 | | |
| 63.98 | 124.82 | 3.45 | 38.38 | 2.13 | 5.55% | 6.098 | 0.89 | 19.80 | 2.94 | 6.08 | 201 | 0.833 | 0.66 | 1.684 | 0.505 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.720 | 0.000 | | |
| 64.05 | 125.59 | 3.45 | 43.76 | 2.27 | 5.19% | 5.631 | 0.87 | 22.88 | 2.87 | 5.37 | 177 | 0.597 | 0.66 | 1.686 | 0.505 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.720 | 0.000 | | |
| 64.13 | 127.40 | 3.45 | 65.15 | 2.54 | 3.90% | 4.117 | 0.80 | 35.07 | 2.63 | 3.49 | 136 | 0.315 | 0.65 | 1.689 | 0.505 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.720 | 0.000 | | |
| 64.18 | 128.14 | 3.45 | 76.08 | 2.67 | 3.51% | 3.676 | 0.77 | 41.32 | 2.54 | 2.96 | 138 | 0.324 | 0.65 | 1.690 | 0.505 | | 0.64 | 0.88 | <= | 1.779 | 0.011 | 0.000 | 0.720 | 0.000 | 64.13 | 64.18 |
| 64.24 | 129.49 | 3.45 | 99.43 | 2.95 | 2.97% | 3.073 | 0.72 | 54.67 | 2.39 | 2.26 | 143 | 0.352 | 0.65 | 1.692 | 0.506 | | 0.70 | 0.96 | <= | 0.793 | 0.006 | 0.000 | 0.710 | 0.000 | 64.18 | 64.24 |
| 64.32 | 130.60 | 3.45 | 125.90 | 3.17 | 2.52% | 2.589 | 0.68 | 69.84 | 2.25 | 1.81 | 149 | 0.389 | 0.65 | 1.695 | 0.506 | | 0.77 | 1.06 | <= | 0.528 | 0.005 | 0.000 | 0.704 | 0.000 | 64.24 | 64.32 |
| 64.40 | 130.91 | 3.45 | 145.43 | 3.16 | 2.17% | 2.226 | 0.66 | 81.10 | 2.16 | 1.57 | 152 | 0.409 | 0.65 | 1.697 | 0.506 | | 0.81 | 1.11 | <= | 0.311 | 0.003 | 0.000 | 0.699 | 0.000 | 64.32 | 64.40 |
| 64.45 | 130.87 | 3.45 | 153.05 | 3.08 | 2.01% | 2.059 | 0.64 | 85.52 | 2.12 | 1.48 | 153 | 0.412 | 0.65 | 1.699 | 0.506 | | 0.81 | 1.12 | <= | 0.320 | 0.002 | 0.000 | 0.696 | 0.000 | 64.40 | 64.45 |
| 64.54 | 130.39 | 3.45 | 158.13 | 2.86 | 1.81% | 1.849 | 0.63 | 88.57 | 2.07 | 1.40 | 151 | 0.397 | 0.65 | 1.702 | 0.506 | | 0.78 | 1.08 | <= | 0.564 | 0.006 | 0.000 | 0.694 | 0.000 | 64.45 | 64.54 |
| 64.58 | 130.89 | 3.45 | 158.52 | 3.06 | 1.93% | 1.973 | 0.63 | 88.86 | 2.09 | 1.44 | 154 | 0.421 | 0.65 | 1.703 | 0.507 | | 0.83 | 1.14 | <= | 0.347 | 0.002 | 0.000 | 0.688 | 0.000 | 64.54 | 64.58 |
| 64.66 | 132.01 | 3.45 | 156.56 | 3.58 | 2.29% | 2.338 | 0.65 | 87.86 | 2.15 | 1.55 | 163 | 0.484 | 0.65 | 1.705 | 0.507 | | 0.96 | 1.31 | | 0.000 | 0.000 | 0.000 | 0.686 | 0.000 | | |
| 64.70 | 132.41 | 3.45 | 161.55 | 3.74 | 2.32% | 2.366 | 0.65 | 90.79 | 2.14 | 1.54 | 167 | 0.516 | 0.65 | 1.707 | 0.507 | | 1.02 | 1.40 | | 0.000 | 0.000 | 0.000 | 0.686 | 0.000 | | |
| 64.80 | 132.99 | 3.45 | 169.65 | 3.98 | 2.35% | 2.395 | 0.65 | 95.61 | 2.13 | 1.52 | 174 | 0.568 | 0.65 | 1.710 | 0.507 | | 1.12 | 1.54 | | 0.000 | 0.000 | 0.000 | 0.686 | 0.000 | | |
| 64.84 | 131.94 | 3.45 | 174.83 | 3.42 | 1.96% | 1.996 | 0.63 | 98.66 | 2.06 | 1.39 | 166 | 0.505 | 0.65 | 1.711 | 0.507 | | 1.00 | 1.37 | | 0.000 | 0.000 | 0.000 | 0.686 | 0.000 | | |
| 64.93 | 130.05 | 3.45 | 177.66 | 2.62 | 1.47% | 1.504 | 0.60 | 100.45 | 1.96 | 1.25 | 155 | 0.425 | 0.65 | 1.714 | 0.508 | | 0.84 | 1.15 | <= | 0.358 | 0.004 | 0.000 | 0.686 | 0.000 | 64.84 | 64.93 |
| 64.98 | 130.21 | 3.45 | 169.85 | 2.72 | 1.60% | 1.635 | 0.61 | 96.04 | 2.00 | 1.31 | 153 | 0.414 | 0.65 | 1.715 | 0.508 | | 0.81 | 1.12 | <= | 0.322 | 0.002 | 0.000 | 0.682 | 0.000 | 64.93 | 64.98 |
| 65.03 | 130.29 | 3.45 | 153.15 | 2.85 | 1.86% | 1.904 | 0.63 | 86.48 | 2.09 | 1.43 | 149 | 0.389 | 0.65 | 1.717 | 0.508 | | 0.77 | 1.05 | <= | 0.524 | 0.003 | 0.000 | 0.680 | 0.000 | 64.98 | 65.03 |
| 65.10 | 130.30 | 3.45 | 136.44 | 2.96 | 2.17% | 2.226 | 0.66 | 76.92 | 2.18 | 1.61 | 147 | 0.376 | 0.65 | 1.719 | 0.508 | | 0.74 | 1.02 | <= | 0.463 | 0.004 | 0.000 | 0.677 | 0.000 | 65.03 | 65.10 |
| 65.16 | 130.04 | 3.45 | 123.75 | 2.96 | 2.39% | 2.460 | 0.68 | 69.66 | 2.24 | 1.77 | 145 | 0.364 | 0.65 | 1.721 | 0.508 | | 0.72 | 0.99 | <= | 0.851 | 0.006 | 0.000 | 0.673 | 0.000 | 65.10 | 65.16 |
| 65.24 | 130.05 | 3.45 | 131.76 | 2.90 | 2.20% | 2.260 | 0.67 | 74.40 | 2.19 | 1.65 | 145 | 0.364 | 0.65 | 1.723 | 0.508 | | 0.72 | 0.99 | <= | 0.850 | 0.008 | 0.000 | 0.667 | 0.000 | 65.16 | 65.24 |
| 65.30 | 130.22 | 3.45 | 140.94 | 2.90 | 2.06% | 2.109 | 0.65 | 79.81 | 2.15 | 1.55 | 147 | 0.376 | 0.65 | 1.725 | 0.509 | | 0.74 | 1.02 | <= | 0.461 | 0.003 | 0.000 | 0.659 | 0.000 | 65.24 | 65.30 |
| 65.36 | 130.47 | 3.45 | 154.42 | 2.91 | 1.88% | 1.928 | 0.63 | 87.73 | 2.09 | 1.43 | 151 | 0.401 | 0.64 | 1.727 | 0.509 | | 0.79 | 1.08 | <= | 0.572 | 0.004 | 0.000 | 0.656 | 0.000 | 65.30 | 65.36 |
| 65.43 | 130.72 | 3.45 | 180.59 | 2.86 | 1.58% | 1.615 | 0.60 | 103.07 | 1.98 | 1.27 | 160 | 0.463 | 0.64 | 1.729 | 0.509 | | 0.91 | 1.25 | <= | 0.248 | 0.002 | 0.000 | 0.652 | 0.000 | 65.36 | 65.43 |
| 65.50 | 130.63 | 3.45 | 200.61 | 2.73 | 1.36% | 1.385 | 0.58 | 114.86 | 1.89 | 1.18 | 168 | 0.522 | 0.64 | 1.732 | 0.509 | | 1.03 | 1.41 | | 0.000 | 0.000 | 0.000 | 0.649 | 0.000 | | |
| 65.59 | 130.11 | 3.45 | 211.65 | 2.50 | 1.18% | 1.201 | 0.56 | 121.50 | 1.83 | 1.13 | 171 | 0.547 | 0.64 | 1.734 | 0.509 | | 1.07 | 1.48 | | 0.000 | 0.000 | 0.000 | 0.649 | 0.000 | | |
| 65.62 | 129.79 | 3.45 | 215.36 | 2.38 | 1.11% | 1.123 | 0.55 | 123.73 | 1.80 | 1.11 | 172 | 0.552 | 0.64 | 1.735 | 0.509 | | 1.08 | 1.49 | | 0.000 | 0.000 | 0.000 | 0.649 | 0.000 | | |
| 65.69 | 129.15 | 3.45 | 219.17 | 2.17 | 0.99% | 1.006 | 0.54 | 126.11 | 1.76 | 1.08 | 172 | 0.549 | 0.64 | 1.738 | 0.510 | | 1.08 | 1.48 | | 0.000 | 0.000 | 0.000 | 0.649 | 0.000 | | |
| 65.75 | 128.74 | 3.45 | 225.03 | 2.03 | 0.90% | 0.916 | 0.53 | 129.68 | 1.72 | 1.05 | 173 | 0.562 | 0.64 | 1.739 | 0.510 | | 1.10 | 1.52 | | 0.000 | 0.000 | 0.000 | 0.649 | 0.000 | | |
| 65.82 | 128.47 | 3.45 | 224.74 | 1.96 | 0.87% | 0.886 | 0.52 | 129.68 | 1.71 | 1.05 | 172 | 0.553 | 0.64 | 1.742 | 0.510 | | 1.08 | 1.49 | | 0.000 | 0.000 | 0.000 | 0.649 | 0.000 | | |
| 65.91 | 128.34 | 3.45 | 217.02 | 1.95 | 0.90% | 0.913 | 0.53 | 125.36 | 1.73 | 1.06 | 168 | 0.520 | 0.64 | 1.744 | 0.510 | | 1.02 | 1.40 | | 0.000 | 0.000 | 0.000 | 0.649 | 0.000 | | |
| 65.95 | 128.22 | 3.45 | 210.77 | 1.93 | 0.92% | 0.931 | 0.53 | 121.78 | 1.75 | 1.07 | 164 | 0.492 | 0.64 | 1.746 | 0.510 | | 0.96 | 1.33 | | 0.000 | 0.000 | 0.000 | 0.649 | 0.000 | | |
| 66.04 | 127.89 | 3.45 | 197.58 | 1.89 | 0.96% | 0.974 | 0.54 | 114.22 | 1.79 | 1.10 | 157 | 0.438 | 0.64 | 1.748 | 0.511 | | 0.86 | 1.18 | <= | 0.387 | 0.004 | 0.000 | 0.649 | 0.000 | 65.95 | 66.04 |
| 66.08 | 127.72 | 3.45 | 191.24 | 1.86 | 0.97% | 0.990 | 0.55 | 110.57 | 1.80 | 1.11 | 153 | 0.412 | 0.64 | 1.750 | 0.511 | | 0.81 | 1.11 | <= | 0.310 | 0.001 | 0.000 | 0.645 | 0.000 | 66.04 | 66.08 |
| 66.17 | 127.40 | 3.45 | 181.08 | 1.82 | 1.01% | 1.025 | 0.56 | 104.76 | 1.83 | 1.13 | 147 | 0.375 | 0.64 | 1.753 | 0.511 | | 0.73 | 1.01 | <= | 0.448 | 0.005 | 0.000 | 0.644 | 0.000 | 66.08 | 66.17 |
| 66.21 | 127.24 | 3.45 | 177.56 | 1.79 | 1.01% | 1.028 | 0.56 | 102.76 | 1.84 | 1.14 | 145 | 0.362 | 0.64 | 1.754 | 0.511 | | 0.71 | 0.97 | <= | 0.824 | 0.004 | 0.000 | 0.639 | 0.000 | 66.17 | 66.21 |
| 66.29 | 127.06 | 3.45 | 173.66 | 1.76 | 1.01% | 1.034 | 0.56 | 100.61 | 1.85 | 1.14 | 142 | 0.348 | 0.64 | 1.756 | 0.511 | | 0.68 | 0.94 | <= | 0.737 | 0.007 | 0.000 | 0.635 | 0.000 | 66.21 | 66.29 |
| 66.34 | 127.03 | 3.45 | 173.07 | 1.75 | 1.01% | 1.032 | 0.56 | 100.35 | 1.85 | 1.14 | 142 | 0.346 | 0.64 | 1.758 | 0.512 | | 0.68 | 0.93 | <= | 0.722 | 0.004 | 0.000 | 0.628 | 0.000 | 66.29 | 66.34 |
| 66.42 | 126.91 | 3.45 | 172.58 | 1.73 | 1.00% | 1.023 | 0.56 | 100.21 | 1.85 | 1.14 | 141 | 0.343 | 0.64 | 1.760 | 0.512 | | 0.67 | 0.92 | <= | 0.704 | 0.007 | 0.000 | 0.624 | 0.000 | 66.34 | 66.42 |
| 66.49 | 126.76 | 3.45 | 170.73 | 1.70 | 1.00% | 1.016 | 0.56 | 99.24 | 1.85 | 1.14 | 140 | 0.336 | 0.64 | 1.762 | 0.512 | | 0.66 | 0.90 | <= | 0.652 | 0.005 | 0.000 | 0.617 | 0.000 | 66.42 | 66.49 |
| 66.55 | 126.65 | 3.45 | 166.62 | 1.69 | 1.01% | 1.036 | 0.57 | 96.91 | 1.86 | 1.15 | 138 | 0.324 | 0.63 | 1.764 | 0.512 | | 0.63 | 0.87 | <= | 1.179 | 0.008 | 0.000 | 0.611 | 0.000 | 66.49 | 66.55 |
| 66.62 | 126.63 | 3.45 | 159.88 | 1.70 | 1.06% | 1.087 | 0.58 | 93.03 | 1.89 | 1.18 | 135 | 0.307 | 0.63 | 1.767 | 0.512 | | 0.60 | 0.82 | <= | 1.072 | 0.009 | 0.000 | 0.603 | 0.000 | 66.55 | 66.62 |
| 66.68 | 126.62 | 3.45 | 151.68 | 1.73 | 1.14% | 1.167 | 0.59 | 88.25 | 1.93 | 1.22 | 131 | 0.289 | 0.63 | 1.768 | 0.513 | | 0.56 | 0.78 | <= | 1.744 | 0.013 | 0.000 | 0.594 | 0.000 | 66.62 | 66.68 |
| 66.74 | 126.91 | 3.45 | 142.21 | 1.84 | 1.29% | 1.326 | 0.61 | 82.71 | 1.99 | 1.29 | 129 | 0.278 | 0.63 | 1.770 | 0.513 | | 0.54 | 0.75 | <= | 1.631 | 0.012 | 0.000 | 0.581 | 0.000 | 66.68 | 66.74 |
| 66.83 | 127.60 | 3.45 | 124.92 | 2.11 | 1.69% | 1.737 | 0.64 | 72.52 | 2.12 | 1.49 | 128 | 0.275 | 0.63 | 1.773 | 0.513 | | 0.54 | 0.74 | <= | 1.600 | 0.017 | 0.000 | 0.570 | 0.000 | 66.74 | 66.83 |
| 66.89 | 128.11 | 3.45 | 114.57 | 2.33 | 2.03% | 2.097 | 0.67 | 66.42 | 2.21 | 1.68 | 131 | 0.288 | 0.63 | 1.775 | 0.513 | | 0.56 | 0.77 | <= | 1.857 | 0.013 | 0.000 | 0.552 | 0.000 | 66.83 | 66.89 |
| 66.93 | 128.35 | 3.45 | 101.87 | 2.51 | 2.46% | 2.550 | 0.70 | 58.87 | 2.31 | 1.98 | 134 | 0.305 | 0.63 | 1.776 | 0.513 | | 0.59 | 0.82 | <= | 1.133 | 0.005 | 0.000 | 0.539 | 0.000 | 66.89 | 66.93 |
| 67.02 | 126.57 | 3.45 | 74.52 | 2.18 | 2.93% | 3.067 | 0.75 | 42.58 | 2.47 | 2.63 | 126 | 0.267 | 0.63 | 1.779 | 0.514 | | 0.52 | 0.72 | <= | 1.911 | 0.021 | 0.000 | 0.533 | 0.000 | 66.93 | 67.02 |
| 67.07 | 125.85 | 3.45 | 59.09 | 2.13 | 3.60% | 3.828 | 0.79 | 33.37 | 2.62 | 3.47 | 128 | 0.273 | 0.63 | 1.781 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.16 | 124.83 | 3.45 | 47.86 | 1.99 | 4.16% | 4.481 | 0.83 | 26.68 | 2.75 | 4.34 | 143 | 0.354 | 0.63 | 1.783 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.20 | 124.47 | 3.45 | 43.95 | 1.95 | 4.44% | 4.815 | 0.85 | 24.35 | 2.80 | 4.77 | 157 | 0.443 | 0.63 | 1.785 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.28 | 124.04 | 3.45 | 38.77 | 1.92 | 4.95% | 5.436 | 0.87 | 21.27 | 2.88 | 5.52 | 182 | 0.641 | 0.63 | 1.787 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.35 | 123.85 | 3.45 | 37.11 | 1.89 | 5.09% | 5.615 | 0.88 | 20.29 | 2.91 | 5.77 | 190 | 0.721 | 0.63 | 1.789 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.39 | 123.76 | 3.45 | 37.21 | 1.87 | 5.03% | 5.539 | 0.88 | 20.37 | 2.90 | 5.71 | 189 | 0.704 | 0.63 | 1.791 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.47 | 123.48 | 3.45 | 35.36 | 1.83 | 5.18% | 5.735 | 0.89 | 19.28 | 2.93 | 6.01 | 198 | 0.804 | 0.63 | 1.793 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.53 | 123.24 | 3.45 | 32.82 | 1.81 | 5.51% | 6.162 | 0.90 | 17.77 | 2.98 | 6.53 | 215 | 1.009 | 0.63 | 1.795 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.60 | 123.23 | 3.45 | 32.96 | 1.81 | 5.49% | 6.133 | 0.90 | 17.88 | 2.98 | 6.49 | 214 | 0.993 | 0.63 | 1.797 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.66 | 123.27 | 3.45 | 31.74 | 1.84 | 5.80% | 6.504 | 0.91 | 17.16 | 3.01 | 6.84 | 226 | 1.150 | 0.63 | 1.799 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.75 | 123.42 | 3.45 | 33.11 | 1.85 | 5.59% | 6.237 | 0.90 | 18.02 | 2.98 | 6.52 | 215 | 1.005 | 0.63 | 1.802 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.79 | 123.61 | 3.45 | 33.99 | 1.88 | 5.53% | 6.155 | 0.90 | 18.57 | 2.97 | 6.37 | 210 | 0.942 | 0.62 | 1.803 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.86 | 123.99 | 3.45 | 34.28 | 1.98 | 5.78% | 6.422 | 0.90 | 18.77 | 2.97 | 6.47 | 213 | 0.985 | 0.62 | 1.805 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.92 | 124.18 | 3.45 | 33.79 | 2.04 | 6.04% | 6.723 | 0.91 | 18.49 | 2.99 | 6.68 | 220 | 1.076 | 0.62 | 1.807 | 0.516 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 67.98 | 124.66 | 3.45 | 34.23 | 2.16 | 6.31% | 7.017 | 0.91 | 18.78 | 3.00 | 6.77 | 223 | 1.117 | 0.62 | 1.809 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 68.06 | 125.88 | 3.45 | 34.18 | 2.56 | 7.49% | 8.330 | 0.92 | 18.78 | 3.06 | 7.39 | 244 | 1.431 | 0.62 | 1.811 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 68.12 | 126.71 | 3.45 | 37.41 | 2.78 | 7.43% | 8.186 | 0.91 | 20.78 | 3.02 | 6.95 | 229 | 1.202 | 0.62 | 1.813 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 68.19 | 126.90 | 3.45 | 40.92 | 2.77 | 6.77% | 7.392 | 0.89 | 22.95 | 2.95 | 6.24 | 206 | 0.893 | 0.62 | 1.816 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 68.28 | 126.62 | 3.45 | 44.54 | 2.59 | 5.81% | 6.303 | 0.87 | 25.21 | 2.87 | 5.44 | 179 | 0.617 | 0.62 | 1.818 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 68.31 | 126.56 | 3.45 | 48.05 | 2.51 | 5.22% | 5.628 | 0.85 | 27.38 | 2.81 | 4.87 | 161 | 0.466 | 0.62 | 1.819 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.513 | 0.000 | | |
| 68.39 | 126.57 | 3.45 | 67.00 | 2.25 | 3.36% | 3.540 | 0.77 | 39.08 | 2.55 | 3.02 | 131 | 0.288 | 0.62 | 1.822 | 0.518 | | 0.56 | 0.77 | <= | 1.857 | 0.018 | 0.000 | 0.513 | 0.000 | 68.31 | 68.39 |
| 68.46 | 126.66 | 3.45 | 93.27 | 2.04 | 2.19% | 2.271 | 0.70 | 55.31 | 2.30 | 1.93 | 122 | 0.251 | 0.62 | 1.824 | 0.518 | | 0.48 | 0.67 | <= | 1.959 | 0.016 | 0.000 | 0.495 | 0.000 | 68.39 | 68.46 |
| 68.50 | 126.69 | 3.45 | 109.59 | 1.95 | 1.78% | 1.837 | 0.66 | 65.40 | 2.17 | 1.61 | 122 | 0.250 | 0.62 | 1.825 | 0.518 | | 0.48 | 0.66 | <= | 1.963 | 0.009 | 0.000 | 0.479 | 0.000 | 68.46 | 68.50 |
| 68.59 | 125.19 | 3.45 | 117.11 | 1.55 | 1.32% | 1.364 | 0.63 | 70.16 | 2.06 | 1.39 | 115 | 0.221 | 0.62 | 1.828 | 0.518 | | 0.43 | 0.59 | <= | 2.063 | 0.022 | 0.000 | 0.469 | 0.000 | 68.50 | 68.59 |
| 68.64 | 123.82 | 3.45 | 114.66 | 1.30 | 1.13% | 1.169 | 0.61 | 68.71 | 2.02 | 1.33 | 108 | 0.198 | 0.62 | 1.830 | 0.519 | | 0.38 | 0.53 | <= | 2.162 | 0.013 | 0.000 | 0.447 | 0.000 | 68.59 | 68.64 |
| 68.73 | 123.47 | 3.45 | 108.22 | 1.26 | 1.16% | 1.203 | 0.62 | 64.85 | 2.05 | 1.37 | 105 | 0.188 | 0.62 | 1.832 | 0.519 | | 0.36 | 0.50 | <= | 2.217 | 0.024 | 0.000 | 0.434 | 0.000 | 68.64 | 68.73 |
| 68.77 | 123.78 | 3.45 | 102.55 | 1.34 | 1.31% | 1.352 | 0.64 | 61.38 | 2.10 | 1.46 | 105 | 0.188 | 0.62 | 1.834 | 0.519 | | 0.36 | 0.50 | <= | 2.214 | 0.011 | 0.000 | 0.410 | 0.000 | 68.73 | 68.77 |
| 68.86 | 125.09 | 3.45 | 93.47 | 1.65 | 1.77% | 1.833 | 0.68 | 55.86 | 2.23 | 1.74 | 112 | 0.210 | 0.62 | 1.836 | 0.519 | | 0.40 | 0.56 | <= | 2.109 | 0.023 | 0.000 | 0.399 | 0.000 | 68.77 | 68.86 |
| 68.90 | 125.94 | 3.45 | 87.51 | 1.90 | 2.17% | 2.260 | 0.70 | 52.20 | 2.31 | 1.99 | 119 | 0.235 | 0.62 | 1.838 | 0.519 | | 0.45 | 0.62 | <= | 2.011 | 0.010 | 0.000 | 0.377 | 0.000 | 68.86 | 68.90 |
| 69.00 | 126.80 | 3.45 | 70.71 | 2.29 | 3.24% | 3.405 | 0.76 | 41.85 | 2.51 | 2.84 | 132 | 0.293 | 0.62 | 1.841 | 0.520 | | 0.56 | 0.78 | <= | 1.845 | 0.022 | 0.000 | 0.367 | 0.000 | 68.90 | 69.00 |
| 69.04 | 126.81 | 3.45 | 66.22 | 2.34 | 3.53% | 3.728 | 0.78 | 39.09 | 2.57 | 3.12 | 134 | 0.305 | 0.61 | 1.842 | 0.520 | | 0.59 | 0.81 | <= | 1.818 | 0.009 | 0.000 | 0.345 | 0.000 | 69.00 | 69.04 |
| 69.13 | 126.00 | 3.45 | 57.82 | 2.19 | 3.79% | 4.028 | 0.80 | 33.91 | 2.64 | 3.55 | 131 | 0.291 | 0.61 | 1.845 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.19 | 124.87 | 3.45 | 52.55 | 1.94 | 3.69% | 3.951 | 0.81 | 30.66 | 2.66 | 3.74 | 124 | 0.259 | 0.61 | 1.847 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.23 | 123.99 | 3.45 | 49.62 | 1.75 | 3.53% | 3.790 | 0.81 | 28.86 | 2.67 | 3.79 | 125 | 0.262 | 0.61 | 1.848 | 0.521 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.32 | 121.87 | 3.45 | 39.85 | 1.41 | 3.54% | 3.873 | 0.84 | 22.79 | 2.76 | 4.43 | 146 | 0.371 | 0.61 | 1.851 | 0.521 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.38 | 121.02 | 3.45 | 33.70 | 1.33 | 3.95% | 4.396 | 0.87 | 18.96 | 2.86 | 5.30 | 175 | 0.577 | 0.61 | 1.853 | 0.521 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.45 | 120.32 | 3.45 | 29.11 | 1.27 | 4.36% | 4.949 | 0.89 | 16.11 | 2.95 | 6.19 | 204 | 0.874 | 0.61 | 1.855 | 0.521 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.50 | 119.77 | 3.45 | 26.66 | 1.21 | 4.54% | 5.213 | 0.91 | 14.58 | 3.00 | 6.73 | 222 | 1.098 | 0.61 | 1.856 | 0.521 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.58 | 118.97 | 3.45 | 25.78 | 1.10 | 4.27% | 4.926 | 0.91 | 14.05 | 3.00 | 6.69 | 221 | 1.081 | 0.61 | 1.859 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.64 | 118.36 | 3.45 | 25.59 | 1.01 | 3.95% | 4.561 | 0.90 | 13.95 | 2.98 | 6.48 | 214 | 0.988 | 0.61 | 1.861 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.70 | 117.79 | 3.45 | 25.59 | 0.94 | 3.67% | 4.245 | 0.89 | 13.97 | 2.95 | 6.25 | 206 | 0.898 | 0.61 | 1.863 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.77 | 117.36 | 3.45 | 25.49 | 0.88 | 3.45% | 3.992 | 0.89 | 13.92 | 2.94 | 6.09 | 201 | 0.833 | 0.61 | 1.865 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.83 | 117.32 | 3.45 | 25.20 | 0.88 | 3.49% | 4.046 | 0.89 | 13.76 | 2.95 | 6.17 | 204 | 0.865 | 0.61 | 1.867 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.90 | 117.54 | 3.45 | 25.20 | 0.91 | 3.61% | 4.184 | 0.89 | 13.77 | 2.96 | 6.26 | 207 | 0.901 | 0.61 | 1.869 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 69.96 | 117.63 | 3.45 | 25.20 | 0.92 | 3.65% | 4.230 | 0.90 | 13.79 | 2.96 | 6.29 | 208 | 0.913 | 0.61 | 1.871 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 70.04 | 118.01 | 3.45 | 25.20 | 0.97 | 3.85% | 4.459 | 0.90 | 13.81 | 2.97 | 6.45 | 213 | 0.976 | 0.61 | 1.873 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 70.08 | 118.33 | 3.45 | 26.08 | 1.00 | 3.83% | 4.419 | 0.89 | 14.38 | 2.96 | 6.27 | 207 | 0.903 | 0.61 | 1.874 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 70.17 | 119.32 | 3.45 | 27.05 | 1.13 | 4.18% | 4.788 | 0.90 | 15.03 | 2.96 | 6.35 | 210 | 0.936 | 0.61 | 1.877 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 70.23 | 119.93 | 3.45 | 28.71 | 1.21 | 4.21% | 4.790 | 0.89 | 16.10 | 2.94 | 6.10 | 201 | 0.839 | 0.61 | 1.879 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 70.31 | 120.91 | 3.45 | 30.57 | 1.35 | 4.42% | 4.978 | 0.89 | 17.31 | 2.93 | 5.96 | 197 | 0.789 | 0.60 | 1.882 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 70.36 | 121.54 | 3.45 | 32.62 | 1.44 | 4.41% | 4.936 | 0.88 | 18.64 | 2.90 | 5.69 | 188 | 0.695 | 0.60 | 1.883 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.336 | 0.000 | | |
| 70.43 | 87.42 | 3.45 | 34.77 | 0.00 | 0.00% | 0.003 | 0.75 | 20.04 | 2.48 | 2.66 | 88 | 0.143 | 0.60 | 1.885 | 0.525 | | 0.27 | 0.37 | <= | 2.564 | 0.022 | 0.000 | 0.336 | 0.000 | 70.36 | 70.43 |
| 70.49 | 87.42 | 3.45 | 36.92 | 0.00 | 0.00% | 0.003 | 0.75 | 21.45 | 2.47 | 2.61 | 86 | 0.139 | 0.60 | 1.887 | 0.525 | | 0.27 | 0.37 | <= | 2.603 | 0.019 | 0.000 | 0.314 | 0.000 | 70.43 | 70.49 |
| 70.57 | 87.42 | 3.45 | 38.97 | 0.00 | 0.00% | 0.003 | 0.75 | 22.80 | 2.46 | 2.57 | 85 | 0.137 | 0.60 | 1.890 | 0.525 | | 0.26 | 0.36 | <= | 2.636 | 0.025 | 0.000 | 0.296 | 0.000 | 70.49 | 70.57 |
| 70.62 | 87.42 | 3.45 | 40.44 | 0.00 | 0.00% | 0.003 | 0.74 | 23.76 | 2.45 | 2.54 | 84 | 0.135 | 0.60 | 1.891 | 0.525 | | 0.26 | 0.35 | <= | 2.658 | 0.016 | 0.000 | 0.270 | 0.000 | 70.57 | 70.62 |
| 70.70 | 87.42 | 3.45 | 42.58 | 0.00 | 0.00% | 0.003 | 0.74 | 25.18 | 2.45 | 2.51 | 83 | 0.133 | 0.60 | 1.894 | 0.525 | | 0.25 | 0.35 | <= | 2.687 | 0.026 | 0.000 | 0.254 | 0.000 | 70.62 | 70.70 |
| 70.74 | 87.42 | 3.14 | 43.07 | 0.00 | 0.00% | 0.003 | 0.72 | 32.07 | 2.38 | 2.25 | 76 | 0.120 | 0.60 | 1.895 | 0.597 | | 0.20 | 0.28 | <= | 2.887 | 0.229 | 0.000 | 0.229 | 0.000 | 70.08 | 70.74 |

| | | | |
|---|---|---|---|
| **Total Wet Seismic Settlement (in)** | *5.51* | **Total Wet Seismic Settlement within 50' Depth (in)** | *3.54* |
| **Total Dry Seismic Settlement (in)** | *0.50* | **Total Post-Grading Dry Seismic Settlement (in) *** | *0.00* |

* Upon implementation of remedial grading recommended in Section 6.2.3 of the Soils Report.


(a) FOS Against Liquefaction vs. Depth at CPT-4
FOS Against Liquefaction
0.0
0.5
1.0
1.3
1.5
2.0
2.5
3.0
Depth (ft)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
"Dry" Seismic Settlement
HHGWL @ 10'
Liquefaction-Prone w/ "Wet" Seismic Settlement
Denote current ground condition
Denote post-ground modification condition
* Soil strata that are below GWL & w/ FOS < 1.3 are classified as liquefaction-prone (SP117A).


(b) Seismic Settlement vs. Depth at CPT-4
Seismic Settlement (in)
0.0
1.0
2.0
3.0
4.0
5.0
6.0
Depth (ft)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
HHGWL @ 10'
Wet Seismic Settlement
Accu. Wet Seimsic Settlement
Dry Seismic Settlement
Accu. Dry Seismic Settlement
PostGM_AccuWetSeismicSettlement
PostGM_AccuDrySeismicSettlement

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-5

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**Analysis Scenario:** MCE (2% exceedance probability in 50 years)

D(ft) 1 **MAGNITUDE:** 6.62 **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | | | | | | | | | | | | | | | | | 5.246 | 0.933 | | |
| 0.07 | 105.62 | 0.00 | 9.96 | 0.24 | 2.41% | 2.411 | 0.59 | 2693.29 | 1.92 | 1.21 | 242 | 1.403 | 1.00 | 0.000 | 0.394 | | 3.56 | **4.90** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.16 | 107.59 | 0.01 | 14.35 | 0.28 | 1.95% | 1.952 | 0.57 | 1679.67 | 1.89 | 1.18 | 236 | 1.301 | 1.00 | 0.000 | 0.394 | | 3.30 | **4.54** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.21 | 108.52 | 0.01 | 17.86 | 0.30 | 1.68% | 1.681 | 0.56 | 1586.38 | 1.84 | 1.14 | 227 | 1.173 | 1.00 | 0.000 | 0.394 | | 2.98 | **4.10** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.29 | 109.77 | 0.02 | 25.97 | 0.31 | 1.19% | 1.194 | 0.52 | 1659.27 | 1.71 | 1.05 | 210 | 0.936 | 1.00 | 0.000 | 0.394 | | 2.38 | **3.27** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.34 | 110.37 | 0.02 | 31.04 | 0.32 | 1.03% | 1.032 | 0.51 | 1685.84 | 1.66 | 1.01 | 202 | 0.846 | 1.00 | 0.000 | 0.394 | | 2.15 | **2.96** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.42 | 110.47 | 0.02 | 35.34 | 0.31 | 0.88% | 0.878 | 0.50 | 1547.63 | 1.61 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.394 | | 2.09 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.47 | 110.37 | 0.03 | 36.61 | 0.30 | 0.82% | 0.820 | 0.50 | 1430.23 | 1.59 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.09 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.55 | 109.82 | 0.03 | 36.71 | 0.28 | 0.76% | 0.763 | 0.50 | 1223.80 | 1.60 | 1.00 | 200 | 0.824 | 1.00 | 0.000 | 0.393 | | 2.09 | **2.88** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.61 | 109.56 | 0.03 | 36.22 | 0.27 | 0.75% | 0.746 | 0.50 | 1088.03 | 1.61 | 1.00 | 195 | 0.765 | 1.00 | 0.000 | 0.393 | | 1.95 | **2.68** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.70 | 109.43 | 0.04 | 34.27 | 0.27 | 0.79% | 0.789 | 0.51 | 896.51 | 1.66 | 1.01 | 177 | 0.594 | 1.00 | 0.000 | 0.393 | | 1.51 | **2.08** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.74 | 109.31 | 0.04 | 32.61 | 0.27 | 0.83% | 0.829 | 0.51 | 806.79 | 1.69 | 1.03 | 172 | 0.552 | 1.00 | 0.000 | 0.393 | | 1.40 | **1.93** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.83 | 108.95 | 0.05 | 29.09 | 0.27 | 0.93% | 0.930 | 0.54 | 641.56 | 1.76 | 1.08 | 161 | 0.469 | 1.00 | 0.000 | 0.393 | | 1.19 | **1.64** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.87 | 109.13 | 0.05 | 27.04 | 0.28 | 1.04% | 1.037 | 0.55 | 568.80 | 1.81 | 1.11 | 158 | 0.445 | 1.00 | 0.000 | 0.393 | | 1.13 | **1.56** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.93 | 109.81 | 0.05 | 25.19 | 0.32 | 1.27% | 1.273 | 0.57 | 495.36 | 1.88 | 1.17 | 160 | 0.459 | 1.00 | 0.000 | 0.393 | | 1.17 | **1.61** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 0.99 | 111.38 | 0.05 | 24.11 | 0.40 | 1.66% | 1.663 | 0.60 | 444.73 | 1.97 | 1.26 | 171 | 0.542 | 1.00 | 0.000 | 0.393 | | 1.38 | **1.90** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.06 | 114.08 | 0.06 | 23.82 | 0.58 | 2.43% | 2.441 | 0.63 | 409.10 | 2.08 | 1.42 | 201 | 0.833 | 1.00 | 0.000 | 0.393 | | 2.12 | **2.92** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.14 | 114.50 | 0.06 | 25.58 | 0.60 | 2.35% | 2.351 | 0.63 | 407.21 | 2.06 | 1.39 | 199 | 0.816 | 1.00 | 0.000 | 0.393 | | 2.08 | **2.86** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.19 | 114.77 | 0.07 | 28.80 | 0.60 | 2.08% | 2.088 | 0.61 | 438.48 | 2.01 | 1.32 | 197 | 0.792 | 1.00 | 0.000 | 0.393 | | 2.02 | **2.78** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.26 | 115.55 | 0.07 | 33.58 | 0.63 | 1.88% | 1.880 | 0.59 | 481.63 | 1.96 | 1.25 | 201 | 0.834 | 1.00 | 0.000 | 0.393 | | 2.12 | **2.92** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.32 | 116.48 | 0.07 | 37.78 | 0.69 | 1.83% | 1.830 | 0.59 | 516.03 | 1.93 | 1.22 | 210 | 0.937 | 1.00 | 0.000 | 0.393 | | 2.39 | **3.28** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.41 | 118.12 | 0.08 | 37.98 | 0.86 | 2.26% | 2.269 | 0.61 | 483.52 | 2.00 | 1.30 | 227 | 1.168 | 1.00 | 0.000 | 0.393 | | 2.97 | **4.09** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.45 | 118.97 | 0.08 | 37.49 | 0.97 | 2.59% | 2.593 | 0.62 | 463.18 | 2.04 | 1.36 | 239 | 1.347 | 1.00 | 0.000 | 0.393 | | 3.43 | **4.72** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.53 | 120.05 | 0.09 | 33.87 | 1.16 | 3.42% | 3.434 | 0.65 | 394.83 | 2.15 | 1.56 | 260 | 1.717 | 1.00 | 0.000 | 0.392 | | 4.38 | **6.02** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.58 | 120.46 | 0.09 | 37.00 | 1.19 | 3.22% | 3.224 | 0.64 | 416.70 | 2.12 | 1.50 | 260 | 1.707 | 1.00 | 0.000 | 0.392 | | 4.35 | **5.99** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.65 | 120.55 | 0.09 | 41.59 | 1.16 | 2.79% | 2.795 | 0.63 | 447.17 | 2.06 | 1.39 | 251 | 1.558 | 1.00 | 0.000 | 0.392 | | 3.97 | **5.46** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.72 | 120.40 | 0.10 | 46.08 | 1.10 | 2.39% | 2.392 | 0.61 | 473.99 | 2.00 | 1.30 | 242 | 1.405 | 1.00 | 0.000 | 0.392 | | 3.58 | **4.93** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.81 | 120.42 | 0.10 | 44.13 | 1.12 | 2.54% | 2.544 | 0.62 | 429.82 | 2.03 | 1.35 | 239 | 1.344 | 1.00 | 0.000 | 0.392 | | 3.43 | **4.71** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.85 | 120.28 | 0.10 | 42.47 | 1.11 | 2.61% | 2.620 | 0.62 | 404.10 | 2.05 | 1.38 | 235 | 1.284 | 1.00 | 0.000 | 0.392 | | 3.27 | **4.50** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.94 | 119.68 | 0.11 | 40.12 | 1.05 | 2.62% | 2.624 | 0.63 | 362.99 | 2.07 | 1.41 | 223 | 1.112 | 1.00 | 0.000 | 0.392 | | 2.84 | **3.90** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 1.99 | 119.32 | 0.11 | 39.34 | 1.00 | 2.54% | 2.549 | 0.63 | 346.51 | 2.07 | 1.41 | 215 | 1.004 | 1.00 | 0.000 | 0.392 | | 2.56 | **3.52** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.06 | 118.89 | 0.12 | 39.54 | 0.94 | 2.38% | 2.384 | 0.63 | 335.89 | 2.06 | 1.38 | 205 | 0.887 | 1.00 | 0.000 | 0.392 | | 2.26 | **3.11** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.12 | 118.65 | 0.12 | 39.63 | 0.91 | 2.30% | 2.303 | 0.62 | 326.72 | 2.05 | 1.38 | 200 | 0.824 | 0.99 | 0.000 | 0.392 | | 2.10 | **2.89** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.17 | 118.40 | 0.12 | 38.85 | 0.89 | 2.29% | 2.298 | 0.63 | 312.59 | 2.06 | 1.39 | 196 | 0.777 | 0.99 | 0.000 | 0.392 | | 1.98 | **2.73** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.25 | 118.16 | 0.13 | 36.80 | 0.87 | 2.36% | 2.372 | 0.63 | 285.13 | 2.09 | 1.43 | 190 | 0.721 | 0.99 | 0.000 | 0.392 | | 1.84 | **2.53** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.30 | 118.12 | 0.13 | 33.97 | 0.89 | 2.62% | 2.630 | 0.65 | 257.20 | 2.14 | 1.53 | 191 | 0.727 | 0.99 | 0.000 | 0.392 | | 1.86 | **2.55** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.39 | 118.34 | 0.14 | 30.17 | 0.96 | 3.18% | 3.196 | 0.68 | 219.39 | 2.23 | 1.74 | 199 | 0.809 | 0.99 | 0.000 | 0.392 | | 2.06 | **2.84** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.43 | 118.83 | 0.14 | 30.85 | 1.02 | 3.31% | 3.321 | 0.68 | 220.52 | 2.24 | 1.77 | 204 | 0.875 | 0.99 | 0.000 | 0.392 | | 2.23 | **3.07** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.52 | 119.76 | 0.14 | 35.24 | 1.10 | 3.12% | 3.134 | 0.67 | 242.61 | 2.20 | 1.66 | 208 | 0.922 | 0.99 | 0.000 | 0.392 | | 2.36 | **3.24** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.57 | 119.70 | 0.15 | 34.66 | 1.10 | 3.17% | 3.187 | 0.67 | 233.75 | 2.21 | 1.69 | 207 | 0.908 | 0.99 | 0.000 | 0.392 | | 2.32 | **3.19** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.66 | 118.91 | 0.15 | 29.77 | 1.04 | 3.49% | 3.511 | 0.69 | 193.57 | 2.28 | 1.88 | 202 | 0.842 | 0.99 | 0.000 | 0.391 | | 2.15 | **2.96** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.70 | 118.54 | 0.16 | 27.33 | 1.02 | 3.73% | 3.754 | 0.70 | 174.90 | 2.32 | 2.02 | 201 | 0.835 | 0.99 | 0.000 | 0.391 | | 2.13 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.79 | 116.86 | 0.16 | 22.94 | 0.86 | 3.75% | 3.775 | 0.72 | 141.81 | 2.37 | 2.20 | 184 | 0.662 | 0.99 | 0.000 | 0.391 | | 1.69 | **2.33** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.83 | 116.38 | 0.16 | 21.87 | 0.82 | 3.75% | 3.778 | 0.72 | 133.21 | 2.39 | 2.25 | 180 | 0.620 | 0.99 | 0.000 | 0.391 | | 1.58 | **2.18** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.90 | 115.48 | 0.17 | 21.18 | 0.73 | 3.45% | 3.474 | 0.72 | 125.83 | 2.37 | 2.21 | 167 | 0.511 | 0.99 | 0.000 | 0.391 | | 1.31 | **1.80** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 2.97 | 115.21 | 0.17 | 22.55 | 0.69 | 3.06% | 3.083 | 0.71 | 130.85 | 2.33 | 2.05 | 158 | 0.445 | 0.99 | 0.000 | 0.391 | | 1.14 | **1.57** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 3.05 | 115.01 | 0.18 | 22.55 | 0.67 | 2.97% | 2.994 | 0.71 | 127.39 | 2.33 | 2.04 | 154 | 0.418 | 0.99 | 0.000 | 0.391 | | 1.07 | **1.47** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 3.10 | 114.96 | 0.18 | 22.65 | 0.66 | 2.91% | 2.937 | 0.70 | 125.89 | 2.32 | 2.02 | 152 | 0.403 | 0.99 | 0.000 | 0.391 | | 1.03 | **1.42** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 3.17 | 114.92 | 0.18 | 22.55 | 0.66 | 2.93% | 2.951 | 0.71 | 122.54 | 2.33 | 2.05 | 151 | 0.398 | 0.99 | 0.000 | 0.391 | | 1.02 | **1.40** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 3.24 | 114.63 | 0.19 | 21.18 | 0.65 | 3.07% | 3.096 | 0.72 | 112.54 | 2.36 | 2.17 | 150 | 0.394 | 0.99 | 0.000 | 0.391 | | 1.01 | **1.39** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 3.31 | 114.25 | 0.19 | 19.82 | 0.63 | 3.18% | 3.209 | 0.73 | 103.02 | 2.39 | 2.29 | 148 | 0.383 | 0.99 | 0.000 | 0.391 | | 0.98 | **1.35** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 3.37 | 114.35 | 0.19 | 18.94 | 0.65 | 3.43% | 3.467 | 0.74 | 96.64 | 2.43 | 2.44 | 152 | 0.405 | 0.99 | 0.000 | 0.391 | | 1.04 | **1.43** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 3.42 | 114.63 | 0.20 | 19.23 | 0.67 | 3.48% | 3.520 | 0.74 | 96.70 | 2.43 | 2.46 | 154 | 0.416 | 0.99 | 0.000 | 0.391 | | 1.07 | **1.47** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 3.51 | 115.30 | 0.20 | 22.06 | 0.70 | 3.17% | 3.202 | 0.72 | 108.20 | 2.38 | 2.22 | 152 | 0.407 | 0.99 | 0.000 | 0.391 | | 1.04 | **1.43** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 3.55 | 115.37 | 0.20 | 22.55 | 0.70 | 3.10% | 3.133 | 0.72 | 109.36 | 2.37 | 2.18 | 151 | 0.399 | 0.99 | 0.000 | 0.391 | | 1.02 | **1.41** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.933 | | |
| 3.64 | 114.32 | 0.21 | 21.09 | 0.62 | 2.94% | 2.969 | 0.72 | 99.68 | 2.37 | 2.21 | 141 | 0.340 | 0.99 | 0.000 | 0.391 | | 0.87 | **1.20** | <= | 0.440 | 0.000 | 0.005 | 5.246 | 0.933 | | |
| 3.68 | 111.96 | 0.21 | 19.33 | 0.47 | 2.43% | 2.458 | 0.71 | 90.30 | 2.35 | 2.12 | 121 | 0.247 | 0.99 | 0.000 | 0.390 | | 0.63 | **0.87** | <= | 1.721 | 0.000 | 0.008 | 5.246 | 0.928 | | |
| 3.74 | 113.45 | 0.22 | 16.99 | 0.59 | 3.47% | 3.517 | 0.75 | 77.98 | 2.48 | 2.69 | 142 | 0.347 | 0.99 | 0.000 | 0.390 | | 0.89 | **1.22** | <= | 0.244 | 0.000 | 0.002 | 5.246 | 0.920 | | |
| 3.82 | 119.56 | 0.22 | 15.81 | 1.40 | 8.86% | 8.980 | 0.84 | 70.90 | 2.78 | 4.58 | 254 | 1.598 | 0.99 | 0.000 | 0.390 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 3.91 | 120.13 | 0.23 | 16.11 | 1.51 | 9.37% | 9.506 | 0.85 | 70.50 | 2.79 | 4.73 | 263 | 1.781 | 0.99 | 0.000 | 0.390 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 3.95 | 119.75 | 0.23 | 13.96 | 1.50 | 10.74% | 10.923 | 0.87 | 60.31 | 2.87 | 5.44 | 269 | 1.891 | 0.99 | 0.000 | 0.390 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.02 | 126.51 | 0.23 | 216.72 | 1.51 | 0.70% | 0.697 | 0.50 | 932.62 | 1.35 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.390 | | 2.11 | **2.91** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.09 | 126.73 | 0.24 | 244.35 | 1.50 | 0.61% | 0.614 | 0.50 | 1031.91 | 1.27 | 1.00 | 200 | 0.824 | 0.99 | 0.000 | 0.390 | | 2.11 | **2.91** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.15 | 125.67 | 0.24 | 128.86 | 1.61 | 1.25% | 1.252 | 0.51 | 535.17 | 1.69 | 1.03 | 206 | 0.888 | 0.99 | 0.000 | 0.390 | | 2.28 | **3.13** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.21 | 126.26 | 0.24 | 121.34 | 1.78 | 1.47% | 1.470 | 0.53 | 496.04 | 1.75 | 1.07 | 214 | 0.997 | 0.99 | 0.000 | 0.390 | | 2.56 | **3.52** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.28 | 125.61 | 0.25 | 125.44 | 1.61 | 1.28% | 1.286 | 0.52 | 503.75 | 1.70 | 1.04 | 208 | 0.919 | 0.99 | 0.000 | 0.390 | | 2.36 | **3.24** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.34 | 125.16 | 0.25 | 119.59 | 1.54 | 1.29% | 1.290 | 0.52 | 473.05 | 1.72 | 1.05 | 210 | 0.943 | 0.99 | 0.000 | 0.390 | | 2.42 | **3.33** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.41 | 124.98 | 0.26 | 112.66 | 1.53 | 1.36% | 1.361 | 0.53 | 437.97 | 1.75 | 1.07 | 215 | 0.999 | 0.99 | 0.000 | 0.390 | | 2.56 | **3.53** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.47 | 124.52 | 0.26 | 106.21 | 1.46 | 1.37% | 1.378 | 0.54 | 406.90 | 1.77 | 1.09 | 217 | 1.035 | 0.99 | 0.000 | 0.390 | | 2.66 | **3.66** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.54 | 123.60 | 0.26 | 88.35 | 1.37 | 1.55% | 1.555 | 0.57 | 332.76 | 1.86 | 1.15 | 211 | 0.956 | 0.99 | 0.000 | 0.390 | | 2.45 | **3.38** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.61 | 123.20 | 0.27 | 78.98 | 1.35 | 1.71% | 1.715 | 0.58 | 292.58 | 1.92 | 1.21 | 201 | 0.831 | 0.99 | 0.000 | 0.390 | | 2.13 | **2.94** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.70 | 122.09 | 0.27 | 66.58 | 1.23 | 1.85% | 1.855 | 0.60 | 241.54 | 1.99 | 1.28 | 183 | 0.649 | 0.99 | 0.000 | 0.390 | | 1.67 | **2.29** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.75 | 119.64 | 0.28 | 59.35 | 0.91 | 1.53% | 1.540 | 0.60 | 212.87 | 1.97 | 1.26 | 157 | 0.443 | 0.99 | 0.000 | 0.389 | | 1.14 | **1.56** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.918 | | |
| 4.82 | 116.95 | 0.28 | 50.47 | 0.67 | 1.33% | 1.335 | 0.60 | 178.23 | 1.97 | 1.27 | 134 | 0.305 | 0.99 | 0.000 | 0.389 | | 0.78 | **1.08** | <= | 0.619 | 0.000 | 0.005 | 5.246 | 0.918 | | |
| 4.88 | 117.50 | 0.29 | 45.78 | 0.74 | 1.62% | 1.627 | 0.63 | 159.56 | 2.06 | 1.38 | 136 | 0.313 | 0.99 | 0.000 | 0.389 | | 0.80 | **1.11** | <= | 0.330 | 0.000 | 0.002 | 5.246 | 0.913 | | |
| 4.96 | 118.26 | 0.29 | 37.78 | 0.88 | 2.33% | 2.347 | 0.67 | 129.34 | 2.21 | 1.70 | 145 | 0.362 | 0.99 | 0.000 | 0.389 | | 0.93 | **1.28** | <= | 0.291 | 0.000 | 0.003 | 5.246 | 0.910 | | |
| 5.01 | 118.74 | 0.29 | 35.92 | 0.95 | 2.64% | 2.667 | 0.69 | 121.67 | 2.27 | 1.84 | 151 | 0.400 | 0.99 | 0.000 | 0.389 | | 1.03 | **1.41** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.05 | 119.23 | 0.30 | 35.92 | 1.02 | 2.84% | 2.863 | 0.69 | 120.68 | 2.29 | 1.91 | 157 | 0.438 | 0.99 | 0.000 | 0.389 | | 1.13 | **1.55** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.14 | 119.87 | 0.30 | 34.46 | 1.13 | 3.28% | 3.308 | 0.71 | 113.64 | 2.34 | 2.10 | 166 | 0.509 | 0.99 | 0.000 | 0.389 | | 1.31 | **1.80** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.19 | 120.17 | 0.30 | 34.66 | 1.17 | 3.38% | 3.405 | 0.71 | 113.16 | 2.35 | 2.13 | 169 | 0.531 | 0.99 | 0.000 | 0.389 | | 1.36 | **1.88** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.27 | 120.57 | 0.31 | 36.90 | 1.21 | 3.28% | 3.307 | 0.71 | 118.64 | 2.33 | 2.05 | 170 | 0.539 | 0.99 | 0.000 | 0.389 | | 1.39 | **1.91** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.32 | 120.77 | 0.31 | 39.15 | 1.22 | 3.12% | 3.141 | 0.70 | 124.70 | 2.30 | 1.95 | 169 | 0.531 | 0.99 | 0.000 | 0.389 | | 1.37 | **1.88** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.39 | 120.99 | 0.32 | 43.25 | 1.22 | 2.82% | 2.842 | 0.68 | 136.00 | 2.25 | 1.79 | 167 | 0.513 | 0.99 | 0.000 | 0.389 | | 1.32 | **1.81** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.46 | 121.19 | 0.32 | 47.83 | 1.21 | 2.53% | 2.547 | 0.67 | 148.50 | 2.19 | 1.65 | 165 | 0.497 | 0.99 | 0.000 | 0.389 | | 1.28 | **1.76** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.52 | 121.24 | 0.32 | 53.11 | 1.18 | 2.22% | 2.235 | 0.65 | 163.14 | 2.13 | 1.51 | 163 | 0.481 | 0.99 | 0.000 | 0.389 | | 1.24 | **1.70** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.59 | 121.38 | 0.33 | 57.99 | 1.17 | 2.02% | 2.029 | 0.63 | 175.90 | 2.08 | 1.42 | 163 | 0.482 | 0.99 | 0.000 | 0.389 | | 1.24 | **1.71** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.67 | 121.50 | 0.33 | 60.82 | 1.17 | 1.92% | 1.934 | 0.62 | 181.82 | 2.05 | 1.38 | 163 | 0.484 | 0.99 | 0.000 | 0.389 | | 1.25 | **1.71** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.72 | 121.62 | 0.34 | 61.31 | 1.18 | 1.92% | 1.935 | 0.62 | 181.63 | 2.05 | 1.38 | 163 | 0.486 | 0.99 | 0.000 | 0.389 | | 1.25 | **1.72** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.79 | 121.94 | 0.34 | 60.82 | 1.24 | 2.04% | 2.050 | 0.63 | 177.89 | 2.07 | 1.41 | 166 | 0.506 | 0.99 | 0.000 | 0.388 | | 1.30 | **1.79** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.86 | 122.47 | 0.34 | 59.55 | 1.34 | 2.25% | 2.263 | 0.64 | 171.98 | 2.11 | 1.48 | 171 | 0.543 | 0.99 | 0.000 | 0.388 | | 1.40 | **1.92** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.94 | 123.03 | 0.35 | 56.82 | 1.47 | 2.59% | 2.603 | 0.66 | 161.72 | 2.17 | 1.59 | 177 | 0.599 | 0.99 | 0.000 | 0.388 | | 1.54 | **2.12** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 5.99 | 123.12 | 0.35 | 54.38 | 1.51 | 2.78% | 2.795 | 0.67 | 153.37 | 2.20 | 1.67 | 179 | 0.615 | 0.99 | 0.000 | 0.388 | | 1.58 | **2.18** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 6.06 | 123.22 | 0.36 | 51.45 | 1.56 | 3.03% | 3.053 | 0.68 | 143.29 | 2.25 | 1.79 | 182 | 0.641 | 0.99 | 0.000 | 0.388 | | 1.65 | **2.27** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 6.12 | 123.18 | 0.36 | 50.18 | 1.56 | 3.11% | 3.131 | 0.69 | 138.28 | 2.26 | 1.83 | 182 | 0.638 | 0.99 | 0.000 | 0.388 | | 1.64 | **2.26** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 6.20 | 123.04 | 0.37 | 51.35 | 1.52 | 2.96% | 2.981 | 0.68 | 139.61 | 2.24 | 1.78 | 178 | 0.604 | 0.99 | 0.000 | 0.388 | | 1.56 | **2.14** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 6.26 | 122.73 | 0.37 | 50.28 | 1.47 | 2.92% | 2.945 | 0.68 | 135.31 | 2.25 | 1.79 | 174 | 0.571 | 0.99 | 0.000 | 0.388 | | 1.47 | **2.03** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 6.31 | 122.53 | 0.37 | 51.25 | 1.42 | 2.77% | 2.791 | 0.68 | 136.79 | 2.23 | 1.74 | 170 | 0.539 | 0.99 | 0.000 | 0.388 | | 1.39 | **1.91** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 6.39 | 122.00 | 0.38 | 53.59 | 1.30 | 2.43% | 2.443 | 0.66 | 141.22 | 2.18 | 1.61 | 162 | 0.473 | 0.98 | 0.000 | 0.388 | | 1.22 | **1.68** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 6.44 | 121.68 | 0.38 | 54.08 | 1.24 | 2.29% | 2.309 | 0.66 | 141.37 | 2.16 | 1.58 | 158 | 0.444 | 0.98 | 0.000 | 0.388 | | 1.14 | **1.57** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.907 | | |
| 6.53 | 118.71 | 0.39 | 54.28 | 0.83 | 1.53% | 1.540 | 0.62 | 139.91 | 2.05 | 1.37 | 131 | 0.291 | 0.98 | 0.000 | 0.388 | | 0.75 | **1.03** | <= | 0.535 | 0.000 | 0.006 | 5.246 | 0.907 | | |
| 6.57 | 116.98 | 0.39 | 54.08 | 0.65 | 1.20% | 1.211 | 0.60 | 138.55 | 1.99 | 1.28 | 120 | 0.241 | 0.98 | 0.000 | 0.388 | | 0.62 | **0.86** | <= | 1.389 | 0.000 | 0.007 | 5.246 | 0.902 | | |
| 6.66 | 116.55 | 0.39 | 53.89 | 0.62 | 1.15% | 1.159 | 0.60 | 136.20 | 1.98 | 1.27 | 118 | 0.231 | 0.98 | 0.000 | 0.388 | | 0.60 | **0.82** | <= | 1.293 | 0.000 | 0.014 | 5.246 | 0.895 | | |
| 6.71 | 116.35 | 0.40 | 53.40 | 0.60 | 1.12% | 1.132 | 0.60 | 133.95 | 1.98 | 1.27 | 116 | 0.224 | 0.98 | 0.000 | 0.388 | | 0.58 | **0.79** | <= | 2.030 | 0.000 | 0.012 | 5.246 | 0.881 | | |
| 6.79 | 116.11 | 0.40 | 52.91 | 0.59 | 1.12% | 1.124 | 0.60 | 131.16 | 1.98 | 1.27 | 114 | 0.219 | 0.98 | 0.000 | 0.388 | | 0.56 | **0.78** | <= | 1.978 | 0.000 | 0.019 | 5.246 | 0.869 | | |
| 6.83 | 116.12 | 0.40 | 52.72 | 0.59 | 1.12% | 1.128 | 0.60 | 129.93 | 1.98 | 1.28 | 114 | 0.217 | 0.98 | 0.000 | 0.388 | | 0.56 | **0.77** | <= | 1.966 | 0.000 | 0.009 | 5.246 | 0.850 | | |
| 6.90 | 116.20 | 0.41 | 51.06 | 0.60 | 1.18% | 1.185 | 0.61 | 124.54 | 2.01 | 1.31 | 113 | 0.214 | 0.98 | 0.000 | 0.387 | | 0.55 | **0.76** | <= | 1.939 | 0.000 | 0.016 | 5.246 | 0.840 | | |
| 6.99 | 116.15 | 0.41 | 51.45 | 0.59 | 1.15% | 1.156 | 0.61 | 123.89 | 2.00 | 1.30 | 112 | 0.211 | 0.98 | 0.000 | 0.387 | | 0.54 | **0.75** | <= | 1.913 | 0.000 | 0.021 | 5.246 | 0.824 | | |
| 7.03 | 116.21 | 0.41 | 50.96 | 0.60 | 1.18% | 1.187 | 0.61 | 122.01 | 2.01 | 1.31 | 112 | 0.211 | 0.98 | 0.000 | 0.387 | | 0.55 | **0.75** | <= | 1.916 | 0.000 | 0.009 | 5.246 | 0.803 | | |
| 7.10 | 116.09 | 0.42 | 49.88 | 0.60 | 1.20% | 1.213 | 0.62 | 118.23 | 2.02 | 1.33 | 111 | 0.208 | 0.98 | 0.000 | 0.387 | | 0.54 | **0.74** | <= | 1.889 | 0.000 | 0.016 | 5.246 | 0.794 | | |
| 7.16 | 115.78 | 0.42 | 48.62 | 0.58 | 1.19% | 1.203 | 0.62 | 114.26 | 2.03 | 1.34 | 109 | 0.200 | 0.98 | 0.000 | 0.387 | | 0.52 | **0.71** | <= | 2.155 | 0.000 | 0.016 | 5.246 | 0.778 | | |
| 7.25 | 115.14 | 0.43 | 45.69 | 0.54 | 1.18% | 1.193 | 0.62 | 106.00 | 2.05 | 1.37 | 104 | 0.185 | 0.98 | 0.000 | 0.387 | | 0.48 | **0.66** | <= | 2.232 | 0.000 | 0.024 | 5.246 | 0.763 | | |
| 7.30 | 114.62 | 0.43 | 43.83 | 0.51 | 1.16% | 1.175 | 0.63 | 100.96 | 2.06 | 1.39 | 101 | 0.176 | 0.98 | 0.000 | 0.387 | | 0.45 | **0.62** | <= | 2.289 | 0.000 | 0.014 | 5.246 | 0.739 | | |
| 7.39 | 113.87 | 0.43 | 42.37 | 0.46 | 1.09% | 1.097 | 0.63 | 96.40 | 2.06 | 1.38 | 96 | 0.163 | 0.98 | 0.000 | 0.387 | | 0.42 | **0.58** | <= | 2.378 | 0.000 | 0.026 | 5.246 | 0.725 | | |
| 7.44 | 113.40 | 0.44 | 41.20 | 0.44 | 1.07% | 1.079 | 0.63 | 93.10 | 2.06 | 1.39 | 94 | 0.157 | 0.98 | 0.000 | 0.387 | | 0.41 | **0.56** | <= | 2.424 | 0.000 | 0.015 | 5.246 | 0.699 | | |
| 7.52 | 112.64 | 0.44 | 40.03 | 0.40 | 1.00% | 1.010 | 0.63 | 89.50 | 2.06 | 1.39 | 90 | 0.148 | 0.98 | 0.000 | 0.387 | | 0.38 | **0.53** | <= | 2.507 | 0.000 | 0.024 | 5.246 | 0.685 | | |
| 7.57 | 112.40 | 0.45 | 39.34 | 0.39 | 0.99% | 1.003 | 0.63 | 87.38 | 2.07 | 1.40 | 89 | 0.145 | 0.98 | 0.000 | 0.387 | | 0.38 | **0.52** | <= | 2.536 | 0.000 | 0.015 | 5.246 | 0.661 | | |
| 7.62 | 112.20 | 0.45 | 38.46 | 0.38 | 0.99% | 1.000 | 0.63 | 84.86 | 2.07 | 1.41 | 88 | 0.142 | 0.98 | 0.000 | 0.387 | | 0.37 | **0.51** | <= | 2.568 | 0.000 | 0.015 | 5.246 | 0.645 | | |
| 7.70 | 112.01 | 0.45 | 37.00 | 0.38 | 1.03% | 1.040 | 0.64 | 80.78 | 2.10 | 1.45 | 87 | 0.140 | 0.98 | 0.000 | 0.387 | | 0.36 | **0.50** | <= | 2.590 | 0.000 | 0.025 | 5.246 | 0.630 | | |
| 7.75 | 112.00 | 0.46 | 36.61 | 0.38 | 1.04% | 1.051 | 0.64 | 79.42 | 2.10 | 1.46 | 86 | 0.140 | 0.98 | 0.000 | 0.387 | | 0.36 | **0.50** | <= | 2.598 | 0.000 | 0.016 | 5.246 | 0.605 | | |
| 7.84 | 112.39 | 0.46 | 35.44 | 0.40 | 1.13% | 1.144 | 0.65 | 76.00 | 2.14 | 1.53 | 87 | 0.142 | 0.98 | 0.000 | 0.387 | | 0.37 | **0.50** | <= | 2.576 | 0.000 | 0.028 | 5.246 | 0.590 | | |
| 7.88 | 112.57 | 0.46 | 34.95 | 0.41 | 1.17% | 1.189 | 0.65 | 74.56 | 2.15 | 1.56 | 88 | 0.143 | 0.98 | 0.000 | 0.387 | | 0.37 | **0.51** | <= | 2.563 | 0.000 | 0.012 | 5.246 | 0.562 | | |
| 7.96 | 112.80 | 0.47 | 34.17 | 0.43 | 1.26% | 1.276 | 0.66 | 72.16 | 2.18 | 1.62 | 89 | 0.146 | 0.98 | 0.000 | 0.386 | | 0.38 | **0.52** | <= | 2.534 | 0.000 | 0.024 | 5.246 | 0.550 | | |
| 8.01 | 112.99 | 0.47 | 33.97 | 0.44 | 1.30% | 1.313 | 0.66 | 71.30 | 2.19 | 1.64 | 90 | 0.147 | 0.98 | 0.000 | 0.386 | | 0.38 | **0.52** | <= | 2.519 | 0.000 | 0.015 | 5.246 | 0.525 | | |
| 8.10 | 113.50 | 0.47 | 34.07 | 0.47 | 1.38% | 1.399 | 0.67 | 70.73 | 2.21 | 1.68 | 92 | 0.152 | 0.98 | 0.000 | 0.386 | | 0.39 | **0.54** | <= | 2.470 | 0.000 | 0.027 | 5.246 | 0.510 | | |
| 8.15 | 113.62 | 0.48 | 34.56 | 0.48 | 1.39% | 1.408 | 0.67 | 71.33 | 2.20 | 1.68 | 93 | 0.154 | 0.98 | 0.000 | 0.386 | | 0.40 | **0.55** | <= | 2.455 | 0.000 | 0.015 | 5.246 | 0.483 | | |
| 8.22 | 113.87 | 0.48 | 35.44 | 0.49 | 1.38% | 1.402 | 0.67 | 72.56 | 2.20 | 1.66 | 93 | 0.155 | 0.98 | 0.000 | 0.386 | | 0.40 | **0.55** | <= | 2.441 | 0.000 | 0.021 | 5.246 | 0.469 | | |
| 8.29 | 113.93 | 0.49 | 36.22 | 0.49 | 1.35% | 1.371 | 0.66 | 73.56 | 2.19 | 1.63 | 93 | 0.155 | 0.98 | 0.000 | 0.386 | | 0.40 | **0.55** | <= | 2.444 | 0.000 | 0.021 | 5.246 | 0.448 | | |
| 8.34 | 113.97 | 0.49 | 37.49 | 0.49 | 1.31% | 1.324 | 0.66 | 75.72 | 2.17 | 1.59 | 93 | 0.155 | 0.98 | 0.000 | 0.386 | | 0.40 | **0.55** | <= | 2.443 | 0.000 | 0.015 | 5.246 | 0.428 | | |
| 8.42 | 114.18 | 0.49 | 38.85 | 0.50 | 1.29% | 1.304 | 0.65 | 77.77 | 2.15 | 1.56 | 94 | 0.157 | 0.98 | 0.000 | 0.386 | | 0.41 | **0.56** | <= | 2.427 | 0.000 | 0.023 | 5.246 | 0.413 | | |
| 8.47 | 114.17 | 0.50 | 39.83 | 0.49 | 1.23% | 1.246 | 0.65 | 79.29 | 2.14 | 1.52 | 93 | 0.155 | 0.98 | 0.000 | 0.386 | | 0.40 | **0.55** | <= | 2.441 | 0.000 | 0.015 | 5.246 | 0.390 | | |
| 8.55 | 114.37 | 0.50 | 41.00 | 0.50 | 1.22% | 1.235 | 0.65 | 80.90 | 2.13 | 1.51 | 94 | 0.157 | 0.98 | 0.000 | 0.386 | | 0.41 | **0.56** | <= | 2.424 | 0.000 | 0.023 | 5.246 | 0.375 | | |
| 8.60 | 114.37 | 0.50 | 41.68 | 0.50 | 1.20% | 1.214 | 0.64 | 81.78 | 2.12 | 1.49 | 94 | 0.157 | 0.98 | 0.000 | 0.386 | | 0.41 | **0.56** | <= | 2.423 | 0.000 | 0.015 | 5.246 | 0.352 | | |
| 8.68 | 114.40 | 0.51 | 41.78 | 0.50 | 1.20% | 1.211 | 0.64 | 81.23 | 2.12 | 1.49 | 94 | 0.157 | 0.98 | 0.000 | 0.386 | | 0.41 | **0.56** | <= | 2.428 | 0.000 | 0.023 | 5.246 | 0.337 | | |
| 8.73 | 114.41 | 0.51 | 41.98 | 0.50 | 1.19% | 1.206 | 0.64 | 81.16 | 2.12 | 1.49 | 94 | 0.157 | 0.98 | 0.000 | 0.386 | | 0.41 | **0.56** | <= | 2.431 | 0.000 | 0.015 | 5.246 | 0.314 | | |
| 8.82 | 114.39 | 0.52 | 41.59 | 0.50 | 1.20% | 1.217 | 0.65 | 79.59 | 2.13 | 1.50 | 93 | 0.155 | 0.98 | 0.000 | 0.386 | | 0.40 | **0.55** | <= | 2.440 | 0.000 | 0.026 | 5.246 | 0.299 | | |
| 8.90 | 113.50 | 0.52 | 41.68 | 0.44 | 1.06% | 1.069 | 0.64 | 79.06 | 2.09 | 1.44 | 89 | 0.145 | 0.98 | 0.000 | 0.386 | | 0.38 | **0.52** | <= | 2.538 | 0.000 | 0.024 | 5.246 | 0.273 | | |
| 8.95 | 112.83 | 0.52 | 41.49 | 0.41 | 0.99% | 1.001 | 0.63 | 78.26 | 2.08 | 1.42 | 86 | 0.140 | 0.98 | 0.000 | 0.386 | | 0.36 | **0.50** | <= | 2.594 | 0.000 | 0.016 | 5.246 | 0.249 | | |
| 9.00 | 112.97 | 0.53 | 41.10 | 0.41 | 1.00% | 1.011 | 0.63 | 77.10 | 2.09 | 1.43 | 86 | 0.139 | 0.98 | 0.000 | 0.385 | | 0.36 | **0.50** | <= | 2.602 | 0.000 | 0.016 | 5.246 | 0.233 | | |
| 9.06 | 113.30 | 0.53 | 40.81 | 0.43 | 1.05% | 1.068 | 0.64 | 76.05 | 2.10 | 1.46 | 87 | 0.142 | 0.98 | 0.000 | 0.385 | | 0.37 | **0.51** | <= | 2.575 | 0.000 | 0.019 | 5.246 | 0.217 | | |
| 9.13 | 114.02 | 0.53 | 40.90 | 0.48 | 1.17% | 1.189 | 0.65 | 75.64 | 2.13 | 1.52 | 91 | 0.149 | 0.98 | 0.000 | 0.385 | | 0.39 | **0.53** | <= | 2.497 | 0.000 | 0.021 | 5.246 | 0.199 | | |
| 9.22 | 115.34 | 0.54 | 41.00 | 0.57 | 1.39% | 1.409 | 0.66 | 75.09 | 2.18 | 1.61 | 97 | 0.164 | 0.98 | 0.000 | 0.385 | | 0.43 | **0.59** | <= | 2.370 | 0.000 | 0.026 | 5.246 | 0.178 | | |
| 9.28 | 116.51 | 0.54 | 38.17 | 0.69 | 1.81% | 1.834 | 0.69 | 69.38 | 2.27 | 1.85 | 105 | 0.188 | 0.98 | 0.000 | 0.385 | | 0.49 | **0.67** | <= | 2.218 | 0.000 | 0.016 | 5.246 | 0.152 | | |
| 9.33 | 117.46 | 0.55 | 40.12 | 0.77 | 1.92% | 1.946 | 0.69 | 72.58 | 2.27 | 1.86 | 110 | 0.205 | 0.98 | 0.000 | 0.385 | | 0.53 | **0.73** | <= | 2.131 | 0.000 | 0.013 | 5.246 | 0.136 | | |
| 9.40 | 119.21 | 0.55 | 39.93 | 0.98 | 2.45% | 2.489 | 0.71 | 71.67 | 2.34 | 2.09 | 125 | 0.260 | 0.98 | 0.000 | 0.385 | | 0.67 | **0.93** | <= | 0.827 | 0.000 | 0.007 | 5.246 | 0.124 | | |
| 9.45 | 120.16 | 0.55 | 39.05 | 1.13 | 2.89% | 2.935 | 0.73 | 69.68 | 2.40 | 2.30 | 135 | 0.308 | 0.98 | 0.000 | 0.385 | | 0.80 | **1.10** | <= | 0.667 | 0.000 | 0.004 | 5.246 | 0.117 | | |
| 9.54 | 121.03 | 0.56 | 36.90 | 1.29 | 3.50% | 3.550 | 0.75 | 65.14 | 2.47 | 2.63 | 146 | 0.371 | 0.98 | 0.000 | 0.385 | | 0.96 | **1.33** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.113 | | |
| 9.59 | 121.10 | 0.56 | 36.12 | 1.32 | 3.65% | 3.712 | 0.76 | 63.39 | 2.49 | 2.73 | 149 | 0.385 | 0.98 | 0.000 | 0.385 | | 1.00 | **1.38** | | 0.000 | 0.000 | 0.000 | 5.246 | 0.113 | | |
| 9.69 | 117.27 | 0.57 | 36.12 | 0.78 | 2.16% | 2.194 | 0.71 | 62.73 | 2.34 | 2.10 | 110 | 0.205 | 0.98 | 0.000 | 0.385 | | 0.53 | **0.73** | <= | 2.129 | 0.000 | 0.026 | 5.246 | 0.113 | | |
| 9.73 | 116.87 | 0.57 | 37.78 | 0.73 | 1.93% | 1.962 | 0.70 | 65.38 | 2.30 | 1.95 | 106 | 0.192 | 0.98 | 0.000 | 0.385 | | 0.50 | **0.69** | <= | 2.195 | 0.000 | 0.011 | 5.246 | 0.087 | | |
| 9.82 | 115.71 | 0.57 | 44.32 | 0.59 | 1.33% | 1.349 | 0.65 | 76.17 | 2.15 | 1.56 | 97 | 0.164 | 0.98 | 0.000 | 0.385 | | 0.43 | **0.59** | <= | 2.370 | 0.000 | 0.026 | 5.246 | 0.077 | | |
| 9.86 | 115.45 | 0.58 | 48.03 | 0.55 | 1.15% | 1.159 | 0.63 | 82.29 | 2.09 | 1.44 | 95 | 0.160 | 0.98 | 0.000 | 0.385 | | 0.42 | **0.57** | <= | 2.399 | 0.000 | 0.012 | 5.246 | 0.051 | | |
| 9.92 | 115.25 | 0.58 | 55.64 | 0.51 | 0.92% | 0.926 | 0.60 | 94.91 | 1.99 | 1.28 | 97 | 0.164 | 0.98 | 0.000 | 0.385 | | 0.43 | **0.59** | <= | 2.372 | 0.000 | 0.017 | 5.246 | 0.039 | | |
| 10.00 | 114.75 | 0.58 | 63.16 | 0.46 | 0.73% | 0.735 | 0.58 | 107.02 | 1.89 | 1.18 | 99 | 0.170 | 0.98 | 0.000 | 0.385 | | 0.44 | **0.61** | <= | 2.328 | 0.000 | 0.022 | 5.246 | 0.022 | 9.92 | 10.00 |
| 10.04 | 113.35 | 0.59 | 44.42 | 0.43 | 0.97% | 0.981 | 0.63 | 74.84 | 2.08 | 1.42 | 86 | 0.139 | 0.98 | 0.001 | 0.385 | | 0.36 | **0.49** | <= | 2.612 | 0.013 | 0.000 | 5.246 | 0.000 | 10.00 | 10.04 |
| 10.11 | 114.18 | 0.59 | 70.97 | 0.41 | 0.58% | 0.583 | 0.55 | 119.79 | 1.80 | 1.11 | 102 | 0.179 | 0.98 | 0.003 | 0.387 | | 0.46 | **0.64** | <= | 2.266 | 0.019 | 0.000 | 5.234 | 0.000 | 10.04 | 10.11 |
| 10.18 | 114.48 | 0.59 | 77.22 | 0.41 | 0.53% | 0.535 | 0.53 | 130.02 | 1.75 | 1.07 | 107 | 0.194 | 0.98 | 0.006 | 0.388 | | 0.50 | **0.69** | <= | 2.186 | 0.018 | 0.000 | 5.215 | 0.000 | 10.11 | 10.18 |
| 10.25 | 115.10 | 0.60 | 81.22 | 0.44 | 0.54% | 0.546 | 0.53 | 136.37 | 1.74 | 1.06 | 111 | 0.208 | 0.98 | 0.008 | 0.389 | | 0.53 | **0.73** | <= | 1.875 | 0.016 | 0.000 | 5.197 | 0.000 | 10.18 | 10.25 |
| 10.33 | 115.71 | 0.60 | 86.20 | 0.47 | 0.55% | 0.549 | 0.52 | 144.27 | 1.72 | 1.05 | 116 | 0.225 | 0.98 | 0.010 | 0.391 | | 0.58 | **0.79** | <= | 1.950 | 0.019 | 0.000 | 5.181 | 0.000 | 10.25 | 10.33 |
| 10.39 | 116.12 | 0.61 | 89.32 | 0.49 | 0.55% | 0.552 | 0.52 | 149.11 | 1.71 | 1.04 | 119 | 0.237 | 0.98 | 0.012 | 0.392 | | 0.61 | **0.83** | <= | 1.317 | 0.009 | 0.000 | 5.162 | 0.000 | 10.33 | 10.39 |
| 10.48 | 116.81 | 0.61 | 92.55 | 0.54 | 0.58% | 0.587 | 0.52 | 153.90 | 1.71 | 1.05 | 124 | 0.255 | 0.98 | 0.015 | 0.394 | | 0.65 | **0.89** | <= | 1.467 | 0.016 | 0.000 | 5.153 | 0.000 | 10.39 | 10.48 |
| 10.52 | 117.03 | 0.61 | 94.01 | 0.55 | 0.59% | 0.589 | 0.52 | 156.06 | 1.71 | 1.04 | 125 | 0.261 | 0.98 | 0.016 | 0.394 | | 0.66 | **0.91** | <= | 0.760 | 0.004 | 0.000 | 5.137 | 0.000 | 10.48 | 10.52 |
| 10.59 | 117.37 | 0.62 | 96.06 | 0.57 | 0.59% | 0.597 | 0.52 | 158.96 | 1.70 | 1.04 | 127 | 0.271 | 0.97 | 0.018 | 0.396 | | 0.68 | **0.94** | <= | 0.862 | 0.007 | 0.000 | 5.133 | 0.000 | 10.52 | 10.59 |
| 10.64 | 117.61 | 0.62 | 96.65 | 0.59 | 0.61% | 0.614 | 0.52 | 159.57 | 1.71 | 1.04 | 128 | 0.276 | 0.97 | 0.020 | 0.397 | | 0.70 | **0.96** | <= | 0.912 | 0.005 | 0.000 | 5.126 | 0.000 | 10.59 | 10.64 |
| 10.70 | 117.89 | 0.63 | 96.94 | 0.61 | 0.63% | 0.633 | 0.52 | 159.61 | 1.72 | 1.05 | 129 | 0.280 | 0.97 | 0.022 | 0.398 | | 0.70 | **0.97** | <= | 0.947 | 0.007 | 0.000 | 5.120 | 0.000 | 10.64 | 10.70 |
| 10.78 | 117.97 | 0.63 | 96.26 | 0.62 | 0.64% | 0.648 | 0.53 | 157.89 | 1.73 | 1.06 | 129 | 0.279 | 0.97 | 0.024 | 0.399 | | 0.70 | **0.96** | <= | 0.921 | 0.009 | 0.000 | 5.114 | 0.000 | 10.70 | 10.78 |
| 10.83 | 117.98 | 0.63 | 94.79 | 0.62 | 0.65% | 0.658 | 0.53 | 155.10 | 1.73 | 1.06 | 128 | 0.274 | 0.97 | 0.026 | 0.400 | | 0.68 | **0.94** | <= | 0.854 | 0.005 | 0.000 | 5.105 | 0.000 | 10.78 | 10.83 |
| 10.92 | 117.82 | 0.64 | 91.18 | 0.62 | 0.68% | 0.685 | 0.54 | 148.54 | 1.76 | 1.08 | 125 | 0.261 | 0.97 | 0.029 | 0.402 | | 0.65 | **0.89** | <= | 1.450 | 0.016 | 0.000 | 5.100 | 0.000 | 10.83 | 10.92 |
| 10.97 | 117.69 | 0.64 | 87.86 | 0.61 | 0.69% | 0.699 | 0.54 | 142.76 | 1.78 | 1.09 | 122 | 0.248 | 0.97 | 0.030 | 0.403 | | 0.62 | **0.85** | <= | 1.332 | 0.008 | 0.000 | 5.084 | 0.000 | 10.92 | 10.97 |
| 11.05 | 117.50 | 0.65 | 82.10 | 0.61 | 0.74% | 0.749 | 0.55 | 132.85 | 1.82 | 1.12 | 117 | 0.230 | 0.97 | 0.033 | 0.404 | | 0.57 | **0.78** | <= | 1.961 | 0.019 | 0.000 | 5.076 | 0.000 | 10.97 | 11.05 |
| 11.10 | 117.38 | 0.65 | 78.29 | 0.61 | 0.78% | 0.786 | 0.56 | 126.35 | 1.84 | 1.14 | 114 | 0.219 | 0.97 | 0.034 | 0.405 | | 0.54 | **0.74** | <= | 1.853 | 0.011 | 0.000 | 5.057 | 0.000 | 11.05 | 11.10 |
| 11.19 | 117.21 | 0.65 | 73.61 | 0.61 | 0.83% | 0.836 | 0.57 | 118.25 | 1.88 | 1.17 | 111 | 0.206 | 0.97 | 0.037 | 0.407 | | 0.51 | **0.70** | <= | 2.124 | 0.023 | 0.000 | 5.046 | 0.000 | 11.10 | 11.19 |
| 11.24 | 117.27 | 0.66 | 71.56 | 0.62 | 0.87% | 0.874 | 0.58 | 114.66 | 1.90 | 1.19 | 110 | 0.203 | 0.97 | 0.039 | 0.407 | | 0.50 | **0.68** | <= | 2.141 | 0.013 | 0.000 | 5.023 | 0.000 | 11.19 | 11.24 |
| 11.29 | 117.43 | 0.66 | 70.48 | 0.64 | 0.91% | 0.917 | 0.58 | 112.66 | 1.92 | 1.21 | 110 | 0.203 | 0.97 | 0.040 | 0.408 | | 0.50 | **0.68** | <= | 2.141 | 0.013 | 0.000 | 5.010 | 0.000 | 11.24 | 11.29 |
| 11.35 | 117.63 | 0.66 | 70.58 | 0.65 | 0.92% | 0.930 | 0.58 | 112.52 | 1.92 | 1.21 | 110 | 0.204 | 0.97 | 0.042 | 0.409 | | 0.50 | **0.69** | <= | 2.135 | 0.015 | 0.000 | 4.997 | 0.000 | 11.29 | 11.35 |
| 11.46 | 117.79 | 0.67 | 76.15 | 0.65 | 0.85% | 0.861 | 0.57 | 120.88 | 1.88 | 1.17 | 114 | 0.217 | 0.97 | 0.046 | 0.411 | | 0.53 | **0.72** | <= | 1.789 | 0.024 | 0.000 | 4.982 | 0.000 | 11.35 | 11.46 |
| 11.51 | 118.02 | 0.67 | 82.30 | 0.66 | 0.80% | 0.809 | 0.56 | 130.43 | 1.84 | 1.14 | 118 | 0.234 | 0.97 | 0.047 | 0.412 | | 0.57 | **0.78** | <= | 1.942 | 0.012 | 0.000 | 4.958 | 0.000 | 11.46 | 11.51 |
| 11.55 | 118.12 | 0.68 | 84.74 | 0.66 | 0.78% | 0.785 | 0.55 | 134.09 | 1.82 | 1.12 | 120 | 0.241 | 0.97 | 0.048 | 0.413 | | 0.58 | **0.80** | <= | 1.193 | 0.006 | 0.000 | 4.947 | 0.000 | 11.51 | 11.55 |
| 11.64 | 118.44 | 0.68 | 95.28 | 0.66 | 0.69% | 0.698 | 0.53 | 150.29 | 1.75 | 1.07 | 128 | 0.274 | 0.97 | 0.051 | 0.414 | | 0.66 | **0.91** | <= | 0.740 | 0.008 | 0.000 | 4.941 | 0.000 | 11.55 | 11.64 |
| 11.68 | 118.61 | 0.68 | 101.23 | 0.66 | 0.65% | 0.656 | 0.52 | 159.45 | 1.72 | 1.05 | 132 | 0.294 | 0.97 | 0.052 | 0.415 | | 0.71 | **0.97** | <= | 0.937 | 0.004 | 0.000 | 4.933 | 0.000 | 11.64 | 11.68 |
| 11.77 | 118.90 | 0.69 | 109.14 | 0.67 | 0.61% | 0.618 | 0.51 | 171.30 | 1.68 | 1.02 | 138 | 0.323 | 0.97 | 0.055 | 0.416 | | 0.78 | **1.07** | <= | 0.585 | 0.006 | 0.000 | 4.928 | 0.000 | 11.68 | 11.77 |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-5

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

**D(ft)** 1  **MAGNITUDE:** 6.62  **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet  **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.82 | 118.79 | 0.69 | 113.14 | 0.66 | 0.58% | 0.587 | 0.50 | 177.22 | 1.66 | 1.01 | 140 | 0.334 | 0.97 | 0.057 | 0.417 | | 0.80 | 1.10 | <= | 0.317 | 0.002 | 0.000 | 4.922 | 0.000 | 11.77 | 11.82 |
| 11.89 | 116.30 | 0.70 | 115.10 | 0.46 | 0.40% | 0.402 | 0.50 | 179.76 | 1.56 | 1.00 | 141 | 0.339 | 0.97 | 0.059 | 0.418 | | 0.81 | 1.11 | <= | 0.332 | 0.003 | 0.000 | 4.920 | 0.000 | 11.82 | 11.89 |
| 11.95 | 116.42 | 0.70 | 115.49 | 0.47 | 0.41% | 0.409 | 0.50 | 179.91 | 1.56 | 1.00 | 141 | 0.340 | 0.97 | 0.061 | 0.419 | | 0.81 | 1.12 | <= | 0.335 | 0.002 | 0.000 | 4.917 | 0.000 | 11.89 | 11.95 |
| 12.04 | 117.11 | 0.70 | 114.41 | 0.52 | 0.45% | 0.457 | 0.50 | 177.53 | 1.59 | 1.00 | 139 | 0.331 | 0.97 | 0.064 | 0.421 | | 0.79 | 1.08 | <= | 0.615 | 0.007 | 0.000 | 4.915 | 0.000 | 11.95 | 12.04 |
| 12.11 | 117.79 | 0.71 | 113.14 | 0.57 | 0.50% | 0.507 | 0.50 | 175.01 | 1.62 | 1.00 | 138 | 0.322 | 0.97 | 0.066 | 0.422 | | 0.76 | 1.05 | <= | 0.552 | 0.005 | 0.000 | 4.908 | 0.000 | 12.04 | 12.11 |
| 12.16 | 118.07 | 0.71 | 103.58 | 0.61 | 0.59% | 0.593 | 0.52 | 159.78 | 1.69 | 1.03 | 131 | 0.287 | 0.97 | 0.067 | 0.423 | | 0.68 | 0.93 | <= | 0.808 | 0.005 | 0.000 | 4.904 | 0.000 | 12.11 | 12.16 |
| 12.21 | 118.78 | 0.71 | 101.43 | 0.68 | 0.67% | 0.675 | 0.53 | 156.09 | 1.73 | 1.06 | 132 | 0.293 | 0.97 | 0.069 | 0.423 | | 0.69 | 0.95 | <= | 0.856 | 0.005 | 0.000 | 4.899 | 0.000 | 12.16 | 12.21 |
| 12.29 | 119.77 | 0.72 | 105.72 | 0.77 | 0.73% | 0.733 | 0.53 | 162.15 | 1.74 | 1.06 | 138 | 0.324 | 0.97 | 0.071 | 0.425 | | 0.76 | 1.05 | <= | 0.550 | 0.005 | 0.000 | 4.894 | 0.000 | 12.21 | 12.29 |
| 12.34 | 120.44 | 0.72 | 105.72 | 0.84 | 0.79% | 0.800 | 0.54 | 161.79 | 1.76 | 1.08 | 140 | 0.337 | 0.97 | 0.073 | 0.425 | | 0.79 | 1.09 | <= | 0.621 | 0.004 | 0.000 | 4.889 | 0.000 | 12.29 | 12.34 |
| 12.41 | 121.38 | 0.73 | 105.72 | 0.96 | 0.91% | 0.914 | 0.55 | 161.27 | 1.80 | 1.10 | 144 | 0.358 | 0.97 | 0.075 | 0.426 | | 0.84 | 1.16 | <= | 0.379 | 0.003 | 0.000 | 4.885 | 0.000 | 12.34 | 12.41 |
| 12.51 | 122.20 | 0.73 | 106.31 | 1.07 | 1.01% | 1.013 | 0.56 | 161.42 | 1.82 | 1.13 | 148 | 0.380 | 0.97 | 0.078 | 0.428 | | 0.89 | 1.22 | <= | 0.236 | 0.003 | 0.000 | 4.882 | 0.000 | 12.41 | 12.51 |
| 12.55 | 122.52 | 0.73 | 107.09 | 1.11 | 1.04% | 1.044 | 0.56 | 162.31 | 1.83 | 1.13 | 149 | 0.391 | 0.97 | 0.080 | 0.429 | | 0.91 | 1.25 | <= | 0.262 | 0.001 | 0.000 | 4.879 | 0.000 | 12.51 | 12.55 |
| 12.60 | 122.86 | 0.74 | 108.36 | 1.16 | 1.07% | 1.078 | 0.56 | 163.87 | 1.84 | 1.13 | 152 | 0.405 | 0.97 | 0.081 | 0.429 | | 0.94 | 1.30 | <= | 0.298 | 0.002 | 0.000 | 4.878 | 0.000 | 12.55 | 12.60 |
| 12.68 | 123.07 | 0.74 | 110.41 | 1.19 | 1.08% | 1.085 | 0.56 | 166.37 | 1.83 | 1.13 | 154 | 0.419 | 0.97 | 0.084 | 0.431 | | 0.97 | 1.34 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 12.75 | 123.29 | 0.75 | 112.85 | 1.21 | 1.07% | 1.079 | 0.56 | 169.52 | 1.83 | 1.13 | 156 | 0.434 | 0.97 | 0.086 | 0.432 | | 1.01 | 1.38 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 12.81 | 123.52 | 0.75 | 115.29 | 1.24 | 1.08% | 1.083 | 0.55 | 172.72 | 1.82 | 1.12 | 159 | 0.451 | 0.97 | 0.088 | 0.432 | | 1.04 | 1.43 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 12.86 | 123.81 | 0.75 | 118.02 | 1.28 | 1.08% | 1.092 | 0.55 | 176.42 | 1.82 | 1.12 | 162 | 0.472 | 0.97 | 0.089 | 0.433 | | 1.09 | 1.50 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 12.95 | 124.50 | 0.76 | 126.42 | 1.38 | 1.09% | 1.098 | 0.55 | 188.26 | 1.80 | 1.11 | 170 | 0.539 | 0.97 | 0.092 | 0.434 | | 1.24 | 1.71 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.00 | 124.92 | 0.76 | 131.30 | 1.44 | 1.10% | 1.103 | 0.54 | 195.11 | 1.79 | 1.10 | 175 | 0.581 | 0.97 | 0.094 | 0.435 | | 1.34 | 1.84 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.07 | 125.45 | 0.77 | 137.16 | 1.53 | 1.12% | 1.122 | 0.54 | 203.19 | 1.78 | 1.09 | 182 | 0.639 | 0.97 | 0.096 | 0.436 | | 1.46 | 2.02 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.14 | 125.99 | 0.77 | 141.16 | 1.63 | 1.15% | 1.161 | 0.54 | 208.46 | 1.78 | 1.09 | 187 | 0.690 | 0.97 | 0.098 | 0.437 | | 1.58 | 2.17 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.19 | 126.17 | 0.77 | 142.82 | 1.66 | 1.16% | 1.169 | 0.54 | 210.42 | 1.78 | 1.09 | 189 | 0.707 | 0.97 | 0.100 | 0.438 | | 1.62 | 2.22 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.27 | 126.21 | 0.78 | 144.29 | 1.67 | 1.16% | 1.164 | 0.54 | 211.79 | 1.78 | 1.09 | 190 | 0.718 | 0.97 | 0.102 | 0.439 | | 1.63 | 2.25 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.33 | 126.13 | 0.78 | 143.31 | 1.65 | 1.15% | 1.158 | 0.54 | 209.74 | 1.78 | 1.09 | 189 | 0.703 | 0.97 | 0.104 | 0.440 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.40 | 126.01 | 0.79 | 141.75 | 1.63 | 1.15% | 1.156 | 0.54 | 206.76 | 1.78 | 1.09 | 187 | 0.684 | 0.97 | 0.106 | 0.441 | | 1.55 | 2.14 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.47 | 125.98 | 0.79 | 141.80 | 1.62 | 1.14% | 1.149 | 0.54 | 206.16 | 1.78 | 1.09 | 186 | 0.679 | 0.97 | 0.108 | 0.442 | | 1.54 | 2.12 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.52 | 125.96 | 0.80 | 141.80 | 1.62 | 1.14% | 1.149 | 0.54 | 205.67 | 1.78 | 1.09 | 186 | 0.678 | 0.97 | 0.110 | 0.442 | | 1.53 | 2.11 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.58 | 125.97 | 0.80 | 141.84 | 1.62 | 1.14% | 1.149 | 0.54 | 205.16 | 1.78 | 1.09 | 186 | 0.676 | 0.97 | 0.112 | 0.443 | | 1.53 | 2.10 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.67 | 125.95 | 0.80 | 143.90 | 1.61 | 1.12% | 1.125 | 0.54 | 207.28 | 1.77 | 1.09 | 187 | 0.684 | 0.97 | 0.115 | 0.444 | | 1.54 | 2.12 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.74 | 126.08 | 0.81 | 145.07 | 1.63 | 1.12% | 1.130 | 0.54 | 208.30 | 1.77 | 1.09 | 188 | 0.695 | 0.97 | 0.117 | 0.445 | | 1.56 | 2.15 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.80 | 126.15 | 0.81 | 145.26 | 1.65 | 1.14% | 1.142 | 0.54 | 207.99 | 1.78 | 1.09 | 188 | 0.700 | 0.97 | 0.119 | 0.446 | | 1.57 | 2.16 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.87 | 124.08 | 0.82 | 145.75 | 1.24 | 0.85% | 0.856 | 0.51 | 208.05 | 1.69 | 1.03 | 177 | 0.592 | 0.97 | 0.121 | 0.447 | | 1.33 | 1.82 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.93 | 121.49 | 0.82 | 145.46 | 0.87 | 0.60% | 0.601 | 0.50 | 207.10 | 1.59 | 1.00 | 170 | 0.535 | 0.97 | 0.123 | 0.448 | | 1.19 | 1.64 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 13.98 | 121.85 | 0.82 | 144.29 | 0.92 | 0.64% | 0.641 | 0.50 | 204.98 | 1.61 | 1.00 | 168 | 0.522 | 0.97 | 0.124 | 0.448 | | 1.16 | 1.60 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.07 | 122.60 | 0.83 | 140.97 | 1.02 | 0.72% | 0.728 | 0.50 | 199.46 | 1.66 | 1.01 | 166 | 0.502 | 0.97 | 0.127 | 0.450 | | 1.12 | 1.54 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.11 | 122.84 | 0.83 | 139.50 | 1.06 | 0.76% | 0.764 | 0.51 | 197.02 | 1.67 | 1.02 | 166 | 0.505 | 0.97 | 0.128 | 0.450 | | 1.12 | 1.54 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.19 | 123.11 | 0.84 | 138.33 | 1.11 | 0.80% | 0.807 | 0.52 | 194.68 | 1.69 | 1.03 | 167 | 0.510 | 0.97 | 0.131 | 0.451 | | 1.13 | 1.56 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.25 | 123.19 | 0.84 | 136.18 | 1.12 | 0.82% | 0.828 | 0.52 | 191.14 | 1.70 | 1.04 | 165 | 0.501 | 0.97 | 0.133 | 0.452 | | 1.11 | 1.52 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.31 | 123.46 | 0.84 | 138.04 | 1.16 | 0.84% | 0.846 | 0.52 | 193.26 | 1.71 | 1.04 | 168 | 0.519 | 0.97 | 0.134 | 0.453 | | 1.15 | 1.58 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.38 | 123.84 | 0.85 | 134.04 | 1.24 | 0.93% | 0.931 | 0.53 | 187.05 | 1.74 | 1.07 | 167 | 0.514 | 0.97 | 0.137 | 0.453 | | 1.13 | 1.56 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.45 | 124.29 | 0.85 | 137.74 | 1.30 | 0.94% | 0.950 | 0.53 | 191.66 | 1.74 | 1.07 | 171 | 0.547 | 0.97 | 0.139 | 0.454 | | 1.20 | 1.66 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.52 | 124.58 | 0.86 | 143.31 | 1.34 | 0.94% | 0.941 | 0.53 | 198.85 | 1.73 | 1.06 | 176 | 0.587 | 0.97 | 0.141 | 0.455 | | 1.29 | 1.77 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.59 | 124.76 | 0.86 | 148.58 | 1.35 | 0.91% | 0.914 | 0.52 | 205.57 | 1.71 | 1.04 | 180 | 0.619 | 0.97 | 0.143 | 0.456 | | 1.36 | 1.87 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.64 | 124.84 | 0.86 | 151.12 | 1.36 | 0.90% | 0.905 | 0.52 | 208.65 | 1.70 | 1.04 | 181 | 0.636 | 0.97 | 0.145 | 0.457 | | 1.39 | 1.91 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.70 | 124.91 | 0.87 | 154.63 | 1.36 | 0.88% | 0.884 | 0.51 | 212.96 | 1.69 | 1.03 | 184 | 0.655 | 0.97 | 0.147 | 0.457 | | 1.43 | 1.97 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.79 | 124.81 | 0.87 | 159.12 | 1.33 | 0.84% | 0.840 | 0.51 | 218.32 | 1.66 | 1.01 | 185 | 0.671 | 0.96 | 0.149 | 0.458 | | 1.46 | 2.01 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.83 | 124.82 | 0.88 | 162.25 | 1.33 | 0.82% | 0.824 | 0.50 | 222.26 | 1.65 | 1.01 | 187 | 0.688 | 0.96 | 0.151 | 0.459 | | 1.50 | 2.06 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.92 | 124.91 | 0.88 | 168.30 | 1.33 | 0.79% | 0.794 | 0.50 | 229.69 | 1.63 | 1.00 | 192 | 0.741 | 0.96 | 0.154 | 0.460 | | 1.61 | 2.22 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 14.97 | 124.95 | 0.89 | 171.13 | 1.33 | 0.78% | 0.781 | 0.50 | 233.07 | 1.62 | 1.00 | 195 | 0.773 | 0.96 | 0.155 | 0.461 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.05 | 125.25 | 0.89 | 179.04 | 1.36 | 0.76% | 0.763 | 0.50 | 243.06 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.158 | 0.462 | | 1.79 | 2.46 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.10 | 125.43 | 0.89 | 184.21 | 1.38 | 0.75% | 0.753 | 0.50 | 249.57 | 1.59 | 1.00 | 200 | 0.824 | 0.96 | 0.159 | 0.462 | | 1.78 | 2.45 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.16 | 125.57 | 0.90 | 190.36 | 1.39 | 0.73% | 0.734 | 0.50 | 257.27 | 1.57 | 1.00 | 200 | 0.824 | 0.96 | 0.161 | 0.463 | | 1.78 | 2.45 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.24 | 125.71 | 0.90 | 201.00 | 1.39 | 0.69% | 0.695 | 0.50 | 270.78 | 1.54 | 1.00 | 200 | 0.824 | 0.96 | 0.163 | 0.464 | | 1.78 | 2.45 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.32 | 125.96 | 0.91 | 209.50 | 1.42 | 0.68% | 0.681 | 0.50 | 281.31 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.166 | 0.465 | | 1.77 | 2.44 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.37 | 126.16 | 0.91 | 214.38 | 1.45 | 0.68% | 0.679 | 0.50 | 287.27 | 1.51 | 1.00 | 200 | 0.824 | 0.96 | 0.168 | 0.465 | | 1.77 | 2.44 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.44 | 126.43 | 0.92 | 222.19 | 1.49 | 0.67% | 0.673 | 0.50 | 296.88 | 1.50 | 1.00 | 200 | 0.824 | 0.96 | 0.170 | 0.466 | | 1.77 | 2.43 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.50 | 126.58 | 0.92 | 226.19 | 1.51 | 0.67% | 0.670 | 0.50 | 301.46 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.172 | 0.467 | | 1.77 | 2.43 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.57 | 127.25 | 0.92 | 231.27 | 1.64 | 0.71% | 0.712 | 0.50 | 307.32 | 1.50 | 1.00 | 200 | 0.824 | 0.96 | 0.174 | 0.467 | | 1.76 | 2.43 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.64 | 127.42 | 0.93 | 236.25 | 1.67 | 0.71% | 0.710 | 0.50 | 313.01 | 1.50 | 1.00 | 200 | 0.824 | 0.96 | 0.176 | 0.468 | | 1.76 | 2.42 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.69 | 126.84 | 0.93 | 240.44 | 1.53 | 0.64% | 0.639 | 0.50 | 317.90 | 1.46 | 1.00 | 200 | 0.824 | 0.96 | 0.178 | 0.469 | | 1.76 | 2.42 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.77 | 126.85 | 0.94 | 244.15 | 1.53 | 0.63% | 0.629 | 0.50 | 321.71 | 1.45 | 1.00 | 200 | 0.824 | 0.96 | 0.180 | 0.469 | | 1.76 | 2.42 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.81 | 126.95 | 0.94 | 245.32 | 1.54 | 0.63% | 0.630 | 0.50 | 322.71 | 1.45 | 1.00 | 200 | 0.824 | 0.96 | 0.181 | 0.470 | | 1.75 | 2.41 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.91 | 125.27 | 0.94 | 245.71 | 1.23 | 0.50% | 0.503 | 0.50 | 321.88 | 1.38 | 1.00 | 200 | 0.824 | 0.96 | 0.184 | 0.471 | | 1.75 | 2.41 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 15.95 | 124.31 | 0.95 | 246.20 | 1.08 | 0.44% | 0.440 | 0.50 | 321.99 | 1.34 | 1.00 | 200 | 0.824 | 0.96 | 0.186 | 0.471 | | 1.75 | 2.41 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.04 | 124.99 | 0.95 | 245.91 | 1.18 | 0.48% | 0.482 | 0.50 | 320.42 | 1.37 | 1.00 | 200 | 0.824 | 0.96 | 0.188 | 0.472 | | 1.74 | 2.40 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.08 | 125.34 | 0.96 | 244.64 | 1.24 | 0.51% | 0.509 | 0.50 | 318.23 | 1.39 | 1.00 | 200 | 0.824 | 0.96 | 0.190 | 0.473 | | 1.74 | 2.40 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.15 | 125.70 | 0.96 | 243.76 | 1.30 | 0.53% | 0.535 | 0.50 | 316.16 | 1.40 | 1.00 | 200 | 0.824 | 0.96 | 0.192 | 0.473 | | 1.74 | 2.39 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.21 | 125.99 | 0.96 | 242.69 | 1.36 | 0.56% | 0.563 | 0.50 | 313.98 | 1.42 | 1.00 | 200 | 0.824 | 0.96 | 0.194 | 0.474 | | 1.74 | 2.39 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.29 | 126.16 | 0.97 | 241.57 | 1.39 | 0.58% | 0.578 | 0.50 | 311.49 | 1.43 | 1.00 | 200 | 0.824 | 0.96 | 0.196 | 0.475 | | 1.74 | 2.39 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.35 | 126.44 | 0.97 | 243.47 | 1.44 | 0.59% | 0.594 | 0.50 | 313.17 | 1.44 | 1.00 | 200 | 0.824 | 0.96 | 0.198 | 0.476 | | 1.73 | 2.38 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.43 | 126.92 | 0.98 | 240.44 | 1.55 | 0.64% | 0.647 | 0.50 | 308.22 | 1.47 | 1.00 | 200 | 0.824 | 0.96 | 0.201 | 0.476 | | 1.73 | 2.38 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.49 | 127.27 | 0.98 | 244.25 | 1.62 | 0.66% | 0.666 | 0.50 | 312.34 | 1.47 | 1.00 | 200 | 0.824 | 0.96 | 0.202 | 0.477 | | 1.73 | 2.38 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.56 | 127.69 | 0.99 | 247.18 | 1.70 | 0.69% | 0.691 | 0.50 | 315.17 | 1.48 | 1.00 | 200 | 0.824 | 0.96 | 0.205 | 0.478 | | 1.73 | 2.37 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.63 | 128.01 | 0.99 | 249.23 | 1.77 | 0.71% | 0.713 | 0.50 | 316.85 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.207 | 0.478 | | 1.72 | 2.37 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.67 | 128.17 | 0.99 | 251.57 | 1.81 | 0.72% | 0.722 | 0.50 | 319.30 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.208 | 0.479 | | 1.72 | 2.37 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.75 | 128.95 | 1.00 | 255.09 | 2.00 | 0.78% | 0.787 | 0.50 | 322.69 | 1.51 | 1.00 | 200 | 0.824 | 0.96 | 0.211 | 0.479 | | 1.72 | 2.36 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.80 | 129.13 | 1.00 | 257.04 | 2.05 | 0.80% | 0.801 | 0.50 | 324.47 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.212 | 0.480 | | 1.72 | 2.36 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.87 | 128.66 | 1.01 | 259.19 | 1.91 | 0.74% | 0.740 | 0.50 | 326.23 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.214 | 0.481 | | 1.71 | 2.36 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 16.94 | 128.69 | 1.01 | 260.16 | 1.92 | 0.74% | 0.741 | 0.50 | 326.49 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.217 | 0.481 | | 1.71 | 2.36 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.03 | 128.71 | 1.02 | 261.14 | 1.92 | 0.74% | 0.738 | 0.50 | 326.49 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.219 | 0.482 | | 1.71 | 2.35 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.07 | 128.73 | 1.02 | 261.63 | 1.93 | 0.74% | 0.741 | 0.50 | 326.56 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.221 | 0.482 | | 1.71 | 2.35 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.13 | 128.79 | 1.02 | 261.48 | 1.94 | 0.74% | 0.745 | 0.50 | 325.56 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.222 | 0.483 | | 1.71 | 2.35 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.20 | 128.87 | 1.03 | 261.33 | 1.96 | 0.75% | 0.753 | 0.50 | 324.42 | 1.49 | 1.00 | 200 | 0.824 | 0.96 | 0.225 | 0.484 | | 1.70 | 2.34 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.30 | 129.03 | 1.03 | 260.75 | 2.01 | 0.77% | 0.774 | 0.50 | 322.35 | 1.50 | 1.00 | 200 | 0.824 | 0.96 | 0.228 | 0.485 | | 1.70 | 2.34 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.33 | 129.09 | 1.04 | 260.46 | 2.03 | 0.78% | 0.783 | 0.50 | 321.59 | 1.51 | 1.00 | 200 | 0.824 | 0.96 | 0.229 | 0.485 | | 1.70 | 2.34 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.43 | 129.24 | 1.04 | 259.68 | 2.07 | 0.80% | 0.800 | 0.50 | 319.29 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.232 | 0.486 | | 1.70 | 2.33 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.47 | 129.25 | 1.04 | 258.70 | 2.08 | 0.80% | 0.807 | 0.50 | 317.55 | 1.52 | 1.00 | 200 | 0.824 | 0.96 | 0.233 | 0.486 | | 1.70 | 2.33 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.53 | 129.25 | 1.05 | 257.14 | 2.08 | 0.81% | 0.812 | 0.50 | 314.85 | 1.53 | 1.00 | 200 | 0.824 | 0.96 | 0.235 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.61 | 129.30 | 1.05 | 255.77 | 2.10 | 0.82% | 0.824 | 0.50 | 312.13 | 1.53 | 1.00 | 200 | 0.824 | 0.96 | 0.237 | 0.487 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.67 | 129.32 | 1.06 | 252.94 | 2.11 | 0.83% | 0.838 | 0.50 | 307.90 | 1.54 | 1.00 | 200 | 0.824 | 0.96 | 0.239 | 0.488 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.74 | 129.35 | 1.06 | 249.91 | 2.13 | 0.85% | 0.856 | 0.50 | 303.32 | 1.55 | 1.00 | 200 | 0.824 | 0.96 | 0.241 | 0.488 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.80 | 129.29 | 1.07 | 245.62 | 2.12 | 0.86% | 0.867 | 0.50 | 297.36 | 1.56 | 1.00 | 200 | 0.824 | 0.96 | 0.243 | 0.489 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.88 | 129.08 | 1.07 | 242.20 | 2.07 | 0.85% | 0.858 | 0.50 | 292.25 | 1.56 | 1.00 | 200 | 0.824 | 0.96 | 0.246 | 0.490 | | 1.68 | 2.32 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 17.93 | 128.85 | 1.07 | 237.12 | 2.02 | 0.85% | 0.856 | 0.50 | 285.51 | 1.57 | 1.00 | 200 | 0.824 | 0.96 | 0.247 | 0.490 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 18.01 | 128.59 | 1.08 | 230.68 | 1.97 | 0.85% | 0.858 | 0.50 | 276.83 | 1.58 | 1.00 | 200 | 0.824 | 0.96 | 0.250 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 18.05 | 128.46 | 1.08 | 223.65 | 1.96 | 0.88% | 0.881 | 0.50 | 267.93 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.251 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 18.12 | 128.03 | 1.09 | 216.82 | 1.86 | 0.86% | 0.862 | 0.50 | 258.98 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.253 | 0.492 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 18.19 | 127.45 | 1.09 | 209.20 | 1.74 | 0.83% | 0.836 | 0.50 | 249.15 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.256 | 0.492 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 18.25 | 126.92 | 1.09 | 202.08 | 1.64 | 0.81% | 0.816 | 0.50 | 240.06 | 1.60 | 1.00 | 200 | 0.824 | 0.96 | 0.257 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 18.32 | 126.44 | 1.10 | 191.05 | 1.57 | 0.82% | 0.827 | 0.50 | 226.28 | 1.63 | 1.00 | 200 | 0.824 | 0.96 | 0.260 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 18.41 | 120.33 | 1.10 | 177.38 | 0.70 | 0.39% | 0.397 | 0.50 | 209.34 | 1.45 | 1.00 | 188 | 0.702 | 0.96 | 0.262 | 0.494 | | 1.42 | 1.95 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 18.45 | 120.24 | 1.11 | 170.84 | 0.70 | 0.41% | 0.412 | 0.50 | 201.29 | 1.47 | 1.00 | 181 | 0.634 | 0.96 | 0.264 | 0.494 | | 1.28 | 1.76 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 18.52 | 120.29 | 1.11 | 158.34 | 0.72 | 0.45% | 0.458 | 0.50 | 186.01 | 1.53 | 1.00 | 168 | 0.519 | 0.96 | 0.266 | 0.495 | | 1.05 | 1.44 | | 0.000 | 0.000 | 0.000 | 4.876 | 0.000 | | |
| 18.59 | 120.85 | 1.12 | 147.31 | 0.80 | 0.54% | 0.547 | 0.50 | 172.54 | 1.60 | 1.00 | 156 | 0.431 | 0.96 | 0.268 | 0.496 | | 0.87 | 1.20 | <= | 0.409 | 0.003 | 0.000 | 4.876 | 0.000 | 18.52 | 18.59 |
| 18.68 | 122.21 | 1.12 | 138.43 | 0.98 | 0.71% | 0.714 | 0.51 | 161.54 | 1.69 | 1.03 | 151 | 0.400 | 0.96 | 0.271 | 0.496 | | 0.81 | 1.11 | <= | 0.310 | 0.003 | 0.000 | 4.872 | 0.000 | 18.59 | 18.68 |
| 18.71 | 120.76 | 1.12 | 64.43 | 1.04 | 1.61% | 1.643 | 0.66 | 74.40 | 2.17 | 1.60 | 111 | 0.207 | 0.96 | 0.272 | 0.497 | | 0.42 | 0.57 | <= | 2.120 | 0.008 | 0.000 | 4.869 | 0.000 | 18.68 | 18.71 |
| 18.77 | 122.94 | 1.13 | 118.81 | 1.14 | 0.96% | 0.969 | 0.56 | 138.02 | 1.82 | 1.12 | 142 | 0.347 | 0.96 | 0.274 | 0.497 | | 0.70 | 0.96 | <= | 0.804 | 0.006 | 0.000 | 4.861 | 0.000 | 18.71 | 18.77 |
| 18.86 | 124.06 | 1.13 | 115.98 | 1.34 | 1.16% | 1.167 | 0.57 | 134.25 | 1.89 | 1.18 | 145 | 0.365 | 0.96 | 0.276 | 0.498 | | 0.73 | 1.01 | <= | 0.447 | 0.005 | 0.000 | 4.856 | 0.000 | 18.77 | 18.86 |
| 18.95 | 124.93 | 1.14 | 111.29 | 1.53 | 1.37% | 1.389 | 0.59 | 128.34 | 1.95 | 1.24 | 147 | 0.377 | 0.96 | 0.279 | 0.499 | | 0.76 | 1.04 | <= | 0.502 | 0.005 | 0.000 | 4.851 | 0.000 | 18.86 | 18.95 |
| 18.98 | 125.06 | 1.14 | 108.17 | 1.57 | 1.45% | 1.467 | 0.60 | 124.57 | 1.98 | 1.27 | 147 | 0.373 | 0.96 | 0.280 | 0.499 | | 0.75 | 1.03 | <= | 0.482 | 0.002 | 0.000 | 4.845 | 0.000 | 18.95 | 18.98 |
| 19.03 | 125.30 | 1.14 | 102.99 | 1.65 | 1.60% | 1.620 | 0.61 | 118.32 | 2.02 | 1.33 | 146 | 0.370 | 0.95 | 0.282 | 0.499 | | 0.74 | 1.02 | <= | 0.468 | 0.003 | 0.000 | 4.844 | 0.000 | 18.98 | 19.03 |
| 19.10 | 125.40 | 1.15 | 97.52 | 1.70 | 1.74% | 1.764 | 0.63 | 111.67 | 2.06 | 1.39 | 145 | 0.364 | 0.95 | 0.284 | 0.500 | | 0.73 | 1.00 | <= | 0.437 | 0.004 | 0.000 | 4.841 | 0.000 | 19.03 | 19.10 |
| 19.17 | 125.32 | 1.15 | 91.86 | 1.72 | 1.87% | 1.896 | 0.64 | 104.84 | 2.10 | 1.46 | 144 | 0.355 | 0.95 | 0.286 | 0.500 | | 0.71 | 0.98 | <= | 0.839 | 0.007 | 0.000 | 4.837 | 0.000 | 19.10 | 19.17 |
| 19.24 | 125.17 | 1.16 | 85.91 | 1.72 | 2.00% | 2.029 | 0.65 | 97.71 | 2.15 | 1.54 | 142 | 0.344 | 0.95 | 0.288 | 0.501 | | 0.69 | 0.95 | <= | 0.768 | 0.006 | 0.000 | 4.830 | 0.000 | 19.17 | 19.24 |
| 19.30 | 124.98 | 1.16 | 81.51 | 1.70 | 2.09% | 2.116 | 0.66 | 92.44 | 2.18 | 1.61 | 140 | 0.334 | 0.95 | 0.290 | 0.501 | | 0.67 | 0.92 | <= | 0.697 | 0.005 | 0.000 | 4.824 | 0.000 | 19.24 | 19.30 |
| 19.37 | 124.57 | 1.16 | 75.66 | 1.65 | 2.18% | 2.215 | 0.67 | 85.49 | 2.21 | 1.70 | 137 | 0.319 | 0.95 | 0.292 | 0.502 | | 0.64 | 0.87 | <= | 1.575 | 0.013 | 0.000 | 4.819 | 0.000 | 19.30 | 19.37 |
| 19.43 | 124.28 | 1.17 | 71.17 | 1.62 | 2.28% | 2.314 | 0.68 | 80.16 | 2.24 | 1.78 | 135 | 0.310 | 0.95 | 0.294 | 0.502 | | 0.62 | 0.85 | <= | 1.391 | 0.010 | 0.000 | 4.805 | 0.000 | 19.37 | 19.43 |
| 19.51 | 124.06 | 1.17 | 70.82 | 1.57 | 2.22% | 2.254 | 0.68 | 79.53 | 2.24 | 1.77 | 133 | 0.299 | 0.95 | 0.297 | 0.503 | | 0.59 | 0.82 | <= | 1.160 | 0.011 | 0.000 | 4.795 | 0.000 | 19.43 | 19.51 |
| 19.57 | 123.84 | 1.18 | 70.82 | 1.53 | 2.16% | 2.197 | 0.68 | 79.36 | 2.23 | 1.75 | 131 | 0.291 | 0.95 | 0.299 | 0.503 | | 0.58 | 0.79 | <= | 1.851 | 0.013 | 0.000 | 4.784 | 0.000 | 19.51 | 19.57 |
| 19.65 | 123.55 | 1.18 | 70.48 | 1.47 | 2.09% | 2.121 | 0.68 | 78.74 | 2.22 | 1.73 | 129 | 0.278 | 0.95 | 0.301 | 0.504 | | 0.55 | 0.76 | <= | 1.882 | 0.018 | 0.000 | 4.771 | 0.000 | 19.57 | 19.65 |
| 19.70 | 122.71 | 1.18 | 73.70 | 1.29 | 1.75% | 1.779 | 0.66 | 82.26 | 2.16 | 1.57 | 122 | 0.249 | 0.95 | 0.303 | 0.504 | | 0.49 | 0.68 | <= | 1.965 | 0.012 | 0.000 | 4.753 | 0.000 | 19.65 | 19.70 |
| 19.76 | 122.19 | 1.19 | 78.49 | 1.18 | 1.50% | 1.526 | 0.64 | 87.51 | 2.09 | 1.44 | 119 | 0.237 | 0.95 | 0.305 | 0.505 | | 0.47 | 0.65 | <= | 2.004 | 0.014 | 0.000 | 4.741 | 0.000 | 19.70 | 19.76 |
| 19.83 | 122.65 | 1.19 | 86.98 | 1.21 | 1.39% | 1.410 | 0.62 | 96.89 | 2.04 | 1.35 | 123 | 0.255 | 0.95 | 0.307 | 0.505 | | 0.50 | 0.69 | <= | 1.947 | 0.016 | 0.000 | 4.727 | 0.000 | 19.76 | 19.83 |
| 19.92 | 123.46 | 1.20 | 100.84 | 1.29 | 1.28% | 1.295 | 0.60 | 112.18 | 1.97 | 1.26 | 133 | 0.297 | 0.95 | 0.310 | 0.506 | | 0.59 | 0.81 | <= | 1.040 | 0.011 | 0.000 | 4.710 | 0.000 | 19.83 | 19.92 |
| 19.97 | 123.78 | 1.20 | 103.97 | 1.33 | 1.28% | 1.294 | 0.60 | 115.50 | 1.96 | 1.25 | 135 | 0.311 | 0.95 | 0.311 | 0.506 | | 0.61 | 0.84 | <= | 1.128 | 0.007 | 0.000 | 4.699 | 0.000 | 19.92 | 19.97 |
| 20.01 | 123.74 | 1.20 | 96.45 | 1.36 | 1.41% | 1.428 | 0.61 | 106.90 | 2.01 | 1.31 | 132 | 0.295 | 0.95 | 0.312 | 0.507 | | 0.58 | 0.80 | <= | 1.025 | 0.005 | 0.000 | 4.692 | 0.000 | 19.97 | 20.01 |
| 20.08 | 123.96 | 1.21 | 93.52 | 1.42 | 1.52% | 1.538 | 0.62 | 103.36 | 2.04 | 1.36 | 133 | 0.297 | 0.95 | 0.314 | 0.507 | | 0.59 | 0.81 | <= | 1.035 | 0.009 | 0.000 | 4.687 | 0.000 | 20.01 | 20.08 |
| 20.15 | 124.14 | 1.21 | 89.71 | 1.47 | 1.64% | 1.661 | 0.63 | 98.85 | 2.08 | 1.42 | 133 | 0.297 | 0.95 | 0.317 | 0.508 | | 0.58 | 0.80 | <= | 1.031 | 0.009 | 0.000 | 4.679 | 0.000 | 20.08 | 20.15 |
| 20.24 | 121.92 | 1.22 | 83.56 | 1.11 | 1.33% | 1.348 | 0.62 | 91.70 | 2.04 | 1.36 | 118 | 0.232 | 0.95 | 0.319 | 0.508 | | 0.46 | 0.63 | <= | 2.021 | 0.022 | 0.000 | 4.670 | 0.000 | 20.15 | 20.24 |
| 20.30 | 120.79 | 1.22 | 80.05 | 0.97 | 1.21% | 1.231 | 0.62 | 87.62 | 2.03 | 1.34 | 111 | 0.208 | 0.95 | 0.321 | 0.509 | | 0.41 | 0.56 | <= | 2.117 | 0.015 | 0.000 | 4.648 | 0.000 | 20.24 | 20.30 |
| 20.37 | 121.65 | 1.23 | 79.85 | 1.09 | 1.37% | 1.386 | 0.63 | 87.19 | 2.07 | 1.40 | 115 | 0.223 | 0.95 | 0.324 | 0.509 | | 0.44 | 0.60 | <= | 2.056 | 0.017 | 0.000 | 4.633 | 0.000 | 20.30 | 20.37 |
| 20.41 | 122.28 | 1.23 | 81.12 | 1.18 | 1.45% | 1.477 | 0.63 | 88.48 | 2.08 | 1.42 | 119 | 0.237 | 0.95 | 0.325 | 0.510 | | 0.46 | 0.64 | <= | 2.005 | 0.010 | 0.000 | 4.616 | 0.000 | 20.37 | 20.41 |
| 20.50 | 123.72 | 1.23 | 90.40 | 1.38 | 1.53% | 1.548 | 0.63 | 98.45 | 2.06 | 1.38 | 129 | 0.281 | 0.95 | 0.328 | 0.510 | | 0.55 | 0.76 | <= | 1.675 | 0.018 | 0.000 | 4.606 | 0.000 | 20.41 | 20.50 |
| 20.55 | 124.38 | 1.24 | 96.74 | 1.48 | 1.53% | 1.550 | 0.62 | 105.26 | 2.04 | 1.35 | 135 | 0.309 | 0.95 | 0.329 | 0.511 | | 0.61 | 0.83 | <= | 1.096 | 0.007 | 0.000 | 4.588 | 0.000 | 20.50 | 20.55 |
| 20.61 | 125.03 | 1.24 | 93.42 | 1.64 | 1.76% | 1.779 | 0.63 | 101.39 | 2.09 | 1.44 | 139 | 0.328 | 0.95 | 0.331 | 0.511 | | 0.64 | 0.88 | <= | 1.210 | 0.009 | 0.000 | 4.581 | 0.000 | 20.55 | 20.61 |
| 20.68 | 125.80 | 1.24 | 103.77 | 1.76 | 1.70% | 1.717 | 0.62 | 112.49 | 2.05 | 1.37 | 146 | 0.371 | 0.95 | 0.333 | 0.512 | | 0.73 | 1.00 | <= | 0.874 | 0.007 | 0.000 | 4.573 | 0.000 | 20.61 | 20.68 |
| 20.77 | 126.48 | 1.25 | 112.56 | 1.88 | 1.67% | 1.689 | 0.61 | 121.75 | 2.02 | 1.32 | 153 | 0.416 | 0.95 | 0.336 | 0.512 | | 0.81 | 1.12 | <= | 0.317 | 0.003 | 0.000 | 4.565 | 0.000 | 20.68 | 20.77 |
| 20.81 | 126.69 | 1.25 | 117.54 | 1.90 | 1.62% | 1.634 | 0.61 | 127.01 | 2.00 | 1.29 | 156 | 0.435 | 0.95 | 0.337 | 0.512 | | 0.85 | 1.17 | <= | 0.373 | 0.002 | 0.000 | 4.562 | 0.000 | 20.77 | 20.81 |
| 20.90 | 127.03 | 1.26 | 122.71 | 1.97 | 1.61% | 1.622 | 0.60 | 132.23 | 1.98 | 1.28 | 161 | 0.465 | 0.95 | 0.340 | 0.513 | | 0.91 | 1.25 | <= | 0.242 | 0.003 | 0.000 | 4.560 | 0.000 | 20.81 | 20.90 |
| 20.95 | 127.31 | 1.26 | 127.30 | 2.02 | 1.59% | 1.603 | 0.60 | 136.98 | 1.97 | 1.26 | 164 | 0.491 | 0.95 | 0.342 | 0.513 | | 0.96 | 1.32 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.04 | 128.11 | 1.27 | 137.55 | 2.19 | 1.59% | 1.607 | 0.59 | 147.64 | 1.94 | 1.23 | 173 | 0.566 | 0.95 | 0.344 | 0.514 | | 1.10 | 1.51 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.09 | 128.54 | 1.27 | 147.31 | 2.27 | 1.54% | 1.554 | 0.58 | 157.93 | 1.91 | 1.20 | 181 | 0.630 | 0.95 | 0.346 | 0.514 | | 1.22 | 1.68 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.13 | 128.96 | 1.27 | 158.83 | 2.35 | 1.48% | 1.492 | 0.57 | 170.14 | 1.88 | 1.17 | 189 | 0.712 | 0.95 | 0.347 | 0.514 | | 1.38 | 1.90 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.22 | 129.48 | 1.28 | 174.26 | 2.44 | 1.40% | 1.411 | 0.56 | 186.19 | 1.84 | 1.13 | 201 | 0.832 | 0.95 | 0.350 | 0.515 | | 1.62 | 2.22 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.26 | 129.67 | 1.28 | 182.55 | 2.47 | 1.35% | 1.363 | 0.55 | 194.83 | 1.81 | 1.11 | 207 | 0.900 | 0.95 | 0.351 | 0.515 | | 1.75 | 2.40 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.33 | 129.76 | 1.29 | 191.63 | 2.46 | 1.28% | 1.292 | 0.54 | 204.07 | 1.78 | 1.09 | 212 | 0.968 | 0.95 | 0.353 | 0.516 | | 1.88 | 2.58 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.39 | 129.79 | 1.29 | 197.59 | 2.45 | 1.24% | 1.248 | 0.54 | 210.00 | 1.76 | 1.08 | 216 | 1.012 | 0.95 | 0.355 | 0.516 | | 1.96 | 2.70 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.49 | 129.84 | 1.30 | 201.49 | 2.45 | 1.22% | 1.224 | 0.53 | 213.39 | 1.75 | 1.07 | 214 | 0.994 | 0.95 | 0.358 | 0.517 | | 1.92 | 2.65 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.53 | 129.89 | 1.30 | 205.20 | 2.45 | 1.19% | 1.202 | 0.53 | 217.03 | 1.74 | 1.06 | 213 | 0.975 | 0.95 | 0.360 | 0.517 | | 1.89 | 2.60 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.62 | 130.14 | 1.31 | 213.79 | 2.50 | 1.17% | 1.177 | 0.52 | 225.44 | 1.72 | 1.05 | 210 | 0.945 | 0.95 | 0.363 | 0.517 | | 1.83 | 2.51 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.66 | 130.29 | 1.31 | 218.48 | 2.53 | 1.16% | 1.165 | 0.52 | 230.08 | 1.71 | 1.05 | 209 | 0.930 | 0.95 | 0.364 | 0.518 | | 1.80 | 2.47 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.75 | 130.58 | 1.31 | 223.16 | 2.61 | 1.17% | 1.176 | 0.52 | 234.27 | 1.71 | 1.04 | 209 | 0.926 | 0.95 | 0.367 | 0.518 | | 1.79 | 2.46 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.79 | 130.71 | 1.32 | 224.43 | 2.66 | 1.19% | 1.192 | 0.52 | 235.27 | 1.71 | 1.05 | 209 | 0.931 | 0.95 | 0.368 | 0.518 | | 1.80 | 2.47 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.88 | 130.83 | 1.32 | 223.55 | 2.70 | 1.21% | 1.215 | 0.52 | 233.58 | 1.72 | 1.05 | 210 | 0.944 | 0.95 | 0.371 | 0.519 | | 1.82 | 2.50 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.93 | 130.79 | 1.33 | 222.09 | 2.70 | 1.22% | 1.223 | 0.53 | 231.62 | 1.72 | 1.05 | 211 | 0.951 | 0.95 | 0.372 | 0.519 | | 1.83 | 2.52 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 21.99 | 130.68 | 1.33 | 220.43 | 2.66 | 1.21% | 1.214 | 0.53 | 229.38 | 1.72 | 1.05 | 211 | 0.951 | 0.95 | 0.374 | 0.520 | | 1.83 | 2.52 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.07 | 130.52 | 1.33 | 218.97 | 2.61 | 1.19% | 1.199 | 0.52 | 227.20 | 1.72 | 1.05 | 211 | 0.948 | 0.95 | 0.377 | 0.520 | | 1.82 | 2.51 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.14 | 130.50 | 1.34 | 217.11 | 2.61 | 1.20% | 1.210 | 0.53 | 224.69 | 1.73 | 1.06 | 211 | 0.957 | 0.95 | 0.379 | 0.520 | | 1.84 | 2.53 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.19 | 130.48 | 1.34 | 215.06 | 2.61 | 1.21% | 1.221 | 0.53 | 222.16 | 1.73 | 1.06 | 212 | 0.968 | 0.95 | 0.380 | 0.521 | | 1.86 | 2.56 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.25 | 130.47 | 1.35 | 212.13 | 2.62 | 1.24% | 1.243 | 0.53 | 218.65 | 1.74 | 1.07 | 213 | 0.985 | 0.95 | 0.382 | 0.521 | | 1.89 | 2.60 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.32 | 130.66 | 1.35 | 209.89 | 2.70 | 1.29% | 1.295 | 0.54 | 215.79 | 1.76 | 1.08 | 216 | 1.014 | 0.95 | 0.384 | 0.521 | | 1.94 | 2.68 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.38 | 129.86 | 1.35 | 207.35 | 2.43 | 1.17% | 1.180 | 0.53 | 212.71 | 1.73 | 1.06 | 212 | 0.968 | 0.95 | 0.386 | 0.522 | | 1.86 | 2.55 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.47 | 128.71 | 1.36 | 204.91 | 2.09 | 1.02% | 1.027 | 0.52 | 209.54 | 1.69 | 1.03 | 207 | 0.902 | 0.95 | 0.389 | 0.522 | | 1.73 | 2.38 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.56 | 128.93 | 1.37 | 205.69 | 2.14 | 1.04% | 1.047 | 0.52 | 209.69 | 1.70 | 1.04 | 208 | 0.911 | 0.95 | 0.392 | 0.523 | | 1.74 | 2.40 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.58 | 128.94 | 1.37 | 206.18 | 2.15 | 1.04% | 1.050 | 0.52 | 210.05 | 1.70 | 1.04 | 208 | 0.911 | 0.95 | 0.392 | 0.523 | | 1.74 | 2.40 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.64 | 128.98 | 1.37 | 206.28 | 2.16 | 1.05% | 1.054 | 0.52 | 209.71 | 1.70 | 1.04 | 208 | 0.914 | 0.95 | 0.394 | 0.523 | | 1.75 | 2.40 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.71 | 128.76 | 1.38 | 198.56 | 2.12 | 1.07% | 1.075 | 0.52 | 201.33 | 1.72 | 1.05 | 206 | 0.888 | 0.95 | 0.397 | 0.524 | | 1.70 | 2.33 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.78 | 128.64 | 1.38 | 205.59 | 2.06 | 1.00% | 1.009 | 0.51 | 208.01 | 1.69 | 1.03 | 206 | 0.894 | 0.95 | 0.399 | 0.524 | | 1.71 | 2.35 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.86 | 128.45 | 1.39 | 202.76 | 2.02 | 1.00% | 1.003 | 0.52 | 204.57 | 1.69 | 1.03 | 206 | 0.889 | 0.95 | 0.401 | 0.524 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 22.90 | 128.45 | 1.39 | 204.91 | 2.01 | 0.98% | 0.988 | 0.51 | 206.48 | 1.68 | 1.03 | 205 | 0.886 | 0.95 | 0.402 | 0.525 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 23.00 | 128.44 | 1.39 | 205.10 | 2.01 | 0.98% | 0.987 | 0.51 | 205.97 | 1.68 | 1.03 | 205 | 0.886 | 0.95 | 0.406 | 0.525 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 23.04 | 128.43 | 1.40 | 204.13 | 2.01 | 0.98% | 0.991 | 0.51 | 204.72 | 1.69 | 1.03 | 206 | 0.890 | 0.95 | 0.407 | 0.525 | | 1.69 | 2.33 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 23.11 | 128.42 | 1.40 | 200.91 | 2.02 | 1.01% | 1.012 | 0.52 | 200.99 | 1.70 | 1.04 | 204 | 0.867 | 0.95 | 0.409 | 0.526 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 23.17 | 128.38 | 1.41 | 196.12 | 2.02 | 1.03% | 1.037 | 0.52 | 195.77 | 1.71 | 1.05 | 201 | 0.832 | 0.95 | 0.411 | 0.526 | | 1.58 | 2.18 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 23.27 | 128.14 | 1.41 | 186.75 | 1.99 | 1.07% | 1.074 | 0.53 | 185.73 | 1.74 | 1.06 | 194 | 0.759 | 0.94 | 0.414 | 0.527 | | 1.44 | 1.98 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 23.30 | 128.03 | 1.41 | 181.77 | 1.98 | 1.09% | 1.098 | 0.53 | 180.56 | 1.76 | 1.08 | 191 | 0.723 | 0.94 | 0.415 | 0.527 | | 1.37 | 1.89 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 23.40 | 127.77 | 1.42 | 168.89 | 1.96 | 1.16% | 1.170 | 0.55 | 167.11 | 1.80 | 1.11 | 182 | 0.637 | 0.94 | 0.418 | 0.527 | | 1.21 | 1.66 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 23.45 | 127.68 | 1.42 | 157.46 | 1.98 | 1.26% | 1.269 | 0.56 | 155.45 | 1.84 | 1.14 | 175 | 0.575 | 0.94 | 0.420 | 0.528 | | 1.09 | 1.50 | | 0.000 | 0.000 | 0.000 | 4.557 | 0.000 | | |
| 23.52 | 127.45 | 1.43 | 138.14 | 2.00 | 1.45% | 1.463 | 0.59 | 135.89 | 1.93 | 1.22 | 163 | 0.484 | 0.94 | 0.422 | 0.528 | | 0.92 | 1.26 | <= | 0.253 | 0.002 | 0.000 | 4.557 | 0.000 | 23.45 | 23.52 |
| 23.56 | 127.29 | 1.43 | 127.01 | 2.02 | 1.59% | 1.609 | 0.60 | 124.66 | 1.98 | 1.28 | 158 | 0.444 | 0.94 | 0.423 | 0.528 | | 0.84 | 1.16 | <= | 0.358 | 0.002 | 0.000 | 4.555 | 0.000 | 23.52 | 23.56 |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-5

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft) 1    MAGNITUDE: 6.62    MAGNITUDE SCALING FACTOR: 1.38

GROUNDWATER LEVEL: 10 feet    ACCELERATION: 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.65 | 126.77 | 1.44 | 97.82 | 2.05 | 2.10% | 2.127 | 0.65 | 95.41 | 2.15 | 1.56 | 147 | 0.375 | 0.94 | 0.426 | 0.529 | | 0.71 | **0.98** | <= | 0.815 | 0.009 | 0.000 | 4.554 | 0.000 | 23.56 | 23.65 |
| 23.71 | 126.34 | 1.44 | 81.32 | 2.05 | 2.52% | 2.566 | 0.69 | 78.92 | 2.27 | 1.85 | 145 | 0.361 | 0.94 | 0.428 | 0.529 | | 0.68 | **0.94** | <= | 0.731 | 0.005 | 0.000 | 4.545 | 0.000 | 23.65 | 23.71 |
| 23.76 | 126.09 | 1.44 | 73.02 | 2.05 | 2.81% | 2.864 | 0.71 | 70.61 | 2.33 | 2.07 | 145 | 0.362 | 0.94 | 0.429 | 0.529 | | 0.68 | **0.94** | <= | 0.735 | 0.004 | 0.000 | 4.540 | 0.000 | 23.71 | 23.76 |
| 23.84 | 126.02 | 1.45 | 66.97 | 2.09 | 3.12% | 3.190 | 0.73 | 64.47 | 2.40 | 2.29 | 147 | 0.375 | 0.94 | 0.432 | 0.530 | | 0.71 | **0.97** | <= | 0.808 | 0.008 | 0.000 | 4.535 | 0.000 | 23.76 | 23.84 |
| 23.89 | 126.16 | 1.45 | 67.65 | 2.13 | 3.15% | 3.218 | 0.73 | 65.04 | 2.40 | 2.29 | 148 | 0.383 | 0.94 | 0.433 | 0.530 | | 0.72 | **1.00** | <= | 0.850 | 0.005 | 0.000 | 4.527 | 0.000 | 23.84 | 23.89 |
| 23.97 | 126.26 | 1.46 | 64.53 | 2.19 | 3.39% | 3.472 | 0.74 | 61.81 | 2.43 | 2.46 | 151 | 0.401 | 0.94 | 0.436 | 0.530 | | 0.76 | **1.04** | <= | 0.494 | 0.005 | 0.000 | 4.522 | 0.000 | 23.89 | 23.97 |
| 24.02 | 126.22 | 1.46 | 63.26 | 2.19 | 3.46% | 3.544 | 0.74 | 60.47 | 2.45 | 2.52 | 151 | 0.403 | 0.94 | 0.437 | 0.530 | | 0.76 | **1.04** | <= | 0.500 | 0.003 | 0.000 | 4.517 | 0.000 | 23.97 | 24.02 |
| 24.11 | 125.32 | 1.47 | 56.13 | 2.02 | 3.60% | 3.695 | 0.76 | 53.34 | 2.50 | 2.76 | 147 | 0.373 | 0.94 | 0.440 | 0.531 | | 0.70 | **0.97** | <= | 1.327 | 0.014 | 0.000 | 4.514 | 0.000 | 24.02 | 24.11 |
| 24.16 | 125.17 | 1.47 | 63.84 | 1.90 | 2.98% | 3.046 | 0.73 | 60.76 | 2.40 | 2.31 | 140 | 0.333 | 0.94 | 0.442 | 0.531 | | 0.63 | **0.86** | <= | 1.455 | 0.009 | 0.000 | 4.500 | 0.000 | 24.11 | 24.16 |
| 24.23 | 123.75 | 1.47 | 50.08 | 1.69 | 3.37% | 3.477 | 0.76 | 47.26 | 2.52 | 2.85 | 134 | 0.305 | 0.94 | 0.444 | 0.532 | | 0.57 | **0.79** | <= | 1.818 | 0.015 | 0.000 | 4.491 | 0.000 | 24.16 | 24.23 |
| 24.33 | 123.78 | 1.48 | 64.43 | 1.56 | 2.42% | 2.478 | 0.71 | 61.02 | 2.33 | 2.06 | 126 | 0.264 | 0.94 | 0.447 | 0.532 | | 0.50 | **0.68** | <= | 1.920 | 0.023 | 0.000 | 4.476 | 0.000 | 24.23 | 24.33 |
| 24.38 | 124.39 | 1.48 | 81.90 | 1.57 | 1.92% | 1.952 | 0.66 | 77.83 | 2.19 | 1.63 | 127 | 0.270 | 0.94 | 0.449 | 0.532 | | 0.51 | **0.70** | <= | 1.905 | 0.011 | 0.000 | 4.453 | 0.000 | 24.33 | 24.38 |
| 24.42 | 125.02 | 1.48 | 104.85 | 1.57 | 1.50% | 1.519 | 0.62 | 99.92 | 2.03 | 1.34 | 134 | 0.304 | 0.94 | 0.450 | 0.533 | | 0.57 | **0.79** | <= | 1.748 | 0.008 | 0.000 | 4.442 | 0.000 | 24.38 | 24.42 |
| 24.48 | 126.03 | 1.49 | 140.19 | 1.64 | 1.17% | 1.182 | 0.57 | 133.83 | 1.86 | 1.16 | 155 | 0.424 | 0.94 | 0.452 | 0.533 | | 0.80 | **1.10** | <= | 0.579 | 0.004 | 0.000 | 4.433 | 0.000 | 24.42 | 24.48 |
| 24.55 | 126.86 | 1.49 | 164.88 | 1.74 | 1.06% | 1.065 | 0.54 | 157.31 | 1.78 | 1.09 | 172 | 0.553 | 0.94 | 0.454 | 0.533 | | 1.04 | **1.43** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 24.62 | 127.44 | 1.50 | 181.48 | 1.83 | 1.01% | 1.017 | 0.53 | 172.91 | 1.74 | 1.06 | 184 | 0.660 | 0.94 | 0.456 | 0.533 | | 1.24 | **1.70** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 24.68 | 128.20 | 1.50 | 190.27 | 1.99 | 1.05% | 1.054 | 0.53 | 181.01 | 1.74 | 1.06 | 192 | 0.743 | 0.94 | 0.458 | 0.534 | | 1.39 | **1.92** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 24.77 | 125.91 | 1.51 | 203.15 | 1.43 | 0.70% | 0.709 | 0.50 | 192.82 | 1.60 | 1.00 | 193 | 0.752 | 0.94 | 0.461 | 0.534 | | 1.41 | **1.94** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 24.82 | 125.16 | 1.51 | 207.74 | 1.28 | 0.62% | 0.621 | 0.50 | 196.92 | 1.55 | 1.00 | 198 | 0.798 | 0.94 | 0.462 | 0.534 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 24.87 | 125.85 | 1.51 | 211.55 | 1.40 | 0.66% | 0.667 | 0.50 | 200.25 | 1.57 | 1.00 | 200 | 0.824 | 0.94 | 0.464 | 0.535 | | 1.54 | **2.12** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 24.96 | 127.21 | 1.52 | 217.21 | 1.67 | 0.77% | 0.774 | 0.50 | 205.07 | 1.60 | 1.00 | 200 | 0.824 | 0.94 | 0.467 | 0.535 | | 1.54 | **2.12** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.00 | 127.74 | 1.52 | 217.99 | 1.79 | 0.82% | 0.827 | 0.50 | 205.55 | 1.62 | 1.00 | 200 | 0.824 | 0.94 | 0.468 | 0.535 | | 1.54 | **2.12** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.07 | 128.31 | 1.53 | 200.52 | 1.99 | 0.99% | 1.000 | 0.52 | 188.55 | 1.71 | 1.04 | 198 | 0.799 | 0.94 | 0.470 | 0.536 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.15 | 129.02 | 1.53 | 208.03 | 2.16 | 1.04% | 1.046 | 0.52 | 195.16 | 1.71 | 1.04 | 205 | 0.886 | 0.94 | 0.473 | 0.536 | | 1.65 | **2.27** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.22 | 129.57 | 1.54 | 211.25 | 2.32 | 1.10% | 1.106 | 0.52 | 197.76 | 1.72 | 1.05 | 210 | 0.943 | 0.94 | 0.475 | 0.536 | | 1.76 | **2.42** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.28 | 130.07 | 1.54 | 213.01 | 2.48 | 1.16% | 1.173 | 0.53 | 199.04 | 1.74 | 1.06 | 213 | 0.976 | 0.94 | 0.477 | 0.536 | | 1.82 | **2.50** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.35 | 130.54 | 1.54 | 213.89 | 2.64 | 1.23% | 1.243 | 0.54 | 199.41 | 1.76 | 1.08 | 215 | 1.008 | 0.94 | 0.479 | 0.537 | | 1.88 | **2.58** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.40 | 130.71 | 1.55 | 214.28 | 2.70 | 1.26% | 1.269 | 0.54 | 199.46 | 1.76 | 1.08 | 216 | 1.019 | 0.94 | 0.480 | 0.537 | | 1.90 | **2.61** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.48 | 130.91 | 1.55 | 215.35 | 2.77 | 1.29% | 1.296 | 0.54 | 199.94 | 1.77 | 1.08 | 217 | 1.029 | 0.94 | 0.483 | 0.537 | | 1.92 | **2.64** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.53 | 131.01 | 1.56 | 216.43 | 2.80 | 1.29% | 1.303 | 0.54 | 200.63 | 1.77 | 1.09 | 217 | 1.031 | 0.94 | 0.485 | 0.537 | | 1.92 | **2.64** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.61 | 131.19 | 1.56 | 217.40 | 2.87 | 1.32% | 1.330 | 0.54 | 201.01 | 1.78 | 1.09 | 218 | 1.041 | 0.94 | 0.487 | 0.538 | | 1.94 | **2.66** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.66 | 131.28 | 1.56 | 218.28 | 2.90 | 1.33% | 1.338 | 0.54 | 201.50 | 1.78 | 1.09 | 218 | 1.043 | 0.94 | 0.489 | 0.538 | | 1.94 | **2.67** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.72 | 131.42 | 1.57 | 221.02 | 2.94 | 1.33% | 1.340 | 0.54 | 203.66 | 1.77 | 1.09 | 218 | 1.038 | 0.94 | 0.490 | 0.538 | | 1.93 | **2.65** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.80 | 131.62 | 1.57 | 223.07 | 3.01 | 1.35% | 1.359 | 0.54 | 205.03 | 1.78 | 1.09 | 218 | 1.043 | 0.94 | 0.493 | 0.539 | | 1.94 | **2.66** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.86 | 131.80 | 1.58 | 226.87 | 3.07 | 1.35% | 1.363 | 0.54 | 208.14 | 1.77 | 1.09 | 217 | 1.036 | 0.94 | 0.495 | 0.539 | | 1.92 | **2.65** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.93 | 131.98 | 1.58 | 228.44 | 3.14 | 1.37% | 1.384 | 0.54 | 209.12 | 1.78 | 1.09 | 218 | 1.043 | 0.94 | 0.497 | 0.539 | | 1.93 | **2.66** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 25.99 | 132.13 | 1.59 | 229.31 | 3.20 | 1.40% | 1.405 | 0.54 | 209.51 | 1.78 | 1.09 | 219 | 1.051 | 0.94 | 0.499 | 0.539 | | 1.95 | **2.68** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.07 | 132.25 | 1.59 | 229.80 | 3.25 | 1.41% | 1.424 | 0.54 | 209.42 | 1.78 | 1.10 | 219 | 1.059 | 0.94 | 0.501 | 0.540 | | 1.96 | **2.70** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.12 | 132.29 | 1.59 | 229.12 | 3.28 | 1.43% | 1.442 | 0.54 | 208.46 | 1.79 | 1.10 | 220 | 1.069 | 0.94 | 0.503 | 0.540 | | 1.98 | **2.72** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.20 | 132.31 | 1.60 | 227.07 | 3.29 | 1.45% | 1.459 | 0.55 | 206.05 | 1.80 | 1.10 | 221 | 1.082 | 0.94 | 0.505 | 0.540 | | 2.00 | **2.76** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.26 | 132.30 | 1.60 | 224.82 | 3.30 | 1.47% | 1.478 | 0.55 | 203.60 | 1.80 | 1.11 | 222 | 1.097 | 0.94 | 0.507 | 0.540 | | 2.03 | **2.79** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.33 | 132.22 | 1.61 | 221.02 | 3.28 | 1.48% | 1.495 | 0.55 | 199.68 | 1.81 | 1.12 | 223 | 1.115 | 0.94 | 0.509 | 0.541 | | 2.06 | **2.84** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.38 | 132.15 | 1.61 | 218.58 | 3.26 | 1.49% | 1.503 | 0.55 | 197.14 | 1.82 | 1.12 | 224 | 1.126 | 0.94 | 0.511 | 0.541 | | 2.08 | **2.87** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.45 | 132.03 | 1.62 | 214.77 | 3.23 | 1.50% | 1.515 | 0.56 | 193.25 | 1.83 | 1.13 | 223 | 1.118 | 0.94 | 0.513 | 0.541 | | 2.07 | **2.84** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.52 | 131.89 | 1.62 | 211.06 | 3.19 | 1.51% | 1.523 | 0.56 | 189.46 | 1.83 | 1.13 | 220 | 1.075 | 0.94 | 0.515 | 0.541 | | 1.99 | **2.73** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.60 | 131.73 | 1.63 | 208.62 | 3.13 | 1.50% | 1.512 | 0.56 | 186.78 | 1.83 | 1.13 | 218 | 1.039 | 0.94 | 0.518 | 0.542 | | 1.92 | **2.64** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.65 | 131.66 | 1.63 | 208.67 | 3.10 | 1.49% | 1.497 | 0.56 | 186.53 | 1.83 | 1.13 | 217 | 1.031 | 0.94 | 0.519 | 0.542 | | 1.90 | **2.62** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.72 | 131.61 | 1.63 | 208.67 | 3.08 | 1.48% | 1.488 | 0.56 | 186.12 | 1.83 | 1.13 | 217 | 1.024 | 0.94 | 0.522 | 0.542 | | 1.89 | **2.60** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.80 | 131.61 | 1.64 | 208.72 | 3.08 | 1.48% | 1.487 | 0.56 | 185.70 | 1.83 | 1.13 | 216 | 1.021 | 0.94 | 0.524 | 0.542 | | 1.88 | **2.59** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.86 | 131.70 | 1.64 | 210.38 | 3.11 | 1.48% | 1.490 | 0.56 | 186.84 | 1.83 | 1.13 | 218 | 1.038 | 0.94 | 0.526 | 0.542 | | 1.91 | **2.63** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 26.91 | 131.96 | 1.65 | 212.91 | 3.21 | 1.51% | 1.519 | 0.56 | 188.81 | 1.83 | 1.13 | 221 | 1.078 | 0.94 | 0.528 | 0.543 | | 1.99 | **2.73** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.00 | 130.27 | 1.65 | 216.72 | 2.53 | 1.17% | 1.176 | 0.53 | 191.68 | 1.74 | 1.07 | 212 | 0.965 | 0.94 | 0.530 | 0.543 | | 1.78 | **2.45** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.05 | 129.32 | 1.66 | 217.70 | 2.22 | 1.02% | 1.028 | 0.52 | 192.27 | 1.70 | 1.04 | 207 | 0.905 | 0.94 | 0.532 | 0.543 | | 1.67 | **2.29** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.10 | 129.51 | 1.66 | 217.50 | 2.28 | 1.05% | 1.056 | 0.52 | 191.80 | 1.71 | 1.04 | 208 | 0.915 | 0.94 | 0.534 | 0.543 | | 1.68 | **2.32** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.17 | 129.83 | 1.66 | 215.94 | 2.39 | 1.11% | 1.115 | 0.53 | 190.01 | 1.73 | 1.06 | 209 | 0.925 | 0.94 | 0.536 | 0.544 | | 1.70 | **2.34** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.25 | 130.20 | 1.67 | 214.87 | 2.51 | 1.17% | 1.177 | 0.53 | 188.60 | 1.75 | 1.07 | 210 | 0.939 | 0.94 | 0.538 | 0.544 | | 1.73 | **2.37** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.31 | 130.37 | 1.67 | 212.57 | 2.58 | 1.21% | 1.223 | 0.54 | 186.23 | 1.76 | 1.08 | 209 | 0.933 | 0.94 | 0.540 | 0.544 | | 1.72 | **2.36** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.37 | 130.55 | 1.68 | 206.57 | 2.67 | 1.29% | 1.303 | 0.55 | 180.60 | 1.79 | 1.10 | 207 | 0.904 | 0.94 | 0.542 | 0.544 | | 1.66 | **2.28** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.43 | 130.86 | 1.68 | 210.28 | 2.77 | 1.32% | 1.328 | 0.55 | 183.54 | 1.79 | 1.10 | 211 | 0.949 | 0.93 | 0.544 | 0.545 | | 1.74 | **2.40** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.50 | 131.31 | 1.68 | 211.35 | 2.94 | 1.39% | 1.402 | 0.55 | 184.08 | 1.81 | 1.11 | 214 | 0.987 | 0.93 | 0.546 | 0.545 | | 1.81 | **2.49** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.58 | 131.65 | 1.69 | 212.33 | 3.08 | 1.45% | 1.462 | 0.56 | 184.49 | 1.82 | 1.12 | 216 | 1.020 | 0.93 | 0.548 | 0.545 | | 1.87 | **2.57** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.64 | 131.85 | 1.69 | 214.18 | 3.15 | 1.47% | 1.482 | 0.56 | 185.77 | 1.83 | 1.13 | 218 | 1.046 | 0.93 | 0.550 | 0.545 | | 1.92 | **2.64** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.73 | 132.08 | 1.70 | 219.06 | 3.23 | 1.47% | 1.486 | 0.55 | 189.51 | 1.82 | 1.12 | 222 | 1.099 | 0.93 | 0.553 | 0.546 | | 2.01 | **2.77** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.77 | 132.19 | 1.70 | 221.50 | 3.27 | 1.48% | 1.488 | 0.55 | 191.40 | 1.82 | 1.12 | 224 | 1.125 | 0.93 | 0.554 | 0.546 | | 2.06 | **2.84** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.83 | 132.30 | 1.71 | 224.34 | 3.30 | 1.47% | 1.482 | 0.55 | 193.52 | 1.81 | 1.12 | 223 | 1.116 | 0.93 | 0.556 | 0.546 | | 2.04 | **2.81** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.91 | 132.42 | 1.71 | 226.19 | 3.35 | 1.48% | 1.492 | 0.55 | 194.65 | 1.81 | 1.12 | 223 | 1.117 | 0.93 | 0.559 | 0.546 | | 2.04 | **2.81** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 27.97 | 132.51 | 1.72 | 227.95 | 3.38 | 1.48% | 1.494 | 0.55 | 195.81 | 1.81 | 1.12 | 223 | 1.113 | 0.93 | 0.561 | 0.546 | | 2.04 | **2.80** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.03 | 132.59 | 1.72 | 228.83 | 3.41 | 1.49% | 1.501 | 0.55 | 196.21 | 1.81 | 1.12 | 223 | 1.115 | 0.93 | 0.563 | 0.546 | | 2.04 | **2.81** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.09 | 132.68 | 1.72 | 229.90 | 3.45 | 1.50% | 1.512 | 0.55 | 196.78 | 1.81 | 1.12 | 223 | 1.118 | 0.93 | 0.564 | 0.547 | | 2.05 | **2.81** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.15 | 132.79 | 1.73 | 231.27 | 3.50 | 1.51% | 1.525 | 0.55 | 197.59 | 1.82 | 1.12 | 224 | 1.121 | 0.93 | 0.566 | 0.547 | | 2.05 | **2.82** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.22 | 132.87 | 1.73 | 232.54 | 3.53 | 1.52% | 1.529 | 0.55 | 198.26 | 1.82 | 1.12 | 224 | 1.121 | 0.93 | 0.568 | 0.547 | | 2.05 | **2.82** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.28 | 133.04 | 1.74 | 236.25 | 3.59 | 1.52% | 1.531 | 0.55 | 201.08 | 1.81 | 1.12 | 223 | 1.113 | 0.93 | 0.570 | 0.547 | | 2.03 | **2.80** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.36 | 133.27 | 1.74 | 241.52 | 3.68 | 1.52% | 1.535 | 0.55 | 205.10 | 1.81 | 1.11 | 222 | 1.103 | 0.93 | 0.573 | 0.547 | | 2.01 | **2.77** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.43 | 133.43 | 1.75 | 246.01 | 3.74 | 1.52% | 1.531 | 0.55 | 208.49 | 1.80 | 1.11 | 222 | 1.091 | 0.93 | 0.575 | 0.548 | | 1.99 | **2.74** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.49 | 133.56 | 1.75 | 248.84 | 3.79 | 1.52% | 1.534 | 0.55 | 210.52 | 1.80 | 1.11 | 221 | 1.087 | 0.93 | 0.577 | 0.548 | | 1.98 | **2.73** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.57 | 133.60 | 1.76 | 250.01 | 3.81 | 1.52% | 1.535 | 0.55 | 211.00 | 1.80 | 1.11 | 221 | 1.085 | 0.93 | 0.579 | 0.548 | | 1.98 | **2.72** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.62 | 133.65 | 1.76 | 250.11 | 3.83 | 1.53% | 1.542 | 0.55 | 210.76 | 1.80 | 1.11 | 221 | 1.089 | 0.93 | 0.581 | 0.548 | | 1.99 | **2.73** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.71 | 133.82 | 1.77 | 250.60 | 3.92 | 1.56% | 1.575 | 0.55 | 210.60 | 1.81 | 1.11 | 222 | 1.103 | 0.93 | 0.584 | 0.548 | | 2.01 | **2.77** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.75 | 133.83 | 1.77 | 250.89 | 3.92 | 1.56% | 1.574 | 0.55 | 210.59 | 1.81 | 1.11 | 222 | 1.102 | 0.93 | 0.585 | 0.549 | | 2.01 | **2.76** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.83 | 133.80 | 1.77 | 252.55 | 3.90 | 1.54% | 1.555 | 0.55 | 211.47 | 1.80 | 1.11 | 222 | 1.091 | 0.93 | 0.587 | 0.549 | | 1.99 | **2.74** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.89 | 133.69 | 1.78 | 254.31 | 3.83 | 1.51% | 1.517 | 0.55 | 212.57 | 1.79 | 1.10 | 220 | 1.071 | 0.93 | 0.589 | 0.549 | | 1.95 | **2.68** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 28.96 | 133.15 | 1.78 | 253.92 | 3.56 | 1.40% | 1.412 | 0.54 | 211.80 | 1.77 | 1.08 | 217 | 1.027 | 0.93 | 0.592 | 0.549 | | 1.87 | **2.57** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.02 | 132.04 | 1.79 | 250.99 | 3.07 | 1.22% | 1.232 | 0.53 | 208.97 | 1.73 | 1.05 | 211 | 0.953 | 0.93 | 0.593 | 0.549 | | 1.73 | **2.39** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.07 | 131.43 | 1.79 | 247.67 | 2.84 | 1.15% | 1.155 | 0.52 | 205.88 | 1.71 | 1.04 | 209 | 0.924 | 0.93 | 0.595 | 0.549 | | 1.68 | **2.31** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.16 | 130.87 | 1.80 | 246.50 | 2.63 | 1.07% | 1.075 | 0.51 | 204.37 | 1.69 | 1.03 | 206 | 0.889 | 0.93 | 0.598 | 0.550 | | 1.62 | **2.23** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.21 | 130.62 | 1.80 | 246.50 | 2.54 | 1.03% | 1.038 | 0.51 | 204.08 | 1.67 | 1.02 | 204 | 0.871 | 0.93 | 0.599 | 0.550 | | 1.58 | **2.18** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.29 | 130.15 | 1.80 | 246.79 | 2.39 | 0.97% | 0.976 | 0.50 | 203.85 | 1.65 | 1.01 | 201 | 0.839 | 0.93 | 0.602 | 0.550 | | 1.53 | **2.10** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.34 | 129.69 | 1.81 | 244.35 | 2.25 | 0.92% | 0.928 | 0.50 | 201.54 | 1.64 | 1.00 | 200 | 0.818 | 0.93 | 0.603 | 0.550 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.43 | 128.86 | 1.81 | 241.91 | 2.01 | 0.83% | 0.837 | 0.50 | 199.01 | 1.61 | 1.00 | 200 | 0.824 | 0.93 | 0.606 | 0.551 | | 1.50 | **2.06** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.48 | 128.38 | 1.82 | 243.47 | 1.88 | 0.77% | 0.778 | 0.50 | 200.03 | 1.59 | 1.00 | 200 | 0.824 | 0.93 | 0.608 | 0.551 | | 1.50 | **2.06** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.54 | 127.90 | 1.82 | 245.52 | 1.76 | 0.72% | 0.722 | 0.50 | 201.39 | 1.56 | 1.00 | 200 | 0.824 | 0.93 | 0.610 | 0.551 | | 1.50 | **2.06** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.60 | 127.67 | 1.82 | 248.16 | 1.70 | 0.69% | 0.690 | 0.50 | 203.24 | 1.55 | 1.00 | 200 | 0.824 | 0.93 | 0.612 | 0.551 | | 1.50 | **2.06** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.66 | 127.56 | 1.83 | 249.82 | 1.67 | 0.67% | 0.673 | 0.50 | 204.28 | 1.54 | 1.00 | 200 | 0.824 | 0.93 | 0.613 | 0.551 | | 1.49 | **2.06** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.75 | 125.16 | 1.83 | 253.33 | 1.20 | 0.47% | 0.477 | 0.50 | 206.69 | 1.44 | 1.00 | 200 | 0.824 | 0.93 | 0.616 | 0.552 | | 1.49 | **2.06** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.79 | 122.19 | 1.84 | 253.52 | 0.80 | 0.32% | 0.318 | 0.50 | 206.64 | 1.33 | 1.00 | 200 | 0.824 | 0.93 | 0.617 | 0.552 | | 1.49 | **2.06** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.86 | 122.37 | 1.84 | 255.48 | 0.81 | 0.32% | 0.319 | 0.50 | 207.89 | 1.33 | 1.00 | 200 | 0.824 | 0.93 | 0.620 | 0.552 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 29.93 | 123.03 | 1.84 | 254.21 | 0.89 | 0.35% | 0.353 | 0.50 | 206.48 | 1.36 | 1.00 | 200 | 0.824 | 0.93 | 0.622 | 0.552 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.02 | 123.56 | 1.85 | 253.82 | 0.96 | 0.38% | 0.381 | 0.50 | 205.70 | 1.38 | 1.00 | 200 | 0.824 | 0.93 | 0.625 | 0.554 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.06 | 123.87 | 1.85 | 254.50 | 1.00 | 0.39% | 0.396 | 0.50 | 206.04 | 1.39 | 1.00 | 200 | 0.824 | 0.93 | 0.626 | 0.554 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.13 | 124.24 | 1.86 | 252.94 | 1.05 | 0.42% | 0.418 | 0.50 | 204.41 | 1.40 | 1.00 | 200 | 0.824 | 0.93 | 0.628 | 0.554 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.19 | 124.47 | 1.86 | 254.26 | 1.09 | 0.43% | 0.432 | 0.50 | 205.17 | 1.41 | 1.00 | 200 | 0.824 | 0.93 | 0.630 | 0.554 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.28 | 124.62 | 1.87 | 254.01 | 1.11 | 0.44% | 0.440 | 0.50 | 204.49 | 1.42 | 1.00 | 200 | 0.824 | 0.93 | 0.633 | 0.554 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.32 | 124.65 | 1.87 | 253.72 | 1.11 | 0.44% | 0.441 | 0.50 | 204.05 | 1.42 | 1.00 | 200 | 0.824 | 0.93 | 0.634 | 0.554 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.40 | 124.37 | 1.87 | 250.50 | 1.08 | 0.43% | 0.434 | 0.50 | 201.03 | 1.42 | 1.00 | 200 | 0.824 | 0.93 | 0.636 | 0.554 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.45 | 123.60 | 1.88 | 246.79 | 0.97 | 0.39% | 0.396 | 0.50 | 197.79 | 1.40 | 1.00 | 200 | 0.824 | 0.93 | 0.638 | 0.554 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.52 | 121.09 | 1.88 | 241.32 | 0.70 | 0.29% | 0.292 | 0.50 | 193.04 | 1.34 | 1.00 | 200 | 0.824 | 0.93 | 0.640 | 0.553 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.59 | 121.11 | 1.88 | 237.12 | 0.70 | 0.30% | 0.298 | 0.50 | 189.34 | 1.35 | 1.00 | 200 | 0.824 | 0.93 | 0.642 | 0.553 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.67 | 121.33 | 1.89 | 230.00 | 0.73 | 0.32% | 0.320 | 0.50 | 183.26 | 1.37 | 1.00 | 200 | 0.824 | 0.93 | 0.645 | 0.553 | | 1.49 | **2.05** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.73 | 121.31 | 1.89 | 225.31 | 0.73 | 0.32% | 0.327 | 0.50 | 179.23 | 1.39 | 1.00 | 196 | 0.783 | 0.93 | 0.647 | 0.553 | | 1.41 | **1.95** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.79 | 121.17 | 1.90 | 218.97 | 0.73 | 0.33% | 0.336 | 0.50 | 173.90 | 1.40 | 1.00 | 191 | 0.723 | 0.92 | 0.649 | 0.553 | | 1.31 | **1.80** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.87 | 120.77 | 1.90 | 201.98 | 0.71 | 0.35% | 0.355 | 0.50 | 159.98 | 1.45 | 1.00 | 175 | 0.582 | 0.92 | 0.651 | 0.553 | | 1.05 | **1.45** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 30.92 | 120.75 | 1.90 | 196.90 | 0.71 | 0.36% | 0.364 | 0.50 | 155.74 | 1.46 | 1.00 | 171 | 0.544 | 0.92 | 0.653 | 0.553 | | 0.98 | **1.35** | | 0.000 | 0.000 | 0.000 | 4.429 | 0.000 | | |
| 31.01 | 120.77 | 1.91 | 185.29 | 0.73 | 0.39% | 0.398 | 0.50 | 146.15 | 1.51 | 1.00 | 161 | 0.465 | 0.92 | 0.656 | 0.553 | | 0.84 | **1.16** | <= | 0.352 | 0.004 | 0.000 | 4.429 | 0.000 | 30.92 | 31.01 |
| 31.06 | 120.66 | 1.91 | 175.52 | 0.73 | 0.42% | 0.420 | 0.50 | 138.21 | 1.54 | 1.00 | 152 | 0.406 | 0.92 | 0.657 | 0.553 | | 0.73 | **1.01** | <= | 0.436 | 0.003 | 0.000 | 4.425 | 0.000 | 31.01 | 31.06 |
| 31.14 | 120.35 | 1.92 | 160.88 | 0.72 | 0.45% | 0.453 | 0.50 | 126.31 | 1.59 | 1.00 | 139 | 0.329 | 0.92 | 0.660 | 0.553 | | 0.60 | **0.82** | <= | 1.008 | 0.010 | 0.000 | 4.423 | 0.000 | 31.06 | 31.14 |
| 31.19 | 120.23 | 1.92 | 150.05 | 0.73 | 0.49% | 0.493 | 0.50 | 117.57 | 1.64 | 1.00 | 129 | 0.282 | 0.92 | 0.661 | 0.553 | | 0.51 | **0.70** | <= | 1.398 | 0.008 | 0.000 | 4.413 | 0.000 | 31.14 | 31.19 |
| 31.25 | 120.38 | 1.92 | 137.94 | 0.76 | 0.55% | 0.559 | 0.52 | 107.81 | 1.70 | 1.04 | 123 | 0.252 | 0.92 | 0.663 | 0.553 | | 0.46 | **0.63** | <= | 1.858 | 0.013 | 0.000 | 4.405 | 0.000 | 31.19 | 31.25 |
| 31.32 | 120.96 | 1.93 | 126.32 | 0.85 | 0.67% | 0.683 | 0.54 | 98.43 | 1.78 | 1.09 | 118 | 0.232 | 0.92 | 0.665 | 0.553 | | 0.42 | **0.58** | <= | 2.021 | 0.017 | 0.000 | 4.391 | 0.000 | 31.25 | 31.32 |
| 31.37 | 121.33 | 1.93 | 115.98 | 0.92 | 0.79% | 0.807 | 0.57 | 90.14 | 1.86 | 1.15 | 113 | 0.215 | 0.92 | 0.667 | 0.553 | | 0.39 | **0.53** | <= | 2.089 | 0.013 | 0.000 | 4.374 | 0.000 | 31.32 | 31.37 |
| 31.45 | 122.82 | 1.94 | 99.38 | 1.19 | 1.20% | 1.221 | 0.62 | 76.87 | 2.03 | 1.34 | 111 | 0.207 | 0.92 | 0.669 | 0.553 | | 0.37 | **0.52** | <= | 2.120 | 0.020 | 0.000 | 4.362 | 0.000 | 31.37 | 31.45 |
| 31.50 | 123.52 | 1.94 | 88.64 | 1.36 | 1.53% | 1.569 | 0.65 | 68.31 | 2.14 | 1.53 | 112 | 0.211 | 0.92 | 0.671 | 0.553 | | 0.38 | **0.53** | <= | 2.102 | 0.013 | 0.000 | 4.341 | 0.000 | 31.45 | 31.50 |
| 31.57 | 124.03 | 1.94 | 77.71 | 1.52 | 1.96% | 2.006 | 0.69 | 59.60 | 2.26 | 1.82 | 116 | 0.224 | 0.92 | 0.673 | 0.553 | | 0.40 | **0.56** | <= | 2.053 | 0.017 | 0.000 | 4.329 | 0.000 | 31.50 | 31.57 |
| 31.64 | 123.79 | 1.95 | 64.63 | 1.56 | 2.41% | 2.489 | 0.72 | 49.22 | 2.38 | 2.25 | 117 | 0.230 | 0.92 | 0.675 | 0.553 | | 0.41 | **0.57** | <= | 2.030 | 0.017 | 0.000 | 4.312 | 0.000 | 31.57 | 31.64 |
| 31.73 | 123.46 | 1.95 | 55.45 | 1.57 | 2.83% | 2.935 | 0.75 | 41.92 | 2.49 | 2.70 | 119 | 0.237 | 0.92 | 0.678 | 0.553 | | 0.43 | **0.59** | <= | 2.005 | 0.022 | 0.000 | 4.295 | 0.000 | 31.64 | 31.73 |
| 31.77 | 123.23 | 1.96 | 54.08 | 1.54 | 2.85% | 2.955 | 0.76 | 40.80 | 2.50 | 2.75 | 118 | 0.233 | 0.92 | 0.679 | 0.553 | | 0.42 | **0.58** | <= | 2.017 | 0.010 | 0.000 | 4.273 | 0.000 | 31.73 | 31.77 |
| 31.86 | 122.94 | 1.96 | 56.52 | 1.46 | 2.58% | 2.676 | 0.74 | 42.62 | 2.45 | 2.54 | 114 | 0.219 | 0.92 | 0.682 | 0.553 | | 0.40 | **0.54** | <= | 2.072 | 0.022 | 0.000 | 4.263 | 0.000 | 31.77 | 31.86 |
| 31.89 | 123.08 | 1.96 | 61.11 | 1.45 | 2.37% | 2.452 | 0.73 | 46.17 | 2.40 | 2.31 | 113 | 0.214 | 0.92 | 0.683 | 0.553 | | 0.39 | **0.53** | <= | 2.089 | 0.008 | 0.000 | 4.241 | 0.000 | 31.86 | 31.89 |
| 31.96 | 123.61 | 1.97 | 76.24 | 1.45 | 1.90% | 1.952 | 0.69 | 57.88 | 2.26 | 1.82 | 113 | 0.213 | 0.92 | 0.685 | 0.553 | | 0.39 | **0.53** | <= | 2.095 | 0.018 | 0.000 | 4.233 | 0.000 | 31.89 | 31.96 |
| 32.04 | 123.78 | 1.97 | 90.89 | 1.39 | 1.53% | 1.563 | 0.65 | 69.16 | 2.13 | 1.52 | 113 | 0.215 | 0.91 | 0.688 | 0.553 | | 0.39 | **0.53** | <= | 2.087 | 0.020 | 0.000 | 4.216 | 0.000 | 31.96 | 32.04 |
| 32.09 | 123.78 | 1.98 | 100.26 | 1.35 | 1.35% | 1.374 | 0.63 | 76.36 | 2.06 | 1.39 | 115 | 0.221 | 0.91 | 0.689 | 0.553 | | 0.40 | **0.55** | <= | 2.061 | 0.012 | 0.000 | 4.196 | 0.000 | 32.04 | 32.09 |
| 32.15 | 123.67 | 1.98 | 105.72 | 1.31 | 1.24% | 1.263 | 0.61 | 80.48 | 2.02 | 1.33 | 116 | 0.225 | 0.91 | 0.691 | 0.553 | | 0.41 | **0.56** | <= | 2.046 | 0.015 | 0.000 | 4.183 | 0.000 | 32.09 | 32.15 |
| 32.22 | 124.00 | 1.98 | 111.88 | 1.34 | 1.20% | 1.219 | 0.61 | 85.11 | 1.99 | 1.29 | 119 | 0.239 | 0.91 | 0.693 | 0.553 | | 0.43 | **0.59** | <= | 1.999 | 0.017 | 0.000 | 4.169 | 0.000 | 32.15 | 32.22 |
| 32.31 | 123.97 | 1.99 | 116.56 | 1.32 | 1.13% | 1.152 | 0.60 | 88.54 | 1.96 | 1.25 | 121 | 0.245 | 0.91 | 0.696 | 0.553 | | 0.44 | **0.61** | <= | 1.976 | 0.021 | 0.000 | 4.152 | 0.000 | 32.22 | 32.31 |
| 32.35 | 124.22 | 1.99 | 120.17 | 1.35 | 1.12% | 1.142 | 0.59 | 91.25 | 1.95 | 1.24 | 124 | 0.255 | 0.91 | 0.697 | 0.553 | | 0.46 | **0.64** | <= | 1.945 | 0.009 | 0.000 | 4.130 | 0.000 | 32.31 | 32.35 |
| 32.44 | 124.99 | 2.00 | 125.05 | 1.48 | 1.18% | 1.203 | 0.59 | 94.80 | 1.95 | 1.24 | 129 | 0.278 | 0.91 | 0.700 | 0.553 | | 0.50 | **0.69** | <= | 1.882 | 0.020 | 0.000 | 4.121 | 0.000 | 32.35 | 32.44 |
| 32.49 | 124.41 | 2.00 | 128.08 | 1.35 | 1.05% | 1.071 | 0.58 | 97.02 | 1.91 | 1.20 | 128 | 0.273 | 0.91 | 0.702 | 0.552 | | 0.49 | **0.68** | <= | 1.896 | 0.011 | 0.000 | 4.101 | 0.000 | 32.44 | 32.49 |
| 32.57 | 122.25 | 2.01 | 131.79 | 1.00 | 0.76% | 0.771 | 0.55 | 99.69 | 1.81 | 1.11 | 123 | 0.251 | 0.91 | 0.704 | 0.552 | | 0.45 | **0.63** | <= | 1.860 | 0.018 | 0.000 | 4.089 | 0.000 | 32.49 | 32.57 |
| 32.62 | 122.79 | 2.01 | 133.06 | 1.07 | 0.80% | 0.816 | 0.55 | 100.54 | 1.82 | 1.12 | 125 | 0.260 | 0.91 | 0.706 | 0.552 | | 0.47 | **0.65** | <= | 1.854 | 0.011 | 0.000 | 4.072 | 0.000 | 32.57 | 32.62 |
| 32.70 | 123.52 | 2.01 | 133.06 | 1.18 | 0.89% | 0.900 | 0.56 | 100.35 | 1.85 | 1.14 | 127 | 0.269 | 0.91 | 0.708 | 0.552 | | 0.49 | **0.67** | <= | 1.858 | 0.018 | 0.000 | 4.060 | 0.000 | 32.62 | 32.70 |
| 32.75 | 123.83 | 2.02 | 131.89 | 1.24 | 0.94% | 0.955 | 0.57 | 99.34 | 1.87 | 1.16 | 127 | 0.271 | 0.91 | 0.710 | 0.552 | | 0.49 | **0.67** | <= | 1.901 | 0.011 | 0.000 | 4.043 | 0.000 | 32.70 | 32.75 |
| 32.82 | 123.96 | 2.02 | 122.42 | 1.29 | 1.05% | 1.071 | 0.59 | 91.94 | 1.93 | 1.21 | 123 | 0.252 | 0.91 | 0.712 | 0.552 | | 0.46 | **0.63** | <= | 1.954 | 0.016 | 0.000 | 4.031 | 0.000 | 32.75 | 32.82 |
| 32.89 | 124.21 | 2.03 | 126.42 | 1.33 | 1.05% | 1.069 | 0.58 | 94.83 | 1.91 | 1.20 | 126 | 0.265 | 0.91 | 0.714 | 0.552 | | 0.48 | **0.66** | <= | 1.918 | 0.016 | 0.000 | 4.015 | 0.000 | 32.82 | 32.89 |
| 32.94 | 124.37 | 2.03 | 128.57 | 1.35 | 1.05% | 1.067 | 0.58 | 96.36 | 1.91 | 1.20 | 127 | 0.271 | 0.91 | 0.716 | 0.552 | | 0.49 | **0.68** | <= | 1.900 | 0.011 | 0.000 | 3.999 | 0.000 | 32.89 | 32.94 |
| 33.01 | 124.54 | 2.03 | 130.23 | 1.37 | 1.05% | 1.069 | 0.58 | 97.45 | 1.90 | 1.19 | 128 | 0.277 | 0.91 | 0.718 | 0.552 | | 0.50 | **0.69** | <= | 1.886 | 0.016 | 0.000 | 3.987 | 0.000 | 32.94 | 33.01 |
| 33.08 | 124.55 | 2.04 | 129.54 | 1.38 | 1.07% | 1.082 | 0.58 | 96.77 | 1.91 | 1.20 | 128 | 0.276 | 0.91 | 0.720 | 0.552 | | 0.50 | **0.69** | <= | 1.889 | 0.016 | 0.000 | 3.971 | 0.000 | 33.01 | 33.08 |
| 33.14 | 124.36 | 2.04 | 127.10 | 1.35 | 1.06% | 1.079 | 0.58 | 94.78 | 1.92 | 1.20 | 126 | 0.267 | 0.91 | 0.722 | 0.552 | | 0.48 | **0.66** | <= | 1.913 | 0.014 | 0.000 | 3.956 | 0.000 | 33.08 | 33.14 |
| 33.21 | 124.12 | 2.05 | 124.18 | 1.32 | 1.06% | 1.081 | 0.59 | 92.41 | 1.93 | 1.21 | 124 | 0.257 | 0.90 | 0.724 | 0.552 | | 0.47 | **0.64** | <= | 1.941 | 0.016 | 0.000 | 3.942 | 0.000 | 33.14 | 33.21 |
| 33.30 | 123.79 | 2.05 | 120.76 | 1.27 | 1.05% | 1.070 | 0.59 | 89.63 | 1.93 | 1.22 | 121 | 0.244 | 0.90 | 0.727 | 0.552 | | 0.44 | **0.61** | <= | 1.979 | 0.021 | 0.000 | 3.925 | 0.000 | 33.21 | 33.30 |
| 33.34 | 123.67 | 2.05 | 119.29 | 1.25 | 1.05% | 1.066 | 0.59 | 88.44 | 1.94 | 1.22 | 120 | 0.239 | 0.90 | 0.728 | 0.552 | | 0.43 | **0.60** | <= | 1.996 | 0.010 | 0.000 | 3.904 | 0.000 | 33.30 | 33.34 |
| 33.43 | 123.51 | 2.06 | 117.83 | 1.23 | 1.04% | 1.062 | 0.59 | 87.15 | 1.94 | 1.23 | 118 | 0.234 | 0.90 | 0.731 | 0.552 | | 0.42 | **0.58** | <= | 2.013 | 0.022 | 0.000 | 3.894 | 0.000 | 33.34 | 33.43 |
| 33.48 | 123.45 | 2.06 | 118.02 | 1.22 | 1.03% | 1.052 | 0.59 | 87.19 | 1.94 | 1.23 | 118 | 0.234 | 0.90 | 0.733 | 0.552 | | 0.42 | **0.58** | <= | 2.016 | 0.012 | 0.000 | 3.873 | 0.000 | 33.43 | 33.48 |
| 33.57 | 123.36 | 2.07 | 118.32 | 1.21 | 1.02% | 1.041 | 0.59 | 87.23 | 1.93 | 1.22 | 118 | 0.233 | 0.90 | 0.735 | 0.551 | | 0.42 | **0.58** | <= | 2.018 | 0.022 | 0.000 | 3.861 | 0.000 | 33.48 | 33.57 |
| 33.62 | 123.32 | 2.07 | 118.12 | 1.20 | 1.02% | 1.034 | 0.59 | 86.98 | 1.93 | 1.22 | 118 | 0.231 | 0.90 | 0.737 | 0.551 | | 0.42 | **0.58** | <= | 2.023 | 0.012 | 0.000 | 3.839 | 0.000 | 33.57 | 33.62 |
| 33.69 | 123.29 | 2.08 | 116.85 | 1.20 | 1.03% | 1.046 | 0.59 | 85.89 | 1.94 | 1.23 | 117 | 0.229 | 0.90 | 0.739 | 0.551 | | 0.41 | **0.57** | <= | 2.034 | 0.017 | 0.000 | 3.827 | 0.000 | 33.62 | 33.69 |
| 33.75 | 123.22 | 2.08 | 115.58 | 1.19 | 1.03% | 1.048 | 0.59 | 84.82 | 1.94 | 1.23 | 116 | 0.225 | 0.90 | 0.741 | 0.551 | | 0.41 | **0.56** | <= | 2.047 | 0.015 | 0.000 | 3.810 | 0.000 | 33.69 | 33.75 |
| 33.83 | 123.11 | 2.08 | 112.36 | 1.19 | 1.06% | 1.079 | 0.60 | 82.26 | 1.96 | 1.25 | 114 | 0.219 | 0.90 | 0.743 | 0.551 | | 0.40 | **0.55** | <= | 2.071 | 0.020 | 0.000 | 3.795 | 0.000 | 33.75 | 33.83 |
| 33.88 | 123.17 | 2.09 | 109.63 | 1.20 | 1.09% | 1.116 | 0.60 | 80.13 | 1.98 | 1.28 | 113 | 0.215 | 0.90 | 0.745 | 0.551 | | 0.39 | **0.54** | <= | 2.088 | 0.013 | 0.000 | 3.775 | 0.000 | 33.83 | 33.88 |
| 33.93 | 123.21 | 2.09 | 103.48 | 1.24 | 1.20% | 1.223 | 0.62 | 75.46 | 2.03 | 1.34 | 111 | 0.208 | 0.90 | 0.747 | 0.551 | | 0.38 | **0.52** | <= | 2.115 | 0.013 | 0.000 | 3.762 | 0.000 | 33.88 | 33.93 |
| 34.00 | 123.48 | 2.09 | 92.84 | 1.33 | 1.43% | 1.466 | 0.64 | 67.43 | 2.12 | 1.49 | 110 | 0.204 | 0.90 | 0.749 | 0.551 | | 0.37 | **0.51** | <= | 2.136 | 0.018 | 0.000 | 3.750 | 0.000 | 33.93 | 34.00 |
| 34.06 | 123.64 | 2.10 | 77.71 | 1.44 | 1.85% | 1.904 | 0.68 | 56.11 | 2.26 | 1.82 | 111 | 0.206 | 0.90 | 0.751 | 0.551 | | 0.37 | **0.51** | <= | 2.127 | 0.015 | 0.000 | 3.732 | 0.000 | 34.00 | 34.06 |
| 34.15 | 123.02 | 2.10 | 54.77 | 1.49 | 2.72% | 2.829 | 0.76 | 39.00 | 2.49 | 2.74 | 114 | 0.217 | 0.90 | 0.753 | 0.551 | | 0.39 | **0.54** | <= | 2.077 | 0.022 | 0.000 | 3.717 | 0.000 | 34.06 | 34.15 |
| 34.20 | 122.38 | 2.11 | 42.66 | 1.48 | 3.47% | 3.650 | 0.81 | 30.00 | 2.66 | 3.69 | 122 | 0.249 | 0.90 | 0.755 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.28 | 120.67 | 2.11 | 31.63 | 1.30 | 4.11% | 4.404 | 0.85 | 21.80 | 2.82 | 4.95 | 163 | 0.485 | 0.90 | 0.758 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.33 | 119.52 | 2.11 | 26.16 | 1.18 | 4.51% | 4.907 | 0.88 | 17.74 | 2.92 | 5.90 | 195 | 0.765 | 0.90 | 0.759 | 0.551 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.42 | 117.80 | 2.12 | 21.48 | 1.00 | 4.66% | 5.165 | 0.91 | 14.26 | 3.01 | 6.84 | 226 | 1.151 | 0.90 | 0.762 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.47 | 116.68 | 2.12 | 19.33 | 0.89 | 4.60% | 5.172 | 0.92 | 12.66 | 3.05 | 7.32 | 241 | 1.390 | 0.89 | 0.763 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.55 | 114.78 | 2.13 | 17.08 | 0.71 | 4.16% | 4.748 | 0.93 | 10.98 | 3.08 | 7.62 | 252 | 1.561 | 0.89 | 0.766 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.58 | 114.70 | 2.13 | 16.50 | 0.71 | 4.30% | 4.941 | 0.94 | 10.55 | 3.10 | 7.93 | 262 | 1.749 | 0.89 | 0.767 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.66 | 112.92 | 2.13 | 16.69 | 0.56 | 3.36% | 3.847 | 0.92 | 10.67 | 3.03 | 7.07 | 233 | 1.261 | 0.89 | 0.769 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.73 | 108.99 | 2.14 | 18.26 | 0.32 | 1.75% | 1.985 | 0.86 | 11.80 | 2.82 | 4.99 | 165 | 0.495 | 0.89 | 0.772 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.80 | 112.52 | 2.14 | 23.04 | 0.47 | 2.04% | 2.249 | 0.84 | 15.28 | 2.76 | 4.44 | 146 | 0.372 | 0.89 | 0.774 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.85 | 114.33 | 2.14 | 25.09 | 0.59 | 2.35% | 2.571 | 0.84 | 16.76 | 2.76 | 4.45 | 147 | 0.374 | 0.89 | 0.775 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.91 | 116.02 | 2.15 | 27.14 | 0.72 | 2.65% | 2.881 | 0.84 | 18.23 | 2.76 | 4.45 | 147 | 0.374 | 0.89 | 0.777 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 34.98 | 117.46 | 2.15 | 30.36 | 0.85 | 2.80% | 3.013 | 0.83 | 20.55 | 2.73 | 4.22 | 139 | 0.331 | 0.89 | 0.779 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 35.06 | 119.13 | 2.16 | 37.10 | 1.00 | 2.70% | 2.862 | 0.80 | 25.42 | 2.64 | 3.59 | 118 | 0.234 | 0.89 | 0.782 | 0.550 | NO | 10.00 | **10.00** | | 0.000 | 0.000 | 0.000 | 3.694 | 0.000 | | |
| 35.12 | 119.80 | 2.16 | 41.39 | 1.05 | 2.54% | 2.677 | 0.78 | 28.50 | 2.58 | 3.22 | 106 | 0.192 | 0.89 | 0.784 | 0.550 | | 0.35 | **0.48** | <= | 2.196 | 0.016 | 0.000 | 3.694 | 0.000 | 35.06 | 35.12 |
| 35.18 | 120.17 | 2.16 | 48.62 | 1.05 | 2.16% | 2.260 | 0.75 | 33.71 | 2.48 | 2.65 | 96 | 0.162 | 0.89 | 0.786 | 0.550 | | 0.29 | **0.41** | <= | 2.386 | 0.017 | 0.000 | 3.678 | 0.000 | 35.12 | 35.18 |
| 35.26 | 120.36 | 2.17 | 55.84 | 1.03 | 1.84% | 1.919 | 0.72 | 38.88 | 2.38 | 2.24 | 94 | 0.157 | 0.89 | 0.788 | 0.550 | | 0.29 | **0.39** | <= | 2.425 | 0.023 | 0.000 | 3.661 | 0.000 | 35.18 | 35.26 |
| 35.30 | 120.37 | 2.17 | 56.33 | 1.03 | 1.83% | 1.902 | 0.72 | 39.20 | 2.38 | 2.21 | 94 | 0.157 | 0.89 | 0.789 | 0.550 | | 0.29 | **0.39** | <= | 2.426 | 0.012 | 0.000 | 3.638 | 0.000 | 35.26 | 35.30 |
| 35.40 | 120.80 | 2.18 | 55.64 | 1.09 | 1.96% | 2.039 | 0.73 | 38.61 | 2.40 | 2.31 | 96 | 0.164 | 0.89 | 0.792 | 0.550 | | 0.30 | **0.41** | <= | 2.374 | 0.028 | 0.000 | 3.626 | 0.000 | 35.30 | 35.40 |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-5

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

**Project No.:** 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

**D(ft)** 1 **MAGNITUDE:** 6.62 **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35.44 | 121.17 | 2.18 | 54.47 | 1.16 | 2.13% | 2.218 | 0.74 | 37.73 | 2.43 | 2.45 | 100 | 0.172 | 0.89 | 0.794 | 0.549 | | 0.31 | 0.43 | <= | 2.315 | 0.011 | 0.000 | 3.598 | 0.000 | 35.40 | 35.44 |
| 35.50 | 121.56 | 2.18 | 52.23 | 1.24 | 2.37% | 2.478 | 0.75 | 36.07 | 2.48 | 2.67 | 103 | 0.182 | 0.89 | 0.796 | 0.549 | | 0.33 | 0.46 | <= | 2.248 | 0.016 | 0.000 | 3.587 | 0.000 | 35.44 | 35.50 |
| 35.57 | 121.23 | 2.19 | 50.08 | 1.20 | 2.40% | 2.506 | 0.76 | 34.46 | 2.50 | 2.76 | 102 | 0.179 | 0.89 | 0.798 | 0.549 | | 0.33 | 0.45 | <= | 2.271 | 0.019 | 0.000 | 3.570 | 0.000 | 35.50 | 35.57 |
| 35.66 | 119.54 | 2.19 | 45.69 | 0.98 | 2.14% | 2.253 | 0.76 | 31.24 | 2.50 | 2.77 | 93 | 0.155 | 0.89 | 0.801 | 0.549 | | 0.28 | 0.39 | <= | 2.446 | 0.026 | 0.000 | 3.551 | 0.000 | 35.57 | 35.66 |
| 35.71 | 118.66 | 2.20 | 42.47 | 0.89 | 2.10% | 2.210 | 0.76 | 28.90 | 2.52 | 2.89 | 95 | 0.160 | 0.88 | 0.802 | 0.549 | | 0.29 | 0.40 | <= | 2.399 | 0.014 | 0.000 | 3.525 | 0.000 | 35.66 | 35.71 |
| 35.80 | 117.22 | 2.20 | 35.63 | 0.78 | 2.19% | 2.333 | 0.79 | 23.94 | 2.60 | 3.35 | 111 | 0.206 | 0.88 | 0.805 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.511 | 0.000 | | |
| 35.85 | 116.39 | 2.20 | 31.34 | 0.72 | 2.30% | 2.471 | 0.81 | 20.85 | 2.67 | 3.78 | 125 | 0.260 | 0.88 | 0.807 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.511 | 0.000 | | |
| 35.91 | 115.32 | 2.21 | 25.77 | 0.67 | 2.60% | 2.843 | 0.84 | 16.84 | 2.78 | 4.64 | 153 | 0.414 | 0.88 | 0.808 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.511 | 0.000 | | |
| 35.97 | 114.74 | 2.21 | 22.06 | 0.65 | 2.95% | 3.275 | 0.87 | 14.17 | 2.88 | 5.53 | 183 | 0.646 | 0.88 | 0.810 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.511 | 0.000 | | |
| 36.02 | 114.47 | 2.21 | 19.52 | 0.65 | 3.33% | 3.756 | 0.90 | 12.34 | 2.97 | 6.41 | 211 | 0.959 | 0.88 | 0.812 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.511 | 0.000 | | |
| 36.09 | 114.54 | 2.22 | 17.57 | 0.68 | 3.87% | 4.429 | 0.93 | 10.94 | 3.06 | 7.40 | 244 | 1.436 | 0.88 | 0.814 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.511 | 0.000 | | |
| 36.16 | 115.26 | 2.22 | 17.28 | 0.76 | 4.40% | 5.047 | 0.94 | 10.71 | 3.10 | 7.93 | 262 | 1.748 | 0.88 | 0.816 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.511 | 0.000 | | |
| 36.24 | 116.16 | 2.23 | 18.55 | 0.84 | 4.53% | 5.146 | 0.93 | 11.60 | 3.08 | 7.66 | 253 | 1.579 | 0.88 | 0.819 | 0.549 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.511 | 0.000 | | |
| 36.29 | 116.85 | 2.23 | 20.40 | 0.89 | 4.36% | 4.898 | 0.92 | 12.90 | 3.03 | 7.05 | 233 | 1.252 | 0.88 | 0.820 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.511 | 0.000 | | |
| 36.37 | 117.92 | 2.23 | 24.89 | 0.96 | 3.86% | 4.237 | 0.88 | 16.05 | 2.91 | 5.80 | 191 | 0.731 | 0.88 | 0.823 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.511 | 0.000 | | |
| 36.42 | 118.96 | 2.24 | 33.00 | 1.01 | 3.06% | 3.283 | 0.83 | 21.78 | 2.73 | 4.23 | 140 | 0.334 | 0.88 | 0.824 | 0.548 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.511 | 0.000 | | |
| 36.48 | 119.60 | 2.24 | 54.08 | 0.94 | 1.74% | 1.813 | 0.72 | 36.65 | 2.38 | 2.24 | 90 | 0.147 | 0.88 | 0.826 | 0.548 | | 0.27 | 0.37 | <= | 2.521 | 0.018 | 0.000 | 3.511 | 0.000 | 36.42 | 36.48 |
| 36.56 | 116.40 | 2.25 | 77.81 | 0.54 | 0.69% | 0.715 | 0.61 | 53.34 | 2.00 | 1.30 | 78 | 0.125 | 0.88 | 0.829 | 0.548 | | 0.23 | 0.31 | <= | 2.805 | 0.027 | 0.000 | 3.492 | 0.000 | 36.48 | 36.56 |
| 36.65 | 117.64 | 2.25 | 89.32 | 0.61 | 0.68% | 0.701 | 0.59 | 61.36 | 1.94 | 1.23 | 86 | 0.139 | 0.88 | 0.831 | 0.548 | | 0.25 | 0.35 | <= | 2.606 | 0.028 | 0.000 | 3.465 | 0.000 | 36.56 | 36.65 |
| 36.69 | 117.60 | 2.25 | 91.28 | 0.60 | 0.66% | 0.674 | 0.59 | 62.69 | 1.93 | 1.22 | 87 | 0.141 | 0.88 | 0.833 | 0.548 | | 0.26 | 0.35 | <= | 2.589 | 0.012 | 0.000 | 3.437 | 0.000 | 36.65 | 36.69 |
| 36.78 | 117.79 | 2.26 | 87.47 | 0.62 | 0.71% | 0.728 | 0.60 | 59.89 | 1.96 | 1.25 | 85 | 0.138 | 0.88 | 0.836 | 0.548 | | 0.25 | 0.35 | <= | 2.624 | 0.028 | 0.000 | 3.425 | 0.000 | 36.69 | 36.78 |
| 36.81 | 117.68 | 2.26 | 71.56 | 0.66 | 0.92% | 0.952 | 0.64 | 48.68 | 2.11 | 1.47 | 80 | 0.128 | 0.88 | 0.836 | 0.548 | | 0.23 | 0.32 | <= | 2.760 | 0.010 | 0.000 | 3.397 | 0.000 | 36.78 | 36.81 |
| 36.90 | 119.25 | 2.27 | 67.75 | 0.83 | 1.23% | 1.267 | 0.67 | 45.92 | 2.20 | 1.68 | 85 | 0.138 | 0.88 | 0.839 | 0.548 | | 0.25 | 0.35 | <= | 2.619 | 0.028 | 0.000 | 3.387 | 0.000 | 36.81 | 36.90 |
| 36.95 | 119.32 | 2.27 | 56.62 | 0.89 | 1.57% | 1.637 | 0.71 | 38.07 | 2.34 | 2.09 | 87 | 0.141 | 0.87 | 0.841 | 0.547 | | 0.26 | 0.36 | <= | 2.580 | 0.015 | 0.000 | 3.358 | 0.000 | 36.90 | 36.95 |
| 37.01 | 118.26 | 2.27 | 44.81 | 0.83 | 1.85% | 1.951 | 0.75 | 29.76 | 2.48 | 2.65 | 87 | 0.142 | 0.87 | 0.843 | 0.547 | | 0.26 | 0.36 | <= | 2.571 | 0.019 | 0.000 | 3.343 | 0.000 | 36.95 | 37.01 |
| 37.08 | 117.01 | 2.28 | 34.95 | 0.76 | 2.17% | 2.326 | 0.79 | 22.83 | 2.62 | 3.44 | 114 | 0.216 | 0.87 | 0.845 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.16 | 115.19 | 2.28 | 26.06 | 0.65 | 2.49% | 2.733 | 0.84 | 16.59 | 2.78 | 4.59 | 151 | 0.403 | 0.87 | 0.847 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.21 | 114.20 | 2.28 | 20.89 | 0.61 | 2.92% | 3.278 | 0.88 | 12.97 | 2.91 | 5.84 | 193 | 0.744 | 0.87 | 0.849 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.30 | 113.03 | 2.29 | 16.79 | 0.56 | 3.34% | 3.862 | 0.92 | 10.09 | 3.05 | 7.30 | 241 | 1.379 | 0.87 | 0.852 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.35 | 112.93 | 2.29 | 16.69 | 0.56 | 3.36% | 3.889 | 0.92 | 10.01 | 3.05 | 7.35 | 243 | 1.409 | 0.87 | 0.853 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.43 | 113.12 | 2.30 | 17.47 | 0.56 | 3.21% | 3.690 | 0.91 | 10.54 | 3.02 | 6.98 | 230 | 1.214 | 0.87 | 0.856 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.48 | 114.32 | 2.30 | 18.74 | 0.65 | 3.47% | 3.953 | 0.91 | 11.41 | 3.01 | 6.86 | 226 | 1.159 | 0.87 | 0.857 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.54 | 115.64 | 2.30 | 20.21 | 0.76 | 3.76% | 4.244 | 0.91 | 12.41 | 3.00 | 6.74 | 222 | 1.104 | 0.87 | 0.859 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.62 | 117.41 | 2.31 | 22.55 | 0.93 | 4.12% | 4.594 | 0.90 | 14.01 | 2.98 | 6.52 | 215 | 1.005 | 0.87 | 0.862 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.67 | 118.48 | 2.31 | 24.11 | 1.05 | 4.36% | 4.816 | 0.90 | 15.07 | 2.97 | 6.39 | 211 | 0.952 | 0.87 | 0.863 | 0.547 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.73 | 119.73 | 2.31 | 26.06 | 1.21 | 4.64% | 5.095 | 0.89 | 16.40 | 2.95 | 6.26 | 206 | 0.899 | 0.87 | 0.865 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.80 | 120.34 | 2.32 | 26.46 | 1.31 | 4.95% | 5.426 | 0.90 | 16.65 | 2.97 | 6.40 | 211 | 0.955 | 0.87 | 0.867 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.87 | 121.32 | 2.32 | 29.77 | 1.44 | 4.84% | 5.246 | 0.88 | 18.90 | 2.92 | 5.85 | 193 | 0.750 | 0.87 | 0.870 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 37.93 | 122.33 | 2.33 | 37.00 | 1.54 | 4.16% | 4.441 | 0.84 | 23.84 | 2.79 | 4.68 | 155 | 0.423 | 0.87 | 0.871 | 0.546 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.324 | 0.000 | | |
| 38.00 | 124.01 | 2.33 | 59.16 | 1.66 | 2.81% | 2.921 | 0.76 | 39.02 | 2.50 | 2.76 | 117 | 0.228 | 0.87 | 0.874 | 0.546 | | 0.42 | 0.57 | <= | 2.036 | 0.017 | 0.000 | 3.324 | 0.000 | 37.93 | 38.00 |
| 38.06 | 125.11 | 2.33 | 86.79 | 1.70 | 1.96% | 2.013 | 0.68 | 57.92 | 2.25 | 1.81 | 117 | 0.227 | 0.87 | 0.875 | 0.546 | | 0.42 | 0.57 | <= | 2.038 | 0.015 | 0.000 | 3.307 | 0.000 | 38.00 | 38.06 |
| 38.15 | 124.69 | 2.34 | 92.64 | 1.57 | 1.69% | 1.739 | 0.66 | 61.81 | 2.19 | 1.64 | 113 | 0.216 | 0.86 | 0.878 | 0.546 | | 0.40 | 0.54 | <= | 2.083 | 0.022 | 0.000 | 3.293 | 0.000 | 38.06 | 38.15 |
| 38.19 | 123.62 | 2.34 | 82.88 | 1.41 | 1.70% | 1.751 | 0.68 | 55.08 | 2.23 | 1.74 | 107 | 0.194 | 0.86 | 0.880 | 0.545 | | 0.36 | 0.49 | <= | 2.184 | 0.010 | 0.000 | 3.270 | 0.000 | 38.15 | 38.19 |
| 38.26 | 121.65 | 2.35 | 67.07 | 1.15 | 1.71% | 1.777 | 0.70 | 44.20 | 2.31 | 1.98 | 97 | 0.164 | 0.86 | 0.882 | 0.545 | | 0.30 | 0.41 | <= | 2.369 | 0.020 | 0.000 | 3.260 | 0.000 | 38.19 | 38.26 |
| 38.34 | 120.54 | 2.35 | 55.55 | 1.06 | 1.91% | 1.993 | 0.73 | 36.27 | 2.41 | 2.35 | 94 | 0.156 | 0.86 | 0.884 | 0.545 | | 0.29 | 0.39 | <= | 2.433 | 0.023 | 0.000 | 3.240 | 0.000 | 38.26 | 38.34 |
| 38.39 | 120.25 | 2.35 | 49.59 | 1.05 | 2.12% | 2.223 | 0.75 | 32.18 | 2.48 | 2.68 | 94 | 0.157 | 0.86 | 0.886 | 0.545 | | 0.29 | 0.40 | <= | 2.426 | 0.015 | 0.000 | 3.216 | 0.000 | 38.34 | 38.39 |
| 38.47 | 119.82 | 2.36 | 41.98 | 1.05 | 2.50% | 2.650 | 0.79 | 26.95 | 2.59 | 3.29 | 109 | 0.199 | 0.86 | 0.888 | 0.545 | | 0.37 | 0.50 | <= | 2.158 | 0.021 | 0.000 | 3.202 | 0.000 | 38.39 | 38.47 |
| 38.52 | 119.54 | 2.36 | 37.68 | 1.05 | 2.79% | 2.973 | 0.81 | 24.00 | 2.67 | 3.76 | 124 | 0.258 | 0.86 | 0.890 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 38.60 | 119.02 | 2.37 | 32.61 | 1.02 | 3.13% | 3.373 | 0.84 | 20.52 | 2.76 | 4.44 | 146 | 0.372 | 0.86 | 0.892 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 38.65 | 118.71 | 2.37 | 29.68 | 1.01 | 3.40% | 3.698 | 0.85 | 18.51 | 2.82 | 4.95 | 164 | 0.487 | 0.86 | 0.894 | 0.545 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 38.73 | 118.03 | 2.37 | 25.58 | 0.97 | 3.79% | 4.180 | 0.88 | 15.70 | 2.91 | 5.82 | 192 | 0.737 | 0.86 | 0.896 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 38.79 | 117.03 | 2.38 | 22.36 | 0.89 | 3.98% | 4.454 | 0.90 | 13.51 | 2.98 | 6.55 | 216 | 1.020 | 0.86 | 0.898 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 38.87 | 118.57 | 2.38 | 21.67 | 1.10 | 5.08% | 5.703 | 0.93 | 13.02 | 3.07 | 7.51 | 248 | 1.496 | 0.86 | 0.901 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 38.91 | 119.46 | 2.38 | 22.84 | 1.22 | 5.34% | 5.964 | 0.93 | 13.80 | 3.06 | 7.43 | 245 | 1.450 | 0.86 | 0.902 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 38.98 | 120.64 | 2.39 | 27.04 | 1.36 | 5.03% | 5.517 | 0.90 | 16.60 | 2.97 | 6.45 | 213 | 0.978 | 0.86 | 0.904 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 39.05 | 121.81 | 2.39 | 35.44 | 1.46 | 4.12% | 4.418 | 0.85 | 22.23 | 2.81 | 4.86 | 160 | 0.463 | 0.86 | 0.906 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 39.14 | 122.31 | 2.40 | 40.71 | 1.49 | 3.66% | 3.889 | 0.82 | 25.72 | 2.72 | 4.15 | 137 | 0.320 | 0.86 | 0.909 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 39.18 | 122.50 | 2.40 | 43.05 | 1.50 | 3.48% | 3.690 | 0.81 | 27.27 | 2.69 | 3.90 | 129 | 0.278 | 0.86 | 0.910 | 0.544 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 39.26 | 122.80 | 2.41 | 48.03 | 1.51 | 3.14% | 3.310 | 0.79 | 30.56 | 2.62 | 3.42 | 113 | 0.214 | 0.86 | 0.913 | 0.543 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 3.181 | 0.000 | | |
| 39.31 | 122.97 | 2.41 | 51.45 | 1.51 | 2.93% | 3.079 | 0.78 | 32.81 | 2.57 | 3.14 | 112 | 0.210 | 0.86 | 0.914 | 0.543 | | 0.39 | 0.53 | <= | 2.108 | 0.013 | 0.000 | 3.181 | 0.000 | 39.26 | 39.31 |
| 39.39 | 123.34 | 2.41 | 59.65 | 1.51 | 2.53% | 2.638 | 0.75 | 38.23 | 2.47 | 2.63 | 110 | 0.204 | 0.85 | 0.917 | 0.543 | | 0.38 | 0.52 | <= | 2.134 | 0.020 | 0.000 | 3.168 | 0.000 | 39.31 | 39.39 |
| 39.45 | 123.49 | 2.42 | 65.11 | 1.50 | 2.30% | 2.393 | 0.73 | 41.82 | 2.41 | 2.36 | 109 | 0.200 | 0.85 | 0.919 | 0.543 | | 0.37 | 0.51 | <= | 2.152 | 0.015 | 0.000 | 3.148 | 0.000 | 39.39 | 39.45 |
| 39.52 | 123.43 | 2.42 | 67.75 | 1.47 | 2.17% | 2.250 | 0.72 | 43.52 | 2.38 | 2.23 | 108 | 0.196 | 0.85 | 0.921 | 0.543 | | 0.36 | 0.50 | <= | 2.174 | 0.018 | 0.000 | 3.132 | 0.000 | 39.45 | 39.52 |
| 39.58 | 123.12 | 2.43 | 68.73 | 1.40 | 2.04% | 2.111 | 0.71 | 44.12 | 2.36 | 2.14 | 105 | 0.188 | 0.85 | 0.923 | 0.543 | | 0.35 | 0.48 | <= | 2.217 | 0.016 | 0.000 | 3.114 | 0.000 | 39.52 | 39.58 |
| 39.64 | 122.67 | 2.43 | 66.97 | 1.33 | 1.99% | 2.061 | 0.72 | 42.89 | 2.36 | 2.15 | 103 | 0.180 | 0.85 | 0.925 | 0.542 | | 0.33 | 0.46 | <= | 2.260 | 0.016 | 0.000 | 3.098 | 0.000 | 39.58 | 39.64 |
| 39.72 | 120.49 | 2.43 | 62.87 | 1.01 | 1.61% | 1.671 | 0.70 | 40.10 | 2.32 | 2.02 | 90 | 0.149 | 0.85 | 0.927 | 0.542 | | 0.27 | 0.38 | <= | 2.501 | 0.024 | 0.000 | 3.082 | 0.000 | 39.64 | 39.72 |
| 39.77 | 118.55 | 2.44 | 59.16 | 0.79 | 1.34% | 1.393 | 0.70 | 37.60 | 2.29 | 1.93 | 81 | 0.130 | 0.85 | 0.929 | 0.542 | | 0.24 | 0.33 | <= | 2.724 | 0.016 | 0.000 | 3.058 | 0.000 | 39.72 | 39.77 |
| 39.85 | 118.96 | 2.44 | 50.18 | 0.88 | 1.75% | 1.843 | 0.74 | 31.60 | 2.43 | 2.46 | 86 | 0.138 | 0.85 | 0.931 | 0.542 | | 0.26 | 0.35 | <= | 2.615 | 0.025 | 0.000 | 3.042 | 0.000 | 39.77 | 39.85 |
| 39.93 | 119.80 | 2.45 | 43.44 | 1.04 | 2.39% | 2.537 | 0.78 | 27.09 | 2.58 | 3.19 | 105 | 0.189 | 0.85 | 0.934 | 0.542 | | 0.35 | 0.48 | <= | 2.211 | 0.021 | 0.000 | 3.016 | 0.000 | 39.85 | 39.93 |
| 39.98 | 120.24 | 2.45 | 39.05 | 1.14 | 2.92% | 3.115 | 0.81 | 24.17 | 2.68 | 3.83 | 126 | 0.267 | 0.85 | 0.935 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.03 | 120.45 | 2.45 | 34.75 | 1.22 | 3.51% | 3.777 | 0.84 | 21.31 | 2.78 | 4.58 | 151 | 0.402 | 0.85 | 0.937 | 0.542 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.11 | 120.34 | 2.46 | 29.19 | 1.27 | 4.35% | 4.751 | 0.88 | 17.61 | 2.91 | 5.78 | 191 | 0.725 | 0.85 | 0.939 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.17 | 119.84 | 2.46 | 25.28 | 1.25 | 4.94% | 5.478 | 0.91 | 15.01 | 3.00 | 6.80 | 224 | 1.129 | 0.85 | 0.941 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.22 | 119.20 | 2.46 | 22.45 | 1.19 | 5.30% | 5.954 | 0.93 | 13.14 | 3.07 | 7.62 | 251 | 1.557 | 0.85 | 0.943 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.31 | 118.34 | 2.47 | 19.52 | 1.11 | 5.69% | 6.510 | 0.95 | 11.19 | 3.16 | 8.65 | 286 | 2.245 | 0.85 | 0.946 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.35 | 117.81 | 2.47 | 18.06 | 1.06 | 5.87% | 6.800 | 0.97 | 10.22 | 3.20 | 9.25 | 305 | 2.726 | 0.85 | 0.947 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.45 | 117.09 | 2.48 | 16.50 | 0.99 | 6.00% | 7.060 | 0.98 | 9.18 | 3.25 | 9.94 | 328 | 3.362 | 0.85 | 0.950 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.49 | 116.81 | 2.48 | 15.52 | 0.97 | 6.25% | 7.439 | 0.99 | 8.53 | 3.29 | 10.55 | 348 | 4.000 | 0.85 | 0.951 | 0.541 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.58 | 115.85 | 2.49 | 15.72 | 0.85 | 5.41% | 6.423 | 0.98 | 8.64 | 3.24 | 9.85 | 325 | 3.277 | 0.85 | 0.954 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.63 | 115.11 | 2.49 | 15.03 | 0.78 | 5.19% | 6.219 | 0.98 | 8.18 | 3.25 | 10.00 | 330 | 3.426 | 0.84 | 0.956 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.72 | 114.00 | 2.49 | 15.42 | 0.66 | 4.28% | 5.106 | 0.96 | 8.42 | 3.19 | 9.08 | 300 | 2.581 | 0.84 | 0.958 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.76 | 113.47 | 2.50 | 14.64 | 0.63 | 4.30% | 5.188 | 0.97 | 7.91 | 3.21 | 9.46 | 312 | 2.908 | 0.84 | 0.960 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.84 | 112.39 | 2.50 | 13.76 | 0.55 | 4.00% | 4.885 | 0.98 | 7.32 | 3.23 | 9.62 | 318 | 3.059 | 0.84 | 0.962 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.89 | 112.10 | 2.50 | 13.76 | 0.53 | 3.85% | 4.708 | 0.97 | 7.31 | 3.22 | 9.49 | 313 | 2.936 | 0.84 | 0.964 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 40.95 | 112.15 | 2.51 | 13.76 | 0.53 | 3.85% | 4.710 | 0.97 | 7.30 | 3.22 | 9.50 | 313 | 2.943 | 0.84 | 0.966 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.03 | 112.01 | 2.51 | 13.47 | 0.53 | 3.93% | 4.836 | 0.98 | 7.10 | 3.23 | 9.74 | 322 | 3.172 | 0.84 | 0.968 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.08 | 112.09 | 2.51 | 14.06 | 0.53 | 3.77% | 4.590 | 0.97 | 7.48 | 3.20 | 9.28 | 306 | 2.750 | 0.84 | 0.970 | 0.540 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.16 | 112.13 | 2.52 | 13.18 | 0.54 | 4.10% | 5.065 | 0.99 | 6.90 | 3.26 | 10.08 | 333 | 3.505 | 0.84 | 0.972 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.22 | 112.35 | 2.52 | 13.28 | 0.55 | 4.14% | 5.112 | 0.99 | 6.95 | 3.26 | 10.08 | 333 | 3.499 | 0.84 | 0.974 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.30 | 112.69 | 2.53 | 13.76 | 0.57 | 4.14% | 5.074 | 0.98 | 7.25 | 3.24 | 9.82 | 324 | 3.247 | 0.84 | 0.977 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.34 | 112.81 | 2.53 | 13.67 | 0.58 | 4.24% | 5.206 | 0.98 | 7.19 | 3.25 | 9.97 | 329 | 3.392 | 0.84 | 0.978 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.41 | 113.20 | 2.53 | 14.55 | 0.60 | 4.12% | 4.993 | 0.97 | 7.74 | 3.21 | 9.42 | 311 | 2.871 | 0.84 | 0.980 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.47 | 113.72 | 2.54 | 15.03 | 0.64 | 4.26% | 5.122 | 0.97 | 8.04 | 3.21 | 9.32 | 308 | 2.787 | 0.84 | 0.982 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.54 | 114.48 | 2.54 | 15.52 | 0.70 | 4.51% | 5.393 | 0.97 | 8.34 | 3.21 | 9.33 | 308 | 2.796 | 0.84 | 0.984 | 0.539 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.61 | 115.39 | 2.54 | 15.91 | 0.79 | 4.97% | 5.910 | 0.97 | 8.58 | 3.22 | 9.55 | 315 | 2.991 | 0.84 | 0.986 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.70 | 115.44 | 2.55 | 16.11 | 0.79 | 4.90% | 5.825 | 0.97 | 8.69 | 3.21 | 9.43 | 311 | 2.880 | 0.84 | 0.989 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.74 | 115.11 | 2.55 | 16.89 | 0.75 | 4.44% | 5.231 | 0.96 | 9.19 | 3.16 | 8.74 | 288 | 2.313 | 0.84 | 0.990 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.82 | 115.52 | 2.56 | 18.84 | 0.76 | 4.03% | 4.667 | 0.93 | 10.42 | 3.09 | 7.75 | 256 | 1.638 | 0.84 | 0.993 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.88 | 117.22 | 2.56 | 22.36 | 0.91 | 4.07% | 4.596 | 0.91 | 12.66 | 3.01 | 6.88 | 227 | 1.171 | 0.83 | 0.995 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 41.97 | 119.35 | 2.56 | 28.99 | 1.11 | 3.83% | 4.201 | 0.87 | 16.86 | 2.89 | 5.56 | 184 | 0.655 | 0.83 | 0.997 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 42.01 | 119.78 | 2.57 | 30.75 | 1.16 | 3.77% | 4.116 | 0.87 | 17.97 | 2.86 | 5.30 | 175 | 0.577 | 0.83 | 0.999 | 0.538 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.995 | 0.000 | | |
| 42.06 | 121.07 | 2.57 | 51.64 | 1.16 | 2.25% | 2.364 | 0.76 | 31.26 | 2.50 | 2.79 | 96 | 0.163 | 0.83 | 1.000 | 0.537 | | 0.30 | 0.42 | <= | 2.377 | 0.014 | 0.000 | 2.995 | 0.000 | 42.01 | 42.06 |
| 42.13 | 121.35 | 2.57 | 61.89 | 1.14 | 1.84% | 1.922 | 0.72 | 37.74 | 2.38 | 2.23 | 94 | 0.158 | 0.83 | 1.002 | 0.537 | | 0.29 | 0.40 | <= | 2.418 | 0.020 | 0.000 | 2.981 | 0.000 | 42.06 | 42.13 |
| 42.20 | 121.71 | 2.58 | 67.26 | 1.16 | 1.72% | 1.793 | 0.71 | 41.10 | 2.33 | 2.05 | 95 | 0.160 | 0.83 | 1.005 | 0.537 | | 0.30 | 0.41 | <= | 2.406 | 0.020 | 0.000 | 2.961 | 0.000 | 42.13 | 42.20 |
| 42.30 | 122.16 | 2.58 | 79.37 | 1.17 | 1.47% | 1.524 | 0.67 | 48.70 | 2.22 | 1.72 | 96 | 0.163 | 0.83 | 1.008 | 0.537 | | 0.30 | 0.42 | <= | 2.382 | 0.029 | 0.000 | 2.940 | 0.000 | 42.20 | 42.30 |
| 42.34 | 122.45 | 2.59 | 86.30 | 1.18 | 1.37% | 1.410 | 0.66 | 53.05 | 2.17 | 1.60 | 98 | 0.167 | 0.83 | 1.009 | 0.537 | | 0.31 | 0.43 | <= | 2.352 | 0.011 | 0.000 | 2.912 | 0.000 | 42.30 | 42.34 |
| 42.41 | 122.81 | 2.59 | 100.75 | 1.18 | 1.17% | 1.202 | 0.63 | 62.12 | 2.07 | 1.40 | 102 | 0.178 | 0.83 | 1.011 | 0.536 | | 0.33 | 0.46 | <= | 2.277 | 0.019 | 0.000 | 2.901 | 0.000 | 42.34 | 42.41 |
| 42.48 | 122.59 | 2.60 | 110.31 | 1.11 | 1.01% | 1.031 | 0.61 | 68.08 | 1.99 | 1.29 | 104 | 0.184 | 0.83 | 1.013 | 0.536 | | 0.34 | 0.47 | <= | 2.241 | 0.019 | 0.000 | 2.881 | 0.000 | 42.41 | 42.48 |
| 42.53 | 122.28 | 2.60 | 120.47 | 1.03 | 0.85% | 0.874 | 0.58 | 74.42 | 1.91 | 1.20 | 107 | 0.193 | 0.83 | 1.015 | 0.536 | | 0.36 | 0.50 | <= | 2.189 | 0.013 | 0.000 | 2.863 | 0.000 | 42.48 | 42.53 |
| 42.59 | 121.84 | 2.60 | 125.54 | 0.96 | 0.76% | 0.781 | 0.57 | 77.54 | 1.87 | 1.16 | 108 | 0.197 | 0.83 | 1.017 | 0.536 | | 0.37 | 0.51 | <= | 2.169 | 0.016 | 0.000 | 2.849 | 0.000 | 42.53 | 42.59 |
| 42.65 | 121.58 | 2.61 | 131.89 | 0.91 | 0.69% | 0.704 | 0.55 | 81.45 | 1.82 | 1.12 | 110 | 0.205 | 0.83 | 1.019 | 0.536 | | 0.38 | 0.53 | <= | 2.129 | 0.015 | 0.000 | 2.834 | 0.000 | 42.59 | 42.65 |
| 42.72 | 121.56 | 2.61 | 136.18 | 0.90 | 0.66% | 0.674 | 0.55 | 84.04 | 1.80 | 1.11 | 113 | 0.213 | 0.83 | 1.021 | 0.536 | | 0.40 | 0.55 | <= | 2.096 | 0.018 | 0.000 | 2.819 | 0.000 | 42.65 | 42.72 |
| 42.79 | 121.58 | 2.61 | 137.65 | 0.90 | 0.65% | 0.666 | 0.55 | 84.85 | 1.79 | 1.10 | 113 | 0.216 | 0.83 | 1.023 | 0.535 | | 0.40 | 0.55 | <= | 2.085 | 0.018 | 0.000 | 2.801 | 0.000 | 42.72 | 42.79 |
| 42.87 | 121.70 | 2.62 | 135.79 | 0.92 | 0.68% | 0.691 | 0.55 | 83.55 | 1.81 | 1.11 | 113 | 0.213 | 0.83 | 1.026 | 0.535 | | 0.40 | 0.55 | <= | 2.096 | 0.020 | 0.000 | 2.783 | 0.000 | 42.79 | 42.87 |
| 42.92 | 121.93 | 2.62 | 132.77 | 0.95 | 0.72% | 0.730 | 0.56 | 81.58 | 1.83 | 1.13 | 111 | 0.209 | 0.83 | 1.027 | 0.535 | | 0.39 | 0.54 | <= | 2.114 | 0.013 | 0.000 | 2.763 | 0.000 | 42.87 | 42.92 |
| 42.99 | 122.62 | 2.63 | 122.91 | 1.08 | 0.88% | 0.898 | 0.58 | 75.30 | 1.92 | 1.20 | 109 | 0.199 | 0.83 | 1.029 | 0.535 | | 0.37 | 0.51 | <= | 2.160 | 0.018 | 0.000 | 2.751 | 0.000 | 42.92 | 42.99 |
| 43.05 | 123.41 | 2.63 | 115.39 | 1.22 | 1.06% | 1.082 | 0.61 | 70.51 | 1.99 | 1.29 | 108 | 0.196 | 0.83 | 1.031 | 0.535 | | 0.37 | 0.51 | <= | 2.171 | 0.016 | 0.000 | 2.732 | 0.000 | 42.99 | 43.05 |
| 43.13 | 124.40 | 2.64 | 95.57 | 1.49 | 1.56% | 1.603 | 0.66 | 58.02 | 2.17 | 1.61 | 108 | 0.197 | 0.82 | 1.034 | 0.534 | | 0.37 | 0.51 | <= | 2.168 | 0.021 | 0.000 | 2.717 | 0.000 | 43.05 | 43.13 |
| 43.19 | 124.25 | 2.64 | 81.22 | 1.54 | 1.90% | 1.960 | 0.70 | 49.00 | 2.29 | 1.92 | 108 | 0.196 | 0.82 | 1.036 | 0.534 | | 0.37 | 0.50 | <= | 2.175 | 0.016 | 0.000 | 2.696 | 0.000 | 43.13 | 43.19 |
| 43.26 | 123.17 | 2.64 | 59.26 | 1.48 | 2.50% | 2.614 | 0.76 | 35.26 | 2.49 | 2.72 | 107 | 0.193 | 0.82 | 1.038 | 0.534 | | 0.36 | 0.50 | <= | 2.189 | 0.018 | 0.000 | 2.680 | 0.000 | 43.19 | 43.26 |
| 43.33 | 122.18 | 2.65 | 48.03 | 1.39 | 2.89% | 3.063 | 0.79 | 28.23 | 2.61 | 3.41 | 113 | 0.213 | 0.82 | 1.040 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 43.41 | 120.91 | 2.65 | 36.71 | 1.27 | 3.46% | 3.729 | 0.84 | 21.15 | 2.77 | 4.54 | 150 | 0.394 | 0.82 | 1.042 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 43.45 | 119.88 | 2.65 | 29.77 | 1.19 | 4.00% | 4.389 | 0.88 | 16.83 | 2.90 | 5.68 | 187 | 0.693 | 0.82 | 1.044 | 0.534 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 43.52 | 117.89 | 2.66 | 24.50 | 0.97 | 3.96% | 4.441 | 0.90 | 13.54 | 2.98 | 6.50 | 215 | 0.999 | 0.82 | 1.046 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 43.59 | 115.72 | 2.66 | 22.16 | 0.74 | 3.34% | 3.795 | 0.90 | 12.07 | 2.97 | 6.47 | 214 | 0.985 | 0.82 | 1.048 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 43.64 | 114.49 | 2.67 | 21.18 | 0.64 | 3.02% | 3.457 | 0.90 | 11.45 | 2.97 | 6.40 | 211 | 0.957 | 0.82 | 1.050 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 43.72 | 110.80 | 2.67 | 19.62 | 0.40 | 2.04% | 2.360 | 0.88 | 10.47 | 2.90 | 5.73 | 189 | 0.707 | 0.82 | 1.052 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 43.80 | 108.52 | 2.67 | 19.13 | 0.29 | 1.52% | 1.762 | 0.86 | 10.16 | 2.84 | 5.17 | 171 | 0.541 | 0.82 | 1.055 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 43.84 | 107.82 | 2.68 | 19.43 | 0.26 | 1.34% | 1.552 | 0.85 | 10.33 | 2.81 | 4.85 | 160 | 0.460 | 0.82 | 1.056 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 43.91 | 107.02 | 2.68 | 19.43 | 0.24 | 1.24% | 1.433 | 0.84 | 10.32 | 2.79 | 4.69 | 155 | 0.426 | 0.82 | 1.058 | 0.533 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 43.99 | 106.02 | 2.68 | 20.01 | 0.20 | 1.00% | 1.154 | 0.83 | 10.67 | 2.73 | 4.21 | 139 | 0.329 | 0.82 | 1.060 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.04 | 106.35 | 2.69 | 20.01 | 0.21 | 1.05% | 1.212 | 0.83 | 10.66 | 2.74 | 4.29 | 142 | 0.344 | 0.82 | 1.062 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.12 | 109.06 | 2.69 | 19.13 | 0.31 | 1.62% | 1.886 | 0.87 | 10.10 | 2.86 | 5.33 | 176 | 0.587 | 0.82 | 1.065 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.17 | 112.47 | 2.69 | 19.13 | 0.50 | 2.61% | 3.042 | 0.90 | 10.09 | 2.98 | 6.54 | 216 | 1.015 | 0.82 | 1.066 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.23 | 115.56 | 2.70 | 21.28 | 0.74 | 3.48% | 3.982 | 0.91 | 11.40 | 3.01 | 6.84 | 226 | 1.150 | 0.82 | 1.068 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.30 | 118.30 | 2.70 | 20.70 | 1.08 | 5.22% | 6.001 | 0.95 | 11.03 | 3.14 | 8.39 | 277 | 2.056 | 0.82 | 1.070 | 0.532 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.36 | 121.43 | 2.71 | 33.48 | 1.41 | 4.21% | 4.582 | 0.87 | 18.83 | 2.87 | 5.42 | 179 | 0.613 | 0.81 | 1.072 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.44 | 123.24 | 2.71 | 38.37 | 1.72 | 4.48% | 4.823 | 0.86 | 21.79 | 2.84 | 5.11 | 169 | 0.526 | 0.81 | 1.075 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.49 | 124.32 | 2.71 | 39.93 | 1.97 | 4.93% | 5.293 | 0.86 | 22.72 | 2.85 | 5.24 | 173 | 0.561 | 0.81 | 1.076 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.58 | 125.47 | 2.72 | 39.15 | 2.32 | 5.93% | 6.368 | 0.88 | 22.20 | 2.92 | 5.87 | 194 | 0.755 | 0.81 | 1.079 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.62 | 125.91 | 2.72 | 39.34 | 2.46 | 6.25% | 6.718 | 0.89 | 22.30 | 2.93 | 6.02 | 199 | 0.810 | 0.81 | 1.080 | 0.531 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.69 | 126.11 | 2.73 | 41.59 | 2.49 | 5.99% | 6.407 | 0.88 | 23.64 | 2.90 | 5.68 | 188 | 0.693 | 0.81 | 1.082 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.75 | 126.00 | 2.73 | 43.73 | 2.41 | 5.51% | 5.878 | 0.86 | 24.91 | 2.85 | 5.26 | 174 | 0.567 | 0.81 | 1.084 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.84 | 125.78 | 2.74 | 46.18 | 2.29 | 4.96% | 5.271 | 0.85 | 26.34 | 2.80 | 4.80 | 158 | 0.448 | 0.81 | 1.087 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.89 | 125.71 | 2.74 | 47.64 | 2.25 | 4.72% | 5.011 | 0.84 | 27.20 | 2.77 | 4.57 | 151 | 0.400 | 0.81 | 1.089 | 0.530 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 44.97 | 126.04 | 2.74 | 49.88 | 2.32 | 4.65% | 4.922 | 0.83 | 28.51 | 2.75 | 4.40 | 145 | 0.366 | 0.81 | 1.091 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.02 | 126.12 | 2.75 | 51.64 | 2.32 | 4.49% | 4.745 | 0.83 | 29.55 | 2.73 | 4.22 | 139 | 0.332 | 0.81 | 1.093 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.08 | 126.08 | 2.75 | 49.40 | 2.34 | 4.74% | 5.016 | 0.84 | 28.16 | 2.76 | 4.48 | 148 | 0.381 | 0.81 | 1.094 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.16 | 125.24 | 2.76 | 42.86 | 2.19 | 5.11% | 5.461 | 0.86 | 24.17 | 2.84 | 5.14 | 170 | 0.533 | 0.81 | 1.097 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.24 | 123.23 | 2.76 | 34.17 | 1.79 | 5.24% | 5.699 | 0.89 | 18.90 | 2.94 | 6.05 | 200 | 0.821 | 0.81 | 1.099 | 0.529 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.29 | 122.08 | 2.76 | 29.58 | 1.60 | 5.41% | 5.967 | 0.91 | 16.12 | 3.00 | 6.78 | 224 | 1.121 | 0.81 | 1.101 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.35 | 120.87 | 2.77 | 24.70 | 1.44 | 5.83% | 6.566 | 0.94 | 13.17 | 3.10 | 7.94 | 262 | 1.751 | 0.81 | 1.103 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.42 | 119.48 | 2.77 | 20.60 | 1.27 | 6.17% | 7.124 | 0.97 | 10.70 | 3.20 | 9.21 | 304 | 2.689 | 0.81 | 1.105 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.48 | 118.52 | 2.78 | 18.94 | 1.15 | 6.07% | 7.114 | 0.98 | 9.69 | 3.23 | 9.69 | 320 | 3.120 | 0.81 | 1.107 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.56 | 118.11 | 2.78 | 20.65 | 1.05 | 5.08% | 5.876 | 0.95 | 10.70 | 3.14 | 8.45 | 279 | 2.095 | 0.80 | 1.109 | 0.528 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.63 | 117.72 | 2.78 | 19.62 | 1.01 | 5.15% | 5.999 | 0.96 | 10.06 | 3.17 | 8.81 | 291 | 2.367 | 0.80 | 1.112 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.69 | 118.11 | 2.79 | 20.70 | 1.05 | 5.07% | 5.862 | 0.95 | 10.70 | 3.14 | 8.44 | 278 | 2.087 | 0.80 | 1.114 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.74 | 118.66 | 2.79 | 22.16 | 1.11 | 5.01% | 5.731 | 0.94 | 11.56 | 3.11 | 8.00 | 264 | 1.793 | 0.80 | 1.115 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.83 | 115.27 | 2.80 | 25.28 | 0.67 | 2.65% | 2.980 | 0.87 | 13.40 | 2.87 | 5.40 | 178 | 0.607 | 0.80 | 1.118 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.87 | 116.67 | 2.80 | 26.46 | 0.80 | 3.02% | 3.381 | 0.87 | 14.09 | 2.89 | 5.56 | 183 | 0.653 | 0.80 | 1.119 | 0.527 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 45.96 | 118.19 | 2.80 | 27.82 | 0.96 | 3.45% | 3.838 | 0.88 | 14.87 | 2.90 | 5.71 | 188 | 0.702 | 0.80 | 1.122 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.02 | 118.86 | 2.81 | 26.94 | 1.07 | 3.97% | 4.434 | 0.89 | 14.34 | 2.96 | 6.26 | 207 | 0.902 | 0.80 | 1.124 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.09 | 119.10 | 2.81 | 24.50 | 1.14 | 4.65% | 5.256 | 0.92 | 12.87 | 3.04 | 7.24 | 239 | 1.346 | 0.80 | 1.126 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.16 | 119.11 | 2.82 | 22.75 | 1.17 | 5.14% | 5.869 | 0.94 | 11.81 | 3.11 | 7.99 | 264 | 1.786 | 0.80 | 1.128 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.20 | 119.20 | 2.82 | 22.16 | 1.19 | 5.37% | 6.152 | 0.95 | 11.45 | 3.13 | 8.31 | 274 | 1.995 | 0.80 | 1.129 | 0.526 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.30 | 119.19 | 2.82 | 20.70 | 1.22 | 5.89% | 6.825 | 0.96 | 10.57 | 3.19 | 9.09 | 300 | 2.588 | 0.80 | 1.133 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.34 | 119.18 | 2.83 | 20.89 | 1.21 | 5.79% | 6.699 | 0.96 | 10.67 | 3.18 | 8.97 | 296 | 2.489 | 0.80 | 1.134 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.43 | 118.84 | 2.83 | 20.89 | 1.16 | 5.55% | 6.424 | 0.96 | 10.65 | 3.17 | 8.81 | 291 | 2.363 | 0.80 | 1.137 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.46 | 118.67 | 2.83 | 20.89 | 1.13 | 5.41% | 6.258 | 0.96 | 10.65 | 3.16 | 8.71 | 287 | 2.287 | 0.80 | 1.138 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.54 | 118.90 | 2.84 | 21.57 | 1.15 | 5.33% | 6.139 | 0.95 | 11.03 | 3.14 | 8.47 | 279 | 2.110 | 0.80 | 1.140 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.60 | 118.91 | 2.84 | 21.67 | 1.15 | 5.31% | 6.108 | 0.95 | 11.08 | 3.14 | 8.43 | 278 | 2.082 | 0.80 | 1.142 | 0.525 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.70 | 119.58 | 2.85 | 22.16 | 1.26 | 5.69% | 6.524 | 0.95 | 11.34 | 3.15 | 8.57 | 283 | 2.187 | 0.80 | 1.145 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.74 | 119.87 | 2.85 | 22.36 | 1.30 | 5.81% | 6.663 | 0.95 | 11.45 | 3.15 | 8.61 | 284 | 2.216 | 0.80 | 1.146 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.82 | 120.62 | 2.86 | 24.02 | 1.41 | 5.87% | 6.662 | 0.95 | 12.40 | 3.13 | 8.25 | 272 | 1.956 | 0.79 | 1.149 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.86 | 120.97 | 2.86 | 24.80 | 1.46 | 5.89% | 6.654 | 0.94 | 12.85 | 3.11 | 8.09 | 267 | 1.848 | 0.79 | 1.150 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 46.92 | 121.53 | 2.86 | 26.26 | 1.55 | 5.90% | 6.624 | 0.93 | 13.69 | 3.09 | 7.80 | 257 | 1.665 | 0.79 | 1.152 | 0.524 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.01 | 122.16 | 2.87 | 27.82 | 1.66 | 5.97% | 6.652 | 0.93 | 14.58 | 3.07 | 7.55 | 249 | 1.519 | 0.79 | 1.155 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.06 | 122.54 | 2.87 | 28.99 | 1.72 | 5.93% | 6.585 | 0.92 | 15.25 | 3.05 | 7.33 | 242 | 1.397 | 0.79 | 1.156 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.12 | 123.15 | 2.87 | 30.17 | 1.84 | 6.10% | 6.741 | 0.92 | 15.91 | 3.04 | 7.24 | 239 | 1.351 | 0.79 | 1.158 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.19 | 123.61 | 2.88 | 31.63 | 1.93 | 6.10% | 6.712 | 0.92 | 16.74 | 3.03 | 7.03 | 232 | 1.242 | 0.79 | 1.160 | 0.523 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |

## LIQUEFACTION ANALYSIS WITH CPT DATA

**TEST LOCATION:** CPT-5

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

| **Analysis Scenario:** | MCE (2% exceedance probability in 50 years) |
|---|---|

D(ft) 1 **MAGNITUDE:** 6.62 **MAGNITUDE SCALING FACTOR:** 1.38

**GROUNDWATER LEVEL:** 10 feet **ACCELERATION:** 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47.27 | 124.16 | 2.88 | 33.58 | 2.04 | 6.08% | 6.646 | 0.91 | 17.85 | 3.00 | 6.75 | 223 | 1.109 | 0.79 | 1.163 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.32 | 124.37 | 2.89 | 34.36 | 2.09 | 6.08% | 6.640 | 0.91 | 18.28 | 2.99 | 6.66 | 220 | 1.067 | 0.79 | 1.164 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.41 | 124.74 | 2.89 | 36.22 | 2.16 | 5.96% | 6.481 | 0.90 | 19.33 | 2.97 | 6.38 | 210 | 0.947 | 0.79 | 1.167 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.45 | 124.86 | 2.89 | 36.41 | 2.19 | 6.01% | 6.534 | 0.90 | 19.43 | 2.97 | 6.39 | 211 | 0.950 | 0.79 | 1.168 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.53 | 124.97 | 2.90 | 36.41 | 2.22 | 6.10% | 6.625 | 0.90 | 19.39 | 2.97 | 6.44 | 212 | 0.972 | 0.79 | 1.171 | 0.521 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.59 | 124.90 | 2.90 | 35.83 | 2.21 | 6.17% | 6.712 | 0.90 | 19.04 | 2.98 | 6.55 | 216 | 1.019 | 0.79 | 1.173 | 0.521 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.65 | 122.40 | 2.91 | 34.95 | 1.59 | 4.55% | 4.962 | 0.88 | 18.51 | 2.90 | 5.69 | 188 | 0.695 | 0.79 | 1.175 | 0.521 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.72 | 118.97 | 2.91 | 34.27 | 1.00 | 2.92% | 3.189 | 0.84 | 18.09 | 2.78 | 4.59 | 152 | 0.404 | 0.79 | 1.177 | 0.521 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.81 | 121.33 | 2.92 | 34.66 | 1.37 | 3.95% | 4.316 | 0.87 | 18.28 | 2.86 | 5.33 | 176 | 0.585 | 0.79 | 1.180 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.84 | 121.46 | 2.92 | 34.75 | 1.40 | 4.03% | 4.398 | 0.87 | 18.33 | 2.87 | 5.37 | 177 | 0.598 | 0.79 | 1.181 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.90 | 121.54 | 2.92 | 34.46 | 1.42 | 4.12% | 4.502 | 0.87 | 18.14 | 2.88 | 5.47 | 181 | 0.627 | 0.79 | 1.182 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 47.98 | 121.16 | 2.93 | 30.07 | 1.41 | 4.69% | 5.195 | 0.90 | 15.59 | 2.97 | 6.43 | 212 | 0.970 | 0.79 | 1.185 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.04 | 121.29 | 2.93 | 29.87 | 1.44 | 4.82% | 5.345 | 0.90 | 15.46 | 2.98 | 6.56 | 216 | 1.022 | 0.78 | 1.187 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.13 | 121.34 | 2.94 | 28.31 | 1.47 | 5.19% | 5.793 | 0.92 | 14.54 | 3.03 | 7.06 | 233 | 1.258 | 0.78 | 1.190 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.17 | 121.15 | 2.94 | 26.36 | 1.47 | 5.58% | 6.276 | 0.93 | 13.41 | 3.08 | 7.68 | 253 | 1.594 | 0.78 | 1.191 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.25 | 120.67 | 2.94 | 23.82 | 1.42 | 5.96% | 6.802 | 0.95 | 11.94 | 3.14 | 8.50 | 280 | 2.131 | 0.78 | 1.193 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.31 | 120.32 | 2.95 | 22.65 | 1.38 | 6.09% | 7.004 | 0.96 | 11.25 | 3.17 | 8.89 | 293 | 2.426 | 0.78 | 1.195 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.39 | 120.02 | 2.95 | 22.55 | 1.33 | 5.90% | 6.786 | 0.96 | 11.18 | 3.17 | 8.79 | 290 | 2.351 | 0.78 | 1.198 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.44 | 120.29 | 2.95 | 23.33 | 1.36 | 5.83% | 6.675 | 0.95 | 11.61 | 3.15 | 8.55 | 282 | 2.168 | 0.78 | 1.199 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.53 | 121.44 | 2.96 | 27.63 | 1.50 | 5.43% | 6.080 | 0.92 | 14.04 | 3.05 | 7.37 | 243 | 1.419 | 0.78 | 1.202 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.56 | 121.91 | 2.96 | 29.58 | 1.57 | 5.31% | 5.898 | 0.91 | 15.14 | 3.02 | 6.96 | 230 | 1.208 | 0.78 | 1.203 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.65 | 122.92 | 2.97 | 35.05 | 1.70 | 4.85% | 5.299 | 0.89 | 18.22 | 2.92 | 5.93 | 196 | 0.777 | 0.78 | 1.206 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.71 | 123.54 | 2.97 | 39.24 | 1.78 | 4.54% | 4.908 | 0.87 | 20.58 | 2.86 | 5.30 | 175 | 0.578 | 0.78 | 1.208 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.76 | 124.12 | 2.97 | 43.73 | 1.86 | 4.25% | 4.564 | 0.85 | 23.10 | 2.80 | 4.76 | 157 | 0.440 | 0.78 | 1.209 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.84 | 124.66 | 2.98 | 49.98 | 1.92 | 3.84% | 4.085 | 0.82 | 26.60 | 2.71 | 4.10 | 135 | 0.311 | 0.78 | 1.212 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.662 | 0.000 | | |
| 48.89 | 125.18 | 2.98 | 59.74 | 1.94 | 3.25% | 3.418 | 0.79 | 32.10 | 2.60 | 3.30 | 119 | 0.236 | 0.78 | 1.213 | 0.517 | | 0.46 | 0.63 | <= | 2.008 | 0.012 | 0.000 | 2.662 | 0.000 | 48.84 | 48.89 |
| 48.95 | 125.42 | 2.99 | 71.75 | 1.89 | 2.63% | 2.749 | 0.75 | 38.84 | 2.46 | 2.59 | 115 | 0.223 | 0.78 | 1.215 | 0.517 | | 0.43 | 0.59 | <= | 2.056 | 0.015 | 0.000 | 2.650 | 0.000 | 48.89 | 48.95 |
| 49.02 | 125.64 | 2.99 | 78.29 | 1.89 | 2.41% | 2.510 | 0.73 | 42.48 | 2.41 | 2.34 | 115 | 0.220 | 0.78 | 1.217 | 0.516 | | 0.43 | 0.59 | <= | 2.066 | 0.017 | 0.000 | 2.635 | 0.000 | 48.95 | 49.02 |
| 49.10 | 125.63 | 2.99 | 77.81 | 1.89 | 2.43% | 2.526 | 0.73 | 42.15 | 2.41 | 2.36 | 115 | 0.220 | 0.78 | 1.220 | 0.516 | | 0.43 | 0.59 | <= | 2.066 | 0.020 | 0.000 | 2.618 | 0.000 | 49.02 | 49.10 |
| 49.15 | 125.52 | 3.00 | 74.19 | 1.89 | 2.55% | 2.655 | 0.74 | 40.07 | 2.44 | 2.50 | 115 | 0.221 | 0.78 | 1.221 | 0.516 | | 0.43 | 0.59 | <= | 2.062 | 0.012 | 0.000 | 2.598 | 0.000 | 49.10 | 49.15 |
| 49.24 | 125.53 | 3.00 | 65.50 | 1.98 | 3.02% | 3.168 | 0.77 | 35.12 | 2.54 | 2.99 | 119 | 0.236 | 0.78 | 1.224 | 0.515 | | 0.46 | 0.63 | <= | 2.008 | 0.022 | 0.000 | 2.586 | 0.000 | 49.15 | 49.24 |
| 49.29 | 125.51 | 3.01 | 61.31 | 2.01 | 3.28% | 3.447 | 0.79 | 32.74 | 2.59 | 3.28 | 120 | 0.242 | 0.77 | 1.226 | 0.515 | | 0.47 | 0.65 | <= | 1.986 | 0.012 | 0.000 | 2.564 | 0.000 | 49.24 | 49.29 |
| 49.35 | 125.59 | 3.01 | 56.91 | 2.09 | 3.67% | 3.878 | 0.80 | 30.23 | 2.66 | 3.68 | 124 | 0.256 | 0.77 | 1.228 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.552 | 0.000 | | |
| 49.42 | 125.58 | 3.01 | 54.08 | 2.12 | 3.92% | 4.152 | 0.82 | 28.61 | 2.69 | 3.96 | 131 | 0.287 | 0.77 | 1.230 | 0.515 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.552 | 0.000 | | |
| 49.51 | 125.12 | 3.02 | 54.33 | 1.99 | 3.66% | 3.878 | 0.81 | 28.70 | 2.67 | 3.80 | 125 | 0.263 | 0.77 | 1.233 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.552 | 0.000 | | |
| 49.56 | 124.77 | 3.02 | 54.33 | 1.90 | 3.50% | 3.703 | 0.81 | 28.67 | 2.66 | 3.70 | 122 | 0.250 | 0.77 | 1.234 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.552 | 0.000 | | |
| 49.63 | 124.34 | 3.03 | 54.57 | 1.78 | 3.26% | 3.453 | 0.80 | 28.77 | 2.64 | 3.55 | 117 | 0.230 | 0.77 | 1.236 | 0.514 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.552 | 0.000 | | |
| 49.69 | 123.98 | 3.03 | 57.30 | 1.67 | 2.91% | 3.077 | 0.78 | 30.26 | 2.58 | 3.23 | 110 | 0.203 | 0.77 | 1.238 | 0.514 | | 0.40 | 0.54 | <= | 2.138 | 0.015 | 0.000 | 2.552 | 0.000 | 49.63 | 49.69 |
| 49.78 | 122.51 | 3.04 | 59.35 | 1.35 | 2.27% | 2.397 | 0.76 | 31.35 | 2.50 | 2.75 | 98 | 0.169 | 0.77 | 1.241 | 0.513 | | 0.33 | 0.45 | <= | 2.337 | 0.025 | 0.000 | 2.537 | 0.000 | 49.69 | 49.78 |
| 49.83 | 121.68 | 3.04 | 60.72 | 1.20 | 1.98% | 2.080 | 0.74 | 32.09 | 2.45 | 2.51 | 93 | 0.154 | 0.77 | 1.243 | 0.513 | | 0.30 | 0.41 | <= | 2.450 | 0.015 | 0.000 | 2.511 | 0.000 | 49.78 | 49.83 |
| 49.91 | 122.67 | 3.05 | 62.87 | 1.35 | 2.15% | 2.257 | 0.75 | 33.23 | 2.46 | 2.56 | 98 | 0.167 | 0.77 | 1.245 | 0.513 | | 0.33 | 0.45 | <= | 2.346 | 0.023 | 0.000 | 2.497 | 0.000 | 49.83 | 49.91 |
| 49.96 | 122.85 | 3.05 | 64.63 | 1.38 | 2.14% | 2.241 | 0.74 | 34.18 | 2.45 | 2.51 | 99 | 0.170 | 0.77 | 1.247 | 0.513 | | 0.33 | 0.46 | <= | 2.330 | 0.014 | 0.000 | 2.474 | 0.000 | 49.91 | 49.96 |
| 50.01 | 123.16 | 3.05 | 69.31 | 1.40 | 2.02% | 2.113 | 0.73 | 36.75 | 2.40 | 2.32 | 99 | 0.170 | 0.77 | 1.248 | 0.513 | | 0.33 | 0.46 | <= | 2.324 | 0.014 | 0.000 | 2.460 | 0.000 | 49.96 | 50.01 |
| 50.09 | 124.02 | 3.06 | 70.29 | 1.57 | 2.23% | 2.335 | 0.74 | 37.24 | 2.43 | 2.43 | 105 | 0.186 | 0.77 | 1.251 | 0.512 | | 0.36 | 0.50 | <= | 2.225 | 0.021 | 0.000 | 2.446 | 0.000 | 50.01 | 50.09 |
| 50.17 | 125.12 | 3.06 | 85.52 | 1.71 | 2.00% | 2.074 | 0.70 | 45.61 | 2.32 | 2.02 | 108 | 0.199 | 0.77 | 1.253 | 0.512 | | 0.39 | 0.53 | <= | 2.160 | 0.021 | 0.000 | 2.425 | 0.000 | 50.09 | 50.17 |
| 50.21 | 125.28 | 3.06 | 87.57 | 1.73 | 1.98% | 2.047 | 0.70 | 46.71 | 2.31 | 1.98 | 109 | 0.201 | 0.77 | 1.255 | 0.512 | | 0.39 | 0.54 | <= | 2.151 | 0.010 | 0.000 | 2.404 | 0.000 | 50.17 | 50.21 |
| 50.27 | 125.44 | 3.07 | 89.71 | 1.76 | 1.96% | 2.031 | 0.70 | 47.84 | 2.30 | 1.94 | 110 | 0.204 | 0.77 | 1.256 | 0.512 | | 0.40 | 0.55 | <= | 2.136 | 0.015 | 0.000 | 2.394 | 0.000 | 50.21 | 50.27 |
| 50.35 | 125.15 | 3.07 | 90.50 | 1.68 | 1.86% | 1.922 | 0.69 | 48.20 | 2.28 | 1.88 | 108 | 0.196 | 0.77 | 1.259 | 0.511 | | 0.38 | 0.53 | <= | 2.172 | 0.021 | 0.000 | 2.378 | 0.000 | 50.27 | 50.35 |
| 50.40 | 125.08 | 3.08 | 90.30 | 1.67 | 1.85% | 1.915 | 0.69 | 48.05 | 2.28 | 1.88 | 107 | 0.195 | 0.77 | 1.260 | 0.511 | | 0.38 | 0.53 | <= | 2.177 | 0.013 | 0.000 | 2.358 | 0.000 | 50.35 | 50.40 |
| 50.48 | 125.06 | 3.08 | 88.54 | 1.68 | 1.90% | 1.966 | 0.70 | 47.01 | 2.29 | 1.93 | 108 | 0.196 | 0.77 | 1.263 | 0.511 | | 0.38 | 0.53 | <= | 2.176 | 0.021 | 0.000 | 2.344 | 0.000 | 50.40 | 50.48 |
| 50.53 | 124.99 | 3.08 | 87.27 | 1.67 | 1.91% | 1.984 | 0.70 | 46.27 | 2.30 | 1.96 | 107 | 0.194 | 0.76 | 1.265 | 0.511 | | 0.38 | 0.52 | <= | 2.182 | 0.013 | 0.000 | 2.324 | 0.000 | 50.48 | 50.53 |
| 50.62 | 124.76 | 3.09 | 85.42 | 1.63 | 1.91% | 1.980 | 0.70 | 45.18 | 2.31 | 1.98 | 106 | 0.190 | 0.76 | 1.267 | 0.510 | | 0.37 | 0.51 | <= | 2.204 | 0.024 | 0.000 | 2.310 | 0.000 | 50.53 | 50.62 |
| 50.66 | 124.72 | 3.09 | 83.76 | 1.63 | 1.95% | 2.021 | 0.70 | 44.24 | 2.32 | 2.03 | 106 | 0.190 | 0.76 | 1.269 | 0.510 | | 0.37 | 0.51 | <= | 2.205 | 0.011 | 0.000 | 2.287 | 0.000 | 50.62 | 50.66 |
| 50.76 | 124.76 | 3.10 | 79.95 | 1.66 | 2.08% | 2.160 | 0.72 | 42.07 | 2.36 | 2.16 | 107 | 0.193 | 0.76 | 1.272 | 0.510 | | 0.38 | 0.52 | <= | 2.191 | 0.026 | 0.000 | 2.276 | 0.000 | 50.66 | 50.76 |
| 50.80 | 124.72 | 3.10 | 76.83 | 1.68 | 2.19% | 2.279 | 0.73 | 40.34 | 2.39 | 2.28 | 107 | 0.195 | 0.76 | 1.273 | 0.510 | | 0.38 | 0.53 | <= | 2.180 | 0.010 | 0.000 | 2.250 | 0.000 | 50.76 | 50.80 |
| 50.88 | 124.43 | 3.11 | 72.92 | 1.64 | 2.25% | 2.349 | 0.73 | 38.14 | 2.42 | 2.39 | 106 | 0.191 | 0.76 | 1.275 | 0.509 | | 0.38 | 0.52 | <= | 2.198 | 0.021 | 0.000 | 2.239 | 0.000 | 50.80 | 50.88 |
| 50.93 | 123.96 | 3.11 | 71.46 | 1.55 | 2.17% | 2.268 | 0.73 | 37.31 | 2.42 | 2.38 | 103 | 0.183 | 0.76 | 1.277 | 0.509 | | 0.36 | 0.49 | <= | 2.246 | 0.013 | 0.000 | 2.218 | 0.000 | 50.88 | 50.93 |
| 50.99 | 123.00 | 3.11 | 69.60 | 1.37 | 1.97% | 2.061 | 0.73 | 36.26 | 2.40 | 2.31 | 98 | 0.166 | 0.76 | 1.279 | 0.509 | | 0.33 | 0.45 | <= | 2.353 | 0.017 | 0.000 | 2.205 | 0.000 | 50.93 | 50.99 |
| 51.07 | 122.69 | 3.12 | 68.43 | 1.32 | 1.93% | 2.021 | 0.73 | 35.57 | 2.40 | 2.31 | 96 | 0.162 | 0.76 | 1.281 | 0.509 | | 0.32 | 0.44 | <= | 2.386 | 0.023 | 0.000 | 2.188 | 0.000 | 50.99 | 51.07 |
| 51.13 | 122.97 | 3.12 | 67.65 | 1.38 | 2.04% | 2.139 | 0.73 | 35.11 | 2.42 | 2.40 | 98 | 0.167 | 0.76 | 1.283 | 0.508 | | 0.33 | 0.45 | <= | 2.346 | 0.017 | 0.000 | 2.165 | 0.000 | 51.07 | 51.13 |
| 51.20 | 123.25 | 3.13 | 65.99 | 1.44 | 2.18% | 2.291 | 0.74 | 34.17 | 2.45 | 2.53 | 100 | 0.173 | 0.76 | 1.285 | 0.508 | | 0.34 | 0.47 | <= | 2.306 | 0.019 | 0.000 | 2.148 | 0.000 | 51.13 | 51.20 |
| 51.26 | 123.55 | 3.13 | 62.67 | 1.53 | 2.44% | 2.570 | 0.76 | 32.33 | 2.50 | 2.79 | 103 | 0.183 | 0.76 | 1.287 | 0.508 | | 0.36 | 0.50 | <= | 2.245 | 0.016 | 0.000 | 2.129 | 0.000 | 51.20 | 51.26 |
| 51.34 | 124.34 | 3.13 | 57.60 | 1.75 | 3.04% | 3.213 | 0.79 | 29.53 | 2.60 | 3.34 | 111 | 0.209 | 0.76 | 1.290 | 0.507 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.113 | 0.000 | | |
| 51.38 | 124.68 | 3.14 | 54.47 | 1.87 | 3.43% | 3.643 | 0.81 | 27.81 | 2.66 | 3.73 | 123 | 0.253 | 0.76 | 1.291 | 0.507 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.113 | 0.000 | | |
| 51.47 | 122.32 | 3.14 | 47.54 | 1.42 | 2.99% | 3.198 | 0.81 | 24.02 | 2.67 | 3.80 | 126 | 0.264 | 0.76 | 1.294 | 0.507 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 2.113 | 0.000 | | |
| 51.51 | 118.47 | 3.14 | 47.83 | 0.84 | 1.76% | 1.880 | 0.76 | 24.16 | 2.52 | 2.87 | 95 | 0.159 | 0.76 | 1.295 | 0.507 | | 0.31 | 0.43 | <= | 2.413 | 0.012 | 0.000 | 2.113 | 0.000 | 51.47 | 51.51 |
| 51.59 | 119.98 | 3.15 | 51.45 | 1.00 | 1.94% | 2.070 | 0.76 | 26.09 | 2.52 | 2.86 | 94 | 0.158 | 0.76 | 1.298 | 0.507 | | 0.31 | 0.43 | <= | 2.419 | 0.023 | 0.000 | 2.101 | 0.000 | 51.51 | 51.59 |
| 51.64 | 120.91 | 3.15 | 56.04 | 1.11 | 1.98% | 2.099 | 0.75 | 28.54 | 2.49 | 2.71 | 89 | 0.147 | 0.76 | 1.299 | 0.506 | | 0.29 | 0.40 | <= | 2.524 | 0.015 | 0.000 | 2.078 | 0.000 | 51.59 | 51.64 |
| 51.73 | 121.59 | 3.16 | 64.92 | 1.16 | 1.79% | 1.878 | 0.73 | 33.28 | 2.40 | 2.32 | 90 | 0.148 | 0.75 | 1.302 | 0.506 | | 0.29 | 0.40 | <= | 2.507 | 0.027 | 0.000 | 2.063 | 0.000 | 51.64 | 51.73 |
| 51.78 | 121.83 | 3.16 | 69.60 | 1.17 | 1.68% | 1.761 | 0.71 | 35.77 | 2.36 | 2.14 | 90 | 0.149 | 0.75 | 1.304 | 0.506 | | 0.29 | 0.40 | <= | 2.502 | 0.015 | 0.000 | 2.035 | 0.000 | 51.73 | 51.78 |
| 51.87 | 122.01 | 3.17 | 75.66 | 1.16 | 1.53% | 1.600 | 0.70 | 38.98 | 2.30 | 1.94 | 90 | 0.148 | 0.75 | 1.306 | 0.506 | | 0.29 | 0.40 | <= | 2.507 | 0.027 | 0.000 | 2.020 | 0.000 | 51.78 | 51.87 |
| 51.91 | 122.02 | 3.17 | 78.78 | 1.15 | 1.46% | 1.521 | 0.69 | 40.63 | 2.27 | 1.85 | 90 | 0.148 | 0.75 | 1.308 | 0.505 | | 0.29 | 0.40 | <= | 2.509 | 0.012 | 0.000 | 1.993 | 0.000 | 51.87 | 51.91 |
| 51.99 | 122.24 | 3.17 | 78.59 | 1.19 | 1.51% | 1.578 | 0.69 | 40.47 | 2.28 | 1.88 | 91 | 0.151 | 0.75 | 1.310 | 0.505 | | 0.30 | 0.41 | <= | 2.482 | 0.024 | 0.000 | 1.981 | 0.000 | 51.91 | 51.99 |
| 52.05 | 123.06 | 3.18 | 75.95 | 1.34 | 1.76% | 1.841 | 0.71 | 39.01 | 2.34 | 2.07 | 96 | 0.162 | 0.75 | 1.312 | 0.505 | | 0.32 | 0.44 | <= | 2.385 | 0.017 | 0.000 | 1.958 | 0.000 | 51.99 | 52.05 |
| 52.11 | 124.59 | 3.18 | 67.07 | 1.72 | 2.56% | 2.692 | 0.76 | 34.22 | 2.50 | 2.75 | 109 | 0.199 | 0.75 | 1.314 | 0.505 | | 0.39 | 0.54 | <= | 2.158 | 0.016 | 0.000 | 1.940 | 0.000 | 52.05 | 52.11 |
| 52.19 | 124.14 | 3.19 | 59.35 | 1.69 | 2.85% | 3.009 | 0.78 | 30.04 | 2.58 | 3.18 | 109 | 0.199 | 0.75 | 1.316 | 0.504 | | 0.40 | 0.54 | <= | 2.157 | 0.021 | 0.000 | 1.925 | 0.000 | 52.11 | 52.19 |
| 52.24 | 122.94 | 3.19 | 53.69 | 1.48 | 2.76% | 2.931 | 0.79 | 26.99 | 2.61 | 3.36 | 111 | 0.207 | 0.75 | 1.318 | 0.504 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.904 | 0.000 | | |
| 52.32 | 122.04 | 3.19 | 58.62 | 1.27 | 2.17% | 2.291 | 0.76 | 29.58 | 2.50 | 2.77 | 94 | 0.158 | 0.75 | 1.320 | 0.504 | | 0.31 | 0.43 | <= | 2.416 | 0.023 | 0.000 | 1.904 | 0.000 | 52.24 | 52.32 |
| 52.40 | 122.40 | 3.20 | 48.71 | 1.42 | 2.92% | 3.120 | 0.81 | 24.26 | 2.66 | 3.72 | 123 | 0.252 | 0.75 | 1.323 | 0.503 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.881 | 0.000 | | |
| 52.45 | 123.80 | 3.20 | 57.89 | 1.62 | 2.80% | 2.962 | 0.78 | 29.13 | 2.58 | 3.21 | 106 | 0.192 | 0.75 | 1.324 | 0.503 | | 0.38 | 0.53 | <= | 2.193 | 0.013 | 0.000 | 1.881 | 0.000 | 52.40 | 52.45 |
| 52.50 | 124.92 | 3.21 | 65.99 | 1.81 | 2.74% | 2.883 | 0.77 | 33.41 | 2.53 | 2.90 | 111 | 0.208 | 0.75 | 1.326 | 0.503 | | 0.41 | 0.57 | <= | 2.115 | 0.013 | 0.000 | 1.868 | 0.000 | 52.45 | 52.50 |
| 52.58 | 125.61 | 3.21 | 68.82 | 1.96 | 2.85% | 2.987 | 0.76 | 34.87 | 2.52 | 2.88 | 116 | 0.223 | 0.75 | 1.328 | 0.503 | | 0.44 | 0.61 | <= | 2.053 | 0.020 | 0.000 | 1.855 | 0.000 | 52.50 | 52.58 |
| 52.63 | 125.66 | 3.21 | 68.87 | 1.98 | 2.87% | 3.016 | 0.77 | 34.86 | 2.52 | 2.90 | 116 | 0.225 | 0.75 | 1.330 | 0.503 | | 0.45 | 0.62 | <= | 2.045 | 0.012 | 0.000 | 1.835 | 0.000 | 52.58 | 52.63 |
| 52.72 | 125.60 | 3.22 | 68.92 | 1.96 | 2.84% | 2.983 | 0.76 | 34.84 | 2.52 | 2.88 | 115 | 0.223 | 0.75 | 1.333 | 0.502 | | 0.44 | 0.61 | <= | 2.055 | 0.022 | 0.000 | 1.823 | 0.000 | 52.63 | 52.72 |
| 52.76 | 125.79 | 3.22 | 74.10 | 1.96 | 2.65% | 2.765 | 0.75 | 37.56 | 2.47 | 2.63 | 115 | 0.221 | 0.75 | 1.334 | 0.502 | | 0.44 | 0.60 | <= | 2.064 | 0.010 | 0.000 | 1.801 | 0.000 | 52.72 | 52.76 |
| 52.85 | 125.92 | 3.23 | 79.56 | 1.95 | 2.45% | 2.555 | 0.73 | 40.38 | 2.42 | 2.41 | 114 | 0.218 | 0.75 | 1.337 | 0.502 | | 0.43 | 0.60 | <= | 2.076 | 0.022 | 0.000 | 1.791 | 0.000 | 52.76 | 52.85 |
| 52.90 | 126.02 | 3.23 | 79.56 | 1.98 | 2.49% | 2.594 | 0.74 | 40.35 | 2.43 | 2.43 | 115 | 0.221 | 0.75 | 1.338 | 0.501 | | 0.44 | 0.61 | <= | 2.064 | 0.012 | 0.000 | 1.769 | 0.000 | 52.85 | 52.90 |
| 52.99 | 126.11 | 3.24 | 78.00 | 2.02 | 2.59% | 2.702 | 0.74 | 39.46 | 2.45 | 2.52 | 116 | 0.225 | 0.74 | 1.341 | 0.501 | | 0.45 | 0.62 | <= | 2.046 | 0.022 | 0.000 | 1.756 | 0.000 | 52.90 | 52.99 |
| 53.03 | 125.98 | 3.24 | 76.15 | 2.00 | 2.63% | 2.743 | 0.75 | 38.46 | 2.46 | 2.58 | 116 | 0.224 | 0.74 | 1.343 | 0.501 | | 0.45 | 0.61 | <= | 2.053 | 0.010 | 0.000 | 1.734 | 0.000 | 52.99 | 53.03 |
| 53.10 | 125.81 | 3.24 | 75.85 | 1.95 | 2.57% | 2.686 | 0.74 | 38.25 | 2.46 | 2.56 | 114 | 0.218 | 0.74 | 1.345 | 0.501 | | 0.44 | 0.60 | <= | 2.074 | 0.017 | 0.000 | 1.724 | 0.000 | 53.03 | 53.10 |
| 53.16 | 126.04 | 3.25 | 78.78 | 1.99 | 2.53% | 2.635 | 0.74 | 39.75 | 2.44 | 2.47 | 115 | 0.221 | 0.74 | 1.347 | 0.500 | | 0.44 | 0.61 | <= | 2.061 | 0.015 | 0.000 | 1.707 | 0.000 | 53.10 | 53.16 |
| 53.25 | 126.61 | 3.25 | 86.30 | 2.09 | 2.42% | 2.517 | 0.73 | 43.64 | 2.39 | 2.28 | 117 | 0.230 | 0.74 | 1.349 | 0.500 | | 0.46 | 0.63 | <= | 2.028 | 0.022 | 0.000 | 1.692 | 0.000 | 53.16 | 53.25 |
| 53.30 | 126.97 | 3.26 | 90.89 | 2.16 | 2.38% | 2.465 | 0.72 | 46.01 | 2.37 | 2.18 | 119 | 0.237 | 0.74 | 1.351 | 0.500 | | 0.47 | 0.65 | <= | 2.004 | 0.012 | 0.000 | 1.670 | 0.000 | 53.25 | 53.30 |
| 53.37 | 127.35 | 3.26 | 95.18 | 2.24 | 2.35% | 2.437 | 0.71 | 48.21 | 2.35 | 2.11 | 121 | 0.245 | 0.74 | 1.353 | 0.499 | | 0.49 | 0.68 | <= | 1.977 | 0.017 | 0.000 | 1.658 | 0.000 | 53.30 | 53.37 |
| 53.43 | 124.75 | 3.26 | 98.01 | 1.55 | 1.58% | 1.636 | 0.67 | 49.64 | 2.21 | 1.70 | 103 | 0.182 | 0.74 | 1.355 | 0.499 | | 0.36 | 0.50 | <= | 2.250 | 0.016 | 0.000 | 1.641 | 0.000 | 53.37 | 53.43 |
| 53.48 | 123.28 | 3.27 | 99.77 | 1.26 | 1.26% | 1.306 | 0.65 | 50.52 | 2.14 | 1.54 | 96 | 0.162 | 0.74 | 1.357 | 0.499 | | 0.32 | 0.45 | <= | 2.385 | 0.014 | 0.000 | 1.625 | 0.000 | 53.43 | 53.48 |
| 53.56 | 124.45 | 3.27 | 98.40 | 1.49 | 1.51% | 1.566 | 0.67 | 49.74 | 2.20 | 1.67 | 102 | 0.177 | 0.74 | 1.359 | 0.499 | | 0.36 | 0.49 | <= | 2.278 | 0.022 | 0.000 | 1.611 | 0.000 | 53.48 | 53.56 |
| 53.61 | 125.13 | 3.27 | 96.94 | 1.64 | 1.69% | 1.751 | 0.68 | 48.93 | 2.24 | 1.77 | 105 | 0.188 | 0.74 | 1.361 | 0.499 | | 0.38 | 0.52 | <= | 2.213 | 0.013 | 0.000 | 1.589 | 0.000 | 53.56 | 53.61 |
| 53.70 | 125.99 | 3.28 | 90.11 | 1.89 | 2.10% | 2.177 | 0.71 | 45.29 | 2.33 | 2.06 | 111 | 0.209 | 0.74 | 1.363 | 0.498 | | 0.42 | 0.58 | <= | 2.113 | 0.023 | 0.000 | 1.576 | 0.000 | 53.61 | 53.70 |
| 53.75 | 126.30 | 3.28 | 84.44 | 2.02 | 2.39% | 2.489 | 0.73 | 42.30 | 2.40 | 2.30 | 115 | 0.222 | 0.74 | 1.365 | 0.498 | | 0.45 | 0.61 | <= | 2.059 | 0.012 | 0.000 | 1.553 | 0.000 | 53.70 | 53.75 |
| 53.81 | 126.46 | 3.29 | 77.90 | 2.12 | 2.72% | 2.841 | 0.75 | 38.85 | 2.47 | 2.61 | 118 | 0.234 | 0.74 | 1.367 | 0.498 | | 0.47 | 0.65 | <= | 2.014 | 0.014 | 0.000 | 1.541 | 0.000 | 53.75 | 53.81 |
| 53.88 | 126.72 | 3.29 | 79.46 | 2.18 | 2.74% | 2.862 | 0.75 | 39.61 | 2.46 | 2.59 | 120 | 0.240 | 0.74 | 1.369 | 0.497 | | 0.48 | 0.66 | <= | 1.993 | 0.017 | 0.000 | 1.526 | 0.000 | 53.81 | 53.88 |
| 53.97 | 126.69 | 3.30 | 75.07 | 2.21 | 2.94% | 3.079 | 0.76 | 37.27 | 2.51 | 2.80 | 121 | 0.245 | 0.74 | 1.372 | 0.497 | | 0.49 | 0.68 | <= | 1.977 | 0.021 | 0.000 | 1.509 | 0.000 | 53.88 | 53.97 |
| 54.01 | 126.57 | 3.30 | 75.17 | 2.17 | 2.89% | 3.019 | 0.76 | 37.29 | 2.50 | 2.77 | 120 | 0.240 | 0.74 | 1.373 | 0.497 | | 0.48 | 0.67 | <= | 1.992 | 0.010 | 0.000 | 1.488 | 0.000 | 53.97 | 54.01 |
| 54.08 | 126.07 | 3.30 | 76.44 | 2.02 | 2.64% | 2.762 | 0.75 | 37.91 | 2.47 | 2.61 | 115 | 0.223 | 0.74 | 1.375 | 0.497 | | 0.45 | 0.62 | <= | 2.054 | 0.017 | 0.000 | 1.478 | 0.000 | 54.01 | 54.08 |
| 54.15 | 125.28 | 3.31 | 77.71 | 1.80 | 2.32% | 2.419 | 0.73 | 38.52 | 2.42 | 2.40 | 109 | 0.200 | 0.74 | 1.377 | 0.496 | | 0.40 | 0.55 | <= | 2.154 | 0.018 | 0.000 | 1.461 | 0.000 | 54.08 | 54.15 |
| 54.23 | 124.29 | 3.31 | 74.88 | 1.59 | 2.12% | 2.222 | 0.73 | 37.00 | 2.41 | 2.35 | 103 | 0.181 | 0.73 | 1.380 | 0.496 | | 0.36 | 0.50 | <= | 2.259 | 0.022 | 0.000 | 1.443 | 0.000 | 54.15 | 54.23 |
| 54.28 | 124.09 | 3.32 | 71.36 | 1.58 | 2.21% | 2.322 | 0.74 | 35.16 | 2.44 | 2.48 | 103 | 0.180 | 0.73 | 1.382 | 0.496 | | 0.36 | 0.50 | <= | 2.261 | 0.014 | 0.000 | 1.421 | 0.000 | 54.23 | 54.28 |
| 54.35 | 124.14 | 3.32 | 66.58 | 1.62 | 2.43% | 2.561 | 0.76 | 32.65 | 2.50 | 2.74 | 104 | 0.185 | 0.73 | 1.384 | 0.495 | | 0.37 | 0.51 | <= | 2.231 | 0.019 | 0.000 | 1.408 | 0.000 | 54.28 | 54.35 |
| 54.41 | 124.10 | 3.33 | 61.99 | 1.65 | 2.66% | 2.813 | 0.77 | 30.25 | 2.55 | 3.03 | 106 | 0.190 | 0.73 | 1.386 | 0.495 | | 0.38 | 0.53 | <= | 2.205 | 0.016 | 0.000 | 1.389 | 0.000 | 54.35 | 54.41 |
| 54.47 | 123.86 | 3.33 | 56.04 | 1.66 | 2.96% | 3.149 | 0.79 | 27.15 | 2.62 | 3.46 | 114 | 0.219 | 0.73 | 1.387 | 0.495 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.373 | 0.000 | | |
| 54.53 | 123.79 | 3.33 | 53.30 | 1.67 | 3.13% | 3.342 | 0.81 | 25.71 | 2.66 | 3.71 | 122 | 0.250 | 0.73 | 1.389 | 0.495 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.373 | 0.000 | | |
| 54.60 | 123.38 | 3.34 | 50.57 | 1.61 | 3.18% | 3.409 | 0.81 | 24.28 | 2.68 | 3.89 | 128 | 0.276 | 0.73 | 1.392 | 0.494 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.373 | 0.000 | | |
| 54.68 | 122.40 | 3.34 | 48.62 | 1.42 | 2.92% | 3.136 | 0.81 | 23.25 | 2.68 | 3.82 | 126 | 0.266 | 0.73 | 1.394 | 0.494 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.373 | 0.000 | | |
| 54.73 | 122.12 | 3.34 | 46.57 | 1.39 | 2.98% | 3.216 | 0.82 | 22.18 | 2.70 | 3.99 | 132 | 0.293 | 0.73 | 1.396 | 0.494 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.373 | 0.000 | | |
| 54.82 | 121.97 | 3.35 | 42.56 | 1.40 | 3.29% | 3.571 | 0.84 | 20.09 | 2.77 | 4.50 | 148 | 0.384 | 0.73 | 1.398 | 0.494 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.373 | 0.000 | | |
| 54.86 | 121.68 | 3.35 | 40.03 | 1.38 | 3.45% | 3.763 | 0.85 | 18.78 | 2.81 | 4.83 | 159 | 0.456 | 0.73 | 1.400 | 0.493 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.373 | 0.000 | | |
| 54.95 | 121.79 | 3.36 | 38.95 | 1.41 | 3.62% | 3.962 | 0.86 | 18.20 | 2.83 | 5.06 | 167 | 0.513 | 0.73 | 1.402 | 0.493 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.373 | 0.000 | | |
| 54.99 | 121.78 | 3.36 | 39.44 | 1.40 | 3.55% | 3.880 | 0.85 | 18.44 | 2.82 | 4.96 | 164 | 0.488 | 0.73 | 1.404 | 0.493 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.373 | 0.000 | | |
| 55.08 | 121.78 | 3.37 | 49.01 | 1.30 | 2.65% | 2.848 | 0.80 | 23.29 | 2.65 | 3.62 | 119 | 0.238 | 0.73 | 1.406 | 0.492 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 1.373 | 0.000 | | |
| 55.13 | 121.72 | 3.37 | 57.60 | 1.23 | 2.14% | 2.268 | 0.76 | 27.65 | 2.52 | 2.86 | 94 | 0.158 | 0.73 | 1.408 | 0.492 | | 0.32 | 0.44 | <= | 2.419 | 0.015 | 0.000 | 1.373 | 0.000 | 55.08 | 55.13 |
| 55.22 | 122.22 | 3.37 | 71.56 | 1.22 | 1.70% | 1.789 | 0.72 | 34.72 | 2.37 | 2.18 | 90 | 0.149 | 0.73 | 1.411 | 0.492 | | 0.30 | 0.42 | <= | 2.501 | 0.027 | 0.000 | 1.359 | 0.000 | 55.13 | 55.22 |
| 55.27 | 123.19 | 3.38 | 85.22 | 1.31 | 1.54% | 1.601 | 0.69 | 41.64 | 2.27 | 1.85 | 94 | 0.157 | 0.73 | 1.412 | 0.492 | | 0.32 | 0.44 | <= | 2.427 | 0.015 | 0.000 | 1.332 | 0.000 | 55.22 | 55.27 |
| 55.35 | 124.27 | 3.38 | 98.31 | 1.45 | 1.47% | 1.527 | 0.67 | 48.24 | 2.20 | 1.67 | 99 | 0.171 | 0.73 | 1.415 | 0.491 | | 0.35 | 0.48 | <= | 2.317 | 0.022 | 0.000 | 1.317 | 0.000 | 55.27 | 55.35 |
| 55.40 | 124.53 | 3.39 | 100.84 | 1.49 | 1.48% | 1.529 | 0.67 | 49.49 | 2.19 | 1.65 | 101 | 0.176 | 0.73 | 1.416 | 0.491 | | 0.36 | 0.49 | <= | 2.290 | 0.014 | 0.000 | 1.295 | 0.000 | 55.35 | 55.40 |
| 55.46 | 124.47 | 3.39 | 99.96 | 1.48 | 1.48% | 1.533 | 0.67 | 48.99 | 2.20 | 1.66 | 100 | 0.174 | 0.72 | 1.418 | 0.491 | | 0.35 | 0.49 | <= | 2.298 | 0.017 | 0.000 | 1.281 | 0.000 | 55.40 | 55.46 |
| 55.52 | 124.38 | 3.39 | 100.99 | 1.46 | 1.45% | 1.496 | 0.66 | 49.46 | 2.19 | 1.63 | 100 | 0.173 | 0.72 | 1.420 | 0.491 | | 0.35 | 0.49 | <= | 2.305 | 0.017 | 0.000 | 1.265 | 0.000 | 55.46 | 55.52 |
| 55.58 | 123.64 | 3.40 | 99.67 | 1.33 | 1.33% | 1.381 | 0.66 | 48.75 | 2.17 | 1.59 | 96 | 0.164 | 0.72 | 1.422 | 0.490 | | 0.33 | 0.46 | <= | 2.374 | 0.017 | 0.000 | 1.248 | 0.000 | 55.52 | 55.58 |
| 55.67 | 123.80 | 3.40 | 101.14 | 1.35 | 1.33% | 1.381 | 0.66 | 49.42 | 2.16 | 1.58 | 97 | 0.166 | 0.72 | 1.425 | 0.490 | | 0.34 | 0.46 | <= | 2.359 | 0.025 | 0.000 | 1.231 | 0.000 | 55.58 | 55.67 |
| 55.76 | 123.72 | 3.45 | 107.29 | 1.31 | 1.22% | 1.262 | 0.64 | 51.40 | 2.12 | 1.49 | 97 | 0.165 | 0.72 | 1.428 | 0.486 | | 0.34 | 0.47 | <= | 2.364 | 0.026 | 0.000 | 1.205 | 0.000 | 55.67 | 55.76 |
| 55.79 | 124.14 | 3.45 | 112.27 | 1.37 | 1.22% | 1.259 | 0.64 | 53.89 | 2.10 | 1.46 | 100 | 0.172 | 0.72 | 1.429 | 0.486 | | 0.35 | 0.49 | <= | 2.311 | 0.008 | 0.000 | 1.180 | 0.000 | 55.76 | 55.79 |
| 55.86 | 124.88 | 3.45 | 127.59 | 1.45 | 1.14% | 1.168 | 0.62 | 61.54 | 2.03 | 1.34 | 106 | 0.192 | 0.72 | 1.431 | 0.486 | | 0.40 | 0.54 | <= | 2.193 | 0.018 | 0.000 | 1.172 | 0.000 | 55.79 | 55.86 |
| 55.92 | 125.21 | 3.45 | 133.45 | 1.49 | 1.12% | 1.146 | 0.61 | 64.51 | 2.01 | 1.31 | 109 | 0.202 | 0.72 | 1.433 | 0.486 | | 0.42 | 0.57 | <= | 2.145 | 0.015 | 0.000 | 1.153 | 0.000 | 55.86 | 55.92 |
| 55.98 | 125.75 | 3.45 | 145.16 | 1.56 | 1.07% | 1.101 | 0.60 | 70.38 | 1.97 | 1.26 | 115 | 0.223 | 0.72 | 1.435 | 0.486 | | 0.46 | 0.63 | <= | 2.054 | 0.015 | 0.000 | 1.138 | 0.000 | 55.92 | 55.98 |
| 56.04 | 126.55 | 3.45 | 155.71 | 1.70 | 1.09% | 1.116 | 0.59 | 75.69 | 1.94 | 1.23 | 122 | 0.250 | 0.72 | 1.436 | 0.486 | | 0.51 | 0.71 | <= | 1.553 | 0.011 | 0.000 | 1.123 | 0.000 | 55.98 | 56.04 |
| 56.11 | 127.24 | 3.45 | 162.44 | 1.84 | 1.13% | 1.157 | 0.59 | 79.12 | 1.94 | 1.23 | 127 | 0.272 | 0.72 | 1.439 | 0.486 | | 0.56 | 0.77 | <= | 1.758 | 0.015 | 0.000 | 1.112 | 0.000 | 56.04 | 56.11 |
| 56.18 | 128.05 | 3.45 | 165.27 | 2.05 | 1.24% | 1.267 | 0.60 | 80.62 | 1.96 | 1.25 | 132 | 0.292 | 0.72 | 1.441 | 0.486 | | 0.60 | 0.83 | <= | 1.117 | 0.009 | 0.000 | 1.097 | 0.000 | 56.11 | 56.18 |
| 56.24 | 128.66 | 3.45 | 167.32 | 2.21 | 1.32% | 1.349 | 0.60 | 81.72 | 1.98 | 1.27 | 135 | 0.308 | 0.72 | 1.443 | 0.487 | | 0.63 | 0.87 | <= | 1.224 | 0.009 | 0.000 | 1.088 | 0.000 | 56.18 | 56.24 |
| 56.32 | 129.30 | 3.45 | 168.11 | 2.41 | 1.43% | 1.464 | 0.61 | 82.21 | 2.00 | 1.30 | 138 | 0.326 | 0.72 | 1.445 | 0.487 | | 0.67 | 0.92 | <= | 0.716 | 0.007 | 0.000 | 1.079 | 0.000 | 56.24 | 56.32 |
| 56.37 | 129.54 | 3.45 | 168.98 | 2.49 | 1.47% | 1.504 | 0.61 | 82.71 | 2.01 | 1.31 | 140 | 0.334 | 0.72 | 1.447 | 0.487 | | 0.69 | 0.95 | <= | 0.777 | 0.005 | 0.000 | 1.072 | 0.000 | 56.32 | 56.37 |
| 56.47 | 129.60 | 3.45 | 168.79 | 2.51 | 1.49% | 1.518 | 0.61 | 82.75 | 2.01 | 1.31 | 140 | 0.336 | 0.72 | 1.450 | 0.487 | | 0.69 | 0.95 | <= | 0.789 | 0.009 | 0.000 | 1.067 | 0.000 | 56.37 | 56.47 |
| 56.50 | 129.56 | 3.45 | 166.15 | 2.51 | 1.51% | 1.543 | 0.61 | 81.46 | 2.02 | 1.33 | 139 | 0.331 | 0.72 | 1.451 | 0.487 | | 0.68 | 0.93 | <= | 0.750 | 0.003 | 0.000 | 1.058 | 0.000 | 56.47 | 56.50 |
| 56.60 | 129.37 | 3.45 | 153.56 | 2.51 | 1.63% | 1.672 | 0.63 | 75.28 | 2.07 | 1.41 | 135 | 0.308 | 0.72 | 1.454 | 0.487 | | 0.63 | 0.87 | <= | 1.219 | 0.015 | 0.000 | 1.055 | 0.000 | 56.50 | 56.60 |
| 56.64 | 129.52 | 3.45 | 146.34 | 2.61 | 1.78% | 1.827 | 0.64 | 71.70 | 2.12 | 1.49 | 135 | 0.307 | 0.72 | 1.455 | 0.487 | | 0.63 | 0.87 | <= | 1.208 | 0.006 | 0.000 | 1.040 | 0.000 | 56.60 | 56.64 |
| 56.73 | 130.27 | 3.45 | 131.79 | 2.99 | 2.27% | 2.330 | 0.68 | 64.49 | 2.23 | 1.75 | 139 | 0.330 | 0.71 | 1.458 | 0.488 | | 0.68 | 0.93 | <= | 0.743 | 0.008 | 0.000 | 1.035 | 0.000 | 56.64 | 56.73 |
| 56.78 | 130.24 | 3.45 | 122.52 | 3.05 | 2.49% | 2.561 | 0.69 | 59.88 | 2.29 | 1.91 | 139 | 0.332 | 0.71 | 1.460 | 0.488 | | 0.68 | 0.94 | <= | 0.755 | 0.005 | 0.000 | 1.027 | 0.000 | 56.73 | 56.78 |
| 56.83 | 130.05 | 3.45 | 109.83 | 3.08 | 2.80% | 2.895 | 0.72 | 53.54 | 2.36 | 2.17 | 140 | 0.333 | 0.71 | 1.461 | 0.488 | | 0.68 | 0.94 | <= | 0.765 | 0.005 | 0.000 | 1.022 | 0.000 | 56.78 | 56.83 |
| 56.91 | 129.13 | 3.45 | 94.30 | 2.86 | 3.03% | 3.148 | 0.74 | 45.78 | 2.44 | 2.50 | 135 | 0.309 | 0.71 | 1.464 | 0.488 | | 0.63 | 0.87 | <= | 1.810 | 0.017 | 0.000 | 1.017 | 0.000 | 56.83 | 56.91 |
| 56.97 | 128.78 | 3.45 | 85.32 | 2.82 | 3.31% | 3.444 | 0.76 | 41.30 | 2.51 | 2.80 | 135 | 0.309 | 0.71 | 1.465 | 0.488 | | 0.63 | 0.87 | <= | 1.811 | 0.013 | 0.000 | 1.000 | 0.000 | 56.91 | 56.97 |
| 57.03 | 128.92 | 3.45 | 92.16 | 2.80 | 3.04% | 3.156 | 0.74 | 44.79 | 2.45 | 2.53 | 134 | 0.303 | 0.71 | 1.467 | 0.488 | | 0.62 | 0.85 | <= | 1.823 | 0.013 | 0.000 | 0.987 | 0.000 | 56.97 | 57.03 |
| 57.09 | 128.80 | 3.45 | 120.17 | 2.52 | 2.10% | 2.159 | 0.68 | 58.98 | 2.24 | 1.76 | 128 | 0.274 | 0.71 | 1.469 | 0.488 | | 0.56 | 0.77 | <= | 1.892 | 0.014 | 0.000 | 0.974 | 0.000 | 57.03 | 57.09 |
| 57.18 | 127.98 | 3.45 | 170.94 | 2.00 | 1.17% | 1.194 | 0.59 | 84.76 | 1.93 | 1.22 | 134 | 0.306 | 0.71 | 1.472 | 0.489 | | 0.63 | 0.86 | <= | 1.197 | 0.013 | 0.000 | 0.960 | 0.000 | 57.09 | 57.18 |
| 57.22 | 128.83 | 3.45 | 198.27 | 2.14 | 1.08% | 1.098 | 0.56 | 98.65 | 1.85 | 1.15 | 150 | 0.391 | 0.71 | 1.473 | 0.489 | | 0.80 | 1.10 | <= | 0.302 | 0.001 | 0.000 | 0.947 | 0.000 | 57.18 | 57.22 |
| 57.30 | 129.76 | 3.45 | 223.46 | 2.34 | 1.05% | 1.064 | 0.55 | 111.55 | 1.80 | 1.11 | 165 | 0.496 | 0.71 | 1.476 | 0.489 | | 1.01 | 1.40 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 57.36 | 130.11 | 3.45 | 233.90 | 2.41 | 1.03% | 1.046 | 0.54 | 116.95 | 1.78 | 1.09 | 171 | 0.545 | 0.71 | 1.478 | 0.489 | | 1.12 | 1.53 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 57.43 | 130.13 | 3.45 | 235.95 | 2.42 | 1.03% | 1.041 | 0.54 | 118.13 | 1.77 | 1.09 | 172 | 0.556 | 0.71 | 1.480 | 0.489 | | 1.14 | 1.56 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 57.49 | 130.12 | 3.45 | 232.24 | 2.42 | 1.04% | 1.058 | 0.54 | 116.35 | 1.78 | 1.09 | 170 | 0.540 | 0.71 | 1.482 | 0.489 | | 1.10 | 1.52 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 57.55 | 130.48 | 3.45 | 247.28 | 2.49 | 1.01% | 1.021 | 0.53 | 124.12 | 1.75 | 1.07 | 179 | 0.614 | 0.71 | 1.484 | 0.489 | | 1.26 | 1.73 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 57.63 | 130.76 | 3.45 | 256.36 | 2.56 | 1.00% | 1.012 | 0.53 | 128.90 | 1.74 | 1.06 | 185 | 0.665 | 0.71 | 1.486 | 0.490 | | 1.36 | 1.87 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 57.72 | 130.91 | 3.45 | 267.19 | 2.58 | 0.97% | 0.978 | 0.52 | 134.62 | 1.71 | 1.05 | 191 | 0.723 | 0.71 | 1.489 | 0.490 | | 1.48 | 2.03 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 57.76 | 130.87 | 3.45 | 275.39 | 2.54 | 0.92% | 0.934 | 0.51 | 138.89 | 1.69 | 1.03 | 194 | 0.762 | 0.71 | 1.490 | 0.490 | | 1.56 | 2.14 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 57.85 | 130.49 | 3.45 | 284.18 | 2.38 | 0.84% | 0.848 | 0.50 | 143.59 | 1.64 | 1.00 | 197 | 0.786 | 0.71 | 1.493 | 0.490 | | 1.60 | 2.21 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 57.88 | 130.47 | 3.45 | 285.15 | 2.37 | 0.83% | 0.841 | 0.50 | 144.15 | 1.64 | 1.00 | 197 | 0.789 | 0.71 | 1.494 | 0.490 | | 1.61 | 2.22 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 57.94 | 130.47 | 3.45 | 285.64 | 2.37 | 0.83% | 0.840 | 0.50 | 144.54 | 1.64 | 1.00 | 198 | 0.802 | 0.70 | 1.496 | 0.490 | | 1.64 | 2.25 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.02 | 130.47 | 3.45 | 286.72 | 2.37 | 0.83% | 0.837 | 0.50 | 145.28 | 1.64 | 1.00 | 199 | 0.812 | 0.70 | 1.498 | 0.490 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.07 | 130.54 | 3.45 | 288.77 | 2.39 | 0.83% | 0.838 | 0.50 | 146.45 | 1.63 | 1.00 | 200 | 0.824 | 0.70 | 1.500 | 0.491 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.16 | 130.94 | 3.45 | 291.50 | 2.51 | 0.86% | 0.871 | 0.50 | 148.06 | 1.64 | 1.00 | 200 | 0.821 | 0.70 | 1.503 | 0.491 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.21 | 131.19 | 3.45 | 289.94 | 2.60 | 0.90% | 0.908 | 0.51 | 147.38 | 1.66 | 1.01 | 202 | 0.845 | 0.70 | 1.504 | 0.491 | | 1.72 | 2.37 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.27 | 131.50 | 3.45 | 286.42 | 2.73 | 0.95% | 0.965 | 0.51 | 145.71 | 1.68 | 1.03 | 203 | 0.854 | 0.70 | 1.506 | 0.491 | | 1.74 | 2.39 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.34 | 131.97 | 3.45 | 290.23 | 2.90 | 1.00% | 1.011 | 0.52 | 147.84 | 1.69 | 1.03 | 207 | 0.900 | 0.70 | 1.508 | 0.491 | | 1.83 | 2.52 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.41 | 132.01 | 3.45 | 285.45 | 2.93 | 1.03% | 1.039 | 0.52 | 145.54 | 1.71 | 1.04 | 205 | 0.876 | 0.70 | 1.510 | 0.491 | | 1.78 | 2.45 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.48 | 131.94 | 3.45 | 290.52 | 2.88 | 0.99% | 1.003 | 0.51 | 148.32 | 1.69 | 1.03 | 206 | 0.895 | 0.70 | 1.513 | 0.491 | | 1.82 | 2.51 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.54 | 131.71 | 3.45 | 302.73 | 2.76 | 0.91% | 0.922 | 0.50 | 154.78 | 1.65 | 1.00 | 200 | 0.829 | 0.70 | 1.514 | 0.492 | | 1.69 | 2.32 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.60 | 131.26 | 3.45 | 311.12 | 2.57 | 0.83% | 0.835 | 0.50 | 159.27 | 1.61 | 1.00 | 200 | 0.824 | 0.70 | 1.516 | 0.492 | | 1.68 | 2.31 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.70 | 130.64 | 3.45 | 323.13 | 2.33 | 0.72% | 0.729 | 0.50 | 165.76 | 1.56 | 1.00 | 200 | 0.824 | 0.70 | 1.519 | 0.492 | | 1.68 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.74 | 129.34 | 3.45 | 324.98 | 1.95 | 0.60% | 0.606 | 0.50 | 166.82 | 1.50 | 1.00 | 200 | 0.824 | 0.70 | 1.521 | 0.492 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.81 | 126.95 | 3.45 | 331.33 | 1.40 | 0.42% | 0.427 | 0.50 | 170.31 | 1.39 | 1.00 | 200 | 0.824 | 0.70 | 1.523 | 0.492 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.88 | 125.91 | 3.45 | 332.01 | 1.21 | 0.36% | 0.368 | 0.50 | 170.86 | 1.36 | 1.00 | 200 | 0.824 | 0.70 | 1.525 | 0.492 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 58.93 | 125.75 | 3.45 | 334.55 | 1.18 | 0.35% | 0.356 | 0.50 | 172.32 | 1.34 | 1.00 | 200 | 0.824 | 0.70 | 1.527 | 0.492 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.00 | 125.68 | 3.45 | 337.09 | 1.17 | 0.35% | 0.351 | 0.50 | 173.84 | 1.34 | 1.00 | 200 | 0.824 | 0.70 | 1.529 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |

| LIQUEFACTION ANALYSIS WITH CPT DATA | TEST LOCATION: | CPT-5 |
|---|---|---|

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

| Analysis Scenario: | MCE (2% exceedance probability in 50 years) |
|---|---|

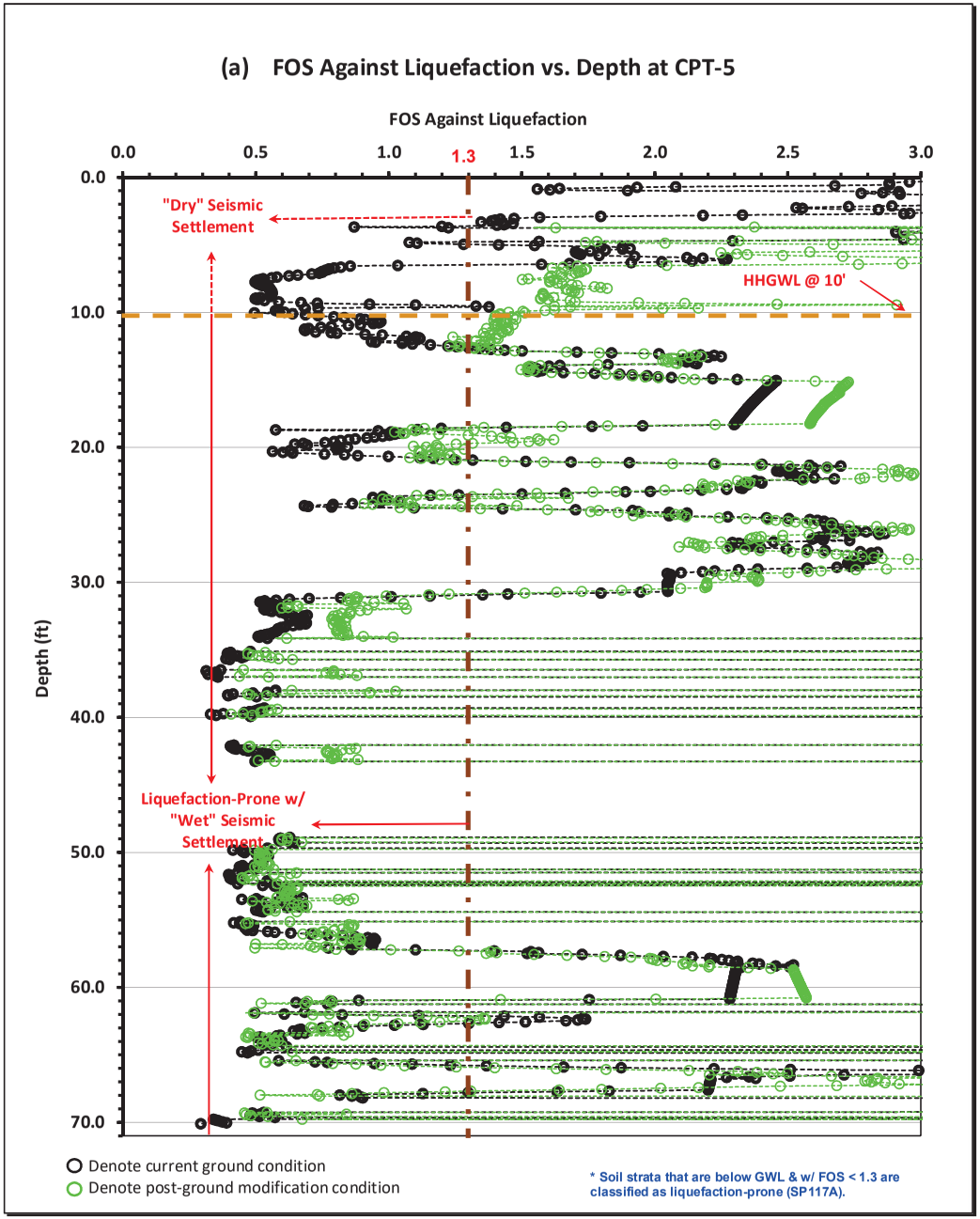
D(ft) 1 MAGNITUDE: 6.62 MAGNITUDE SCALING FACTOR: 1.38

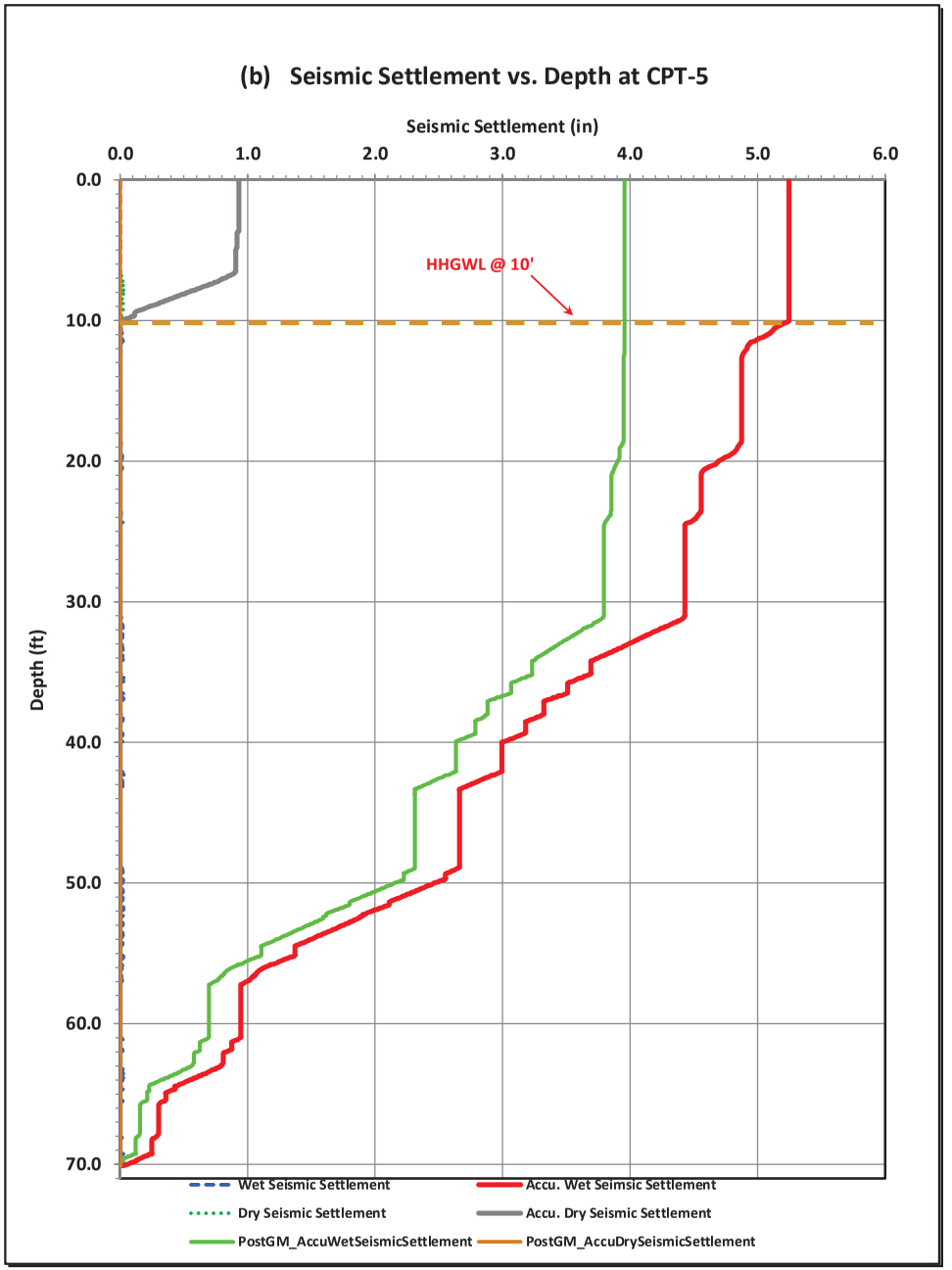
GROUNDWATER LEVEL: 10 feet ACCELERATION: 0.606 g's

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | CRR @7.5 | rd | PORE PRESSURE (tsf) | CSR | Liquefiable? | FS w/o scale | FS w/ scale | | ($\varepsilon_v$)$_F$ | (DS)$_{wet}$ (in) | (DS)$_{dry}$ (in) | Accu. (DS)$_{wet}$ (in) | Accu. (DS)$_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.06 | 125.86 | 3.45 | 340.41 | 1.19 | 0.35% | 0.353 | 0.50 | 175.74 | 1.34 | 1.00 | 200 | 0.824 | 0.70 | 1.531 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.13 | 126.29 | 3.45 | 342.12 | 1.26 | 0.37% | 0.372 | 0.50 | 176.83 | 1.35 | 1.00 | 200 | 0.824 | 0.70 | 1.533 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.21 | 127.58 | 3.45 | 344.31 | 1.50 | 0.44% | 0.440 | 0.50 | 178.21 | 1.39 | 1.00 | 200 | 0.824 | 0.69 | 1.535 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.26 | 128.04 | 3.45 | 343.83 | 1.60 | 0.47% | 0.470 | 0.50 | 178.10 | 1.41 | 1.00 | 200 | 0.824 | 0.69 | 1.537 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.34 | 128.52 | 3.45 | 346.07 | 1.70 | 0.49% | 0.496 | 0.50 | 179.51 | 1.42 | 1.00 | 200 | 0.824 | 0.69 | 1.539 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.38 | 128.65 | 3.45 | 346.46 | 1.74 | 0.50% | 0.507 | 0.50 | 179.83 | 1.42 | 1.00 | 200 | 0.824 | 0.69 | 1.541 | 0.493 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.48 | 128.83 | 3.45 | 346.56 | 1.78 | 0.51% | 0.519 | 0.50 | 180.18 | 1.43 | 1.00 | 200 | 0.824 | 0.69 | 1.544 | 0.494 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.53 | 128.70 | 3.45 | 346.56 | 1.75 | 0.50% | 0.510 | 0.50 | 180.33 | 1.43 | 1.00 | 200 | 0.824 | 0.69 | 1.545 | 0.494 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.58 | 128.54 | 3.45 | 346.27 | 1.71 | 0.49% | 0.499 | 0.50 | 180.32 | 1.42 | 1.00 | 200 | 0.824 | 0.69 | 1.547 | 0.494 | | 1.67 | 2.30 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.66 | 128.59 | 3.45 | 348.61 | 1.72 | 0.49% | 0.498 | 0.50 | 181.79 | 1.42 | 1.00 | 200 | 0.824 | 0.69 | 1.549 | 0.494 | | 1.67 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.75 | 127.82 | 3.45 | 353.59 | 1.54 | 0.44% | 0.440 | 0.50 | 184.69 | 1.38 | 1.00 | 200 | 0.824 | 0.69 | 1.552 | 0.494 | | 1.67 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.80 | 126.84 | 3.45 | 353.39 | 1.35 | 0.38% | 0.386 | 0.50 | 184.73 | 1.34 | 1.00 | 200 | 0.824 | 0.69 | 1.554 | 0.494 | | 1.67 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.84 | 126.78 | 3.45 | 353.73 | 1.34 | 0.38% | 0.383 | 0.50 | 185.03 | 1.34 | 1.00 | 200 | 0.824 | 0.69 | 1.555 | 0.495 | | 1.67 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.93 | 127.46 | 3.45 | 353.88 | 1.46 | 0.41% | 0.417 | 0.50 | 185.39 | 1.36 | 1.00 | 200 | 0.824 | 0.69 | 1.558 | 0.495 | | 1.67 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 59.98 | 127.96 | 3.45 | 354.95 | 1.57 | 0.44% | 0.447 | 0.50 | 186.11 | 1.38 | 1.00 | 200 | 0.824 | 0.69 | 1.559 | 0.495 | | 1.67 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.06 | 128.76 | 3.45 | 356.42 | 1.74 | 0.49% | 0.493 | 0.50 | 187.13 | 1.41 | 1.00 | 200 | 0.824 | 0.69 | 1.562 | 0.495 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.15 | 129.15 | 3.45 | 349.19 | 1.85 | 0.53% | 0.535 | 0.50 | 183.57 | 1.44 | 1.00 | 200 | 0.824 | 0.69 | 1.565 | 0.495 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.20 | 129.32 | 3.45 | 353.78 | 1.89 | 0.53% | 0.539 | 0.50 | 186.17 | 1.43 | 1.00 | 200 | 0.824 | 0.69 | 1.566 | 0.495 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.24 | 129.39 | 3.45 | 352.61 | 1.91 | 0.54% | 0.547 | 0.50 | 185.67 | 1.44 | 1.00 | 200 | 0.824 | 0.69 | 1.567 | 0.495 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.33 | 129.26 | 3.45 | 346.85 | 1.89 | 0.54% | 0.550 | 0.50 | 182.88 | 1.45 | 1.00 | 200 | 0.824 | 0.69 | 1.570 | 0.496 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.37 | 129.06 | 3.45 | 334.55 | 1.86 | 0.56% | 0.562 | 0.50 | 176.44 | 1.46 | 1.00 | 200 | 0.824 | 0.69 | 1.572 | 0.496 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.46 | 128.62 | 3.45 | 332.50 | 1.75 | 0.53% | 0.532 | 0.50 | 175.61 | 1.45 | 1.00 | 200 | 0.824 | 0.68 | 1.574 | 0.496 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.51 | 128.23 | 3.45 | 336.41 | 1.66 | 0.49% | 0.499 | 0.50 | 177.85 | 1.43 | 1.00 | 200 | 0.824 | 0.68 | 1.576 | 0.496 | | 1.66 | 2.29 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.58 | 127.02 | 3.45 | 337.67 | 1.40 | 0.41% | 0.419 | 0.50 | 178.73 | 1.38 | 1.00 | 200 | 0.824 | 0.68 | 1.578 | 0.496 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.64 | 125.07 | 3.45 | 336.11 | 1.08 | 0.32% | 0.325 | 0.50 | 178.08 | 1.31 | 1.00 | 200 | 0.824 | 0.68 | 1.580 | 0.496 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.71 | 125.06 | 3.45 | 332.11 | 1.08 | 0.33% | 0.329 | 0.50 | 176.14 | 1.32 | 1.00 | 200 | 0.824 | 0.68 | 1.582 | 0.497 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.78 | 125.00 | 3.45 | 322.35 | 1.08 | 0.34% | 0.339 | 0.50 | 171.11 | 1.34 | 1.00 | 200 | 0.824 | 0.68 | 1.584 | 0.497 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.87 | 125.12 | 3.45 | 291.79 | 1.13 | 0.39% | 0.392 | 0.50 | 154.95 | 1.41 | 1.00 | 200 | 0.824 | 0.68 | 1.587 | 0.497 | | 1.66 | 2.28 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.91 | 125.10 | 3.45 | 255.48 | 1.18 | 0.46% | 0.468 | 0.50 | 135.52 | 1.50 | 1.00 | 181 | 0.634 | 0.68 | 1.588 | 0.497 | | 1.27 | 1.75 | | 0.000 | 0.000 | 0.000 | 0.946 | 0.000 | | |
| 60.97 | 124.79 | 3.45 | 188.12 | 1.25 | 0.66% | 0.677 | 0.52 | 99.40 | 1.71 | 1.05 | 137 | 0.320 | 0.68 | 1.590 | 0.497 | | 0.64 | 0.89 | <= | 1.239 | 0.009 | 0.000 | 0.946 | 0.000 | 60.91 | 60.97 |
| 61.03 | 125.81 | 3.45 | 167.91 | 1.50 | 0.89% | 0.912 | 0.56 | 88.61 | 1.84 | 1.14 | 130 | 0.284 | 0.68 | 1.592 | 0.497 | | 0.57 | 0.79 | <= | 1.642 | 0.012 | 0.000 | 0.937 | 0.000 | 60.97 | 61.03 |
| 61.12 | 126.63 | 3.45 | 130.03 | 1.83 | 1.41% | 1.446 | 0.63 | 68.31 | 2.07 | 1.40 | 119 | 0.236 | 0.68 | 1.595 | 0.498 | | 0.47 | 0.65 | <= | 2.009 | 0.022 | 0.000 | 0.925 | 0.000 | 61.03 | 61.12 |
| 61.18 | 127.50 | 3.45 | 109.04 | 2.18 | 2.00% | 2.065 | 0.68 | 57.04 | 2.24 | 1.78 | 122 | 0.248 | 0.68 | 1.597 | 0.498 | | 0.50 | 0.68 | <= | 1.968 | 0.014 | 0.000 | 0.904 | 0.000 | 61.12 | 61.18 |
| 61.24 | 127.86 | 3.45 | 87.27 | 2.47 | 2.83% | 2.947 | 0.74 | 45.32 | 2.43 | 2.44 | 129 | 0.279 | 0.68 | 1.599 | 0.498 | | 0.56 | 0.77 | <= | 1.881 | 0.014 | 0.000 | 0.889 | 0.000 | 61.18 | 61.24 |
| 61.31 | 127.90 | 3.45 | 69.02 | 2.68 | 3.88% | 4.087 | 0.79 | 35.50 | 2.62 | 3.43 | 137 | 0.319 | 0.68 | 1.601 | 0.498 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.876 | 0.000 | | |
| 61.36 | 127.55 | 3.45 | 57.69 | 2.71 | 4.70% | 4.996 | 0.83 | 29.39 | 2.74 | 4.32 | 142 | 0.349 | 0.68 | 1.602 | 0.498 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.876 | 0.000 | | |
| 61.45 | 126.94 | 3.45 | 51.45 | 2.59 | 5.03% | 5.396 | 0.85 | 26.05 | 2.81 | 4.84 | 160 | 0.460 | 0.68 | 1.605 | 0.498 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.876 | 0.000 | | |
| 61.49 | 126.74 | 3.45 | 48.52 | 2.57 | 5.30% | 5.702 | 0.86 | 24.47 | 2.85 | 5.18 | 171 | 0.545 | 0.68 | 1.606 | 0.499 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.876 | 0.000 | | |
| 61.58 | 126.67 | 3.45 | 44.32 | 2.63 | 5.93% | 6.435 | 0.88 | 22.23 | 2.92 | 5.85 | 193 | 0.750 | 0.68 | 1.609 | 0.499 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.876 | 0.000 | | |
| 61.63 | 126.60 | 3.45 | 41.10 | 2.67 | 6.50% | 7.091 | 0.90 | 20.49 | 2.97 | 6.45 | 213 | 0.977 | 0.67 | 1.611 | 0.499 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.876 | 0.000 | | |
| 61.72 | 127.24 | 3.45 | 45.69 | 2.81 | 6.15% | 6.652 | 0.88 | 23.03 | 2.91 | 5.84 | 193 | 0.747 | 0.67 | 1.614 | 0.499 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.876 | 0.000 | | |
| 61.75 | 127.49 | 3.45 | 50.08 | 2.82 | 5.63% | 6.047 | 0.86 | 25.43 | 2.85 | 5.24 | 173 | 0.561 | 0.67 | 1.615 | 0.499 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.876 | 0.000 | | |
| 61.83 | 126.19 | 3.45 | 68.14 | 2.13 | 3.13% | 3.293 | 0.77 | 35.33 | 2.55 | 3.03 | 122 | 0.248 | 0.67 | 1.617 | 0.499 | | 0.50 | 0.68 | <= | 1.967 | 0.019 | 0.000 | 0.876 | 0.000 | 61.75 | 61.83 |
| 61.89 | 124.35 | 3.45 | 91.96 | 1.50 | 1.63% | 1.695 | 0.68 | 48.39 | 2.24 | 1.77 | 102 | 0.180 | 0.67 | 1.619 | 0.500 | | 0.36 | 0.50 | <= | 2.261 | 0.016 | 0.000 | 0.857 | 0.000 | 61.83 | 61.89 |
| 61.98 | 125.03 | 3.45 | 136.77 | 1.44 | 1.05% | 1.080 | 0.60 | 73.00 | 1.96 | 1.25 | 115 | 0.220 | 0.67 | 1.622 | 0.500 | | 0.44 | 0.61 | <= | 2.065 | 0.022 | 0.000 | 0.841 | 0.000 | 61.89 | 61.98 |
| 62.03 | 125.32 | 3.45 | 174.94 | 1.38 | 0.79% | 0.805 | 0.54 | 93.98 | 1.79 | 1.10 | 133 | 0.299 | 0.67 | 1.623 | 0.500 | | 0.60 | 0.82 | <= | 1.090 | 0.007 | 0.000 | 0.818 | 0.000 | 61.98 | 62.03 |
| 62.09 | 125.10 | 3.45 | 212.23 | 1.26 | 0.59% | 0.604 | 0.50 | 114.54 | 1.63 | 1.00 | 152 | 0.404 | 0.67 | 1.625 | 0.500 | | 0.81 | 1.11 | <= | 0.314 | 0.002 | 0.000 | 0.812 | 0.000 | 62.03 | 62.09 |
| 62.14 | 124.16 | 3.45 | 234.68 | 1.07 | 0.46% | 0.463 | 0.50 | 126.96 | 1.53 | 1.00 | 168 | 0.521 | 0.67 | 1.627 | 0.500 | | 1.04 | 1.43 | | 0.000 | 0.000 | 0.000 | 0.810 | 0.000 | | |
| 62.21 | 123.14 | 3.45 | 242.69 | 0.92 | 0.38% | 0.385 | 0.50 | 131.52 | 1.47 | 1.00 | 174 | 0.569 | 0.67 | 1.629 | 0.500 | | 1.14 | 1.57 | | 0.000 | 0.000 | 0.000 | 0.810 | 0.000 | | |
| 62.29 | 123.22 | 3.45 | 251.87 | 0.92 | 0.37% | 0.370 | 0.50 | 136.75 | 1.45 | 1.00 | 181 | 0.629 | 0.67 | 1.631 | 0.501 | | 1.26 | 1.73 | | 0.000 | 0.000 | 0.000 | 0.810 | 0.000 | | |
| 62.34 | 123.35 | 3.45 | 252.35 | 0.94 | 0.37% | 0.378 | 0.50 | 137.13 | 1.45 | 1.00 | 181 | 0.633 | 0.67 | 1.633 | 0.501 | | 1.26 | 1.74 | | 0.000 | 0.000 | 0.000 | 0.810 | 0.000 | | |
| 62.42 | 123.65 | 3.45 | 250.60 | 0.98 | 0.39% | 0.397 | 0.50 | 136.35 | 1.46 | 1.00 | 180 | 0.622 | 0.67 | 1.636 | 0.501 | | 1.24 | 1.71 | | 0.000 | 0.000 | 0.000 | 0.810 | 0.000 | | |
| 62.47 | 123.63 | 3.45 | 248.06 | 0.98 | 0.40% | 0.401 | 0.50 | 135.07 | 1.47 | 1.00 | 178 | 0.607 | 0.67 | 1.637 | 0.501 | | 1.21 | 1.67 | | 0.000 | 0.000 | 0.000 | 0.810 | 0.000 | | |
| 62.56 | 123.50 | 3.45 | 238.98 | 0.97 | 0.41% | 0.412 | 0.50 | 130.26 | 1.49 | 1.00 | 172 | 0.551 | 0.67 | 1.640 | 0.501 | | 1.10 | 1.51 | | 0.000 | 0.000 | 0.000 | 0.810 | 0.000 | | |
| 62.60 | 123.43 | 3.45 | 232.73 | 0.97 | 0.42% | 0.423 | 0.50 | 126.89 | 1.51 | 1.00 | 167 | 0.515 | 0.67 | 1.641 | 0.501 | | 1.03 | 1.41 | | 0.000 | 0.000 | 0.000 | 0.810 | 0.000 | | |
| 62.67 | 123.18 | 3.45 | 225.12 | 0.95 | 0.42% | 0.429 | 0.50 | 122.83 | 1.52 | 1.00 | 162 | 0.474 | 0.67 | 1.643 | 0.501 | | 0.95 | 1.30 | | 0.000 | 0.000 | 0.000 | 0.810 | 0.000 | | |
| 62.75 | 122.91 | 3.45 | 212.62 | 0.93 | 0.44% | 0.445 | 0.50 | 116.06 | 1.55 | 1.00 | 153 | 0.412 | 0.67 | 1.646 | 0.502 | | 0.82 | 1.13 | <= | 0.332 | 0.003 | 0.000 | 0.810 | 0.000 | 62.67 | 62.75 |
| 62.81 | 122.87 | 3.45 | 203.93 | 0.94 | 0.46% | 0.469 | 0.50 | 111.35 | 1.58 | 1.00 | 147 | 0.372 | 0.67 | 1.648 | 0.502 | | 0.74 | 1.02 | <= | 0.469 | 0.003 | 0.000 | 0.806 | 0.000 | 62.75 | 62.81 |
| 62.88 | 123.07 | 3.45 | 193.39 | 0.98 | 0.51% | 0.516 | 0.50 | 105.63 | 1.62 | 1.00 | 139 | 0.329 | 0.66 | 1.650 | 0.502 | | 0.66 | 0.90 | <= | 0.655 | 0.006 | 0.000 | 0.803 | 0.000 | 62.81 | 62.88 |
| 62.96 | 124.31 | 3.45 | 176.70 | 1.20 | 0.68% | 0.693 | 0.53 | 96.48 | 1.74 | 1.06 | 133 | 0.296 | 0.66 | 1.652 | 0.502 | | 0.59 | 0.81 | <= | 1.057 | 0.010 | 0.000 | 0.797 | 0.000 | 62.88 | 62.96 |
| 63.01 | 124.68 | 3.45 | 164.98 | 1.29 | 0.78% | 0.799 | 0.55 | 90.03 | 1.80 | 1.11 | 128 | 0.273 | 0.66 | 1.654 | 0.502 | | 0.54 | 0.75 | <= | 1.571 | 0.009 | 0.000 | 0.787 | 0.000 | 62.96 | 63.01 |
| 63.10 | 125.27 | 3.45 | 147.60 | 1.45 | 0.98% | 1.006 | 0.58 | 80.47 | 1.91 | 1.20 | 121 | 0.245 | 0.66 | 1.657 | 0.503 | | 0.49 | 0.67 | <= | 1.978 | 0.021 | 0.000 | 0.778 | 0.000 | 63.01 | 63.10 |
| 63.14 | 125.60 | 3.45 | 142.63 | 1.54 | 1.08% | 1.106 | 0.59 | 77.75 | 1.95 | 1.24 | 120 | 0.241 | 0.66 | 1.658 | 0.503 | | 0.48 | 0.66 | <= | 1.989 | 0.010 | 0.000 | 0.757 | 0.000 | 63.10 | 63.14 |
| 63.23 | 126.25 | 3.45 | 129.94 | 1.73 | 1.33% | 1.368 | 0.62 | 70.77 | 2.05 | 1.36 | 118 | 0.235 | 0.66 | 1.661 | 0.503 | | 0.47 | 0.64 | <= | 2.012 | 0.022 | 0.000 | 0.747 | 0.000 | 63.14 | 63.23 |
| 63.27 | 126.75 | 3.45 | 126.62 | 1.87 | 1.48% | 1.518 | 0.63 | 68.96 | 2.09 | 1.43 | 120 | 0.242 | 0.66 | 1.662 | 0.503 | | 0.48 | 0.66 | <= | 1.988 | 0.010 | 0.000 | 0.725 | 0.000 | 63.23 | 63.27 |
| 63.32 | 127.28 | 3.45 | 121.15 | 2.04 | 1.68% | 1.733 | 0.65 | 65.96 | 2.14 | 1.54 | 122 | 0.251 | 0.66 | 1.664 | 0.503 | | 0.50 | 0.69 | <= | 1.960 | 0.012 | 0.000 | 0.716 | 0.000 | 63.27 | 63.32 |
| 63.39 | 127.32 | 3.45 | 117.83 | 2.07 | 1.76% | 1.810 | 0.66 | 64.18 | 2.17 | 1.59 | 122 | 0.250 | 0.66 | 1.666 | 0.503 | | 0.50 | 0.68 | <= | 1.960 | 0.016 | 0.000 | 0.704 | 0.000 | 63.32 | 63.39 |
| 63.45 | 126.90 | 3.45 | 117.34 | 1.96 | 1.67% | 1.721 | 0.65 | 63.97 | 2.15 | 1.55 | 120 | 0.240 | 0.66 | 1.668 | 0.504 | | 0.48 | 0.66 | <= | 1.994 | 0.014 | 0.000 | 0.687 | 0.000 | 63.39 | 63.45 |
| 63.55 | 125.90 | 3.45 | 114.41 | 1.72 | 1.50% | 1.550 | 0.65 | 62.43 | 2.13 | 1.51 | 114 | 0.217 | 0.66 | 1.671 | 0.504 | | 0.43 | 0.59 | <= | 2.081 | 0.025 | 0.000 | 0.673 | 0.000 | 63.45 | 63.55 |
| 63.59 | 125.72 | 3.45 | 112.27 | 1.69 | 1.51% | 1.553 | 0.65 | 61.27 | 2.13 | 1.52 | 112 | 0.212 | 0.66 | 1.672 | 0.504 | | 0.42 | 0.58 | <= | 2.099 | 0.010 | 0.000 | 0.648 | 0.000 | 63.55 | 63.59 |
| 63.68 | 124.54 | 3.45 | 104.75 | 1.48 | 1.41% | 1.461 | 0.65 | 57.13 | 2.14 | 1.53 | 106 | 0.189 | 0.66 | 1.675 | 0.504 | | 0.38 | 0.52 | <= | 2.209 | 0.024 | 0.000 | 0.638 | 0.000 | 63.59 | 63.68 |
| 63.72 | 124.36 | 3.45 | 101.82 | 1.45 | 1.42% | 1.474 | 0.65 | 55.51 | 2.15 | 1.56 | 104 | 0.185 | 0.66 | 1.676 | 0.504 | | 0.37 | 0.50 | <= | 2.233 | 0.011 | 0.000 | 0.614 | 0.000 | 63.68 | 63.72 |
| 63.82 | 125.54 | 3.45 | 90.89 | 1.77 | 1.95% | 2.024 | 0.69 | 49.43 | 2.29 | 1.91 | 111 | 0.208 | 0.66 | 1.679 | 0.505 | | 0.41 | 0.57 | <= | 2.117 | 0.025 | 0.000 | 0.604 | 0.000 | 63.72 | 63.82 |
| 63.86 | 125.59 | 3.45 | 86.30 | 1.82 | 2.11% | 2.197 | 0.71 | 46.87 | 2.33 | 2.06 | 113 | 0.212 | 0.66 | 1.680 | 0.505 | | 0.42 | 0.58 | <= | 2.097 | 0.010 | 0.000 | 0.578 | 0.000 | 63.82 | 63.86 |
| 63.95 | 125.84 | 3.45 | 86.25 | 1.88 | 2.18% | 2.270 | 0.71 | 46.92 | 2.34 | 2.09 | 114 | 0.219 | 0.66 | 1.683 | 0.505 | | 0.43 | 0.60 | <= | 2.071 | 0.022 | 0.000 | 0.568 | 0.000 | 63.86 | 63.95 |
| 63.99 | 125.61 | 3.45 | 86.25 | 1.82 | 2.11% | 2.198 | 0.71 | 46.95 | 2.33 | 2.05 | 113 | 0.213 | 0.66 | 1.684 | 0.505 | | 0.42 | 0.58 | <= | 2.096 | 0.010 | 0.000 | 0.546 | 0.000 | 63.95 | 63.99 |
| 64.05 | 125.25 | 3.45 | 86.20 | 1.73 | 2.01% | 2.091 | 0.70 | 46.97 | 2.32 | 2.00 | 110 | 0.204 | 0.66 | 1.686 | 0.505 | | 0.40 | 0.56 | <= | 2.136 | 0.015 | 0.000 | 0.536 | 0.000 | 63.99 | 64.05 |
| 64.11 | 124.86 | 3.45 | 91.96 | 1.61 | 1.75% | 1.819 | 0.68 | 50.30 | 2.25 | 1.80 | 107 | 0.194 | 0.65 | 1.688 | 0.505 | | 0.38 | 0.53 | <= | 2.184 | 0.016 | 0.000 | 0.520 | 0.000 | 64.05 | 64.11 |
| 64.18 | 124.79 | 3.45 | 89.62 | 1.61 | 1.80% | 1.868 | 0.69 | 49.03 | 2.27 | 1.85 | 107 | 0.193 | 0.65 | 1.690 | 0.505 | | 0.38 | 0.53 | <= | 2.187 | 0.018 | 0.000 | 0.505 | 0.000 | 64.11 | 64.18 |
| 64.26 | 124.82 | 3.45 | 80.64 | 1.67 | 2.07% | 2.163 | 0.71 | 43.98 | 2.35 | 2.12 | 108 | 0.198 | 0.65 | 1.693 | 0.506 | | 0.39 | 0.54 | <= | 2.163 | 0.021 | 0.000 | 0.486 | 0.000 | 64.18 | 64.26 |
| 64.31 | 124.97 | 3.45 | 75.27 | 1.74 | 2.31% | 2.423 | 0.73 | 40.96 | 2.41 | 2.35 | 111 | 0.206 | 0.65 | 1.694 | 0.506 | | 0.41 | 0.56 | <= | 2.125 | 0.013 | 0.000 | 0.465 | 0.000 | 64.26 | 64.31 |
| 64.40 | 125.04 | 3.45 | 63.36 | 1.87 | 2.95% | 3.121 | 0.77 | 34.22 | 2.55 | 3.02 | 116 | 0.226 | 0.65 | 1.697 | 0.506 | | 0.45 | 0.62 | <= | 2.042 | 0.022 | 0.000 | 0.453 | 0.000 | 64.31 | 64.40 |
| 64.44 | 124.98 | 3.45 | 58.38 | 1.90 | 3.25% | 3.459 | 0.79 | 31.40 | 2.61 | 3.38 | 118 | 0.234 | 0.65 | 1.699 | 0.506 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.431 | 0.000 | | |
| 64.51 | 124.38 | 3.45 | 51.15 | 1.83 | 3.58% | 3.836 | 0.81 | 27.30 | 2.69 | 3.91 | 129 | 0.279 | 0.65 | 1.701 | 0.506 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.431 | 0.000 | | |
| 64.58 | 123.37 | 3.45 | 51.25 | 1.60 | 3.12% | 3.347 | 0.80 | 27.39 | 2.64 | 3.61 | 119 | 0.238 | 0.65 | 1.703 | 0.507 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.431 | 0.000 | | |
| 64.66 | 121.70 | 3.45 | 51.25 | 1.27 | 2.48% | 2.657 | 0.78 | 27.43 | 2.58 | 3.18 | 105 | 0.188 | 0.65 | 1.705 | 0.507 | | 0.37 | 0.51 | <= | 2.218 | 0.021 | 0.000 | 0.431 | 0.000 | 64.58 | 64.66 |
| 64.71 | 121.30 | 3.45 | 51.35 | 1.20 | 2.34% | 2.505 | 0.78 | 27.51 | 2.56 | 3.08 | 102 | 0.177 | 0.65 | 1.707 | 0.507 | | 0.35 | 0.48 | <= | 2.278 | 0.014 | 0.000 | 0.409 | 0.000 | 64.66 | 64.71 |
| 64.77 | 122.13 | 3.45 | 59.35 | 1.28 | 2.16% | 2.290 | 0.75 | 32.14 | 2.48 | 2.65 | 97 | 0.165 | 0.65 | 1.709 | 0.507 | | 0.32 | 0.45 | <= | 2.366 | 0.017 | 0.000 | 0.396 | 0.000 | 64.71 | 64.77 |
| 64.84 | 122.56 | 3.45 | 58.77 | 1.36 | 2.31% | 2.458 | 0.76 | 31.85 | 2.50 | 2.77 | 100 | 0.173 | 0.65 | 1.711 | 0.507 | | 0.34 | 0.47 | <= | 2.308 | 0.019 | 0.000 | 0.379 | 0.000 | 64.77 | 64.84 |
| 64.90 | 122.19 | 3.45 | 50.67 | 1.36 | 2.68% | 2.880 | 0.79 | 27.21 | 2.60 | 3.34 | 110 | 0.205 | 0.65 | 1.713 | 0.507 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.359 | 0.000 | | |
| 64.97 | 121.87 | 3.45 | 42.66 | 1.38 | 3.23% | 3.519 | 0.83 | 22.63 | 2.73 | 4.19 | 138 | 0.326 | 0.65 | 1.715 | 0.508 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.359 | 0.000 | | |
| 65.07 | 121.79 | 3.45 | 36.02 | 1.44 | 4.00% | 4.421 | 0.87 | 18.83 | 2.86 | 5.30 | 175 | 0.578 | 0.65 | 1.718 | 0.508 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.359 | 0.000 | | |
| 65.11 | 122.15 | 3.45 | 33.48 | 1.55 | 4.63% | 5.161 | 0.89 | 17.37 | 2.93 | 6.02 | 199 | 0.810 | 0.65 | 1.719 | 0.508 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.359 | 0.000 | | |
| 65.20 | 122.88 | 3.45 | 35.92 | 1.68 | 4.68% | 5.174 | 0.88 | 18.82 | 2.91 | 5.76 | 190 | 0.718 | 0.65 | 1.722 | 0.508 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.359 | 0.000 | | |
| 65.24 | 122.64 | 3.45 | 32.02 | 1.69 | 5.28% | 5.915 | 0.91 | 16.57 | 2.99 | 6.63 | 219 | 1.056 | 0.65 | 1.723 | 0.508 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.359 | 0.000 | | |
| 65.29 | 122.80 | 3.45 | 35.83 | 1.66 | 4.63% | 5.126 | 0.88 | 18.79 | 2.90 | 5.73 | 189 | 0.710 | 0.65 | 1.725 | 0.509 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.359 | 0.000 | | |
| 65.37 | 123.12 | 3.45 | 46.86 | 1.59 | 3.39% | 3.663 | 0.82 | 25.23 | 2.70 | 4.00 | 132 | 0.295 | 0.64 | 1.728 | 0.509 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.359 | 0.000 | | |
| 65.42 | 124.91 | 3.45 | 68.04 | 1.79 | 2.63% | 2.771 | 0.75 | 37.58 | 2.48 | 2.67 | 114 | 0.217 | 0.64 | 1.729 | 0.509 | | 0.43 | 0.59 | <= | 2.079 | 0.012 | 0.000 | 0.359 | 0.000 | 65.37 | 65.42 |
| 65.51 | 127.65 | 3.45 | 110.02 | 2.22 | 2.02% | 2.083 | 0.68 | 62.10 | 2.22 | 1.73 | 126 | 0.267 | 0.64 | 1.732 | 0.509 | | 0.53 | 0.72 | <= | 1.911 | 0.021 | 0.000 | 0.347 | 0.000 | 65.42 | 65.51 |
| 65.56 | 128.14 | 3.45 | 112.07 | 2.36 | 2.11% | 2.173 | 0.68 | 63.35 | 2.23 | 1.75 | 130 | 0.284 | 0.64 | 1.733 | 0.509 | | 0.56 | 0.77 | <= | 1.866 | 0.011 | 0.000 | 0.326 | 0.000 | 65.51 | 65.56 |
| 65.64 | 129.07 | 3.45 | 155.22 | 2.40 | 1.55% | 1.581 | 0.61 | 88.65 | 2.02 | 1.33 | 143 | 0.350 | 0.64 | 1.736 | 0.510 | | 0.69 | 0.95 | <= | 0.761 | 0.007 | 0.000 | 0.315 | 0.000 | 65.56 | 65.64 |
| 65.69 | 129.50 | 3.45 | 173.57 | 2.45 | 1.41% | 1.440 | 0.59 | 99.46 | 1.95 | 1.24 | 151 | 0.403 | 0.64 | 1.738 | 0.510 | | 0.79 | 1.09 | <= | 0.577 | 0.003 | 0.000 | 0.308 | 0.000 | 65.64 | 65.69 |
| 65.77 | 130.17 | 3.45 | 184.70 | 2.63 | 1.42% | 1.451 | 0.59 | 106.12 | 1.94 | 1.22 | 159 | 0.456 | 0.64 | 1.740 | 0.510 | | 0.89 | 1.23 | <= | 0.231 | 0.002 | 0.000 | 0.304 | 0.000 | 65.69 | 65.77 |
| 65.81 | 130.68 | 3.45 | 194.76 | 2.77 | 1.42% | 1.448 | 0.58 | 112.09 | 1.92 | 1.21 | 166 | 0.507 | 0.64 | 1.741 | 0.510 | | 0.99 | 1.37 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 65.90 | 131.87 | 3.45 | 210.08 | 3.18 | 1.51% | 1.539 | 0.58 | 121.26 | 1.91 | 1.20 | 179 | 0.615 | 0.64 | 1.744 | 0.510 | | 1.20 | 1.66 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 65.95 | 132.61 | 3.45 | 219.94 | 3.47 | 1.58% | 1.603 | 0.58 | 127.17 | 1.91 | 1.20 | 188 | 0.695 | 0.64 | 1.746 | 0.510 | | 1.36 | 1.87 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.03 | 133.62 | 3.45 | 234.20 | 3.90 | 1.67% | 1.690 | 0.58 | 135.74 | 1.91 | 1.20 | 200 | 0.825 | 0.64 | 1.748 | 0.511 | | 1.61 | 2.22 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.08 | 134.21 | 3.45 | 246.50 | 4.15 | 1.68% | 1.707 | 0.58 | 143.11 | 1.90 | 1.19 | 209 | 0.932 | 0.64 | 1.750 | 0.511 | | 1.82 | 2.51 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.16 | 134.91 | 3.45 | 266.41 | 4.46 | 1.67% | 1.696 | 0.57 | 155.06 | 1.87 | 1.17 | 223 | 1.111 | 0.64 | 1.752 | 0.511 | | 2.17 | 2.99 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.22 | 135.37 | 3.45 | 275.69 | 4.69 | 1.70% | 1.723 | 0.57 | 160.71 | 1.87 | 1.16 | 230 | 1.217 | 0.64 | 1.754 | 0.511 | | 2.38 | 3.28 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.29 | 135.81 | 3.45 | 274.61 | 4.99 | 1.82% | 1.840 | 0.58 | 160.28 | 1.89 | 1.18 | 233 | 1.257 | 0.64 | 1.756 | 0.511 | | 2.46 | 3.38 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.35 | 136.34 | 3.45 | 274.71 | 5.36 | 1.95% | 1.976 | 0.58 | 160.51 | 1.92 | 1.21 | 237 | 1.321 | 0.64 | 1.758 | 0.512 | | 2.58 | 3.55 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.41 | 136.10 | 3.45 | 274.81 | 5.19 | 1.89% | 1.913 | 0.58 | 160.75 | 1.91 | 1.20 | 236 | 1.295 | 0.64 | 1.760 | 0.512 | | 2.53 | 3.48 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.48 | 133.65 | 3.45 | 286.62 | 3.66 | 1.28% | 1.293 | 0.54 | 167.97 | 1.76 | 1.08 | 215 | 1.009 | 0.64 | 1.762 | 0.512 | | 1.97 | 2.71 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.57 | 134.14 | 3.45 | 312.98 | 3.80 | 1.21% | 1.228 | 0.52 | 183.91 | 1.71 | 1.05 | 209 | 0.934 | 0.63 | 1.765 | 0.512 | | 1.82 | 2.51 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.62 | 134.31 | 3.45 | 331.43 | 3.82 | 1.15% | 1.165 | 0.51 | 195.05 | 1.68 | 1.02 | 205 | 0.877 | 0.63 | 1.767 | 0.512 | | 1.71 | 2.35 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.67 | 134.35 | 3.45 | 340.51 | 3.80 | 1.12% | 1.127 | 0.51 | 200.64 | 1.66 | 1.01 | 202 | 0.846 | 0.63 | 1.768 | 0.513 | | 1.65 | 2.27 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.74 | 134.09 | 3.45 | 323.91 | 3.73 | 1.15% | 1.164 | 0.51 | 191.00 | 1.68 | 1.03 | 205 | 0.886 | 0.63 | 1.770 | 0.513 | | 1.73 | 2.38 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.81 | 134.30 | 3.45 | 368.23 | 3.68 | 1.00% | 1.009 | 0.50 | 217.70 | 1.60 | 1.00 | 200 | 0.824 | 0.63 | 1.772 | 0.513 | | 1.61 | 2.21 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.88 | 134.32 | 3.45 | 372.04 | 3.68 | 0.99% | 0.998 | 0.50 | 220.26 | 1.59 | 1.00 | 200 | 0.824 | 0.63 | 1.775 | 0.513 | | 1.61 | 2.21 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 66.94 | 134.36 | 3.45 | 373.80 | 3.69 | 0.99% | 0.996 | 0.50 | 221.56 | 1.59 | 1.00 | 200 | 0.824 | 0.63 | 1.777 | 0.513 | | 1.61 | 2.21 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.01 | 134.37 | 3.45 | 372.04 | 3.70 | 0.99% | 1.004 | 0.50 | 220.80 | 1.59 | 1.00 | 200 | 0.824 | 0.63 | 1.779 | 0.514 | | 1.60 | 2.21 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.06 | 134.35 | 3.45 | 367.45 | 3.71 | 1.01% | 1.019 | 0.50 | 218.25 | 1.60 | 1.00 | 200 | 0.824 | 0.63 | 1.780 | 0.514 | | 1.60 | 2.21 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.15 | 134.06 | 3.45 | 356.91 | 3.60 | 1.01% | 1.018 | 0.50 | 212.29 | 1.61 | 1.00 | 200 | 0.824 | 0.63 | 1.783 | 0.514 | | 1.60 | 2.21 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.20 | 133.79 | 3.45 | 344.61 | 3.51 | 1.02% | 1.029 | 0.50 | 205.10 | 1.62 | 1.00 | 200 | 0.824 | 0.63 | 1.785 | 0.514 | | 1.60 | 2.21 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.28 | 132.22 | 3.45 | 330.16 | 2.87 | 0.87% | 0.878 | 0.50 | 196.70 | 1.58 | 1.00 | 200 | 0.824 | 0.63 | 1.787 | 0.514 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.32 | 130.53 | 3.45 | 321.27 | 2.30 | 0.72% | 0.724 | 0.50 | 191.50 | 1.53 | 1.00 | 200 | 0.824 | 0.63 | 1.788 | 0.515 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.42 | 129.26 | 3.45 | 305.85 | 1.96 | 0.64% | 0.648 | 0.50 | 182.55 | 1.51 | 1.00 | 200 | 0.824 | 0.63 | 1.792 | 0.515 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.47 | 128.82 | 3.45 | 298.14 | 1.87 | 0.63% | 0.635 | 0.50 | 178.06 | 1.52 | 1.00 | 200 | 0.824 | 0.63 | 1.793 | 0.515 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.55 | 128.14 | 3.45 | 285.25 | 1.73 | 0.61% | 0.614 | 0.50 | 170.53 | 1.52 | 1.00 | 200 | 0.824 | 0.63 | 1.796 | 0.515 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.60 | 127.88 | 3.45 | 275.20 | 1.69 | 0.61% | 0.622 | 0.50 | 164.60 | 1.54 | 1.00 | 200 | 0.824 | 0.63 | 1.797 | 0.515 | | 1.60 | 2.20 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.68 | 127.62 | 3.45 | 247.86 | 1.69 | 0.68% | 0.691 | 0.50 | 148.27 | 1.60 | 1.00 | 187 | 0.685 | 0.63 | 1.800 | 0.516 | | 1.33 | 1.83 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.73 | 127.52 | 3.45 | 237.51 | 1.69 | 0.71% | 0.722 | 0.50 | 142.12 | 1.63 | 1.00 | 179 | 0.612 | 0.63 | 1.801 | 0.516 | | 1.19 | 1.63 | | 0.000 | 0.000 | 0.000 | 0.302 | 0.000 | | |
| 67.80 | 127.43 | 3.45 | 209.59 | 1.74 | 0.83% | 0.844 | 0.52 | 125.34 | 1.72 | 1.05 | 164 | 0.487 | 0.62 | 1.803 | 0.516 | | 0.94 | 1.30 | <= | 0.282 | 0.002 | 0.000 | 0.302 | 0.000 | 67.73 | 67.80 |
| 67.87 | 128.24 | 3.45 | 186.07 | 2.02 | 1.09% | 1.106 | 0.56 | 111.18 | 1.84 | 1.14 | 155 | 0.423 | 0.62 | 1.806 | 0.516 | | 0.82 | 1.13 | <= | 0.328 | 0.003 | 0.000 | 0.300 | 0.000 | 67.80 | 67.87 |
| 67.93 | 128.51 | 3.45 | 145.07 | 2.27 | 1.56% | 1.603 | 0.62 | 86.32 | 2.04 | 1.35 | 139 | 0.330 | 0.62 | 1.807 | 0.516 | | 0.64 | 0.88 | <= | 1.193 | 0.009 | 0.000 | 0.297 | 0.000 | 67.87 | 67.93 |
| 67.98 | 128.44 | 3.45 | 117.05 | 2.42 | 2.07% | 2.130 | 0.67 | 69.31 | 2.20 | 1.67 | 134 | 0.306 | 0.62 | 1.809 | 0.517 | | 0.59 | 0.82 | <= | 1.122 | 0.007 | 0.000 | 0.288 | 0.000 | 67.93 | 67.98 |
| 68.05 | 128.19 | 3.45 | 86.69 | 2.59 | 2.99% | 3.111 | 0.73 | 50.85 | 2.42 | 2.40 | 138 | 0.323 | 0.62 | 1.811 | 0.517 | | 0.63 | 0.86 | <= | 1.457 | 0.012 | 0.000 | 0.281 | 0.000 | 67.98 | 68.05 |
| 68.12 | 127.87 | 3.45 | 73.80 | 2.61 | 3.54% | 3.710 | 0.77 | 43.04 | 2.53 | 2.93 | 140 | 0.336 | 0.62 | 1.813 | 0.517 | | 0.65 | 0.89 | <= | 1.757 | 0.015 | 0.000 | 0.269 | 0.000 | 68.05 | 68.12 |
| 68.18 | 127.55 | 3.45 | 66.77 | 2.58 | 3.86% | 4.074 | 0.79 | 38.78 | 2.59 | 3.30 | 141 | 0.339 | 0.62 | 1.815 | 0.517 | | 0.66 | 0.90 | <= | 0.665 | 0.005 | 0.000 | 0.254 | 0.000 | 68.12 | 68.18 |
| 68.25 | 126.97 | 3.45 | 56.33 | 2.52 | 4.47% | 4.765 | 0.82 | 32.43 | 2.70 | 4.01 | 141 | 0.342 | 0.62 | 1.817 | 0.517 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 68.31 | 126.65 | 3.45 | 53.89 | 2.45 | 4.55% | 4.857 | 0.83 | 30.97 | 2.72 | 4.17 | 140 | 0.333 | 0.62 | 1.819 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 68.40 | 126.24 | 3.45 | 51.74 | 2.35 | 4.54% | 4.866 | 0.83 | 29.70 | 2.74 | 4.28 | 141 | 0.342 | 0.62 | 1.822 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 68.44 | 125.54 | 3.45 | 48.23 | 2.19 | 4.54% | 4.890 | 0.84 | 27.56 | 2.76 | 4.48 | 148 | 0.381 | 0.62 | 1.823 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 68.51 | 123.16 | 3.45 | 44.42 | 1.62 | 3.65% | 3.954 | 0.83 | 25.25 | 2.73 | 4.20 | 139 | 0.328 | 0.62 | 1.826 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 68.58 | 119.97 | 3.45 | 40.42 | 1.08 | 2.67% | 2.921 | 0.81 | 22.82 | 2.67 | 3.81 | 126 | 0.264 | 0.62 | 1.828 | 0.518 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 68.67 | 120.97 | 3.45 | 37.39 | 1.27 | 3.40% | 3.742 | 0.84 | 20.98 | 2.77 | 4.57 | 151 | 0.400 | 0.62 | 1.831 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 68.73 | 121.69 | 3.45 | 35.83 | 1.43 | 3.99% | 4.416 | 0.86 | 20.04 | 2.84 | 5.13 | 169 | 0.531 | 0.62 | 1.832 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 68.77 | 122.38 | 3.45 | 35.83 | 1.57 | 4.38% | 4.848 | 0.87 | 20.06 | 2.87 | 5.39 | 178 | 0.602 | 0.62 | 1.834 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 68.84 | 123.40 | 3.45 | 31.82 | 1.87 | 5.88% | 6.591 | 0.91 | 17.60 | 3.00 | 6.80 | 224 | 1.130 | 0.62 | 1.836 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 68.90 | 124.76 | 3.45 | 39.15 | 2.11 | 5.39% | 5.910 | 0.88 | 22.17 | 2.89 | 5.65 | 186 | 0.682 | 0.62 | 1.838 | 0.519 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 68.98 | 126.14 | 3.45 | 43.05 | 2.46 | 5.71% | 6.212 | 0.87 | 24.63 | 2.88 | 5.47 | 180 | 0.627 | 0.62 | 1.840 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 69.08 | 126.98 | 3.45 | 49.79 | 2.63 | 5.28% | 5.675 | 0.85 | 28.88 | 2.80 | 4.75 | 157 | 0.439 | 0.61 | 1.843 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 69.11 | 127.21 | 3.45 | 53.69 | 2.65 | 4.94% | 5.274 | 0.83 | 31.33 | 2.75 | 4.35 | 147 | 0.373 | 0.61 | 1.844 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 69.16 | 127.51 | 3.45 | 65.41 | 2.58 | 3.94% | 4.164 | 0.79 | 38.67 | 2.60 | 3.35 | 142 | 0.346 | 0.61 | 1.846 | 0.520 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.250 | 0.000 | | |
| 69.26 | 124.59 | 3.45 | 87.86 | 1.57 | 1.79% | 1.860 | 0.68 | 52.79 | 2.25 | 1.80 | 109 | 0.201 | 0.61 | 1.849 | 0.521 | | 0.39 | 0.53 | <= | 2.151 | 0.026 | 0.000 | 0.250 | 0.000 | 69.16 | 69.26 |
| 69.30 | 123.47 | 3.45 | 102.11 | 1.28 | 1.25% | 1.297 | 0.64 | 61.74 | 2.09 | 1.44 | 104 | 0.184 | 0.61 | 1.850 | 0.521 | | 0.35 | 0.49 | <= | 2.236 | 0.011 | 0.000 | 0.224 | 0.000 | 69.26 | 69.30 |
| 69.39 | 123.66 | 3.45 | 112.07 | 1.28 | 1.14% | 1.178 | 0.62 | 68.10 | 2.03 | 1.34 | 108 | 0.196 | 0.61 | 1.853 | 0.521 | | 0.38 | 0.52 | <= | 2.175 | 0.023 | 0.000 | 0.213 | 0.000 | 69.30 | 69.39 |
| 69.43 | 123.53 | 3.45 | 106.70 | 1.28 | 1.20% | 1.240 | 0.63 | 64.78 | 2.06 | 1.39 | 106 | 0.189 | 0.61 | 1.854 | 0.521 | | 0.36 | 0.50 | <= | 2.208 | 0.011 | 0.000 | 0.190 | 0.000 | 69.39 | 69.43 |
| 69.49 | 123.41 | 3.45 | 96.45 | 1.30 | 1.35% | 1.398 | 0.65 | 58.42 | 2.13 | 1.52 | 103 | 0.182 | 0.61 | 1.856 | 0.521 | | 0.35 | 0.48 | <= | 2.253 | 0.016 | 0.000 | 0.179 | 0.000 | 69.43 | 69.49 |
| 69.56 | 124.18 | 3.45 | 82.00 | 1.52 | 1.85% | 1.935 | 0.69 | 49.41 | 2.29 | 1.91 | 107 | 0.195 | 0.61 | 1.858 | 0.522 | | 0.37 | 0.51 | <= | 2.180 | 0.018 | 0.000 | 0.163 | 0.000 | 69.49 | 69.56 |
| 69.63 | 124.35 | 3.45 | 64.82 | 1.69 | 2.61% | 2.754 | 0.75 | 38.66 | 2.48 | 2.65 | 114 | 0.217 | 0.61 | 1.860 | 0.522 | | 0.42 | 0.57 | <= | 2.078 | 0.017 | 0.000 | 0.144 | 0.000 | 69.56 | 69.63 |
| 69.70 | 124.51 | 3.45 | 54.57 | 1.83 | 3.35% | 3.580 | 0.79 | 32.24 | 2.62 | 3.43 | 121 | 0.244 | 0.61 | 1.863 | 0.522 | NO | 10.00 | 10.00 | | 0.000 | 0.000 | 0.000 | 0.127 | 0.000 | | |
| 69.77 | 87.42 | 3.45 | 49.20 | 0.00 | 0.00% | 0.002 | 0.74 | 28.90 | 2.43 | 2.45 | 81 | 0.129 | 0.61 | 1.865 | 0.522 | | 0.25 | 0.34 | <= | 2.734 | 0.023 | 0.000 | 0.127 | 0.000 | 69.70 | 69.77 |
| 69.83 | 87.42 | 3.45 | 43.73 | 0.00 | 0.00% | 0.002 | 0.74 | 25.47 | 2.45 | 2.51 | 83 | 0.133 | 0.61 | 1.867 | 0.523 | | 0.25 | 0.35 | <= | 2.682 | 0.019 | 0.000 | 0.104 | 0.000 | 69.77 | 69.83 |
| 69.88 | 87.42 | 3.45 | 40.32 | 0.00 | 0.00% | 0.003 | 0.75 | 23.34 | 2.46 | 2.56 | 85 | 0.136 | 0.61 | 1.868 | 0.523 | | 0.26 | 0.36 | <= | 2.641 | 0.016 | 0.000 | 0.085 | 0.000 | 69.83 | 69.88 |
| 69.96 | 87.42 | 3.45 | 35.63 | 0.00 | 0.00% | 0.003 | 0.75 | 20.40 | 2.48 | 2.65 | 88 | 0.142 | 0.61 | 1.871 | 0.523 | | 0.27 | 0.37 | <= | 2.569 | 0.025 | 0.000 | 0.069 | 0.000 | 69.88 | 69.96 |
| 70.03 | 87.42 | 3.45 | 32.31 | 0.00 | 0.00% | 0.003 | 0.76 | 18.32 | 2.49 | 2.74 | 90 | 0.148 | 0.61 | 1.873 | 0.523 | | 0.28 | 0.39 | <= | 2.505 | 0.021 | 0.000 | 0.044 | 0.000 | 69.96 | 70.03 |
| 70.10 | 87.42 | 3.12 | 31.73 | 0.00 | 0.00% | 0.003 | 0.74 | 23.00 | 2.43 | 2.42 | 80 | 0.128 | 0.61 | 1.875 | 0.599 | | 0.21 | 0.29 | <= | 2.762 | 0.023 | 0.000 | 0.023 | 0.000 | 70.03 | 70.10 |

| Total Wet Seismic Settlement (in) | 5.25 | Total Wet Seismic Settlement within 50' Depth (in) | 2.80 |
|---|---|---|---|
| Total Dry Seismic Settlement (in) | 0.93 | Total Post-Grading Dry Seismic Settlement (in) * | 0.00 |

* Upon implementation of remedial grading recommended in Section 6.2.3 of the Soils Report.


(a) FOS Against Liquefaction vs. Depth at CPT-5
FOS Against Liquefaction
0.0
0.5
1.0
1.3
1.5
2.0
2.5
3.0
Depth (ft)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
"Dry" Seismic Settlement
HHGWL @ 10'
Liquefaction-Prone w/ "Wet" Seismic Settlement
Denote current ground condition
Denote post-ground modification condition
* Soil strata that are below GWL & w/ FOS < 1.3 are classified as liquefaction-prone (SP117A).


(b) Seismic Settlement vs. Depth at CPT-5
Seismic Settlement (in)
0.0
1.0
2.0
3.0
4.0
5.0
6.0
Depth (ft)
0.0
10.0
20.0
30.0
40.0
50.0
60.0
70.0
HHGWL @ 10'
Wet Seismic Settlement
Accu. Wet Seimsic Settlement
Dry Seismic Settlement
Accu. Dry Seismic Settlement
PostGM_AccuWetSeismicSettlement
PostGM_AccuDrySeismicSettlement

# Soil Stratification and Properties for "Liquefy2" Analysis

Boring B-1

| Layer No. | Base of Layer Depth (Ft.) | SPT Field N-Value (blows/ft.) | Liquefaction Susceptibility Index (0/1) | Wet Unit Weight (pcf) | Fines Content (% < #200) | $D_{50}$ (mm) | Depth of SPT Test (ft.) |
|---|---|---|---|---|---|---|---|
| 1 | 5 | 22 | 1 | 103 | 3 | 0.54 | 2.25 |
| 2 | 10 | 28 | 1 | 103 | 3 | 0.54 | 5.25 |
| 3 | 15 | 22 | 1 | 103 | 3 | 0.54 | 10.25 |
| 4 | 18 | 47 | 1 | 103 | 3 | 0.54 | 15.25 |
| 5 | 25 | 23 | 0 | 125 | 75 | 0.033 | 20.25 |
| 6 | 30 | 23 | 1 | 125 | 37 | 0.16 | 25.25 |
| 7 | 35 | 24 | 1 | 125 | 75 | 0.033 | 3.25 |
| 8 | 40 | 26 | 0 | 127 | 75 | 0.033 | 35.25 |
| 9 | 41.5 | 18 | 1 | 127 | 3 | 0.54 | 40.25 |
| 10 | 49 | 28 | 1 | 130 | 75 | 0.033 | 45.25 |
| 11 | 51.5 | 29 | 0 | 130 | 75 | 0.033 | 50.25 |

| | |
|---|---|
| Encountered Groundwater: 37 ft | $PGA_M$ = 0.606g |
| Historical High Groundwater: 10' | M = 6.62 |

Boring B-5

| Layer No. | Base of Layer Depth (Ft.) | SPT Field N-Value (blows/ft.) | Liquefaction Susceptibility Index (0/1) | Wet Unit Weight (pcf) | Fines Content (% < #200) | $D_{50}$ (mm) | Depth of SPT Test (ft.) |
|---|---|---|---|---|---|---|---|
| 1 | 10 | 21 | 0 | 126 | 75 | 0.033 | 5.25 |
| 2 | 15 | 25 | *1* | 125 | 37 | 0.16 | 10.25 |
| 3 | 18 | 33 | 1 | 111 | 3 | 0.54 | 15.25 |
| 4 | 25 | 33 | *0* | 120 | 75 | 0.033 | 20.25 |
| 5 | 30 | 50 | 0 | 120 | 75 | 0.033 | 25.25 |
| 6 | 35 | 45 | 1 | 122 | 37 | 0.16 | 30.25 |
| 7 | 40 | 27 | 1 | 122 | 75 | 0.033 | 35.25 |
| 8 | 45 | 30 | 1 | 122 | 62 | 0.058 | 40.25 |
| 9 | 50 | 24 | 0 | 125 | 75 | 0.033 | 45.25 |
| 10 | 51.5 | 46 | 0 | 125 | 80 | 0.03 | 50.25 |

| | |
|---|---|
| Encountered Groundwater: 35 ft | $PGA_M$ = 0.606g |
| Historical High Groundwater: 10' | M = 6.62 |

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*                           *
*      L I Q U E F Y 2      *
*                           *
*       Version 1.50        *
*                           *
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EMPIRICAL PREDICTION OF
EARTHQUAKE-INDUCED LIQUEFACTION POTENTIAL

JOB NUMBER: 7109.23 DATE: 04-13-2023

JOB NAME: Proposed Police Department

SOIL-PROFILE NAME: LIQTEST.LDW

BORING GROUNDWATER DEPTH: 37.00 ft

CALCULATION GROUNDWATER DEPTH: 10.00 ft

DESIGN EARTHQUAKE MAGNITUDE: 6.62 Mw

SITE PEAK GROUND ACCELERATION: 0.606 g

BOREHOLE DIAMETER CORRECTION FACTOR: 1.00

SAMPLER SIZE CORRECTION FACTOR: 1.00

N60 HAMMER CORRECTION FACTOR: 1.00

MAGNITUDE SCALING FACTOR METHOD: Idriss (1997, in press)

Magnitude Scaling Factor: 1.376

rd-CORRECTION METHOD: Seed (1985)

FIELD SPT N-VALUES ARE CORRECTED FOR THE LENGTH OF THE DRIVE RODS.

Rod Stick-Up Above Ground: 3.0 ft

CN NORMALIZATION FACTOR: 1.044 tsf

MINIMUM CN VALUE: 0.6

Boring B-1

NCEER [1997] Method LIQUEFACTION ANALYSIS SUMMARY PAGE 1

| SOIL NO. | CALC. DEPTH (ft) | TOTAL STRESS (tsf) | EFF. STRESS (tsf) | FIELD N (B/ft) | FC DELTA N1_60 | C N | CORR. (N1)60 (B/ft) | LIQUE. RESIST RATIO | r d | INDUC. STRESS RATIO | LIQUE. SAFETY FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.25 | 0.013 | 0.013 | 22 | 0.04 | * | * | * | * | * | ** |
| 1 | 0.75 | 0.039 | 0.039 | 22 | 0.04 | * | * | * | * | * | ** |
| 1 | 1.25 | 0.064 | 0.064 | 22 | 0.04 | * | * | * | * | * | ** |
| 1 | 1.75 | 0.090 | 0.090 | 22 | 0.04 | * | * | * | * | * | ** |
| 1 | 2.25 | 0.116 | 0.116 | 22 | 0.04 | * | * | * | * | * | ** |
| 1 | 2.75 | 0.142 | 0.142 | 22 | 0.04 | * | * | * | * | * | ** |
| 1 | 3.25 | 0.167 | 0.167 | 22 | 0.04 | * | * | * | * | * | ** |
| 1 | 3.75 | 0.193 | 0.193 | 22 | 0.04 | * | * | * | * | * | ** |
| 1 | 4.25 | 0.219 | 0.219 | 22 | 0.04 | * | * | * | * | * | ** |
| 1 | 4.75 | 0.245 | 0.245 | 22 | 0.04 | * | * | * | * | * | ** |
| 2 | 5.25 | 0.270 | 0.270 | 28 | 0.05 | * | * | * | * | * | ** |
| 2 | 5.75 | 0.296 | 0.296 | 28 | 0.05 | * | * | * | * | * | ** |
| 2 | 6.25 | 0.322 | 0.322 | 28 | 0.05 | * | * | * | * | * | ** |
| 2 | 6.75 | 0.348 | 0.348 | 28 | 0.05 | * | * | * | * | * | ** |
| 2 | 7.25 | 0.373 | 0.373 | 28 | 0.05 | * | * | * | * | * | ** |
| 2 | 7.75 | 0.399 | 0.399 | 28 | 0.05 | * | * | * | * | * | ** |
| 2 | 8.25 | 0.425 | 0.425 | 28 | 0.05 | * | * | * | * | * | ** |
| 2 | 8.75 | 0.451 | 0.451 | 28 | 0.05 | * | * | * | * | * | ** |
| 2 | 9.25 | 0.476 | 0.476 | 28 | 0.05 | * | * | * | * | * | ** |
| 2 | 9.75 | 0.502 | 0.502 | 28 | 0.05 | * | * | * | * | * | ** |
| 3 | 10.25 | 0.528 | 0.520 | 22 | 0.03 | 1.406 | 23.7 | 0.265 | 0.979 | 0.391 | 0.93 |
| 3 | 10.75 | 0.554 | 0.530 | 22 | 0.03 | 1.406 | 23.7 | 0.265 | 0.978 | 0.402 | 0.91 |
| 3 | 11.25 | 0.579 | 0.540 | 22 | 0.03 | 1.406 | 23.7 | 0.265 | 0.977 | 0.412 | 0.88 |
| 3 | 11.75 | 0.605 | 0.551 | 22 | 0.03 | 1.406 | 23.7 | 0.265 | 0.976 | 0.422 | 0.86 |
| 3 | 12.25 | 0.631 | 0.561 | 22 | 0.03 | 1.406 | 23.7 | 0.265 | 0.974 | 0.432 | 0.84 |
| 3 | 12.75 | 0.657 | 0.571 | 22 | 0.03 | 1.406 | 23.7 | 0.265 | 0.973 | 0.441 | 0.83 |
| 3 | 13.25 | 0.682 | 0.581 | 22 | 0.03 | 1.406 | 23.7 | 0.265 | 0.972 | 0.450 | 0.81 |
| 3 | 13.75 | 0.708 | 0.591 | 22 | 0.03 | 1.406 | 23.7 | 0.265 | 0.971 | 0.458 | 0.80 |
| 3 | 14.25 | 0.734 | 0.601 | 22 | 0.03 | 1.406 | 23.7 | 0.265 | 0.970 | 0.466 | 0.78 |
| 3 | 14.75 | 0.760 | 0.611 | 22 | 0.03 | 1.406 | 23.7 | 0.265 | 0.969 | 0.474 | 0.77 |
| 4 | 15.25 | 0.785 | 0.622 | 47 | 0.06 | 1.153 | 47.1 | Infin | 0.968 | 0.482 | NonLiq |
| 4 | 15.75 | 0.811 | 0.632 | 47 | 0.06 | 1.153 | 47.1 | Infin | 0.967 | 0.489 | NonLiq |
| 4 | 16.25 | 0.837 | 0.642 | 47 | 0.06 | 1.153 | 47.1 | Infin | 0.966 | 0.496 | NonLiq |
| 4 | 16.75 | 0.863 | 0.652 | 47 | 0.06 | 1.153 | 47.1 | Infin | 0.965 | 0.503 | NonLiq |
| 4 | 17.25 | 0.888 | 0.662 | 47 | 0.06 | 1.153 | 47.1 | Infin | 0.964 | 0.509 | NonLiq |
| 4 | 17.75 | 0.914 | 0.672 | 47 | 0.06 | 1.153 | 47.1 | Infin | 0.963 | 0.516 | NonLiq |
| 5 | 18.25 | 0.943 | 0.685 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 18.75 | 0.974 | 0.701 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 19.25 | 1.005 | 0.717 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 19.75 | 1.036 | 0.732 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 20.25 | 1.068 | 0.748 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 20.75 | 1.099 | 0.763 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 21.25 | 1.130 | 0.779 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 21.75 | 1.161 | 0.795 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 22.25 | 1.193 | 0.810 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 22.75 | 1.224 | 0.826 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 23.25 | 1.255 | 0.842 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 23.75 | 1.286 | 0.857 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 24.25 | 1.318 | 0.873 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 24.75 | 1.349 | 0.889 | 23 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 6 | 25.25 | 1.380 | 0.904 | 23 | 8.86 | 0.870 | 28.6 | 0.368 | 0.941 | 0.566 | 0.90 |
| 6 | 25.75 | 1.411 | 0.920 | 23 | 8.86 | 0.870 | 28.6 | 0.368 | 0.939 | 0.568 | 0.89 |

| SOIL NO. | CALC. DEPTH (ft) | TOTAL STRESS (tsf) | EFF. STRESS (tsf) | FIELD N (B/ft) | FC DELTA N1_60 | C N | CORR. (N1)60 (B/ft) | LIQUE. RESIST RATIO | r d | INDUC. STRESS RATIO | LIQUE. SAFETY FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 6 | 26.25 | 1.443 | 0.936 | 23 | 8.86 | 0.870 | 28.6 | 0.368 | 0.938 | 0.569 | 0.89 |
| 6 | 26.75 | 1.474 | 0.951 | 23 | 8.86 | 0.870 | 28.6 | 0.368 | 0.936 | 0.571 | 0.89 |
| 6 | 27.25 | 1.505 | 0.967 | 23 | 8.86 | 0.870 | 28.6 | 0.368 | 0.934 | 0.572 | 0.89 |
| 6 | 27.75 | 1.536 | 0.983 | 23 | 8.86 | 0.870 | 28.6 | 0.368 | 0.931 | 0.574 | 0.88 |
| 6 | 28.25 | 1.568 | 0.998 | 23 | 8.86 | 0.870 | 28.6 | 0.368 | 0.929 | 0.575 | 0.88 |
| 6 | 28.75 | 1.599 | 1.014 | 23 | 8.86 | 0.870 | 28.6 | 0.368 | 0.927 | 0.576 | 0.88 |
| 6 | 29.25 | 1.630 | 1.030 | 23 | 8.86 | 0.870 | 28.6 | 0.368 | 0.925 | 0.577 | 0.88 |
| 6 | 29.75 | 1.661 | 1.045 | 23 | 8.86 | 0.870 | 28.6 | 0.368 | 0.922 | 0.577 | 0.88 |
| 7 | 30.25 | 1.693 | 1.061 | 24 | 8.69 | 0.785 | 27.5 | 0.335 | 0.920 | 0.578 | 0.80 |
| 7 | 30.75 | 1.724 | 1.076 | 24 | 8.69 | 0.785 | 27.5 | 0.335 | 0.917 | 0.578 | 0.80 |
| 7 | 31.25 | 1.755 | 1.092 | 24 | 8.69 | 0.785 | 27.5 | 0.335 | 0.914 | 0.579 | 0.80 |
| 7 | 31.75 | 1.786 | 1.108 | 24 | 8.69 | 0.785 | 27.5 | 0.335 | 0.912 | 0.579 | 0.80 |
| 7 | 32.25 | 1.818 | 1.123 | 24 | 8.69 | 0.785 | 27.5 | 0.335 | 0.909 | 0.579 | 0.80 |
| 7 | 32.75 | 1.849 | 1.139 | 24 | 8.69 | 0.785 | 27.5 | 0.335 | 0.906 | 0.579 | 0.80 |
| 7 | 33.25 | 1.880 | 1.155 | 24 | 8.69 | 0.785 | 27.5 | 0.335 | 0.903 | 0.579 | 0.80 |
| 7 | 33.75 | 1.911 | 1.170 | 24 | 8.69 | 0.785 | 27.5 | 0.335 | 0.899 | 0.579 | 0.80 |
| 7 | 34.25 | 1.943 | 1.186 | 24 | 8.69 | 0.785 | 27.5 | 0.335 | 0.896 | 0.578 | 0.80 |
| 7 | 34.75 | 1.974 | 1.202 | 24 | 8.69 | 0.785 | 27.5 | 0.335 | 0.893 | 0.578 | 0.80 |
| 8 | 35.25 | 2.005 | 1.218 | 26 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 8 | 35.75 | 2.037 | 1.234 | 26 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 8 | 36.25 | 2.069 | 1.250 | 26 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 8 | 36.75 | 2.101 | 1.266 | 26 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 8 | 37.25 | 2.132 | 1.282 | 26 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 8 | 37.75 | 2.164 | 1.298 | 26 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 8 | 38.25 | 2.196 | 1.314 | 26 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 8 | 38.75 | 2.228 | 1.331 | 26 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 8 | 39.25 | 2.259 | 1.347 | 26 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 8 | 39.75 | 2.291 | 1.363 | 26 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 9 | 40.25 | 2.323 | 1.379 | 18 | 0.02 | 0.686 | 12.4 | 0.129 | 0.849 | 0.564 | 0.31 |
| 9 | 40.75 | 2.355 | 1.395 | 18 | 0.02 | 0.686 | 12.4 | 0.129 | 0.845 | 0.562 | 0.32 |
| 9 | 41.25 | 2.386 | 1.411 | 18 | 0.02 | 0.686 | 12.4 | 0.129 | 0.840 | 0.560 | 0.32 |
| 10 | 41.75 | 2.418 | 1.428 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.836 | 0.558 | 0.75 |
| 10 | 42.25 | 2.451 | 1.445 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.831 | 0.555 | 0.76 |
| 10 | 42.75 | 2.483 | 1.462 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.826 | 0.553 | 0.76 |
| 10 | 43.25 | 2.516 | 1.479 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.822 | 0.551 | 0.76 |
| 10 | 43.75 | 2.548 | 1.496 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.817 | 0.548 | 0.77 |
| 10 | 44.25 | 2.581 | 1.512 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.812 | 0.546 | 0.77 |
| 10 | 44.75 | 2.613 | 1.529 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.807 | 0.543 | 0.77 |
| 10 | 45.25 | 2.646 | 1.546 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.802 | 0.540 | 0.78 |
| 10 | 45.75 | 2.678 | 1.563 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.797 | 0.538 | 0.78 |
| 10 | 46.25 | 2.711 | 1.580 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.792 | 0.535 | 0.79 |
| 10 | 46.75 | 2.743 | 1.597 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.787 | 0.532 | 0.79 |
| 10 | 47.25 | 2.776 | 1.614 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.782 | 0.530 | 0.79 |
| 10 | 47.75 | 2.808 | 1.631 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.776 | 0.527 | 0.80 |
| 10 | 48.25 | 2.841 | 1.648 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.771 | 0.524 | 0.80 |
| 10 | 48.75 | 2.873 | 1.665 | 28 | 8.63 | 0.661 | 27.1 | 0.306 | 0.766 | 0.521 | 0.81 |
| 11 | 49.25 | 2.906 | 1.681 | 29 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 11 | 49.75 | 2.938 | 1.698 | 29 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 11 | 50.25 | 2.971 | 1.715 | 29 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 11 | 50.75 | 3.003 | 1.732 | 29 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 11 | 51.25 | 3.036 | 1.749 | 29 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |

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*      L I Q U E F Y 2      *
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*       Version 1.50        *
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EMPIRICAL PREDICTION OF
EARTHQUAKE-INDUCED LIQUEFACTION POTENTIAL

JOB NUMBER: 7109.23 DATE: 03-31-2023

JOB NAME: Police Departme

SOIL-PROFILE NAME: LIQTEST.LDW

BORING GROUNDWATER DEPTH: 35.00 ft

CALCULATION GROUNDWATER DEPTH: 10.00 ft

DESIGN EARTHQUAKE MAGNITUDE: 6.62 Mw

SITE PEAK GROUND ACCELERATION: 0.606 g

BOREHOLE DIAMETER CORRECTION FACTOR: 1.00

SAMPLER SIZE CORRECTION FACTOR: 1.00

N60 HAMMER CORRECTION FACTOR: 1.00

MAGNITUDE SCALING FACTOR METHOD: Idriss (1997, in press)

Magnitude Scaling Factor: 1.376

rd-CORRECTION METHOD: Seed (1985)

FIELD SPT N-VALUES ARE CORRECTED FOR THE LENGTH OF THE DRIVE RODS.

Rod Stick-Up Above Ground: 3.0 ft

CN NORMALIZATION FACTOR: 1.044 tsf

MINIMUM CN VALUE: 0.6

Boring B-5

NCEER [1997] Method LIQUEFACTION ANALYSIS SUMMARY PAGE 1

| SOIL NO. | CALC. DEPTH (ft) | TOTAL STRESS (tsf) | EFF. STRESS (tsf) | FIELD N (B/ft) | FC DELTA N1_60 | C N | CORR. (N1)60 (B/ft) | LIQUE. RESIST RATIO | r d | INDUC. STRESS RATIO | LIQUE. SAFETY FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 0.25 | 0.016 | 0.016 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 0.75 | 0.047 | 0.047 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 1.25 | 0.079 | 0.079 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 1.75 | 0.110 | 0.110 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 2.25 | 0.142 | 0.142 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 2.75 | 0.173 | 0.173 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 3.25 | 0.205 | 0.205 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 3.75 | 0.236 | 0.236 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 4.25 | 0.268 | 0.268 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 4.75 | 0.299 | 0.299 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 5.25 | 0.331 | 0.331 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 5.75 | 0.362 | 0.362 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 6.25 | 0.394 | 0.394 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 6.75 | 0.425 | 0.425 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 7.25 | 0.457 | 0.457 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 7.75 | 0.488 | 0.488 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 8.25 | 0.520 | 0.520 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 8.75 | 0.551 | 0.551 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 9.25 | 0.583 | 0.583 | 21 | ~ | * | * | * | * | * | ** |
| 1 | 9.75 | 0.614 | 0.614 | 21 | ~ | * | * | * | * | * | ** |
| 2 | 10.25 | 0.646 | 0.638 | 25 | 9.77 | 1.272 | 34.1 | Infin | 0.979 | 0.390 | NonLiq |
| 2 | 10.75 | 0.677 | 0.653 | 25 | 9.77 | 1.272 | 34.1 | Infin | 0.978 | 0.399 | NonLiq |
| 2 | 11.25 | 0.708 | 0.669 | 25 | 9.77 | 1.272 | 34.1 | Infin | 0.977 | 0.407 | NonLiq |
| 2 | 11.75 | 0.739 | 0.685 | 25 | 9.77 | 1.272 | 34.1 | Infin | 0.976 | 0.415 | NonLiq |
| 2 | 12.25 | 0.771 | 0.700 | 25 | 9.77 | 1.272 | 34.1 | Infin | 0.974 | 0.422 | NonLiq |
| 2 | 12.75 | 0.802 | 0.716 | 25 | 9.77 | 1.272 | 34.1 | Infin | 0.973 | 0.429 | NonLiq |
| 2 | 13.25 | 0.833 | 0.732 | 25 | 9.77 | 1.272 | 34.1 | Infin | 0.972 | 0.436 | NonLiq |
| 2 | 13.75 | 0.864 | 0.747 | 25 | 9.77 | 1.272 | 34.1 | Infin | 0.971 | 0.442 | NonLiq |
| 2 | 14.25 | 0.896 | 0.763 | 25 | 9.77 | 1.272 | 34.1 | Infin | 0.970 | 0.449 | NonLiq |
| 2 | 14.75 | 0.927 | 0.779 | 25 | 9.77 | 1.272 | 34.1 | Infin | 0.969 | 0.454 | NonLiq |
| 3 | 15.25 | 0.956 | 0.793 | 33 | 0.04 | 1.045 | 30.0 | 0.489 | 0.968 | 0.460 | 1.46 |
| 3 | 15.75 | 0.984 | 0.805 | 33 | 0.04 | 1.045 | 30.0 | 0.489 | 0.967 | 0.466 | 1.45 |
| 3 | 16.25 | 1.012 | 0.817 | 33 | 0.04 | 1.045 | 30.0 | 0.489 | 0.966 | 0.471 | 1.43 |
| 3 | 16.75 | 1.040 | 0.829 | 33 | 0.04 | 1.045 | 30.0 | 0.489 | 0.965 | 0.477 | 1.41 |
| 3 | 17.25 | 1.067 | 0.841 | 33 | 0.04 | 1.045 | 30.0 | 0.489 | 0.964 | 0.482 | 1.40 |
| 3 | 17.75 | 1.095 | 0.853 | 33 | 0.04 | 1.045 | 30.0 | 0.489 | 0.963 | 0.487 | 1.38 |
| 4 | 18.25 | 1.124 | 0.867 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 18.75 | 1.154 | 0.881 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 19.25 | 1.184 | 0.895 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 19.75 | 1.214 | 0.910 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 20.25 | 1.244 | 0.924 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 20.75 | 1.274 | 0.939 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 21.25 | 1.304 | 0.953 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 21.75 | 1.334 | 0.967 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 22.25 | 1.364 | 0.982 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 22.75 | 1.394 | 0.996 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 23.25 | 1.424 | 1.011 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 23.75 | 1.454 | 1.025 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 24.25 | 1.484 | 1.039 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 4 | 24.75 | 1.514 | 1.054 | 33 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 25.25 | 1.544 | 1.068 | 50 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 25.75 | 1.574 | 1.083 | 50 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |

| SOIL NO. | CALC. DEPTH (ft) | TOTAL STRESS (tsf) | EFF. STRESS (tsf) | FIELD N (B/ft) | FC DELTA N1_60 | C N | CORR. (N1)60 (B/ft) | LIQUE. RESIST RATIO | r d | INDUC. STRESS RATIO | LIQUE. SAFETY FACTOR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 5 | 26.25 | 1.604 | 1.097 | 50 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 26.75 | 1.634 | 1.111 | 50 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 27.25 | 1.664 | 1.126 | 50 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 27.75 | 1.694 | 1.140 | 50 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 28.25 | 1.724 | 1.155 | 50 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 28.75 | 1.754 | 1.169 | 50 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 29.25 | 1.784 | 1.183 | 50 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 5 | 29.75 | 1.814 | 1.198 | 50 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 6 | 30.25 | 1.844 | 1.212 | 45 | 11.65 | 0.752 | 45.5 | Infin | 0.920 | 0.551 | NonLiq |
| 6 | 30.75 | 1.875 | 1.227 | 45 | 11.65 | 0.752 | 45.5 | Infin | 0.917 | 0.552 | NonLiq |
| 6 | 31.25 | 1.905 | 1.242 | 45 | 11.65 | 0.752 | 45.5 | Infin | 0.914 | 0.552 | NonLiq |
| 6 | 31.75 | 1.936 | 1.257 | 45 | 11.65 | 0.752 | 45.5 | Infin | 0.912 | 0.553 | NonLiq |
| 6 | 32.25 | 1.966 | 1.272 | 45 | 11.65 | 0.752 | 45.5 | Infin | 0.909 | 0.553 | NonLiq |
| 6 | 32.75 | 1.997 | 1.287 | 45 | 11.65 | 0.752 | 45.5 | Infin | 0.906 | 0.554 | NonLiq |
| 6 | 33.25 | 2.027 | 1.302 | 45 | 11.65 | 0.752 | 45.5 | Infin | 0.903 | 0.554 | NonLiq |
| 6 | 33.75 | 2.058 | 1.317 | 45 | 11.65 | 0.752 | 45.5 | Infin | 0.899 | 0.554 | NonLiq |
| 6 | 34.25 | 2.088 | 1.332 | 45 | 11.65 | 0.752 | 45.5 | Infin | 0.896 | 0.554 | NonLiq |
| 6 | 34.75 | 2.119 | 1.347 | 45 | 11.65 | 0.752 | 45.5 | Infin | 0.893 | 0.553 | NonLiq |
| 7 | 35.25 | 2.149 | 1.361 | 27 | 8.69 | 0.698 | 27.5 | 0.322 | 0.889 | 0.553 | 0.80 |
| 7 | 35.75 | 2.180 | 1.376 | 27 | 8.69 | 0.698 | 27.5 | 0.322 | 0.886 | 0.553 | 0.80 |
| 7 | 36.25 | 2.210 | 1.391 | 27 | 8.69 | 0.698 | 27.5 | 0.322 | 0.882 | 0.552 | 0.80 |
| 7 | 36.75 | 2.241 | 1.406 | 27 | 8.69 | 0.698 | 27.5 | 0.322 | 0.878 | 0.551 | 0.80 |
| 7 | 37.25 | 2.271 | 1.421 | 27 | 8.69 | 0.698 | 27.5 | 0.322 | 0.874 | 0.551 | 0.80 |
| 7 | 37.75 | 2.302 | 1.436 | 27 | 8.69 | 0.698 | 27.5 | 0.322 | 0.871 | 0.550 | 0.81 |
| 7 | 38.25 | 2.332 | 1.451 | 27 | 8.69 | 0.698 | 27.5 | 0.322 | 0.866 | 0.549 | 0.81 |
| 7 | 38.75 | 2.363 | 1.466 | 27 | 8.69 | 0.698 | 27.5 | 0.322 | 0.862 | 0.548 | 0.81 |
| 7 | 39.25 | 2.393 | 1.481 | 27 | 8.69 | 0.698 | 27.5 | 0.322 | 0.858 | 0.546 | 0.81 |
| 7 | 39.75 | 2.424 | 1.496 | 27 | 8.69 | 0.698 | 27.5 | 0.322 | 0.854 | 0.545 | 0.81 |
| 8 | 40.25 | 2.454 | 1.510 | 30 | 8.97 | 0.675 | 29.2 | 0.374 | 0.849 | 0.544 | 0.95 |
| 8 | 40.75 | 2.485 | 1.525 | 30 | 8.97 | 0.675 | 29.2 | 0.374 | 0.845 | 0.542 | 0.95 |
| 8 | 41.25 | 2.515 | 1.540 | 30 | 8.97 | 0.675 | 29.2 | 0.374 | 0.840 | 0.541 | 0.95 |
| 8 | 41.75 | 2.546 | 1.555 | 30 | 8.97 | 0.675 | 29.2 | 0.374 | 0.836 | 0.539 | 0.95 |
| 8 | 42.25 | 2.576 | 1.570 | 30 | 8.97 | 0.675 | 29.2 | 0.374 | 0.831 | 0.537 | 0.96 |
| 8 | 42.75 | 2.607 | 1.585 | 30 | 8.97 | 0.675 | 29.2 | 0.374 | 0.826 | 0.535 | 0.96 |
| 8 | 43.25 | 2.637 | 1.600 | 30 | 8.97 | 0.675 | 29.2 | 0.374 | 0.822 | 0.533 | 0.96 |
| \ 8 | 43.75 | 2.668 | 1.615 | 30 | 8.97 | 0.675 | 29.2 | 0.374 | 0.817 | 0.531 | 0.97 |
| 8 | 44.25 | 2.698 | 1.630 | 30 | 8.97 | 0.675 | 29.2 | 0.374 | 0.812 | 0.529 | 0.97 |
| 8 | 44.75 | 2.729 | 1.645 | 30 | 8.97 | 0.675 | 29.2 | 0.374 | 0.807 | 0.527 | 0.97 |
| 9 | 45.25 | 2.760 | 1.660 | 24 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 9 | 45.75 | 2.791 | 1.675 | 24 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 9 | 46.25 | 2.822 | 1.691 | 24 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 9 | 46.75 | 2.853 | 1.707 | 24 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 9 | 47.25 | 2.885 | 1.722 | 24 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 9 | 47.75 | 2.916 | 1.738 | 24 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 9 | 48.25 | 2.947 | 1.754 | 24 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 9 | 48.75 | 2.978 | 1.769 | 24 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 9 | 49.25 | 3.010 | 1.785 | 24 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 9 | 49.75 | 3.041 | 1.801 | 24 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 10 | 50.25 | 3.072 | 1.816 | 46 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 10 | 50.75 | 3.103 | 1.832 | 46 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |
| 10 | 51.25 | 3.135 | 1.848 | 46 | ~ | ~ | ~ | ~ | ~ | ~ | ~~ |

# PLATE L-8 DYNAMIC SETTLEMENT EVALUATION

## "Wet" Dynamic Settlement of Saturated Soil

**Boring B-1**

(Historic High Groundwater at 10.0 feet)

(Tokimatsu and Seed, 1984)

| Depths, (ft) | Layer Thickness (ft) | N1 (60) Corrected | Induced Stress Ratio* | Volumetric Strain (%) | Dynamic Settlement (in) |
|---|---|---|---|---|---|
| 10-18 | 8.0 | 23.7 | 0.462 | 1.9% | 1.82 |
| 25-30 | 5.0 | 28.6 | 0.57 | 1.4% | 0.84 |
| 30-35 | 5.0 | 27.5 | 0.579 | 1.5% | 0.90 |
| 40-41.5 | 1.5 | 19.7 | 0.544 | 2.3% | 0.41 |
| *average value; | | | | | |

"Wet" Dynamic Settlement = **3.98 inches**

## Dynamic Settlement of Dry Soil

**Boring B-1**

(Krinitzsky, Gould and Edinger, 1984)

| Depths (ft) | Layer Thickness (ft) | N | Ap/g | Δ H/H | Dynamic Settlement (in) |
|---|---|---|---|---|---|
| 0-10 | 10 | 22 | 0.606 | 0.13% | 0.16 |

Dynamic Settlement of Dry Soil (current site condition) = **0.16 inch**

ASSOCIATED SOILS ENGINEERING, INC.
2860 Walnut Avenue, Signal Hill CA 90755
Tel: (562) 426-7990 * Fax: (562) 426-1842

# PLATE L-9 DYNAMIC SETTLEMENT EVALUATION

## "Wet" Dynamic Settlement of Saturated Soil

### Boring B-5

(Historic High Groundwater at 2.5 feet)

(Tokimatsu and Seed, 1984)

| Depths, (ft) | Layer Thickness (ft) | N1 (60) Corrected | Induced Stress Ratio* | Volumetric Strain (%) | Dynamic Settlement (in) |
|---|---|---|---|---|---|
| 15-18 | 3.0 | 28.1 | 0.474 | 1.4 | 0.50 |
| 35-39.5 | 4.5 | 24.5 | 0.488 | 1.9 | 1.03 |
| 40-45 | 5.0 | 29.2 | 0.536 | 1.3 | 0.78 |
| *average value; | | | | | |

"Wet" Dynamic Settlement = **2.31 inches**

## Dynamic Settlement of Dry Soil

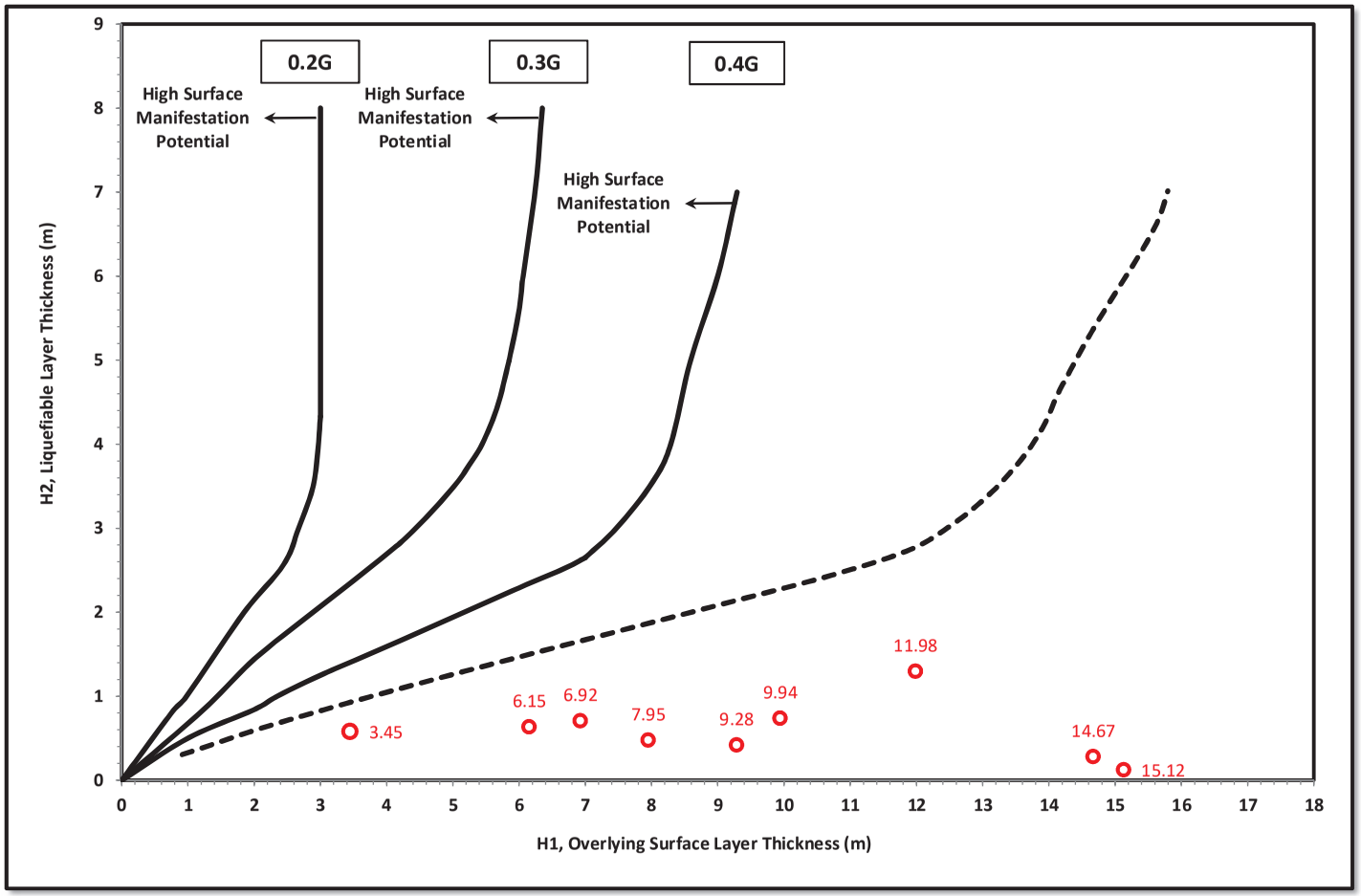
### Boring B-8

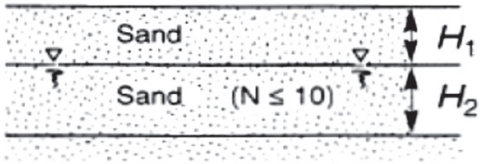
(Krinitzsky, Gould and Edinger, 1984)

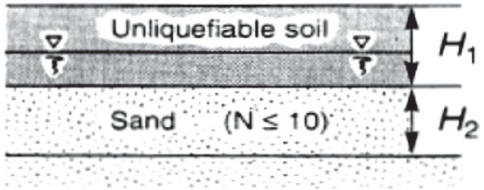
| Depths (ft) | Layer Thickness (ft) | N | Ap/g | Δ H/H | Dynamic Settlement (in) |
|---|---|---|---|---|---|
| 0-10 | 10 | 22 | 0.606 | 0.13% | 0.16 |

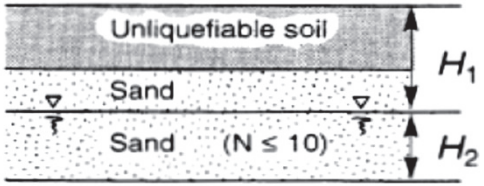
Dynamic Settlement of Dry Soil (current site condition) = **0.16 inch**

**ASSOCIATED SOILS ENGINEERING, INC.**
2860 Walnut Avenue, Signal Hill CA 90755
Tel: (562) 426-7990 * Fax: (562) 426-1842




* Correlations as per recommended in Ishihara (1985)

Site PGA (G) = **0.606** Test Location: **CPT-1**

Extrapolated/Intrapolated Corrleattion Curve based on site PGA

3.45 Denote the corresponding depth to surface in meters

Denote the position of the subject circle in relation to the correlation curve specific to site PGA

**Liquefiable Soil Strata**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Top of Layer (ft) | 11.30 | 20.16 | 22.70 | 26.06 | 30.43 | 32.59 | 39.29 | 48.09 | 49.59 | |
| Base of Layer (ft) | 13.21 | 22.25 | 25.03 | 27.63 | 31.81 | 35.02 | 43.55 | 49.02 | 50.00 | |
| Thickness (ft) | 1.91 | 2.09 | 2.33 | 1.57 | 1.38 | 2.43 | 4.26 | 0.93 | 0.41 | |
| Thickness (m) | 0.58 | 0.64 | 0.71 | 0.48 | 0.42 | 0.74 | 1.30 | 0.28 | 0.13 | |
| Depth to Surface (ft) | 11.30 | 20.16 | 22.70 | 26.06 | 30.43 | 32.59 | 39.29 | 48.09 | 49.59 | |
| Depth to Surface (m) | 3.45 | 6.15 | 6.92 | 7.95 | 9.28 | 9.94 | 11.98 | 14.67 | 15.12 | |

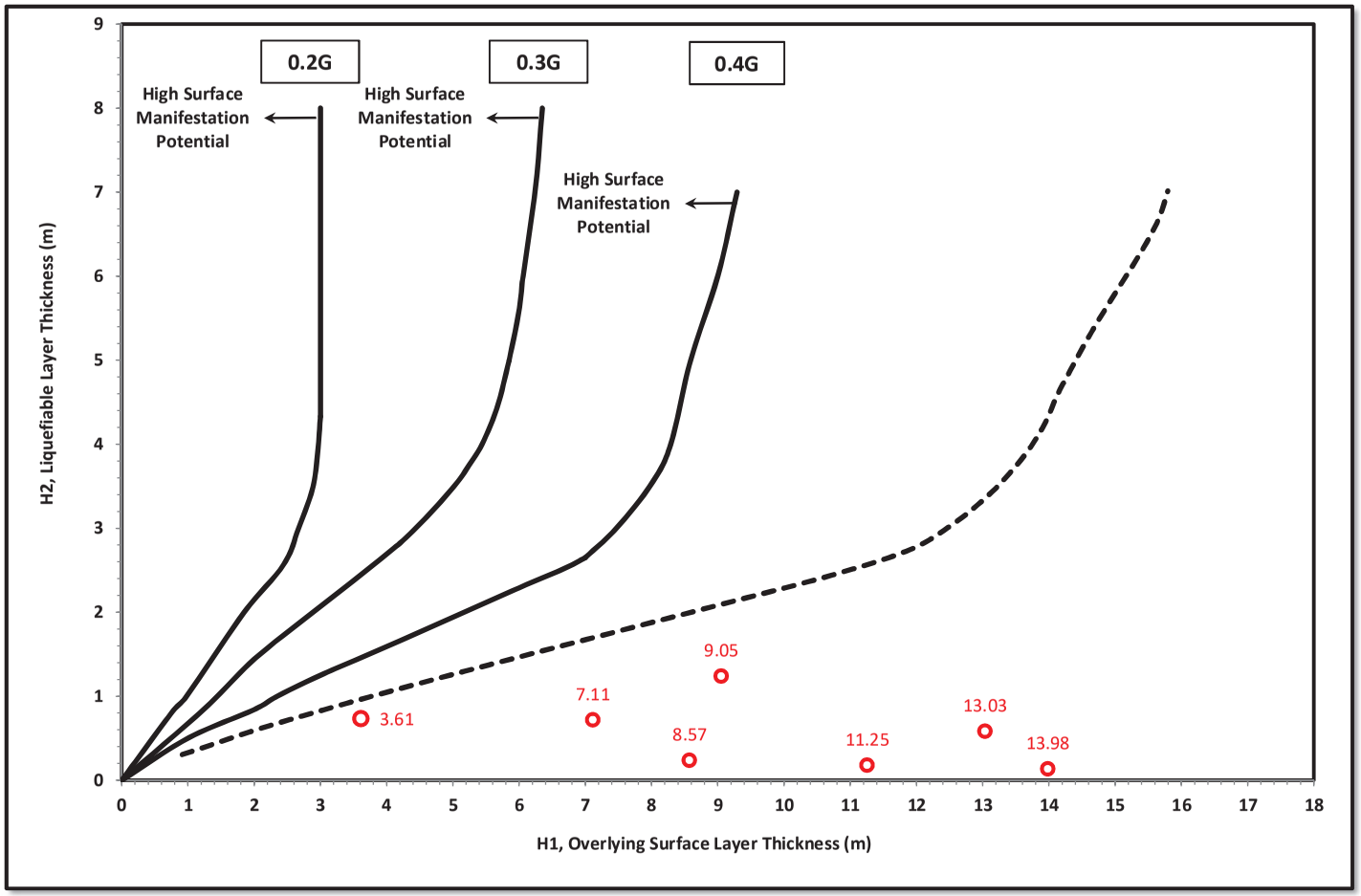

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Consulting Geotechnical Engineers

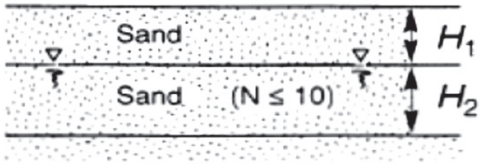
Associated Soils Engineering, Inc.
2860 Walnut Avenue
Signal Hill, CA 90755
Tel (562) 426-7990 Fax (562) 426-1842

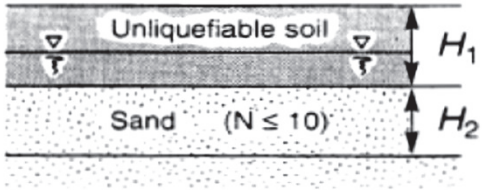

**Assessment of Post-Liquefaction Surface Manifestation Potential within 50-foot Depth**

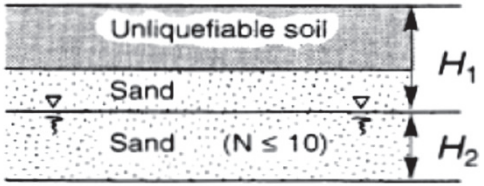
**Plate M-1**

| | |
|---|---|
| Project Name: | **Public Safety Facility Feasibility Study** NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA |
| Project No.: | **7109.23** |
| Date: | **March, 2023** |




* Correlations as per recommended in Ishihara (1985)

Site PGA (G) = **0.606** Test Location: **CPT-2**

Extrapolated/Intrapolated Corrleattion Curve based on site PGA

3.61 Denote the corresponding depth to surface in meters

○ Denote the position of the subject circle in relation to the correlation curve specific to site PGA

**Liquefiable Soil Strata**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Top of Layer (ft) | 11.84 | 23.32 | 28.10 | 29.67 | 36.89 | 42.73 | 45.84 | | | |
| Base of Layer (ft) | 14.25 | 25.68 | 28.88 | 33.74 | 37.48 | 44.65 | 46.29 | | | |
| Thickness (ft) | 2.41 | 2.36 | 0.78 | 4.07 | 0.59 | 1.92 | 0.45 | | | |
| Thickness (m) | 0.74 | 0.72 | 0.24 | 1.24 | 0.18 | 0.59 | 0.14 | | | |
| Depth to Surface (ft) | 11.84 | 23.32 | 28.10 | 29.67 | 36.89 | 42.73 | 45.84 | | | |
| Depth to Surface (m) | 3.61 | 7.11 | 8.57 | 9.05 | 11.25 | 13.03 | 13.98 | | | |

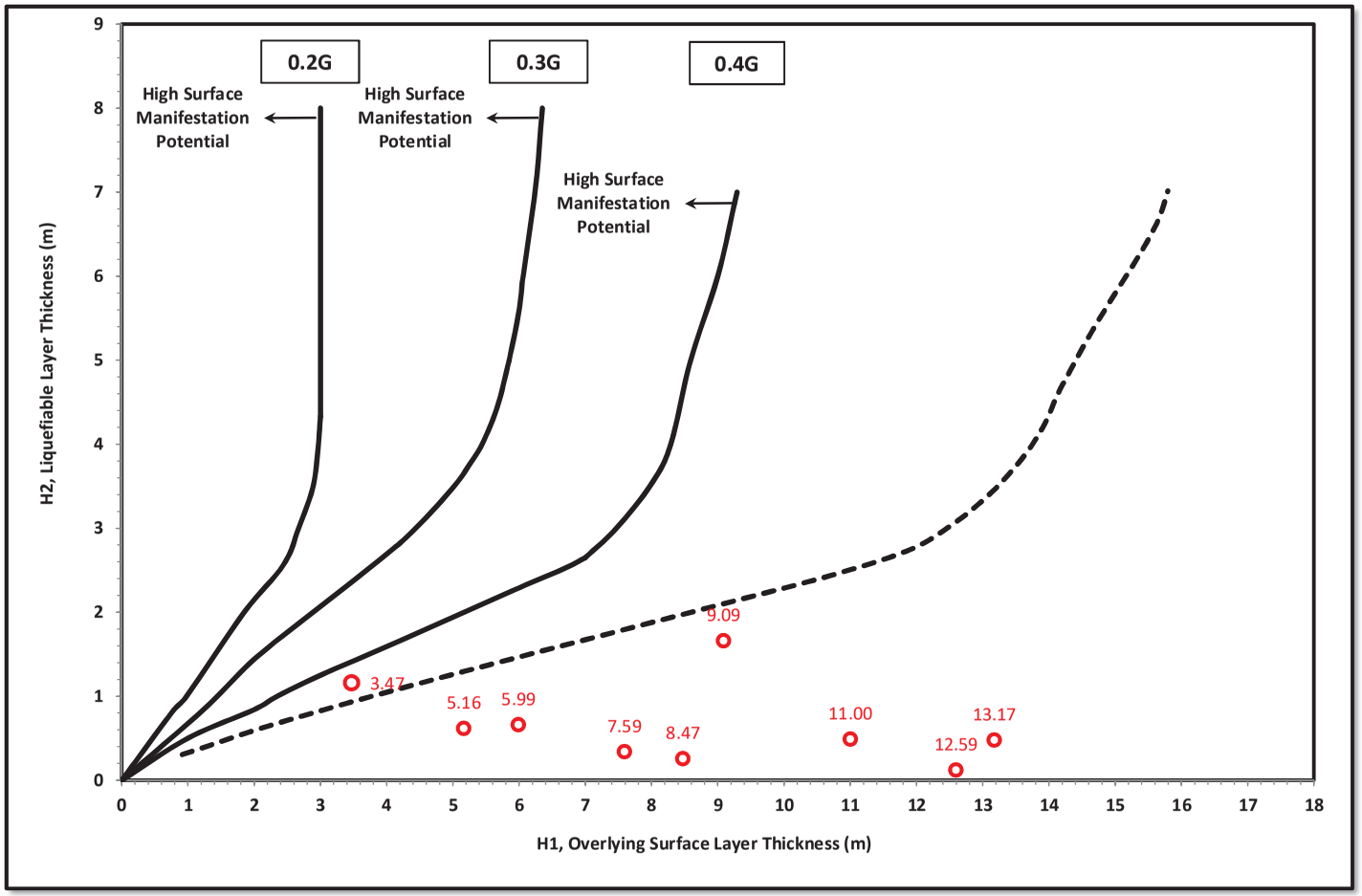

ASSOCIATED SOILS ENGINEERING, INC.
Consulting Geotechnical Engineers

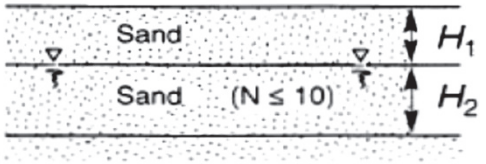
Associated Soils Engineering, Inc.
2860 Walnut Avenue
Signal Hill, CA 90755
Tel (562) 426-7990 Fax (562) 426-1842

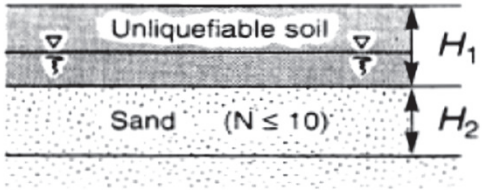

**Assessment of Post-Liquefaction Surface Manifestation Potential within 50-foot Depth**

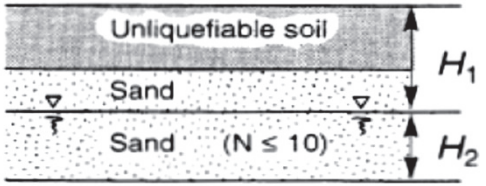
**Plate M-2**

| | |
|---|---|
| Project Name: | **Public Safety Facility Feasibility Study** NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA |
| Project No.: | **7109.23** |
| Date: | **March, 2023** |




* Correlations as per recommended in Ishihara (1985)

Site PGA (G) = **0.606** Test Location: **CPT-3**

Extrapolated/Intrapolated Corrleattion Curve based on site PGA

3.47 Denote the corresponding depth to surface in meters

Denote the position of the subject circle in relation to the correlation curve specific to site PGA

**Liquefiable Soil Strata**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Top of Layer (ft) | 11.37 | 16.93 | 19.63 | 24.88 | 27.77 | 29.79 | 36.06 | 41.29 | 43.19 |
| Base of Layer (ft) | 15.18 | 18.96 | 21.80 | 26.00 | 28.62 | 35.24 | 37.67 | 41.69 | 44.76 |
| Thickness (ft) | 3.81 | 2.03 | 2.17 | 1.12 | 0.85 | 5.45 | 1.61 | 0.40 | 1.57 |
| Thickness (m) | 1.16 | 0.62 | 0.66 | 0.34 | 0.26 | 1.66 | 0.49 | 0.12 | 0.48 |
| Depth to Surface (ft) | 11.37 | 16.93 | 19.63 | 24.88 | 27.77 | 29.79 | 36.06 | 41.29 | 43.19 |
| Depth to Surface (m) | 3.47 | 5.16 | 5.99 | 7.59 | 8.47 | 9.09 | 11.00 | 12.59 | 13.17 |


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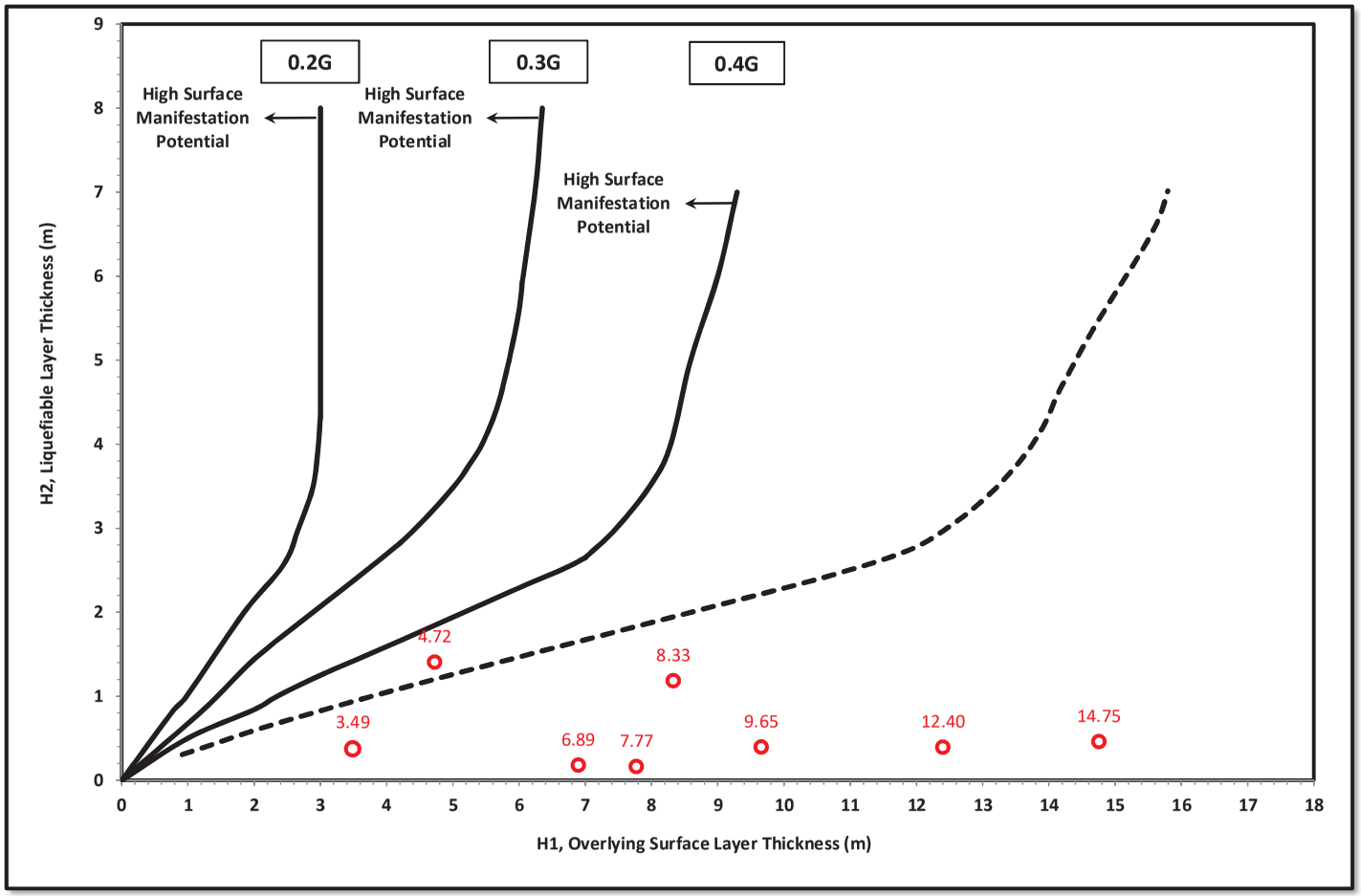

**Assessment of Post-Liquefaction Surface Manifestation Potential within 50-foot Depth**

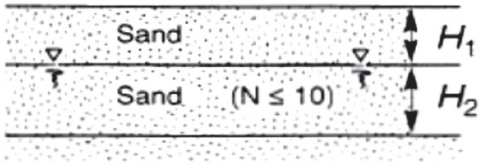
**Plate M-3**

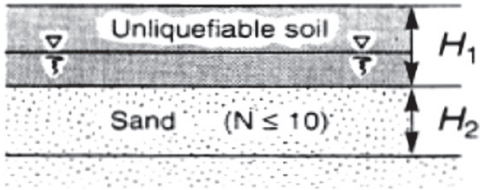
Project Name: **Public Safety Facility Feasibility Study**
**NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA**

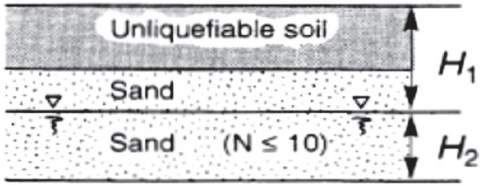
Project No.: **7109.23**

Date: **March, 2023**




* Correlations as per recommended in Ishihara (1985)

Site PGA (G) = **0.606** Test Location: **CPT-4**

Extrapolated/Intrapolated Corrleattion Curve based on site PGA

3.49 Denote the corresponding depth to surface in meters

Denote the position of the subject circle in relation to the correlation curve specific to site PGA

| Liquefiable Soil Strata | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Top of Layer (ft) | 11.43 | 15.49 | 22.60 | 25.47 | 27.30 | 31.65 | 40.65 | 48.37 | | |
| Base of Layer (ft) | 12.66 | 20.10 | 23.19 | 26.01 | 31.19 | 32.95 | 41.94 | 49.88 | | |
| Thickness (ft) | 1.23 | 4.61 | 0.59 | 0.54 | 3.89 | 1.30 | 1.29 | 1.51 | | |
| Thickness (m) | 0.38 | 1.41 | 0.18 | 0.16 | 1.19 | 0.40 | 0.39 | 0.46 | | |
| Depth to Surface (ft) | 11.43 | 15.49 | 22.60 | 25.47 | 27.30 | 31.65 | 40.65 | 48.37 | | |
| Depth to Surface (m) | 3.49 | 4.72 | 6.89 | 7.77 | 8.33 | 9.65 | 12.40 | 14.75 | | |

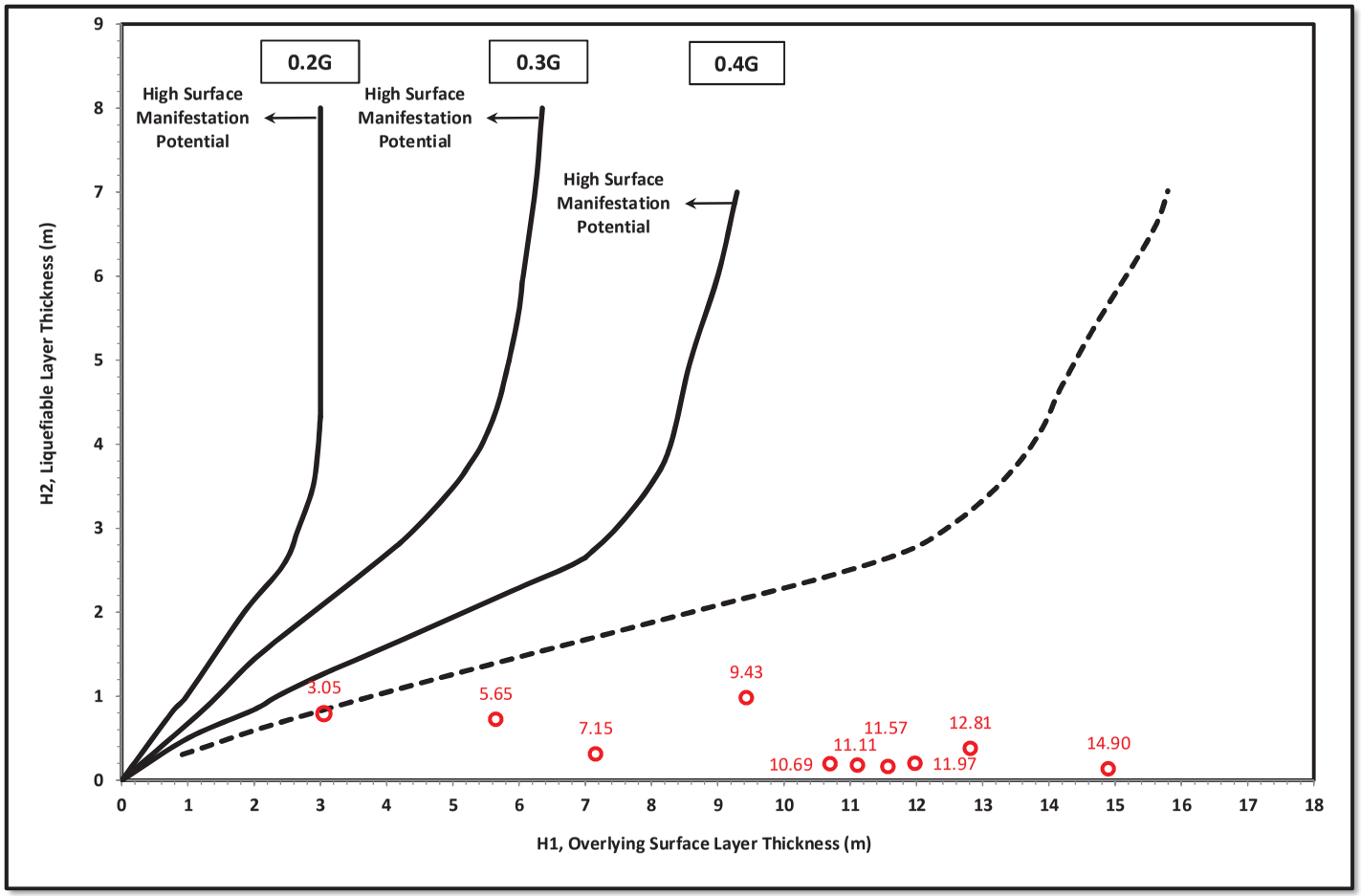

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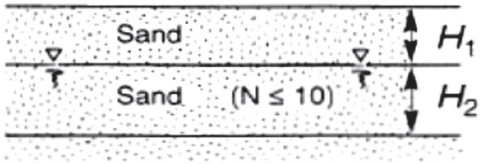
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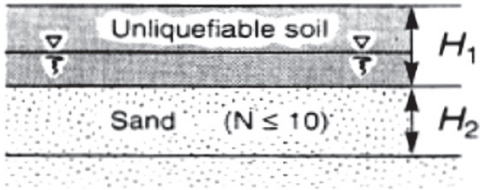

**Assessment of Post-Liquefaction Surface Manifestation Potential within 50-foot Depth**

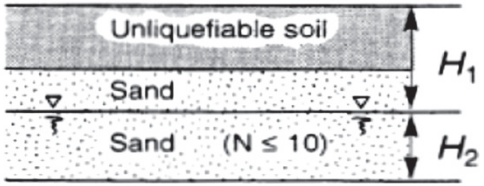
**Plate M-4**

| | |
|---|---|
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| Project No.: | **7109.23** |
| Date: | **March, 2023** |




* Correlations as per recommended in Ishihara (1985)

Site PGA (G) = **0.606** Test Location: **CPT-5**

Extrapolated/Intrapolated Corrleattion Curve based on site PGA

3.05 Denote the corresponding depth to surface in meters

Denote the position of the subject circle in relation to the correlation curve specific to site PGA

| Liquefiable Soil Strata | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Top of Layer (ft) | 10.00 | 18.52 | 23.45 | 30.92 | 35.06 | 36.42 | 37.93 | 39.26 | 42.01 | 48.84 |
| Base of Layer (ft) | 12.60 | 20.90 | 24.48 | 34.15 | 35.71 | 37.01 | 38.47 | 39.93 | 43.26 | 49.29 |
| Thickness (ft) | 2.60 | 2.38 | 1.03 | 3.23 | 0.65 | 0.59 | 0.54 | 0.67 | 1.25 | 0.45 |
| Thickness (m) | 0.79 | 0.73 | 0.31 | 0.99 | 0.20 | 0.18 | 0.16 | 0.20 | 0.38 | 0.14 |
| Depth to Surface (ft) | 10.00 | 18.52 | 23.45 | 30.92 | 35.06 | 36.42 | 37.93 | 39.26 | 42.01 | 48.84 |
| Depth to Surface (m) | 3.05 | 5.65 | 7.15 | 9.43 | 10.69 | 11.11 | 11.57 | 11.97 | 12.81 | 14.90 |

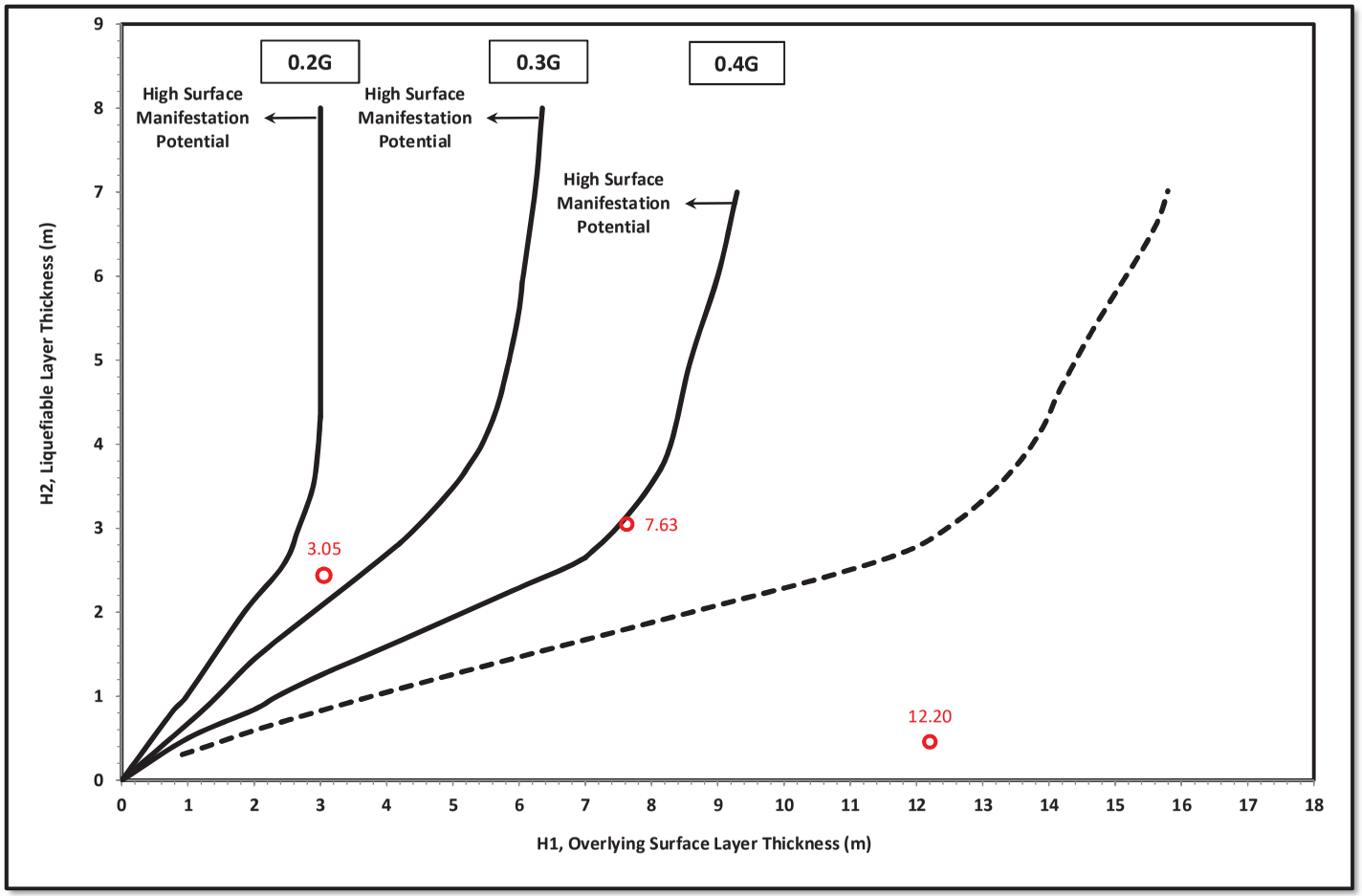

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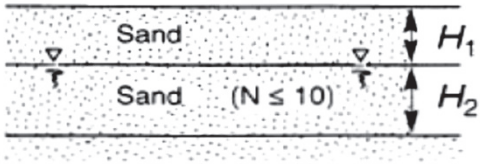
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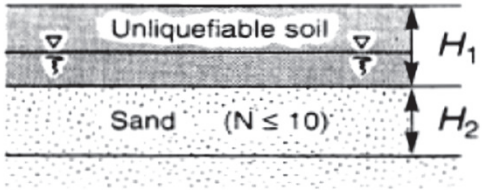

**Assessment of Post-Liquefaction Surface Manifestation Potential within 50-foot Depth**

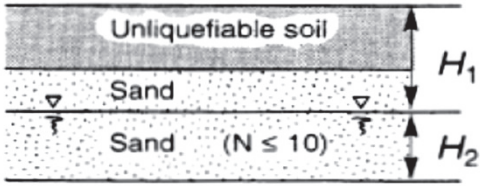
**Plate M-5**

| | |
|---|---|
| Project Name: | **Public Safety Facility Feasibility Study** NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA |
| Project No.: | **7109.23** |
| Date: | **March, 2023** |




* Correlations as per recommended in Ishihara (1985)

Site PGA (G) = **0.606** Test Location: **B-1**

Extrapolated/Intrapolated Corrleattion Curve based on site PGA

3.05 Denote the corresponding depth to surface in meters

Denote the position of the subject circle in relation to the correlation curve specific to site PGA

| Liquefiable Soil Strata | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Top of Layer (ft) | 10.00 | 25.00 | 40.00 | | | | | | | | |
| Base of Layer (ft) | 18.00 | 35.00 | 41.50 | | | | | | | | |
| Thickness (ft) | 8.00 | 10.00 | 1.50 | | | | | | | | |
| Thickness (m) | 2.44 | 3.05 | 0.46 | | | | | | | | |
| Depth to Surface (ft) | 10.00 | 25.00 | 40.00 | | | | | | | | |
| Depth to Surface (m) | 3.05 | 7.63 | 12.20 | | | | | | | | |


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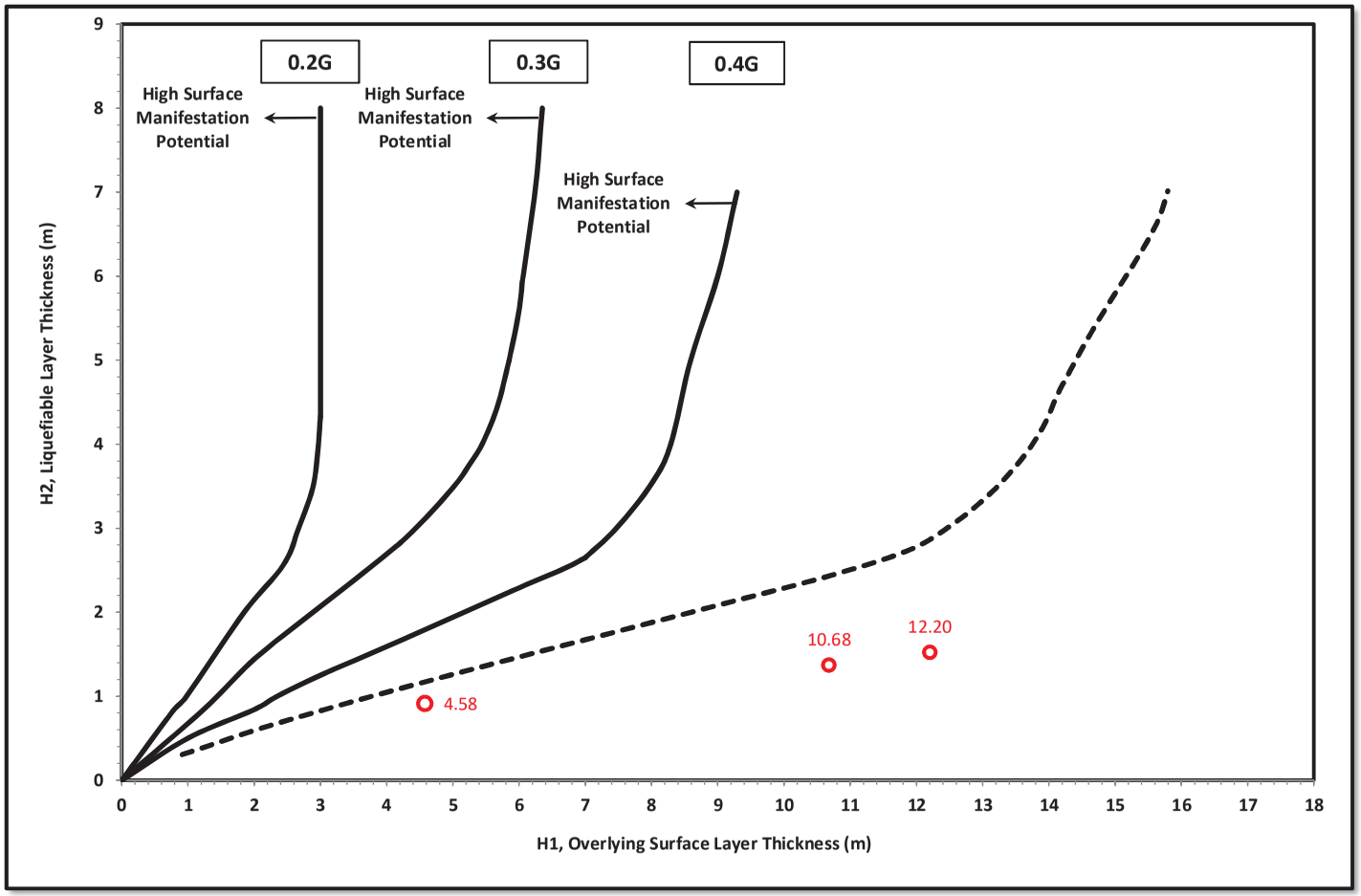

**Assessment of Post-Liquefaction Surface Manifestation Potential within 50-foot Depth**

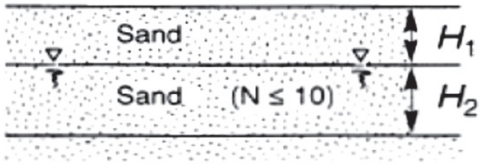
Project Name: **Public Safety Facility Feasibility Study**
NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

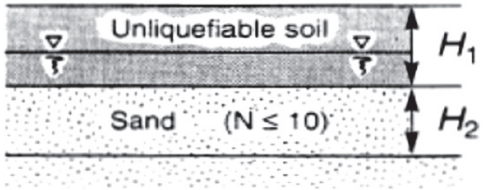
**Plate M-6**

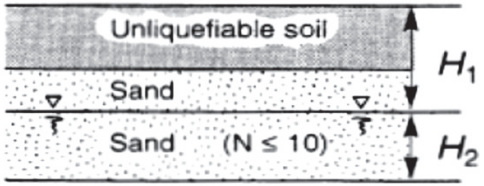
Project No.: **7109.23**

Date: **March, 2023**




* Correlations as per recommended in Ishihara (1985)

Site PGA (G) = **0.606** Test Location: **B-5**

Extrapolated/Intrapolated Corrleattion Curve based on site PGA

4.58 Denote the corresponding depth to surface in meters

Denote the position of the subject circle in relation to the correlation curve specific to site PGA

| Liquefiable Soil Strata | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Top of Layer (ft) | 15.00 | 35.00 | 40.00 | | | | | | | | |
| Base of Layer (ft) | 18.00 | 39.50 | 45.00 | | | | | | | | |
| Thickness (ft) | 3.00 | 4.50 | 5.00 | | | | | | | | |
| Thickness (m) | 0.92 | 1.37 | 1.53 | | | | | | | | |
| Depth to Surface (ft) | 15.00 | 35.00 | 40.00 | | | | | | | | |
| Depth to Surface (m) | 4.58 | 10.68 | 12.20 | | | | | | | | |


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**Assessment of Post-Liquefaction Surface Manifestation Potential within 50-foot Depth**

Plate M-7

| | |
|---|---|
| Project Name: | Public Safety Facility Feasibility Study<br>NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA |
| Project No.: | 7109.23 |
| Date: | March, 2023 |

## APPENDIX D – LITERATURE OF VIBRO STONE COLUMNS AND GEOSYNTHETIC-REINFORCED LATERAL TRANSFER PLATFORM (GRLTP)

Literature of Vibro Stone Columns and GRLTP (a total of 6 pages)

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# Vibro Replacement

Cohesive, mixed and layered soils generally do not densify easily when subjected to vibration alone. The Vibro Replacement technique was developed specifically for these soils, effectively extending the range of soil types that can be improved with the deep vibratory process.

With Vibro Replacement, columns of dense, crushed stone are designed to increase bearing capacity, reduce settlement, aid densification and mitigate the potential for liquefaction, and improve shear resistance. As the Vibro stone column is formed, the crushed stone is laterally compacted against the surrounding soil. The dense stone can then aid in further transmitting vibration energy into the soil, assisting with densification in uniformly graded and/or silty sands. The Vibro stone column and the in situ soil form an integrated system having low compressibility and high shear strength. Excess pore water can readily dissipate through the Vibro stone columns, which act as vertical drains.

Vibro stone columns can be arranged to suit varying combinations of loads, soil types and performance requirements. Column spacing is generally in the range of 6 to 10 feet. The allowable loads on reinforced soil vary according to soil conditions and performance requirements, but in cohesive soils will generally fall in the range of 1 to 5 ksf. However, higher values (2 to 10 ksf) are possible in granular soils or where the rate of loading permits substantial consolidation to occur.

## The Two Primary Methods of Vibro Stone Column Construction Are:

### Wet, Top Feed Method (Replacement & Displacement)

In this technique, jetting water is used to remove soft material, stabilize the probe hole, and ensure that the stone backfill reaches the tip of the vibrator. This is the most commonly used and most cost-efficient of the deep vibratory methods. However, handling of the spoil generated by the process may make this method more difficult to use on confined sites or in environmentally sensitive areas.

### Dry, Bottom Feed Method (Displacement)

This technique uses the same vibrator probes as standard Vibro Replacement, but with the addition of a hopper and supply tube to feed the stone backfill directly to the tip of the vibrator. Bottom feed Vibro Replacement is a completely dry operation where the vibrator remains in the ground during the construction process. The elimination of flushing water in turn eliminates the generation of spoil, extending the range of sites that can be treated. Treatment is possible up to a depth of 80 feet and is not inhibited by the presence of groundwater.



*Bottom feed Vibro Replacement uses a hopper and supply tube to feed the stone directly to the tip of the vibrator.*

## Expected Results

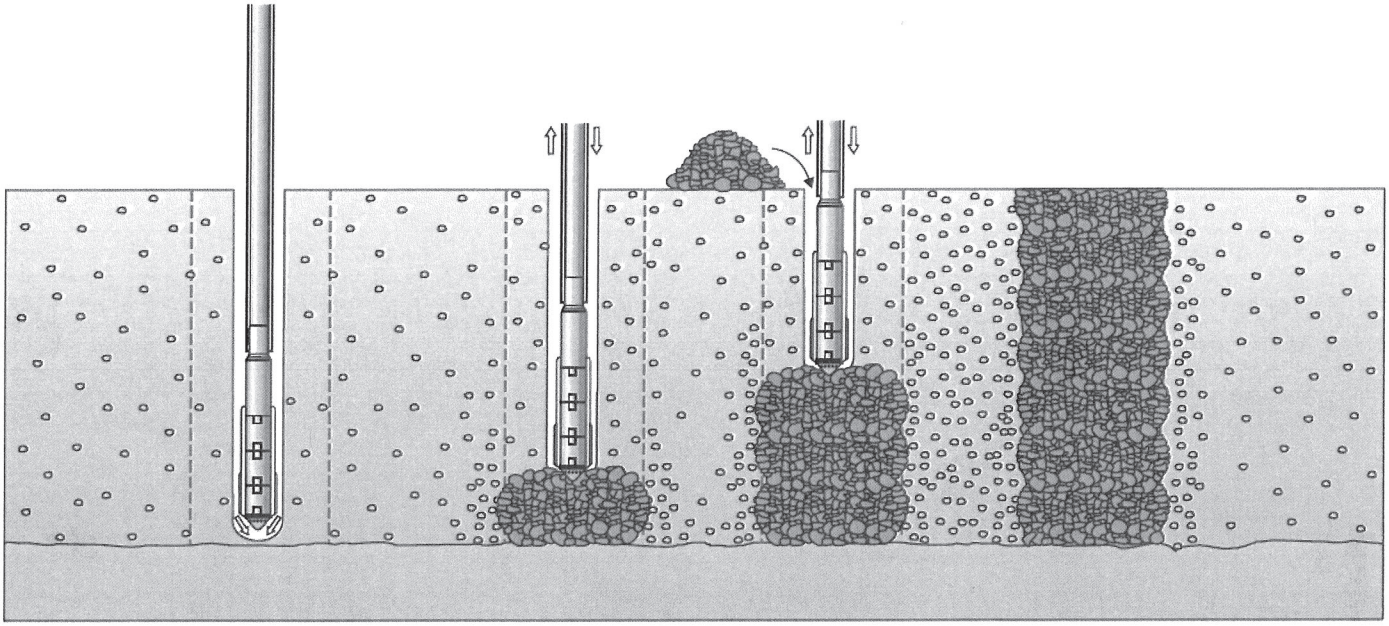
| Ground Type | Relative Effectiveness | |
|---|---|---|
| | Densification | Reinforcement |
| Sands | Excellent | Very Good |
| Silty Sands | Very Good | Very Good |
| Non Plastic Silts | Good | Excellent |
| Clays | Marginal | Excellent |
| Mine Spoils | Excellent, Depending on Gradation | Good |
| Dumped Fill | Good | Good |
| Garbage | Not Applicable | Not Applicable |

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***The introduction of stone provides for a high modulus medium that transmits the horizontal vibratory force and stone backfill material farther into the ground, improving the ability to densify surrounding soil.***

## Top Feed Vibro Replacement Process



### Penetration

*Assisted by water jetting, the vibrator penetrates to design depth under its own weight. The water jets are then adjusted to maintain an annular space around the vibrator*

### Replacement

*Crushed stone backfill is introduced in discrete lifts from the ground surface. Repenetration of each lift, and the horizontal forces of the vibrator, laterally compacts the stone against the surrounding soil*

### Completion

*This process is repeated up to ground level, forming a well-compacted, tightly-interlocked stone column surrounded by soil of enhanced density*

## The Vibro Stone Column Process:

- *Reduces foundation settlement*
- *Increases bearing capacity, allowing reduction in footing size*
- *Mitigates liquefaction potential*
- *Provides slope stabilization*
- *Permits construction on fills*
- *Permits shallow footing construction*
- *Prevents earthquake-induced lateral spreading*



*At the Design Center of the Americas site in Dania, FL, use of a lower horsepower vibrator allowed Vibro Replacement to be performed close to an existing building that had been constructed on soils also treated by Vibro Replacement.*

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# Design Considerations

## Liquefaction Prevention

Seismic motion causes pore pressure to increase. When the pore pressure increases to equal interstitial grain-to-grain stresses, liquefaction is initiated. The soil then loses all shear strength, resulting in bearing failures and slope instability, followed by large deformations (horizontal and vertical).

To combat this phenomenon, site improvement by densification has proven to be the most effective solution. Densification will increase interstitial stresses beyond pore pressure increase potential, thus preventing liquefaction and settlement.

Vibro stone columns can offer the greatest protection by densifying and reinforcing the ground, and by providing an increased drainage potential through the stone column. Although stone columns enhance vertical drainage during a seismic event, drainage alone is not enough. Densification is required to preclude excessive settlements and offers the most secure remedy to multiple ground accelerations (aftershocks).

## Assessing Site Liquefaction Potential

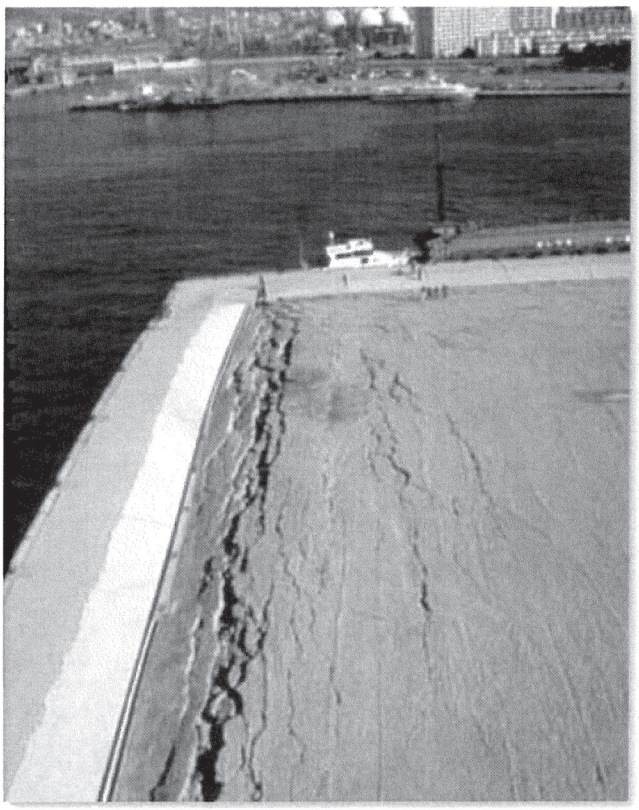
The most basic procedure used in engineering practices for the assessment of site liquefaction potential is that of the "Simplified Procedure", originally developed by Seed and Idriss (1971, 1982) and subsequent refinements by Seed and others. The procedure primarily compares the cyclic resistance ratio (CRR) [the cyclic stress ratio required to induce liquefaction for a cohesionless soil stratum at a given depth] with the earthquake-induced cyclic stress ratio (CSR) at that depth from a specified design earthquake, defined by peak ground surface acceleration and an associated earthquake moment magnitude.

These earthquake parameters are developed by seismologists upon review of earthquake probability maps, site subsurface conditions, and risk potential for the structure. The regional differences are distinct. West coast earthquakes, for instance, are potentially of higher magnitude than those anticipated on the east coast; however, an east coast earthquake will likely affect a much larger area. Updated building codes also offer some guidance.

*Reference - Martin, G.R. and Lew, M., "Recommended Procedures for the Implementation of DMG Special Publication 117, Guidelines for Analyzing and Mitigating Liquefaction Hazards in California", Southern California Earthquake Center, University of Southern California, March 1999.*



*Lateral spreading as a result of the 1989 Loma Prieta Earthquake destroyed a California State University Marine Laboratory at Moss Landing, north of Monterey. A new facility has since been constructed nearby, on improved ground. Photo courtesy of Loma Prieta Collection, Earthquake Engineering Research Center, University of California, Berkeley.*



*Liquefaction-induced lateral spread fissures and sporadic sand boils as a result of the magnitude 6.7, 1995 Kobe earthquake. Photo courtesy of Kobe Geotechnical Collection, Earthquake Engineering Research Center, University of California, Berkeley.*

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***In the many areas of North and South America susceptible to earthquake activity, the densification and reinforcement provided by Vibro techniques can mitigate the liquefaction and lateral spreading associated with a seismic event.***

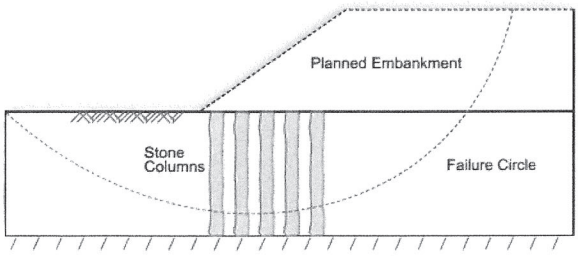
The figures at right show a comparison of CSR and CRR to the measured in situ strength of the soil as determined by Standard Penetration Tests (SPTs) or Cone Penetrometer Tests (CPTs). The graphs indicate that for a magnitude 7.5 earthquake, liquefaction potential can be diminished when the soil stratum is improved to 20 to 30 blows per foot, corrected SPT values, or to 100 to 150 tsf, corrected CPT tip resistance. The fines content (% passing the No. 200 sieve) plays an important role in assessing the potential for liquefaction and subsequent design of a ground improvement program.

## Embankment Subgrade Improvement

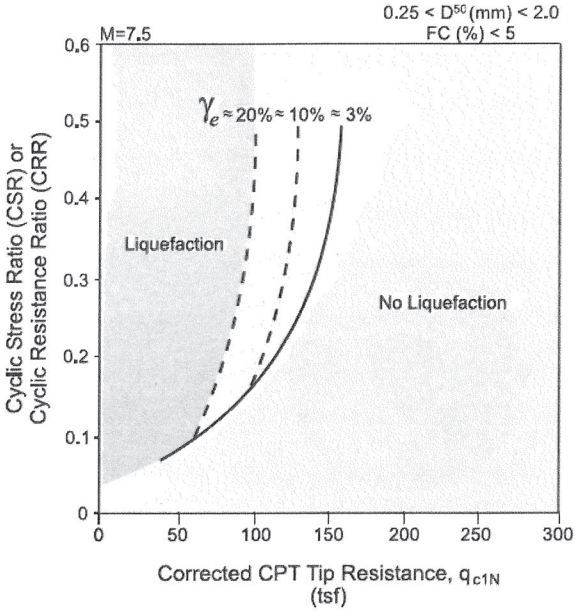
Where embankments are to be constructed, Vibro stone columns, installed through the calculated failure surface, can increase the slope stability safety factor provided the columns can attract sufficient loading to increase shearing resistance.

The shear strength of treated soil depends on the shear strength of the untreated soil, the transverse shear strength of the columns, the area replacement ratio and the load conditions. Design methods typically use some average shear strength based on these parameters for analysis. Stability calculations are then analyzed by Bishop's, Janbu or other numerical analysis methods.

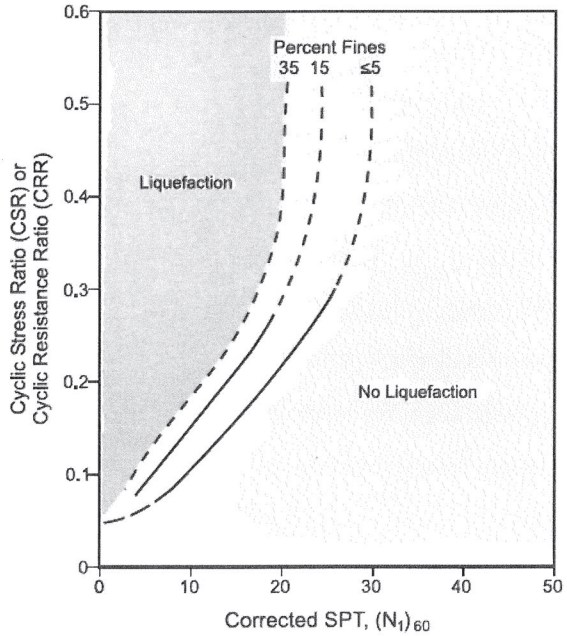
Of particular interest is the case of a planned embankment over soft soils. As the embankment is constructed over the Vibro stone columns, stress concentration occurs in the columns due to their modulus value being much greater than the soft, surrounding in situ soil. This stress concentration results in a high vertical stress in the column, thus greatly increasing the columns' shear resistance. Stress concentration factors of three or greater are common.




*Slope cross section.*



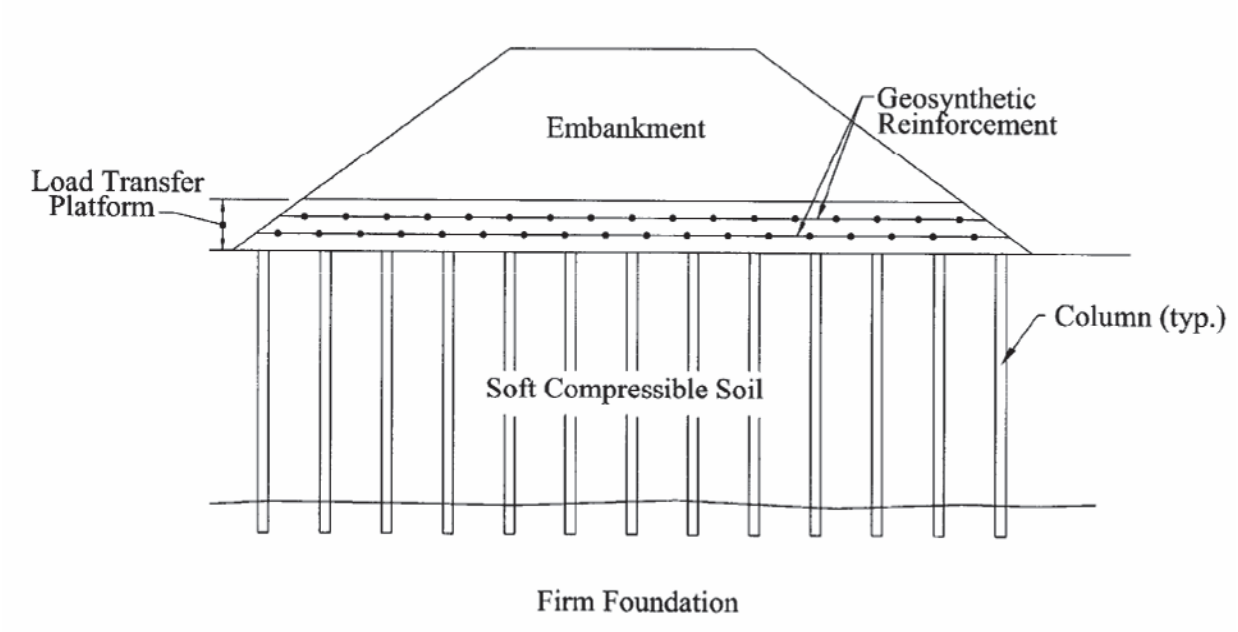

*Curves recommended for determination of cyclic resistance ratio (CRR) from CPT data. Modified from Robertson and Wride, 1997.*




*Simplified curves recommended for determination of cyclic resistance ratio (CRR) from SPT data for moment magnitude 7.5. Modified from Youd and Idriss, 1997.*

# Column-Supported Embankments

## Fact Sheet




Column Supported Embankment with Geosynthetic Reinforcement (Figure from Elias et al. (2006))

### Basic Function:

Column-Supported Embankments (CSE) enable construction of embankments over unstable soils by transferring the load to a stiffer underlying stratum.

### Advantages:

- Accelerates construction compared to conventional methods
- Reduces total and differential settlement
- Protects adjacent facilities from distress
- Can be used with a wide variety of columns to accommodate different site conditions

### General Description:

Column-supported embankments are used when the soil is too soft or compressible to support the embankment. The columns transfer the load to a firm stratum below the soft layer. The columns can be floating or end-bearing depending on the site geology, the project requirements, and the type of column used. For most CSE applications, the columns are end-bearing. When high-capacity columns with wide spacings are used, geosynthetic reinforcement is typically used at the interface between the top of the columns and the embankment to more efficiently transfer the embankment load to the columns.

### Geologic Applicability:

- Typically used on soft compressible clay, peats, and organic soils where settlement and global stability are concerns
- Most cost effective when the compressible material thickness ranges from 15 to 70 feet (4.6 to 21.3 meters)
- Soft soil underlain by stiffer soil or bedrock

### Construction Methods:

Columns of strong material are placed in the soft ground to provide the necessary support by transferring the embankment load to a firm stratum. There are numerous types of columns that may be used for this technology (e.g., aggregate columns, vibro-concrete columns, deep mixing method columns, continuous flight auger piles, driven piles with or without pile caps). A load transfer platform or bridging layer may be constructed immediately above the columns to help transfer the load from the embankment to the columns, and thereby permit larger spacing between columns than would be possible otherwise. Load transfer platforms generally consist of compacted soil and geosynthetic reinforcement. The important details of soil type and geosynthetic reinforcement used in the load transfer platform depend on the design procedure employed. Load transfer platforms are used more often when the spacing between columns is relatively large (i.e., greater than 5 feet), which requires higher load carrying capacity from the columns (e.g., vibro-concrete columns, continuous flight auger piles).

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## SHRP2 Applications:

- New Embankment and Roadway Construction
- Roadway and Embankment Widening

## Example Successful Applications:

- Rancocas Creek Railroad Bridge – NJ
- I-95/Route 1 Interchange – Alexandria, VA
- Minnesota TH241 Widening – St. Michael, MN

## Complementary Technologies:

Many different column technologies can be used with CSEs. Some applications may use lightweight fill in combination with column supported embankments

## Alternate Technologies:

Technologies for similar applications include preloading with or without PVDs, lightweight fill, excavation and replacement, staged construction, and geosynthetic reinforcement embankments.

## Potential Disadvantages:

CSEs can incur a higher cost than technologies that require more time before the embankment can be put into service. CSEs suffer form a lack of standard design procedures and lack of knowledge about technology benefits, design procedures, and construction techniques.

## Key References for this technology:

Collin, J.G. (2007). “U.S. state-of-practice for the design of geosynthetic reinforced load transfer platforms in column supported embankments.” GeoDenver 2007, *GSP-172: Soil Improvement*, CD-ROM.

Filz, G. M. and Smith, M. E. (2007). “Net vertical loads on geosynthetic reinforcement in column-supported embankments.” GeoDenver 2007, *GSP-172: Soil Improvement*, CD-ROM.

FHWA (2004). Ground Improvement Method- Technical Summary #7: Column Supported Embankments. NHI Course No. 132034. FHWA NHI-04-001.

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## APPENDIX E – RESULTS OF ANALYSES OF VIBRO STONE COLUMNS

| | |
|---|---|
| Plates N-1 through N-30 | Liquefaction Analysis Incl. Discrete Columns with CPT Data |
| Plate O-1 | Analysis of Geosynthetic-Reinforced Load Transfer Platform (GRLTP) over Discrete Columns |
| Plates P-1 through P-3 | Results of Vertical Analysis of Vibro Stone Column |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-1

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A ($ft^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | | | | | | | | | | | | |
| 0.08 | 105.03 | 0.0042 | 25.5 | 1.05 | 4.12% | 4.118 | 0.59 | 6068.69 | 1.95 | 1.24 | ######### | # | # | 1.00 | 0.000 | 0.394 | 840.67 | 3.262 |
| 0.13 | 115.93 | 0.0075 | 13.92 | 0.89 | 6.39% | 6.397 | 0.67 | 1846.27 | 2.22 | 1.71 | 343 | 3.817 | 8.522 | 1.00 | 0.000 | 0.394 | 812.70 | 3.600 |
| 0.21 | 112.71 | 0.0120 | 9.73 | 0.65 | 6.68% | 6.689 | 0.71 | 806.88 | 2.34 | 2.07 | 414 | 6.670 | 13.850 | 1.00 | 0.000 | 0.394 | 759.54 | 3.500 |
| 0.27 | 113.07 | 0.0154 | 19.66 | 0.54 | 2.75% | 2.749 | 0.60 | 1272.65 | 1.99 | 1.28 | 256 | 1.648 | 6.813 | 1.00 | 0.000 | 0.394 | 728.18 | 3.511 |
| 0.33 | 114.11 | 0.0189 | 53.05 | 0.45 | 0.85% | 0.849 | 0.50 | 2811.94 | 1.45 | 1.00 | 200 | 0.824 | 1.789 | 1.00 | 0.000 | 0.394 | 697.34 | 3.544 |
| 0.39 | 113.24 | 0.0223 | 79.43 | 0.35 | 0.44% | 0.441 | 0.50 | 3567.85 | 1.15 | 1.00 | 200 | 0.824 | 1.231 | 1.00 | 0.000 | 0.394 | 654.82 | 3.517 |
| 0.47 | 112.89 | 0.0268 | 89.46 | 0.32 | 0.36% | 0.358 | 0.50 | 3340.54 | 1.07 | 1.00 | 200 | 0.824 | 1.043 | 1.00 | 0.000 | 0.393 | 639.67 | 3.506 |
| 0.53 | 113.51 | 0.0302 | 88.29 | 0.35 | 0.40% | 0.397 | 0.50 | 2924.70 | 1.13 | 1.00 | 200 | 0.824 | 1.043 | 1.00 | 0.000 | 0.393 | 654.82 | 3.525 |
| 0.60 | 113.47 | 0.0341 | 88.24 | 0.34 | 0.39% | 0.385 | 0.50 | 2582.99 | 1.14 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 649.92 | 3.524 |
| 0.67 | 113.47 | 0.0381 | 88.19 | 0.34 | 0.39% | 0.386 | 0.50 | 2312.47 | 1.15 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 649.92 | 3.524 |
| 0.73 | 113.65 | 0.0415 | 91.01 | 0.35 | 0.38% | 0.385 | 0.50 | 2190.44 | 1.16 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 654.82 | 3.530 |
| 0.80 | 114.44 | 0.0455 | 98.02 | 0.38 | 0.39% | 0.388 | 0.50 | 2151.62 | 1.15 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 668.74 | 3.554 |
| 0.88 | 115.13 | 0.0501 | 104.93 | 0.41 | 0.39% | 0.391 | 0.50 | 2091.73 | 1.15 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 681.59 | 3.575 |
| 0.93 | 115.39 | 0.0530 | 106.49 | 0.42 | 0.39% | 0.395 | 0.50 | 2007.29 | 1.15 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 685.67 | 3.584 |
| 0.99 | 115.48 | 0.0565 | 109.61 | 0.42 | 0.38% | 0.383 | 0.50 | 1939.36 | 1.14 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 685.67 | 3.586 |
| 1.06 | 114.56 | 0.0605 | 107.95 | 0.37 | 0.34% | 0.343 | 0.50 | 1783.32 | 1.13 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 664.22 | 3.558 |
| 1.13 | 110.93 | 0.0644 | 99.87 | 0.23 | 0.23% | 0.230 | 0.50 | 1550.22 | 1.06 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 583.80 | 3.445 |
| 1.20 | 111.57 | 0.0683 | 93.64 | 0.26 | 0.28% | 0.278 | 0.50 | 1370.28 | 1.14 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 604.54 | 3.465 |
| 1.26 | 112.01 | 0.0716 | 84.88 | 0.29 | 0.34% | 0.342 | 0.50 | 1183.70 | 1.23 | 1.00 | 200 | 0.824 | 1.043 | 1.00 | 0.000 | 0.393 | 623.01 | 3.479 |
| 1.33 | 112.22 | 0.0756 | 79.72 | 0.30 | 0.38% | 0.377 | 0.50 | 1053.85 | 1.29 | 1.00 | 200 | 0.824 | 1.043 | 1.00 | 0.000 | 0.393 | 628.75 | 3.485 |
| 1.40 | 112.12 | 0.0795 | 72.42 | 0.31 | 0.43% | 0.429 | 0.50 | 909.96 | 1.37 | 1.00 | 200 | 0.824 | 1.231 | 1.00 | 0.000 | 0.393 | 634.30 | 3.482 |
| 1.46 | 111.56 | 0.0828 | 58.99 | 0.30 | 0.51% | 0.509 | 0.50 | 711.05 | 1.49 | 1.00 | 200 | 0.824 | 1.592 | 1.00 | 0.000 | 0.393 | 628.75 | 3.465 |
| 1.51 | 111.51 | 0.0856 | 60.74 | 0.30 | 0.49% | 0.495 | 0.50 | 708.30 | 1.48 | 1.00 | 200 | 0.824 | 1.409 | 1.00 | 0.000 | 0.392 | 628.75 | 3.463 |
| 1.61 | 111.07 | 0.0912 | 56.36 | 0.29 | 0.51% | 0.515 | 0.50 | 617.07 | 1.53 | 1.00 | 183 | 0.647 | 1.251 | 1.00 | 0.000 | 0.392 | 623.01 | 3.449 |
| 1.65 | 110.90 | 0.0934 | 54.22 | 0.29 | 0.53% | 0.536 | 0.50 | 579.48 | 1.55 | 1.00 | 174 | 0.567 | 1.096 | 1.00 | 0.000 | 0.392 | 623.01 | 3.444 |
| 1.71 | 110.69 | 0.0967 | 51.59 | 0.28 | 0.54% | 0.544 | 0.50 | 532.36 | 1.58 | 1.00 | 162 | 0.478 | 1.038 | 1.00 | 0.000 | 0.392 | 617.08 | 3.438 |
| 1.79 | 110.41 | 0.1011 | 50.23 | 0.27 | 0.54% | 0.539 | 0.50 | 495.63 | 1.60 | 1.00 | 155 | 0.423 | 0.919 | 1.00 | 0.000 | 0.392 | 610.93 | 3.429 |
| 1.85 | 110.31 | 0.1045 | 49.64 | 0.27 | 0.54% | 0.545 | 0.50 | 474.25 | 1.61 | 1.00 | 150 | 0.396 | 0.859 | 1.00 | 0.000 | 0.392 | 610.93 | 3.426 |
| 1.92 | 110.20 | 0.1083 | 49.74 | 0.27 | 0.54% | 0.544 | 0.50 | 458.24 | 1.61 | 1.00 | 148 | 0.381 | 0.827 | 1.00 | 0.000 | 0.392 | 610.93 | 3.422 |
| 1.98 | 110.09 | 0.1116 | 50.81 | 0.26 | 0.51% | 0.513 | 0.50 | 454.24 | 1.60 | 1.00 | 149 | 0.386 | 0.839 | 1.00 | 0.000 | 0.392 | 604.54 | 3.419 |
| 2.05 | 110.05 | 0.1155 | 52.47 | 0.26 | 0.50% | 0.497 | 0.50 | 453.43 | 1.58 | 1.00 | 151 | 0.401 | 0.774 | 1.00 | 0.000 | 0.392 | 604.54 | 3.418 |
| 2.13 | 110.01 | 0.1199 | 55.19 | 0.25 | 0.45% | 0.454 | 0.50 | 459.44 | 1.55 | 1.00 | 156 | 0.433 | 0.837 | 0.99 | 0.000 | 0.392 | 597.91 | 3.416 |
| 2.17 | 110.01 | 0.1221 | 56.55 | 0.25 | 0.44% | 0.443 | 0.50 | 462.28 | 1.54 | 1.00 | 158 | 0.449 | 0.868 | 0.99 | 0.000 | 0.392 | 597.91 | 3.416 |
| 2.23 | 110.09 | 0.1254 | 58.31 | 0.25 | 0.43% | 0.430 | 0.50 | 464.12 | 1.52 | 1.00 | 161 | 0.469 | 0.907 | 0.99 | 0.000 | 0.392 | 597.91 | 3.419 |
| 2.32 | 110.26 | 0.1303 | 61.23 | 0.25 | 0.41% | 0.409 | 0.50 | 468.82 | 1.50 | 1.00 | 166 | 0.505 | 0.864 | 0.99 | 0.000 | 0.392 | 597.91 | 3.424 |
| 2.37 | 110.36 | 0.1331 | 62.39 | 0.25 | 0.40% | 0.402 | 0.50 | 467.79 | 1.49 | 1.00 | 167 | 0.516 | 0.882 | 0.99 | 0.000 | 0.392 | 597.91 | 3.427 |
| 2.43 | 110.79 | 0.1364 | 67.07 | 0.26 | 0.39% | 0.388 | 0.50 | 490.68 | 1.46 | 1.00 | 178 | 0.602 | 0.899 | 0.99 | 0.000 | 0.392 | 604.54 | 3.441 |
| 2.50 | 111.47 | 0.1403 | 71.74 | 0.28 | 0.39% | 0.391 | 0.50 | 510.29 | 1.45 | 1.00 | 187 | 0.692 | 1.034 | 0.99 | 0.000 | 0.392 | 617.08 | 3.462 |
| 2.58 | 112.34 | 0.1448 | 77.58 | 0.31 | 0.40% | 0.400 | 0.50 | 534.75 | 1.43 | 1.00 | 200 | 0.819 | 1.036 | 0.99 | 0.000 | 0.391 | 634.30 | 3.489 |
| 2.64 | 113.01 | 0.1482 | 80.89 | 0.33 | 0.41% | 0.409 | 0.50 | 544.83 | 1.42 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 644.87 | 3.510 |
| 2.72 | 113.82 | 0.1527 | 85.37 | 0.37 | 0.43% | 0.434 | 0.50 | 557.89 | 1.43 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 664.22 | 3.535 |
| 2.76 | 114.09 | 0.1550 | 87.41 | 0.38 | 0.43% | 0.436 | 0.50 | 562.83 | 1.42 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 668.74 | 3.543 |
| 2.83 | 114.47 | 0.1590 | 90.33 | 0.39 | 0.43% | 0.433 | 0.50 | 566.98 | 1.41 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 673.13 | 3.555 |
| 2.90 | 114.91 | 0.1631 | 93.54 | 0.41 | 0.44% | 0.439 | 0.50 | 572.66 | 1.41 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 681.59 | 3.569 |
| 2.97 | 115.41 | 0.1671 | 97.05 | 0.43 | 0.44% | 0.444 | 0.50 | 579.80 | 1.40 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 689.65 | 3.584 |
| 3.04 | 116.36 | 0.1712 | 99.48 | 0.49 | 0.49% | 0.493 | 0.50 | 580.17 | 1.43 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 711.74 | 3.614 |
| 3.11 | 114.50 | 0.1752 | 100.55 | 0.38 | 0.38% | 0.379 | 0.50 | 572.99 | 1.36 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 668.74 | 3.556 |
| 3.15 | 113.49 | 0.1774 | 101.23 | 0.33 | 0.33% | 0.327 | 0.50 | 569.48 | 1.32 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 644.87 | 3.525 |
| 3.22 | 113.92 | 0.1814 | 101.72 | 0.35 | 0.34% | 0.345 | 0.50 | 559.64 | 1.34 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 654.82 | 3.538 |
| 3.31 | 114.46 | 0.1866 | 102.40 | 0.38 | 0.37% | 0.372 | 0.50 | 547.81 | 1.36 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 668.74 | 3.555 |
| 3.35 | 114.57 | 0.1889 | 102.69 | 0.38 | 0.37% | 0.371 | 0.50 | 542.69 | 1.36 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 668.74 | 3.558 |
| 3.42 | 114.35 | 0.1929 | 91.01 | 0.38 | 0.42% | 0.418 | 0.50 | 470.85 | 1.44 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 668.74 | 3.551 |
| 3.48 | 114.62 | 0.1963 | 97.44 | 0.39 | 0.40% | 0.401 | 0.50 | 495.34 | 1.40 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 673.13 | 3.560 |
| 3.55 | 114.85 | 0.2003 | 97.63 | 0.40 | 0.41% | 0.411 | 0.50 | 486.33 | 1.41 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 677.41 | 3.567 |
| 3.64 | 115.05 | 0.2055 | 96.17 | 0.42 | 0.44% | 0.438 | 0.50 | 466.95 | 1.44 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.391 | 685.67 | 3.573 |
| 3.68 | 115.18 | 0.2078 | 95.49 | 0.42 | 0.44% | 0.441 | 0.50 | 458.49 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.390 | 685.67 | 3.577 |
| 3.74 | 115.28 | 0.2113 | 93.54 | 0.43 | 0.46% | 0.461 | 0.50 | 441.74 | 1.47 | 1.00 | 199 | 0.814 | 0.814 | 0.99 | 0.000 | 0.390 | 689.65 | 3.580 |
| 3.82 | 115.46 | 0.2159 | 92.57 | 0.45 | 0.49% | 0.487 | 0.50 | 427.77 | 1.49 | 1.00 | 195 | 0.769 | 0.769 | 0.99 | 0.000 | 0.390 | 697.34 | 3.586 |
| 3.88 | 115.52 | 0.2194 | 91.21 | 0.45 | 0.49% | 0.495 | 0.50 | 414.80 | 1.50 | 1.00 | 191 | 0.723 | 0.723 | 0.99 | 0.000 | 0.390 | 697.34 | 3.588 |
| 3.94 | 115.58 | 0.2228 | 89.65 | 0.46 | 0.51% | 0.514 | 0.50 | 401.33 | 1.52 | 1.00 | 186 | 0.676 | 0.676 | 0.99 | 0.000 | 0.390 | 701.06 | 3.589 |
| 4.02 | 115.64 | 0.2275 | 87.31 | 0.46 | 0.53% | 0.528 | 0.50 | 382.86 | 1.54 | 1.00 | 179 | 0.614 | 0.614 | 0.99 | 0.000 | 0.390 | 701.06 | 3.591 |
| 4.08 | 115.65 | 0.2309 | 85.85 | 0.47 | 0.55% | 0.549 | 0.50 | 370.77 | 1.56 | 1.00 | 175 | 0.576 | 0.576 | 0.99 | 0.000 | 0.390 | 704.69 | 3.592 |
| 4.14 | 115.61 | 0.2344 | 84.20 | 0.47 | 0.56% | 0.560 | 0.50 | 358.23 | 1.57 | 1.00 | 170 | 0.537 | 0.537 | 0.99 | 0.000 | 0.390 | 704.69 | 3.590 |
| 4.21 | 115.57 | 0.2384 | 82.84 | 0.47 | 0.57% | 0.569 | 0.50 | 346.43 | 1.59 | 1.00 | 166 | 0.504 | 0.504 | 0.99 | 0.000 | 0.390 | 704.69 | 3.589 |
| 4.26 | 115.54 | 0.2413 | 81.77 | 0.47 | 0.57% | 0.576 | 0.50 | 337.84 | 1.60 | 1.00 | 163 | 0.481 | 0.481 | 0.99 | 0.000 | 0.390 | 704.69 | 3.588 |
| 4.34 | 115.45 | 0.2459 | 80.11 | 0.47 | 0.59% | 0.589 | 0.50 | 324.73 | 1.61 | 1.00 | 158 | 0.446 | 0.446 | 0.99 | 0.000 | 0.390 | 704.69 | 3.585 |
| 4.43 | 115.27 | 0.2511 | 79.04 | 0.46 | 0.58% | 0.584 | 0.50 | 313.74 | 1.62 | 1.00 | 154 | 0.421 | 0.421 | 0.99 | 0.000 | 0.390 | 701.06 | 3.580 |
| 4.48 | 115.18 | 0.2540 | 78.55 | 0.45 | 0.57% | 0.575 | 0.50 | 308.24 | 1.62 | 1.00 | 152 | 0.409 | 0.409 | 0.99 | 0.000 | 0.390 | 697.34 | 3.577 |
| 4.53 | 115.12 | 0.2569 | 78.55 | 0.45 | 0.57% | 0.575 | 0.50 | 304.78 | 1.62 | 1.00 | 151 | 0.403 | 0.403 | 0.99 | 0.000 | 0.390 | 697.34 | 3.575 |
| 4.62 | 115.03 | 0.2621 | 78.55 | 0.44 | 0.56% | 0.562 | 0.50 | 298.74 | 1.62 | 1.00 | 150 | 0.394 | 0.394 | 0.99 | 0.000 | 0.390 | 693.54 | 3.572 |
| 4.67 | 114.96 | 0.2649 | 78.75 | 0.44 | 0.56% | 0.561 | 0.50 | 296.24 | 1.62 | 1.00 | 150 | 0.391 | 0.391 | 0.99 | 0.000 | 0.390 | 693.54 | 3.570 |
| 4.74 | 114.92 | 0.2690 | 79.53 | 0.43 | 0.54% | 0.543 | 0.50 | 294.69 | 1.61 | 1.00 | 150 | 0.393 | 0.393 | 0.99 | 0.000 | 0.389 | 689.65 | 3.569 |
| 4.80 | 114.95 | 0.2724 | 80.40 | 0.43 | 0.53% | 0.537 | 0.50 | 294.14 | 1.60 | 1.00 | 151 | 0.397 | 0.397 | 0.99 | 0.000 | 0.389 | 689.65 | 3.570 |
| 4.89 | 115.05 | 0.2776 | 81.77 | 0.44 | 0.54% | 0.540 | 0.50 | 293.58 | 1.60 | 1.00 | 152 | 0.404 | 0.404 | 0.99 | 0.000 | 0.389 | 693.54 | 3.573 |
| 4.93 | 115.15 | 0.2799 | 82.54 | 0.44 | 0.53% | 0.535 | 0.50 | 293.90 | 1.60 | 1.00 | 152 | 0.410 | 0.410 | 0.99 | 0.000 | 0.389 | 693.54 | 3.576 |
| 5.02 | 135.34 | 0.2860 | 84.30 | 0.45 | 0.53% | 0.536 | 0.50 | 293.78 | 1.60 | 1.00 | 154 | 0.420 | 0.420 | 0.99 | 0.000 | 0.389 | 697.34 | 4.203 |
| 5.07 | 135.45 | 0.2894 | 85.85 | 0.45 | 0.52% | 0.526 | 0.50 | 295.68 | 1.59 | 1.00 | 156 | 0.433 | 0.433 | 0.99 | 0.000 | 0.389 | 697.34 | 4.207 |
| 5.13 | 135.59 | 0.2934 | 87.51 | 0.46 | 0.53% | 0.527 | 0.50 | 297.23 | 1.58 | 1.00 | 158 | 0.446 | 0.446 | 0.99 | 0.000 | 0.389 | 701.06 | 4.211 |
| 5.20 | 135.69 | 0.2982 | 88.68 | 0.46 | 0.52% | 0.520 | 0.50 | 296.40 | 1.58 | 1.00 | 159 | 0.452 | 0.452 | 0.99 | 0.000 | 0.389 | 701.06 | 4.214 |
| 5.27 | 135.77 | 0.3029 | 90.14 | 0.47 | 0.52% | 0.523 | 0.50 | 296.56 | 1.58 | 1.00 | 160 | 0.461 | 0.461 | 0.99 | 0.000 | 0.389 | 704.69 | 4.216 |
| 5.34 | 136.38 | 0.3077 | 92.67 | 0.50 | 0.54% | 0.541 | 0.50 | 300.16 | 1.58 | 1.00 | 163 | 0.485 | 0.485 | 0.99 | 0.000 | 0.389 | 715.16 | 4.235 |
| 5.38 | 135.60 | 0.3104 | 94.61 | 0.45 | 0.48% | 0.477 | 0.50 | 303.78 | 1.54 | 1.00 | 166 | 0.505 | 0.505 | 0.99 | 0.000 | 0.389 | 697.34 | 4.211 |
| 5.45 | 131.47 | 0.3150 | 99.09 | 0.25 | 0.25% | 0.253 | 0.50 | 313.55 | 1.38 | 1.00 | 173 | 0.558 | 0.558 | 0.99 | 0.000 | 0.389 | 597.91 | 4.083 |
| 5.51 | 132.65 | 0.3190 | 102.01 | 0.29 | 0.28% | 0.285 | 0.50 | 318.78 | 1.40 | 1.00 | 177 | 0.592 | 0.592 | 0.99 | 0.000 | 0.389 | 623.01 | 4.120 |
| 5.61 | 133.71 | 0.3257 | 104.15 | 0.33 | 0.32% | 0.318 | 0.50 | 318.79 | 1.42 | 1.00 | 178 | 0.608 | 0.608 | 0.99 | 0.000 | 0.389 | 644.87 | 4.153 |
| 5.64 | 133.97 | 0.3277 | 104.64 | 0.35 | 0.33% | 0.336 | 0.50 | 318.32 | 1.43 | 1.00 | 179 | 0.611 | 0.611 | 0.99 | 0.000 | 0.389 | 654.82 | 4.161 |
| 5.72 | 134.06 | 0.3331 | 95.88 | 0.36 | 0.38% | 0.377 | 0.50 | 286.88 | 1.49 | 1.00 | 162 | 0.478 | 0.478 | 0.99 | 0.000 | 0.389 | 659.59 | 4.163 |
| 5.79 | 134.34 | 0.3378 | 95.78 | 0.37 | 0.39% | 0.388 | 0.50 | 282.57 | 1.50 | 1.00 | 161 | 0.468 | 0.468 | 0.99 | 0.000 | 0.388 | 664.22 | 4.172 |
| 5.85 | 134.63 | 0.3418 | 98.51 | 0.39 | 0.40% | 0.397 | 0.50 | 287.21 | 1.50 | 1.00 | 165 | 0.495 | 0.495 | 0.99 | 0.000 | 0.388 | 673.13 | 4.181 |
| 5.91 | 134.91 | 0.3458 | 99.19 | 0.40 | 0.40% | 0.405 | 0.50 | 285.80 | 1.50 | 1.00 | 165 | 0.496 | 0.496 | 0.99 | 0.000 | 0.388 | 677.41 | 4.190 |
| 5.98 | 135.33 | 0.3506 | 101.92 | 0.42 | 0.41% | 0.414 | 0.50 | 289.72 | 1.50 | 1.00 | 168 | 0.523 | 0.523 | 0.99 | 0.000 | 0.388 | 685.67 | 4.203 |
| 6.04 | 135.62 | 0.3547 | 103.38 | 0.44 | 0.43% | 0.427 | 0.50 | 290.50 | 1.50 | 1.00 | 170 | 0.534 | 0.534 | 0.99 | 0.000 | 0.388 | 693.54 | 4.212 |
| 6.12 | 136.11 | 0.3601 | 104.54 | 0.46 | 0.44% | 0.442 | 0.50 | 289.31 | 1.51 | 1.00 | 170 | 0.539 | 0.539 | 0.99 | 0.000 | 0.388 | 701.06 | 4.227 |
| 6.18 | 136.50 | 0.3642 | 105.52 | 0.49 | 0.46% | 0.466 | 0.50 | 288.74 | 1.52 | 1.00 | 171 | 0.544 | 0.544 | 0.99 | 0.000 | 0.388 | 711.74 | 4.239 |
| 6.24 | 136.67 | 0.3683 | 107.66 | 0.50 | 0.46% | 0.466 | 0.50 | 291.32 | 1.52 | 1.00 | 173 | 0.565 | 0.565 | 0.99 | 0.000 | 0.388 | 715.16 | 4.244 |
| 6.30 | 137.06 | 0.3724 | 109.90 | 0.52 | 0.47% | 0.475 | 0.50 | 294.11 | 1.52 | 1.00 | 176 | 0.587 | 0.587 | 0.99 | 0.000 | 0.388 | 721.79 | 4.257 |
| 6.37 | 137.43 | 0.3772 | 112.72 | 0.54 | 0.48% | 0.481 | 0.50 | 297.82 | 1.51 | 1.00 | 179 | 0.617 | 0.617 | 0.98 | 0.000 | 0.388 | 728.18 | 4.268 |
| 6.45 | 138.00 | 0.3827 | 117.59 | 0.58 | 0.49% | 0.495 | 0.50 | 306.24 | 1.51 | 1.00 | 186 | 0.676 | 0.676 | 0.98 | 0.000 | 0.388 | 740.27 | 4.286 |
| 6.50 | 138.22 | 0.3862 | 120.22 | 0.59 | 0.49% | 0.492 | 0.50 | 310.30 | 1.50 | 1.00 | 189 | 0.709 | 0.709 | 0.98 | 0.000 | 0.388 | 743.16 | 4.293 |
| 6.58 | 138.57 | 0.3917 | 121.48 | 0.62 | 0.51% | 0.512 | 0.50 | 309.11 | 1.51 | 1.00 | 190 | 0.715 | 0.715 | 0.98 | 0.000 | 0.388 | 751.55 | 4.303 |
| 6.63 | 138.79 | 0.3952 | 122.06 | 0.63 | 0.52% | 0.518 | 0.50 | 307.86 | 1.51 | 1.00 | 190 | 0.716 | 0.716 | 0.98 | 0.000 | 0.388 | 754.26 | 4.310 |
| 6.72 | 139.08 | 0.4015 | 124.98 | 0.66 | 0.53% | 0.530 | 0.50 | 310.31 | 1.52 | 1.00 | 193 | 0.746 | 0.746 | 0.98 | 0.000 | 0.388 | 762.12 | 4.319 |
| 6.77 | 139.20 | 0.4049 | 127.03 | 0.66 | 0.52% | 0.521 | 0.50 | 312.70 | 1.51 | 1.00 | 195 | 0.771 | 0.771 | 0.98 | 0.000 | 0.388 | 762.12 | 4.323 |
| 6.83 | 139.34 | 0.4091 | 131.12 | 0.67 | 0.51% | 0.513 | 0.50 | 319.49 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.388 | 764.67 | 4.327 |
| 6.90 | 139.60 | 0.4140 | 133.75 | 0.69 | 0.52% | 0.517 | 0.50 | 322.06 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 769.64 | 4.335 |
| 6.96 | 139.78 | 0.4182 | 135.50 | 0.70 | 0.52% | 0.518 | 0.50 | 323.01 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 772.08 | 4.341 |
| 7.04 | 139.84 | 0.4238 | 135.89 | 0.71 | 0.52% | 0.524 | 0.50 | 319.65 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 774.48 | 4.343 |
| 7.09 | 139.89 | 0.4273 | 136.57 | 0.71 | 0.52% | 0.522 | 0.50 | 318.62 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 774.48 | 4.344 |
| 7.17 | 139.94 | 0.4329 | 138.42 | 0.71 | 0.51% | 0.515 | 0.50 | 318.76 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 774.48 | 4.346 |
| 7.26 | 140.01 | 0.4392 | 141.44 | 0.71 | 0.50% | 0.504 | 0.50 | 321.05 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 774.48 | 4.348 |
| 7.29 | 140.04 | 0.4413 | 143.09 | 0.71 | 0.50% | 0.498 | 0.50 | 323.25 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 774.48 | 4.349 |
| 7.35 | 140.09 | 0.4455 | 145.13 | 0.72 | 0.50% | 0.498 | 0.50 | 324.77 | 1.46 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 776.84 | 4.351 |
| 7.42 | 139.91 | 0.4504 | 147.37 | 0.69 | 0.47% | 0.470 | 0.50 | 326.21 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 769.64 | 4.345 |
| 7.48 | 139.74 | 0.4546 | 148.93 | 0.68 | 0.46% | 0.458 | 0.50 | 326.62 | 1.44 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 767.17 | 4.340 |
| 7.55 | 139.64 | 0.4595 | 149.71 | 0.67 | 0.45% | 0.449 | 0.50 | 324.83 | 1.43 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 764.67 | 4.337 |
| 7.62 | 139.51 | 0.4644 | 150.59 | 0.65 | 0.43% | 0.433 | 0.50 | 323.30 | 1.42 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 759.54 | 4.333 |
| 7.70 | 139.38 | 0.4699 | 150.97 | 0.64 | 0.42% | 0.425 | 0.50 | 320.26 | 1.42 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 756.92 | 4.329 |
| 7.76 | 139.57 | 0.4741 | 151.36 | 0.66 | 0.44% | 0.437 | 0.50 | 318.25 | 1.43 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 762.12 | 4.334 |
| 7.84 | 140.13 | 0.4797 | 150.88 | 0.71 | 0.47% | 0.472 | 0.50 | 313.52 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 774.48 | 4.352 |
| 7.89 | 138.84 | 0.4832 | 150.39 | 0.60 | 0.40% | 0.400 | 0.50 | 310.24 | 1.41 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 746.00 | 4.312 |
| 7.94 | 136.97 | 0.4866 | 151.56 | 0.46 | 0.30% | 0.304 | 0.50 | 310.46 | 1.34 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.386 | 701.06 | 4.254 |
| 8.02 | 137.91 | 0.4921 | 152.53 | 0.52 | 0.34% | 0.342 | 0.50 | 308.94 | 1.37 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.386 | 721.79 | 4.283 |
| 8.09 | 138.67 | 0.4970 | 153.51 | 0.58 | 0.38% | 0.379 | 0.50 | 307.88 | 1.39 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.386 | 740.27 | 4.307 |
| 8.15 | 139.10 | 0.5012 | 150.88 | 0.62 | 0.41% | 0.412 | 0.50 | 300.06 | 1.42 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.386 | 751.55 | 4.320 |
| 8.22 | 139.30 | 0.5060 | 150.00 | 0.64 | 0.43% | 0.428 | 0.50 | 295.42 | 1.44 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.386 | 756.92 | 4.326 |
| 8.28 | 139.25 | 0.5102 | 142.12 | 0.64 | 0.45% | 0.452 | 0.50 | 277.55 | 1.47 | 1.00 | 194 | 0.763 | 0.763 | 0.98 | 0.000 | 0.386 | 756.92 | 4.325 |
| 8.34 | 139.39 | 0.5144 | 143.67 | 0.65 | 0.45% | 0.454 | 0.50 | 278.30 | 1.47 | 1.00 | 196 | 0.777 | 0.777 | 0.98 | 0.000 | 0.386 | 759.54 | 4.329 |
| 8.41 | 139.66 | 0.5193 | 145.72 | 0.67 | 0.46% | 0.461 | 0.50 | 279.62 | 1.47 | 1.00 | 198 | 0.797 | 0.797 | 0.98 | 0.000 | 0.386 | 764.67 | 4.337 |
| 8.49 | 140.04 | 0.5249 | 143.87 | 0.71 | 0.49% | 0.495 | 0.50 | 273.10 | 1.49 | 1.00 | 194 | 0.759 | 0.759 | 0.98 | 0.000 | 0.386 | 774.48 | 4.349 |
| 8.53 | 140.34 | 0.5277 | 143.97 | 0.74 | 0.51% | 0.516 | 0.50 | 271.83 | 1.51 | 1.00 | 194 | 0.755 | 0.755 | 0.98 | 0.000 | 0.386 | 781.48 | 4.358 |
| 8.60 | 140.28 | 0.5326 | 143.09 | 0.74 | 0.52% | 0.519 | 0.50 | 267.66 | 1.51 | 1.00 | 192 | 0.734 | 0.734 | 0.98 | 0.000 | 0.386 | 781.48 | 4.357 |
| 8.67 | 140.18 | 0.5375 | 142.02 | 0.73 | 0.51% | 0.516 | 0.50 | 263.22 | 1.51 | 1.00 | 189 | 0.710 | 0.710 | 0.98 | 0.000 | 0.386 | 779.18 | 4.353 |
| 8.76 | 140.49 | 0.5438 | 140.36 | 0.76 | 0.54% | 0.544 | 0.50 | 257.10 | 1.53 | 1.00 | 186 | 0.678 | 0.678 | 0.98 | 0.000 | 0.386 | 785.99 | 4.363 |
| 8.80 | 140.71 | 0.5466 | 141.24 | 0.79 | 0.56% | 0.562 | 0.50 | 257.38 | 1.54 | 1.00 | 187 | 0.684 | 0.684 | 0.98 | 0.000 | 0.386 | 792.54 | 4.370 |
| 8.87 | 141.06 | 0.5516 | 143.77 | 0.82 | 0.57% | 0.573 | 0.50 | 259.65 | 1.54 | 1.00 | 189 | 0.709 | 0.709 | 0.98 | 0.000 | 0.386 | 798.84 | 4.381 |
| 8.93 | 141.38 | 0.5558 | 148.44 | 0.85 | 0.57% | 0.575 | 0.50 | 266.07 | 1.53 | 1.00 | 195 | 0.764 | 0.764 | 0.98 | 0.000 | 0.386 | 804.92 | 4.391 |
| 9.01 | 142.00 | 0.5615 | 158.28 | 0.90 | 0.57% | 0.571 | 0.50 | 280.89 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 814.59 | 4.410 |
| 9.06 | 142.37 | 0.5651 | 164.99 | 0.94 | 0.57% | 0.572 | 0.50 | 290.99 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 821.95 | 4.421 |
| 9.14 | 143.01 | 0.5708 | 175.50 | 1.00 | 0.57% | 0.572 | 0.50 | 306.47 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 832.41 | 4.441 |
| 9.20 | 143.38 | 0.5751 | 180.18 | 1.04 | 0.58% | 0.579 | 0.50 | 312.31 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 839.05 | 4.453 |
| 9.27 | 143.63 | 0.5801 | 186.50 | 1.07 | 0.57% | 0.576 | 0.50 | 320.49 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 843.86 | 4.461 |
| 9.33 | 143.78 | 0.5844 | 188.74 | 1.08 | 0.57% | 0.574 | 0.50 | 321.95 | 1.46 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 845.43 | 4.465 |
| 9.39 | 143.97 | 0.5887 | 189.91 | 1.11 | 0.58% | 0.586 | 0.50 | 321.57 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 850.07 | 4.471 |
| 9.46 | 144.02 | 0.5938 | 189.62 | 1.12 | 0.59% | 0.593 | 0.50 | 318.34 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 851.58 | 4.473 |
| 9.53 | 143.98 | 0.5988 | 187.87 | 1.12 | 0.60% | 0.598 | 0.50 | 312.73 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 851.58 | 4.471 |
| 9.61 | 143.84 | 0.6046 | 186.70 | 1.10 | 0.59% | 0.591 | 0.50 | 307.81 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 848.54 | 4.467 |
| 9.69 | 143.60 | 0.6103 | 182.42 | 1.07 | 0.59% | 0.589 | 0.50 | 297.89 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 843.86 | 4.460 |
| 9.73 | 140.56 | 0.6131 | 180.96 | 0.71 | 0.39% | 0.394 | 0.50 | 294.14 | 1.38 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 774.48 | 4.365 |
| 9.78 | 137.24 | 0.6166 | 179.50 | 0.45 | 0.25% | 0.252 | 0.50 | 290.13 | 1.28 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 697.34 | 4.262 |
| 9.86 | 138.00 | 0.6221 | 177.06 | 0.50 | 0.28% | 0.283 | 0.50 | 283.63 | 1.31 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 715.16 | 4.286 |
| 9.91 | 138.75 | 0.6255 | 175.99 | 0.56 | 0.32% | 0.319 | 0.50 | 280.34 | 1.34 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 734.33 | 4.309 |
| 10.01 | 139.65 | 0.6325 | 175.50 | 0.63 | 0.36% | 0.360 | 0.50 | 276.59 | 1.38 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.385 | 754.26 | 4.337 |
| 10.05 | 139.89 | 0.6353 | 175.12 | 0.65 | 0.37% | 0.373 | 0.50 | 275.31 | 1.39 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.002 | 0.385 | 759.54 | 4.344 |
| 10.11 | 139.96 | 0.6395 | 161.97 | 0.68 | 0.42% | 0.421 | 0.50 | 253.63 | 1.45 | 1.00 | 198 | 0.806 | 0.806 | 0.98 | 0.003 | 0.387 | 767.17 | 4.347 |
| 10.18 | 140.39 | 0.6444 | 167.62 | 0.71 | 0.42% | 0.425 | 0.50 | 261.38 | 1.44 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.006 | 0.388 | 774.48 | 4.360 |
| 10.24 | 140.74 | 0.6487 | 169.37 | 0.74 | 0.44% | 0.439 | 0.50 | 263.14 | 1.44 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.007 | 0.389 | 781.48 | 4.371 |
| 10.30 | 141.04 | 0.6529 | 168.59 | 0.77 | 0.46% | 0.459 | 0.50 | 260.96 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.009 | 0.390 | 788.20 | 4.380 |
| 10.39 | 141.02 | 0.6592 | 162.36 | 0.78 | 0.48% | 0.482 | 0.50 | 249.90 | 1.48 | 1.00 | 197 | 0.792 | 0.792 | 0.98 | 0.012 | 0.391 | 790.38 | 4.380 |
| 10.45 | 141.03 | 0.6635 | 158.28 | 0.79 | 0.50% | 0.501 | 0.50 | 242.70 | 1.50 | 1.00 | 192 | 0.736 | 0.736 | 0.98 | 0.014 | 0.392 | 792.54 | 4.380 |
| 10.51 | 141.05 | 0.6677 | 154.97 | 0.80 | 0.52% | 0.518 | 0.50 | 236.74 | 1.52 | 1.00 | 187 | 0.692 | 0.692 | 0.98 | 0.016 | 0.393 | 794.67 | 4.380 |
| 10.58 | 141.03 | 0.6726 | 153.21 | 0.80 | 0.52% | 0.524 | 0.50 | 233.04 | 1.53 | 1.00 | 185 | 0.668 | 0.668 | 0.97 | 0.018 | 0.395 | 794.67 | 4.380 |
| 10.64 | 141.01 | 0.6769 | 152.34 | 0.80 | 0.53% | 0.527 | 0.50 | 230.88 | 1.53 | 1.00 | 183 | 0.655 | 0.655 | 0.97 | 0.020 | 0.396 | 794.67 | 4.379 |
| 10.72 | 141.02 | 0.6825 | 152.53 | 0.80 | 0.52% | 0.527 | 0.50 | 230.06 | 1.53 | 1.00 | 183 | 0.653 | 0.653 | 0.97 | 0.022 | 0.397 | 794.67 | 4.380 |
| 10.76 | 141.02 | 0.6853 | 153.70 | 0.80 | 0.52% | 0.523 | 0.50 | 231.27 | 1.53 | 1.00 | 184 | 0.664 | 0.664 | 0.97 | 0.024 | 0.398 | 794.67 | 4.380 |
| 10.84 | 141.14 | 0.6910 | 156.72 | 0.81 | 0.52% | 0.519 | 0.50 | 234.71 | 1.52 | 1.00 | 188 | 0.695 | 0.695 | 0.97 | 0.026 | 0.399 | 796.77 | 4.383 |
| 10.90 | 141.21 | 0.6952 | 155.65 | 0.82 | 0.53% | 0.529 | 0.50 | 232.27 | 1.53 | 1.00 | 186 | 0.679 | 0.679 | 0.97 | 0.028 | 0.400 | 798.84 | 4.385 |
| 10.98 | 141.01 | 0.7009 | 149.81 | 0.80 | 0.53% | 0.537 | 0.50 | 222.46 | 1.54 | 1.00 | 179 | 0.610 | 0.610 | 0.97 | 0.031 | 0.401 | 794.67 | 4.379 |
| 11.03 | 140.76 | 0.7044 | 145.13 | 0.78 | 0.54% | 0.540 | 0.50 | 214.84 | 1.56 | 1.00 | 173 | 0.559 | 0.559 | 0.97 | 0.032 | 0.402 | 790.38 | 4.371 |
| 11.12 | 140.39 | 0.7107 | 140.36 | 0.75 | 0.53% | 0.537 | 0.50 | 206.66 | 1.57 | 1.00 | 167 | 0.510 | 0.510 | 0.97 | 0.035 | 0.403 | 783.75 | 4.360 |
| 11.16 | 140.28 | 0.7135 | 138.03 | 0.75 | 0.54% | 0.546 | 0.50 | 202.74 | 1.58 | 1.00 | 164 | 0.487 | 0.487 | 0.97 | 0.036 | 0.404 | 783.75 | 4.357 |
| 11.25 | 139.97 | 0.7198 | 128.10 | 0.73 | 0.57% | 0.573 | 0.50 | 187.11 | 1.62 | 1.00 | 151 | 0.403 | 0.403 | 0.97 | 0.039 | 0.405 | 779.18 | 4.347 |
| 11.30 | 137.88 | 0.7232 | 120.02 | 0.56 | 0.47% | 0.469 | 0.50 | 174.75 | 1.59 | 1.00 | 142 | 0.344 | 0.357 | 0.97 | 0.041 | 0.406 | 734.33 | 4.282 |
| 11.37 | 134.27 | 0.7279 | 105.42 | 0.36 | 0.34% | 0.344 | 0.50 | 152.79 | 1.57 | 1.00 | 124 | 0.257 | 0.385 | 0.97 | 0.043 | 0.407 | 659.59 | 4.170 |
| 11.43 | 134.82 | 0.7320 | 96.46 | 0.40 | 0.41% | 0.418 | 0.50 | 139.27 | 1.65 | 1.00 | 113 | 0.216 | 0.352 | 0.97 | 0.045 | 0.408 | 677.41 | 4.187 |
| 11.48 | 135.45 | 0.7354 | 88.58 | 0.45 | 0.51% | 0.512 | 0.52 | 127.46 | 1.72 | 1.05 | 110 | 0.205 | 0.363 | 0.97 | 0.046 | 0.409 | 697.34 | 4.207 |
| 11.57 | 137.12 | 0.7415 | 80.21 | 0.58 | 0.72% | 0.730 | 0.56 | 114.75 | 1.84 | 1.14 | 109 | 0.201 | 0.357 | 0.97 | 0.049 | 0.410 | 740.27 | 4.258 |
| 11.62 | 137.46 | 0.7450 | 73.39 | 0.63 | 0.86% | 0.867 | 0.58 | 104.61 | 1.91 | 1.20 | 106 | 0.192 | 0.367 | 0.97 | 0.051 | 0.411 | 754.26 | 4.269 |

| DEPTH (ft) | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | | | | | | | | | | | |
| 0.08 | 2.167E+05 | 2.167E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 3.85 | 5.29 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.13 | 1.835E+05 | 1.835E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 21.87 | 30.10 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.21 | 1.648E+05 | 1.648E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 35.55 | 48.92 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.27 | 1.510E+05 | 1.510E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 17.49 | 24.07 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.33 | 1.372E+05 | 1.372E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 4.59 | 6.32 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.39 | 1.219E+05 | 1.219E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 3.16 | 4.35 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.47 | 1.167E+05 | 1.167E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.68 | 3.69 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.53 | 1.216E+05 | 1.216E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.68 | 3.69 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.60 | 1.199E+05 | 1.199E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | 2.91 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.67 | 1.199E+05 | 1.199E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | 2.91 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.73 | 1.215E+05 | 1.215E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | 2.91 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.80 | 1.258E+05 | 1.258E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | 2.91 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.88 | 1.299E+05 | 1.299E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | 2.92 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.93 | 1.312E+05 | 1.312E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | 2.92 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 0.99 | 1.311E+05 | 1.311E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | 2.92 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.06 | 1.240E+05 | 1.240E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | 2.92 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.13 | 9.893E+04 | 9.893E+04 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | 2.92 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.20 | 1.055E+05 | 1.055E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | 2.92 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.26 | 1.116E+05 | 1.116E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.68 | 3.69 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.33 | 1.134E+05 | 1.134E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.68 | 3.69 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.40 | 1.155E+05 | 1.155E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 3.17 | 4.36 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.46 | 1.141E+05 | 1.141E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 4.10 | 5.64 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.51 | 1.142E+05 | 1.142E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 3.63 | 4.99 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.61 | 1.125E+05 | 1.125E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 3.22 | 4.43 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.65 | 1.127E+05 | 1.127E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.82 | 3.88 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.71 | 1.108E+05 | 1.108E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.67 | 3.68 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.79 | 1.088E+05 | 1.088E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.37 | 3.26 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.85 | 1.089E+05 | 1.089E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.21 | 3.05 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.92 | 1.091E+05 | 1.091E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 1.98 | 1.069E+05 | 1.069E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.16 | 2.98 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.05 | 1.069E+05 | 1.069E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.00 | 2.75 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.13 | 1.046E+05 | 1.046E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.16 | 2.97 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.17 | 1.046E+05 | 1.046E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.24 | 3.08 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.23 | 1.046E+05 | 1.046E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.32 | 1.044E+05 | 1.044E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.23 | 3.07 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.37 | 1.043E+05 | 1.043E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.28 | 3.13 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.43 | 1.062E+05 | 1.062E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.32 | 3.19 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.50 | 1.100E+05 | 1.100E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.67 | 3.67 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.58 | 1.153E+05 | 1.153E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.68 | 3.68 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.64 | 1.185E+05 | 1.185E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.72 | 1.248E+05 | 1.248E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.76 | 1.262E+05 | 1.262E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.83 | 1.275E+05 | 1.275E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.90 | 1.302E+05 | 1.302E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 2.97 | 1.327E+05 | 1.327E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.04 | 1.402E+05 | 1.402E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.11 | 1.258E+05 | 1.258E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.15 | 1.180E+05 | 1.180E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.22 | 1.212E+05 | 1.212E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.31 | 1.258E+05 | 1.258E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.35 | 1.257E+05 | 1.257E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.42 | 1.259E+05 | 1.259E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.48 | 1.273E+05 | 1.273E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.55 | 1.287E+05 | 1.287E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.64 | 1.316E+05 | 1.316E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.68 | 1.314E+05 | 1.314E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.74 | 1.328E+05 | 1.328E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.11 | 2.90 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.82 | 1.356E+05 | 1.356E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.99 | 2.74 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.88 | 1.355E+05 | 1.355E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.87 | 2.58 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 3.94 | 1.369E+05 | 1.369E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.75 | 2.41 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.02 | 1.369E+05 | 1.369E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.59 | 2.19 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.08 | 1.383E+05 | 1.383E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.49 | 2.05 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.14 | 1.383E+05 | 1.383E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.39 | 1.92 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.21 | 1.384E+05 | 1.384E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.31 | 1.80 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.26 | 1.384E+05 | 1.384E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.25 | 1.71 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.34 | 1.385E+05 | 1.385E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.16 | 1.59 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.43 | 1.373E+05 | 1.373E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.09 | 1.50 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.48 | 1.359E+05 | 1.359E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.06 | 1.46 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.53 | 1.360E+05 | 1.360E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.05 | 1.44 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.62 | 1.346E+05 | 1.346E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.02 | 1.41 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.67 | 1.347E+05 | 1.347E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.01 | 1.40 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.74 | 1.333E+05 | 1.333E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.02 | 1.40 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.80 | 1.332E+05 | 1.332E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.03 | 1.42 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.89 | 1.346E+05 | 1.346E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.05 | 1.44 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 4.93 | 1.345E+05 | 1.345E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.06 | 1.46 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.02 | 1.157E+05 | 2.030E+06 | 17.55 | 0.1542 | 0.903 | 0.351 | | 1.19 | 1.64 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.07 | 1.156E+05 | 2.030E+06 | 17.56 | 0.1542 | 0.903 | 0.351 | | 1.23 | 1.69 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.13 | 1.167E+05 | 2.030E+06 | 17.39 | 0.1542 | 0.903 | 0.352 | | 1.27 | 1.75 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.20 | 1.166E+05 | 2.030E+06 | 17.41 | 0.1542 | 0.903 | 0.351 | | 1.29 | 1.77 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.27 | 1.178E+05 | 2.030E+06 | 17.24 | 0.1542 | 0.904 | 0.352 | | 1.31 | 1.81 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.34 | 1.208E+05 | 2.030E+06 | 16.81 | 0.1542 | 0.905 | 0.352 | | 1.38 | 1.90 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.38 | 1.155E+05 | 2.030E+06 | 17.58 | 0.1542 | 0.903 | 0.351 | | 1.44 | 1.98 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.45 | 8.756E+04 | 2.030E+06 | 23.18 | 0.1542 | 0.889 | 0.345 | | 1.61 | 2.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.51 | 9.422E+04 | 2.030E+06 | 21.55 | 0.1542 | 0.893 | 0.347 | | 1.71 | 2.35 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.61 | 1.001E+05 | 2.030E+06 | 20.27 | 0.1542 | 0.896 | 0.348 | | 1.75 | 2.40 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.64 | 1.031E+05 | 2.030E+06 | 19.70 | 0.1542 | 0.898 | 0.349 | | 1.75 | 2.41 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.72 | 1.045E+05 | 2.030E+06 | 19.43 | 0.1542 | 0.898 | 0.349 | | 1.37 | 1.88 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.79 | 1.057E+05 | 2.030E+06 | 19.20 | 0.1542 | 0.899 | 0.349 | | 1.34 | 1.85 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.85 | 1.084E+05 | 2.030E+06 | 18.73 | 0.1542 | 0.900 | 0.350 | | 1.42 | 1.95 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.91 | 1.095E+05 | 2.030E+06 | 18.53 | 0.1542 | 0.901 | 0.350 | | 1.42 | 1.95 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 5.98 | 1.119E+05 | 2.030E+06 | 18.15 | 0.1542 | 0.902 | 0.350 | | 1.49 | 2.05 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.04 | 1.142E+05 | 2.030E+06 | 17.78 | 0.1542 | 0.902 | 0.350 | | 1.52 | 2.10 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.12 | 1.163E+05 | 2.030E+06 | 17.46 | 0.1542 | 0.903 | 0.351 | | 1.54 | 2.11 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.18 | 1.195E+05 | 2.030E+06 | 16.99 | 0.1542 | 0.904 | 0.351 | | 1.55 | 2.13 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.24 | 1.205E+05 | 2.030E+06 | 16.85 | 0.1542 | 0.905 | 0.351 | | 1.61 | 2.21 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.30 | 1.224E+05 | 2.030E+06 | 16.59 | 0.1542 | 0.906 | 0.351 | | 1.67 | 2.30 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.37 | 1.242E+05 | 2.030E+06 | 16.34 | 0.1542 | 0.906 | 0.352 | | 1.75 | 2.41 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.45 | 1.279E+05 | 2.030E+06 | 15.88 | 0.1542 | 0.907 | 0.352 | | 1.92 | 2.64 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.50 | 1.287E+05 | 2.030E+06 | 15.78 | 0.1542 | 0.908 | 0.352 | | 2.01 | 2.77 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.58 | 1.313E+05 | 2.030E+06 | 15.47 | 0.1542 | 0.908 | 0.352 | | 2.03 | 2.79 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.63 | 1.320E+05 | 2.030E+06 | 15.38 | 0.1542 | 0.909 | 0.352 | | 2.03 | 2.80 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.72 | 1.345E+05 | 2.030E+06 | 15.10 | 0.1542 | 0.909 | 0.352 | | 2.12 | 2.91 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.77 | 1.344E+05 | 2.030E+06 | 15.11 | 0.1542 | 0.909 | 0.352 | | 2.19 | 3.01 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.83 | 1.351E+05 | 2.030E+06 | 15.02 | 0.1542 | 0.910 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.90 | 1.366E+05 | 2.030E+06 | 14.86 | 0.1542 | 0.910 | 0.353 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 6.96 | 1.373E+05 | 2.030E+06 | 14.78 | 0.1542 | 0.910 | 0.353 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.04 | 1.381E+05 | 2.030E+06 | 14.70 | 0.1542 | 0.910 | 0.353 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.09 | 1.381E+05 | 2.030E+06 | 14.70 | 0.1542 | 0.910 | 0.353 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.17 | 1.380E+05 | 2.030E+06 | 14.71 | 0.1542 | 0.910 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.26 | 1.379E+05 | 2.030E+06 | 14.72 | 0.1542 | 0.910 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.29 | 1.379E+05 | 2.030E+06 | 14.72 | 0.1542 | 0.910 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.35 | 1.387E+05 | 2.030E+06 | 14.63 | 0.1542 | 0.911 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.42 | 1.363E+05 | 2.030E+06 | 14.89 | 0.1542 | 0.910 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.48 | 1.356E+05 | 2.030E+06 | 14.97 | 0.1542 | 0.910 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.55 | 1.348E+05 | 2.030E+06 | 15.06 | 0.1542 | 0.909 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.62 | 1.332E+05 | 2.030E+06 | 15.25 | 0.1542 | 0.909 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.70 | 1.324E+05 | 2.030E+06 | 15.34 | 0.1542 | 0.909 | 0.351 | | 2.34 | 3.23 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.76 | 1.340E+05 | 2.030E+06 | 15.15 | 0.1542 | 0.909 | 0.352 | | 2.34 | 3.23 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.84 | 1.378E+05 | 2.030E+06 | 14.73 | 0.1542 | 0.910 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.89 | 1.291E+05 | 2.030E+06 | 15.73 | 0.1542 | 0.908 | 0.351 | | 2.35 | 3.23 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 7.94 | 1.155E+05 | 2.030E+06 | 17.57 | 0.1542 | 0.903 | 0.349 | | 2.36 | 3.25 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.02 | 1.216E+05 | 2.030E+06 | 16.69 | 0.1542 | 0.905 | 0.350 | | 2.36 | 3.24 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.09 | 1.272E+05 | 2.030E+06 | 15.95 | 0.1542 | 0.907 | 0.350 | | 2.35 | 3.23 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.15 | 1.307E+05 | 2.030E+06 | 15.53 | 0.1542 | 0.908 | 0.351 | | 2.35 | 3.23 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.22 | 1.324E+05 | 2.030E+06 | 15.33 | 0.1542 | 0.909 | 0.351 | | 2.35 | 3.23 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.28 | 1.325E+05 | 2.030E+06 | 15.32 | 0.1542 | 0.909 | 0.351 | | 2.17 | 2.99 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.34 | 1.333E+05 | 2.030E+06 | 15.23 | 0.1542 | 0.909 | 0.351 | | 2.21 | 3.05 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.41 | 1.348E+05 | 2.030E+06 | 15.06 | 0.1542 | 0.909 | 0.351 | | 2.27 | 3.12 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.49 | 1.379E+05 | 2.030E+06 | 14.72 | 0.1542 | 0.910 | 0.351 | | 2.16 | 2.97 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.53 | 1.401E+05 | 2.030E+06 | 14.49 | 0.1542 | 0.911 | 0.352 | | 2.15 | 2.96 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.60 | 1.402E+05 | 2.030E+06 | 14.48 | 0.1542 | 0.911 | 0.352 | | 2.09 | 2.87 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.67 | 1.395E+05 | 2.030E+06 | 14.56 | 0.1542 | 0.911 | 0.351 | | 2.02 | 2.78 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.76 | 1.416E+05 | 2.030E+06 | 14.34 | 0.1542 | 0.911 | 0.352 | | 1.93 | 2.65 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.80 | 1.437E+05 | 2.030E+06 | 14.12 | 0.1542 | 0.912 | 0.352 | | 1.95 | 2.68 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.87 | 1.457E+05 | 2.030E+06 | 13.94 | 0.1542 | 0.912 | 0.352 | | 2.01 | 2.77 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 8.93 | 1.476E+05 | 2.030E+06 | 13.76 | 0.1542 | 0.913 | 0.352 | | 2.17 | 2.99 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.01 | 1.505E+05 | 2.030E+06 | 13.49 | 0.1542 | 0.913 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.06 | 1.528E+05 | 2.030E+06 | 13.29 | 0.1542 | 0.914 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.14 | 1.560E+05 | 2.030E+06 | 13.01 | 0.1542 | 0.915 | 0.353 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.20 | 1.581E+05 | 2.030E+06 | 12.84 | 0.1542 | 0.915 | 0.353 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.27 | 1.596E+05 | 2.030E+06 | 12.72 | 0.1542 | 0.915 | 0.353 | | 2.34 | 3.21 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.33 | 1.601E+05 | 2.030E+06 | 12.68 | 0.1542 | 0.916 | 0.353 | | 2.34 | 3.21 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.39 | 1.616E+05 | 2.030E+06 | 12.56 | 0.1542 | 0.916 | 0.353 | | 2.34 | 3.21 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.46 | 1.621E+05 | 2.030E+06 | 12.52 | 0.1542 | 0.916 | 0.353 | | 2.34 | 3.21 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.53 | 1.622E+05 | 2.030E+06 | 12.52 | 0.1542 | 0.916 | 0.353 | | 2.34 | 3.21 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.61 | 1.612E+05 | 2.030E+06 | 12.59 | 0.1542 | 0.916 | 0.353 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.69 | 1.597E+05 | 2.030E+06 | 12.71 | 0.1542 | 0.915 | 0.352 | | 2.34 | 3.22 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.73 | 1.374E+05 | 2.030E+06 | 14.77 | 0.1542 | 0.910 | 0.350 | | 2.35 | 3.24 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.78 | 1.141E+05 | 2.030E+06 | 17.79 | 0.1542 | 0.902 | 0.347 | | 2.37 | 3.27 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.86 | 1.193E+05 | 2.030E+06 | 17.01 | 0.1542 | 0.904 | 0.348 | | 2.37 | 3.26 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 9.91 | 1.251E+05 | 2.030E+06 | 16.22 | 0.1542 | 0.906 | 0.349 | | 2.36 | 3.25 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.01 | 1.312E+05 | 2.030E+06 | 15.48 | 0.1542 | 0.908 | 0.349 | | 2.36 | 3.24 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.05 | 1.328E+05 | 2.030E+06 | 15.29 | 0.1542 | 0.909 | 0.350 | | 2.35 | 3.24 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.11 | 1.354E+05 | 2.030E+06 | 14.99 | 0.1542 | 0.910 | 0.352 | | 2.29 | 3.15 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.18 | 1.376E+05 | 2.030E+06 | 14.76 | 0.1542 | 0.910 | 0.353 | | 2.33 | 3.21 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.24 | 1.397E+05 | 2.030E+06 | 14.53 | 0.1542 | 0.911 | 0.354 | | 2.33 | 3.20 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.30 | 1.418E+05 | 2.030E+06 | 14.31 | 0.1542 | 0.911 | 0.355 | | 2.32 | 3.19 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.39 | 1.426E+05 | 2.030E+06 | 14.23 | 0.1542 | 0.912 | 0.357 | | 2.22 | 3.06 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.45 | 1.434E+05 | 2.030E+06 | 14.16 | 0.1542 | 0.912 | 0.358 | | 2.06 | 2.83 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.51 | 1.442E+05 | 2.030E+06 | 14.08 | 0.1542 | 0.912 | 0.359 | | 1.93 | 2.65 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.58 | 1.442E+05 | 2.030E+06 | 14.08 | 0.1542 | 0.912 | 0.360 | | 1.86 | 2.55 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.64 | 1.442E+05 | 2.030E+06 | 14.08 | 0.1542 | 0.912 | 0.361 | | 1.81 | 2.50 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.72 | 1.442E+05 | 2.030E+06 | 14.08 | 0.1542 | 0.912 | 0.362 | | 1.80 | 2.48 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.76 | 1.442E+05 | 2.030E+06 | 14.08 | 0.1542 | 0.912 | 0.363 | | 1.83 | 2.52 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.84 | 1.448E+05 | 2.030E+06 | 14.02 | 0.1542 | 0.912 | 0.364 | | 1.91 | 2.63 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.90 | 1.455E+05 | 2.030E+06 | 13.95 | 0.1542 | 0.912 | 0.365 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 10.98 | 1.442E+05 | 2.030E+06 | 14.08 | 0.1542 | 0.912 | 0.366 | | 1.67 | 2.29 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.03 | 1.429E+05 | 2.030E+06 | 14.21 | 0.1542 | 0.912 | 0.366 | | 1.53 | 2.10 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.12 | 1.409E+05 | 2.030E+06 | 14.41 | 0.1542 | 0.911 | 0.368 | | 1.39 | 1.91 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.16 | 1.410E+05 | 2.030E+06 | 14.40 | 0.1542 | 0.911 | 0.368 | | 1.32 | 1.82 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.25 | 1.397E+05 | 2.030E+06 | 14.53 | 0.1542 | 0.911 | 0.369 | | 1.09 | 1.50 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.30 | 1.259E+05 | 2.030E+06 | 16.12 | 0.1542 | 0.907 | 0.368 | | 0.97 | 1.33 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.37 | 1.043E+05 | 2.030E+06 | 19.46 | 0.1542 | 0.898 | 0.366 | | 1.05 | 1.45 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.43 | 1.096E+05 | 2.030E+06 | 18.52 | 0.1542 | 0.901 | 0.368 | | 0.96 | 1.32 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.48 | 1.156E+05 | 2.030E+06 | 17.56 | 0.1542 | 0.903 | 0.369 | | 0.98 | 1.35 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.57 | 1.287E+05 | 2.030E+06 | 15.77 | 0.1542 | 0.908 | 0.372 | | 0.96 | 1.32 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.62 | 1.333E+05 | 2.030E+06 | 15.23 | 0.1542 | 0.909 | 0.374 | | 0.98 | 1.35 | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-1

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

**Project No.:** 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2

Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A ($ft^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.70 | 137.47 | 0.7505 | 59.77 | 0.67 | 1.12% | 1.135 | 0.62 | 84.62 | 2.05 | 1.37 | 100 | 0.173 | 0.384 | 0.97 | 0.053 | 0.412 | 764.67 | 4.269 |
| 11.76 | 137.83 | 0.7546 | 63.66 | 0.69 | 1.08% | 1.097 | 0.61 | 89.90 | 2.02 | 1.33 | 103 | 0.181 | 0.375 | 0.97 | 0.055 | 0.413 | 769.64 | 4.280 |
| 11.83 | 137.76 | 0.7594 | 63.71 | 0.68 | 1.07% | 1.080 | 0.61 | 89.63 | 2.02 | 1.33 | 102 | 0.179 | 0.372 | 0.97 | 0.057 | 0.414 | 767.17 | 4.278 |
| 11.88 | 137.64 | 0.7629 | 63.71 | 0.67 | 1.05% | 1.064 | 0.61 | 89.39 | 2.02 | 1.32 | 102 | 0.178 | 0.369 | 0.97 | 0.059 | 0.415 | 764.67 | 4.275 |
| 11.95 | 137.37 | 0.7677 | 63.76 | 0.65 | 1.02% | 1.032 | 0.61 | 89.12 | 2.01 | 1.31 | 101 | 0.175 | 0.390 | 0.97 | 0.061 | 0.416 | 759.54 | 4.266 |
| 12.01 | 136.86 | 0.7718 | 65.32 | 0.60 | 0.92% | 0.930 | 0.60 | 91.03 | 1.97 | 1.27 | 99 | 0.170 | 0.356 | 0.97 | 0.063 | 0.417 | 746.00 | 4.250 |
| 12.10 | 136.25 | 0.7779 | 70.28 | 0.54 | 0.77% | 0.777 | 0.58 | 97.56 | 1.91 | 1.20 | 99 | 0.171 | 0.359 | 0.97 | 0.066 | 0.418 | 728.18 | 4.231 |
| 12.15 | 135.64 | 0.7813 | 70.18 | 0.50 | 0.71% | 0.720 | 0.57 | 97.17 | 1.89 | 1.18 | 98 | 0.167 | 0.349 | 0.97 | 0.067 | 0.418 | 715.16 | 4.212 |
| 12.23 | 135.35 | 0.7867 | 64.73 | 0.49 | 0.76% | 0.766 | 0.59 | 89.16 | 1.93 | 1.22 | 93 | 0.156 | 0.351 | 0.97 | 0.070 | 0.420 | 711.74 | 4.203 |
| 12.28 | 135.47 | 0.7901 | 61.91 | 0.51 | 0.82% | 0.834 | 0.60 | 85.01 | 1.97 | 1.26 | 93 | 0.154 | 0.347 | 0.97 | 0.071 | 0.420 | 718.51 | 4.207 |
| 12.37 | 135.24 | 0.7962 | 55.97 | 0.51 | 0.91% | 0.924 | 0.62 | 76.39 | 2.03 | 1.34 | 89 | 0.146 | 0.354 | 0.97 | 0.074 | 0.421 | 718.51 | 4.200 |
| 12.41 | 135.55 | 0.7989 | 53.34 | 0.54 | 1.01% | 1.028 | 0.63 | 72.60 | 2.07 | 1.41 | 89 | 0.146 | 0.382 | 0.97 | 0.075 | 0.422 | 728.18 | 4.210 |
| 12.48 | 136.25 | 0.8037 | 47.70 | 0.61 | 1.28% | 1.301 | 0.66 | 64.57 | 2.17 | 1.60 | 91 | 0.151 | 0.395 | 0.97 | 0.077 | 0.423 | 748.80 | 4.231 |
| 12.54 | 136.74 | 0.8078 | 45.17 | 0.67 | 1.48% | 1.510 | 0.68 | 60.89 | 2.23 | 1.74 | 94 | 0.158 | 0.446 | 0.97 | 0.079 | 0.424 | 764.67 | 4.247 |
| 12.62 | 136.52 | 0.8132 | 40.01 | 0.68 | 1.70% | 1.735 | 0.70 | 53.58 | 2.31 | 1.97 | 95 | 0.160 | 0.451 | 0.97 | 0.082 | 0.425 | 767.17 | 4.240 |
| 12.67 | 136.38 | 0.8166 | 36.89 | 0.68 | 1.84% | 1.885 | 0.71 | 49.19 | 2.36 | 2.14 | 95 | 0.161 | 0.490 | 0.97 | 0.083 | 0.425 | 767.17 | 4.235 |
| 12.74 | 136.46 | 0.8214 | 34.75 | 0.70 | 2.01% | 2.063 | 0.73 | 46.10 | 2.40 | 2.32 | 97 | 0.166 | 0.505 | 0.97 | 0.085 | 0.426 | 772.08 | 4.238 |
| 12.82 | 136.64 | 0.8269 | 34.26 | 0.72 | 2.10% | 2.154 | 0.73 | 45.25 | 2.42 | 2.39 | 99 | 0.169 | 0.518 | 0.97 | 0.088 | 0.427 | 776.84 | 4.243 |
| 12.87 | 136.88 | 0.8303 | 34.07 | 0.75 | 2.20% | 2.256 | 0.74 | 44.87 | 2.43 | 2.45 | 101 | 0.175 | 0.536 | 0.97 | 0.090 | 0.428 | 783.75 | 4.251 |
| 12.93 | 137.75 | 0.8344 | 35.24 | 0.83 | 2.36% | 2.412 | 0.74 | 46.30 | 2.44 | 2.49 | 106 | 0.190 | 0.581 | 0.97 | 0.091 | 0.429 | 800.89 | 4.278 |
| 12.99 | 137.87 | 0.8386 | 36.11 | 0.84 | 2.33% | 2.382 | 0.74 | 47.33 | 2.43 | 2.44 | 106 | 0.191 | 0.585 | 0.97 | 0.093 | 0.430 | 802.92 | 4.282 |
| 13.08 | 137.77 | 0.8448 | 33.78 | 0.85 | 2.52% | 2.581 | 0.75 | 43.99 | 2.48 | 2.65 | 107 | 0.195 | 0.247 | 0.97 | 0.096 | 0.431 | 804.92 | 4.279 |
| 13.13 | 137.96 | 0.8482 | 32.12 | 0.88 | 2.74% | 2.814 | 0.76 | 41.66 | 2.52 | 2.86 | 110 | 0.204 | 0.259 | 0.97 | 0.098 | 0.431 | 810.79 | 4.284 |
| 13.21 | 137.76 | 0.8537 | 27.26 | 0.91 | 3.34% | 3.446 | 0.80 | 35.04 | 2.63 | 3.50 | 116 | 0.224 | 0.290 | 0.97 | 0.100 | 0.432 | 816.46 | 4.278 |
| 13.26 | 137.48 | 0.8572 | 25.11 | 0.90 | 3.58% | 3.711 | 0.81 | 32.10 | 2.68 | 3.83 | 126 | 0.267 | 0.352 | 0.97 | 0.102 | 0.433 | 814.59 | 4.270 |
| 13.33 | 137.24 | 0.8620 | 23.75 | 0.89 | 3.75% | 3.888 | 0.82 | 30.19 | 2.71 | 4.06 | 134 | 0.303 | 0.400 | 0.97 | 0.104 | 0.434 | 812.70 | 4.262 |
| 13.39 | 137.21 | 0.8661 | 23.46 | 0.89 | 3.79% | 3.939 | 0.82 | 29.72 | 2.72 | 4.12 | 136 | 0.314 | 0.414 | 0.97 | 0.106 | 0.434 | 812.70 | 4.261 |
| 13.49 | 137.18 | 0.8730 | 21.71 | 0.91 | 4.19% | 4.367 | 0.84 | 27.27 | 2.77 | 4.55 | 150 | 0.396 | 0.531 | 0.97 | 0.109 | 0.436 | 816.46 | 4.260 |
| 13.53 | 137.19 | 0.8757 | 21.71 | 0.91 | 4.19% | 4.368 | 0.84 | 27.21 | 2.77 | 4.56 | 150 | 0.397 | 0.533 | 0.97 | 0.110 | 0.436 | 816.46 | 4.261 |
| 13.61 | 137.47 | 0.8812 | 21.71 | 0.94 | 4.33% | 4.513 | 0.84 | 27.10 | 2.78 | 4.65 | 153 | 0.415 | 0.557 | 0.97 | 0.113 | 0.437 | 821.95 | 4.269 |
| 13.66 | 138.08 | 0.8847 | 22.00 | 1.02 | 4.64% | 4.831 | 0.85 | 27.41 | 2.80 | 4.78 | 158 | 0.445 | 0.445 | 0.97 | 0.114 | 0.438 | 835.76 | 4.288 |
| 13.72 | 137.57 | 0.8888 | 22.19 | 0.95 | 4.28% | 4.460 | 0.84 | 27.57 | 2.77 | 4.57 | 151 | 0.399 | 0.537 | 0.97 | 0.116 | 0.438 | 823.74 | 4.272 |
| 13.80 | 137.14 | 0.8943 | 23.85 | 0.87 | 3.65% | 3.790 | 0.82 | 29.59 | 2.71 | 4.04 | 133 | 0.300 | 0.397 | 0.97 | 0.119 | 0.439 | 808.86 | 4.259 |
| 13.86 | 137.71 | 0.8984 | 35.72 | 0.83 | 2.32% | 2.384 | 0.74 | 44.76 | 2.45 | 2.51 | 104 | 0.185 | 0.579 | 0.97 | 0.120 | 0.440 | 800.89 | 4.277 |
| 13.93 | 135.24 | 0.9031 | 51.30 | 0.52 | 1.01% | 1.032 | 0.64 | 64.57 | 2.10 | 1.46 | 85 | 0.137 | 0.372 | 0.97 | 0.123 | 0.441 | 721.79 | 4.200 |
| 14.02 | 133.76 | 0.9091 | 88.77 | 0.36 | 0.41% | 0.410 | 0.52 | 112.11 | 1.70 | 1.04 | 101 | 0.177 | 0.342 | 0.97 | 0.125 | 0.442 | 659.59 | 4.154 |
| 14.05 | 134.95 | 0.9112 | 104.15 | 0.40 | 0.38% | 0.387 | 0.50 | 131.55 | 1.63 | 1.00 | 114 | 0.219 | 0.368 | 0.97 | 0.126 | 0.442 | 677.41 | 4.191 |
| 14.11 | 136.57 | 0.9153 | 123.04 | 0.47 | 0.38% | 0.385 | 0.50 | 155.17 | 1.56 | 1.00 | 135 | 0.309 | 0.402 | 0.97 | 0.128 | 0.443 | 704.69 | 4.241 |
| 14.20 | 138.05 | 0.9215 | 138.71 | 0.55 | 0.40% | 0.399 | 0.50 | 174.32 | 1.53 | 1.00 | 152 | 0.406 | 0.406 | 0.97 | 0.131 | 0.444 | 731.28 | 4.287 |
| 14.24 | 138.67 | 0.9243 | 145.62 | 0.59 | 0.41% | 0.408 | 0.50 | 182.70 | 1.52 | 1.00 | 159 | 0.457 | 0.457 | 0.97 | 0.132 | 0.444 | 743.16 | 4.307 |
| 14.32 | 139.60 | 0.9298 | 146.30 | 0.67 | 0.46% | 0.461 | 0.50 | 182.84 | 1.54 | 1.00 | 160 | 0.460 | 0.460 | 0.97 | 0.135 | 0.445 | 764.67 | 4.335 |
| 14.37 | 140.27 | 0.9333 | 158.28 | 0.71 | 0.45% | 0.451 | 0.50 | 197.42 | 1.51 | 1.00 | 173 | 0.560 | 0.560 | 0.97 | 0.136 | 0.446 | 774.48 | 4.356 |
| 14.45 | 141.60 | 0.9390 | 172.19 | 0.83 | 0.48% | 0.485 | 0.50 | 214.02 | 1.50 | 1.00 | 188 | 0.695 | 0.695 | 0.97 | 0.139 | 0.446 | 800.89 | 4.398 |
| 14.51 | 142.54 | 0.9433 | 181.93 | 0.93 | 0.51% | 0.514 | 0.50 | 225.51 | 1.50 | 1.00 | 198 | 0.803 | 0.803 | 0.97 | 0.141 | 0.447 | 820.14 | 4.427 |
| 14.57 | 143.46 | 0.9476 | 192.54 | 1.03 | 0.53% | 0.538 | 0.50 | 238.00 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.97 | 0.143 | 0.448 | 837.41 | 4.455 |
| 14.64 | 144.19 | 0.9526 | 200.42 | 1.12 | 0.56% | 0.561 | 0.50 | 246.91 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.97 | 0.145 | 0.448 | 851.58 | 4.478 |
| 14.73 | 144.89 | 0.9592 | 202.86 | 1.23 | 0.61% | 0.609 | 0.50 | 248.77 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.97 | 0.148 | 0.449 | 867.43 | 4.500 |
| 14.77 | 145.13 | 0.9621 | 204.61 | 1.27 | 0.62% | 0.624 | 0.50 | 250.42 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.149 | 0.450 | 872.85 | 4.507 |
| 14.85 | 145.39 | 0.9679 | 210.16 | 1.31 | 0.62% | 0.626 | 0.50 | 256.19 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.151 | 0.450 | 878.09 | 4.515 |
| 14.91 | 145.52 | 0.9722 | 213.18 | 1.32 | 0.62% | 0.622 | 0.50 | 259.09 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.153 | 0.451 | 879.38 | 4.519 |
| 14.99 | 145.78 | 0.9781 | 214.15 | 1.37 | 0.64% | 0.643 | 0.50 | 259.21 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.156 | 0.452 | 885.67 | 4.527 |
| 15.04 | 145.90 | 0.9817 | 215.80 | 1.39 | 0.64% | 0.647 | 0.50 | 260.55 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.157 | 0.452 | 888.12 | 4.531 |
| 15.11 | 146.14 | 0.9868 | 214.64 | 1.43 | 0.67% | 0.669 | 0.50 | 258.22 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.159 | 0.453 | 892.92 | 4.539 |
| 15.16 | 146.44 | 0.9905 | 214.25 | 1.50 | 0.70% | 0.703 | 0.50 | 257.09 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.161 | 0.453 | 901.00 | 4.548 |
| 15.26 | 147.28 | 0.9979 | 212.20 | 1.68 | 0.79% | 0.795 | 0.50 | 253.32 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.164 | 0.454 | 920.17 | 4.574 |
| 15.31 | 147.58 | 1.0015 | 211.42 | 1.76 | 0.83% | 0.836 | 0.50 | 251.73 | 1.60 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.166 | 0.455 | 928.04 | 4.583 |
| 15.37 | 148.06 | 1.0060 | 211.23 | 1.87 | 0.89% | 0.890 | 0.50 | 250.73 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.168 | 0.455 | 938.30 | 4.598 |
| 15.45 | 148.67 | 1.0119 | 213.47 | 2.03 | 0.95% | 0.955 | 0.50 | 252.36 | 1.64 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.170 | 0.456 | 952.19 | 4.617 |
| 15.52 | 149.32 | 1.0172 | 215.51 | 2.21 | 1.03% | 1.030 | 0.51 | 253.86 | 1.66 | 1.01 | 202 | 0.846 | 0.846 | 0.96 | 0.172 | 0.457 | 966.56 | 4.637 |
| 15.57 | 149.86 | 1.0209 | 218.63 | 2.37 | 1.08% | 1.089 | 0.51 | 256.88 | 1.67 | 1.02 | 204 | 0.868 | 0.868 | 0.96 | 0.174 | 0.457 | 978.38 | 4.654 |
| 15.62 | 150.21 | 1.0247 | 221.35 | 2.48 | 1.12% | 1.126 | 0.51 | 259.41 | 1.68 | 1.02 | 205 | 0.880 | 0.880 | 0.96 | 0.175 | 0.458 | 986.06 | 4.665 |
| 15.71 | 150.48 | 1.0314 | 222.71 | 2.56 | 1.15% | 1.155 | 0.51 | 259.79 | 1.69 | 1.03 | 206 | 0.892 | 0.892 | 0.96 | 0.178 | 0.458 | 991.43 | 4.673 |
| 15.76 | 150.63 | 1.0352 | 226.22 | 2.60 | 1.15% | 1.155 | 0.51 | 263.22 | 1.68 | 1.03 | 205 | 0.885 | 0.885 | 0.96 | 0.180 | 0.459 | 994.05 | 4.678 |
| 15.82 | 150.55 | 1.0397 | 229.33 | 2.56 | 1.12% | 1.121 | 0.51 | 266.03 | 1.67 | 1.02 | 204 | 0.865 | 0.865 | 0.96 | 0.182 | 0.459 | 991.43 | 4.675 |
| 15.88 | 150.37 | 1.0442 | 232.64 | 2.49 | 1.07% | 1.075 | 0.50 | 269.06 | 1.65 | 1.01 | 201 | 0.837 | 0.837 | 0.96 | 0.183 | 0.460 | 986.74 | 4.670 |
| 15.95 | 150.14 | 1.0495 | 236.73 | 2.40 | 1.01% | 1.018 | 0.50 | 272.83 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.186 | 0.460 | 980.51 | 4.663 |
| 16.03 | 149.76 | 1.0555 | 239.36 | 2.27 | 0.95% | 0.953 | 0.50 | 274.75 | 1.61 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.188 | 0.461 | 971.09 | 4.651 |
| 16.11 | 147.70 | 1.0614 | 241.70 | 1.71 | 0.71% | 0.711 | 0.50 | 276.36 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.191 | 0.462 | 923.17 | 4.587 |
| 16.14 | 146.71 | 1.0636 | 243.06 | 1.49 | 0.61% | 0.616 | 0.50 | 277.51 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.192 | 0.462 | 899.87 | 4.556 |
| 16.22 | 146.75 | 1.0695 | 245.01 | 1.49 | 0.61% | 0.611 | 0.50 | 278.66 | 1.46 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.194 | 0.463 | 899.87 | 4.557 |
| 16.29 | 146.97 | 1.0746 | 245.98 | 1.54 | 0.63% | 0.629 | 0.50 | 278.82 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.196 | 0.463 | 905.45 | 4.564 |
| 16.34 | 147.16 | 1.0783 | 245.78 | 1.58 | 0.64% | 0.646 | 0.50 | 277.92 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.198 | 0.464 | 909.79 | 4.570 |
| 16.41 | 147.08 | 1.0834 | 230.31 | 1.59 | 0.69% | 0.694 | 0.50 | 259.47 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.200 | 0.464 | 910.86 | 4.568 |
| 16.48 | 147.17 | 1.0886 | 235.27 | 1.60 | 0.68% | 0.683 | 0.50 | 264.19 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.202 | 0.465 | 911.92 | 4.571 |
| 16.55 | 147.33 | 1.0937 | 237.12 | 1.63 | 0.69% | 0.691 | 0.50 | 265.38 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.204 | 0.465 | 915.06 | 4.575 |
| 16.61 | 147.51 | 1.0982 | 237.02 | 1.67 | 0.70% | 0.708 | 0.50 | 264.51 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.206 | 0.466 | 919.16 | 4.581 |
| 16.68 | 147.69 | 1.1033 | 236.05 | 1.72 | 0.73% | 0.732 | 0.50 | 262.54 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.208 | 0.466 | 924.15 | 4.587 |
| 16.73 | 147.85 | 1.1070 | 236.54 | 1.75 | 0.74% | 0.743 | 0.50 | 262.45 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.210 | 0.467 | 927.08 | 4.592 |
| 16.80 | 148.00 | 1.1122 | 238.97 | 1.79 | 0.75% | 0.753 | 0.50 | 264.27 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.212 | 0.467 | 930.90 | 4.596 |
| 16.87 | 148.12 | 1.1174 | 243.93 | 1.80 | 0.74% | 0.741 | 0.50 | 268.88 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.214 | 0.468 | 931.84 | 4.600 |
| 16.93 | 148.24 | 1.1218 | 249.78 | 1.82 | 0.73% | 0.732 | 0.50 | 274.57 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.216 | 0.468 | 933.71 | 4.604 |
| 17.00 | 148.40 | 1.1270 | 255.52 | 1.84 | 0.72% | 0.723 | 0.50 | 279.97 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.218 | 0.469 | 935.56 | 4.609 |
| 17.08 | 148.65 | 1.1330 | 261.46 | 1.89 | 0.72% | 0.726 | 0.50 | 285.42 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.221 | 0.469 | 940.10 | 4.616 |
| 17.13 | 148.79 | 1.1367 | 263.21 | 1.93 | 0.73% | 0.736 | 0.50 | 286.66 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.222 | 0.470 | 943.64 | 4.621 |
| 17.21 | 148.91 | 1.1427 | 264.77 | 1.95 | 0.74% | 0.740 | 0.50 | 287.27 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.225 | 0.470 | 945.38 | 4.625 |
| 17.27 | 148.96 | 1.1471 | 264.38 | 1.97 | 0.75% | 0.748 | 0.50 | 286.03 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.227 | 0.471 | 947.11 | 4.626 |
| 17.34 | 149.00 | 1.1523 | 264.08 | 1.98 | 0.75% | 0.753 | 0.50 | 284.76 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.229 | 0.471 | 947.97 | 4.627 |
| 17.40 | 149.13 | 1.1568 | 263.79 | 2.01 | 0.76% | 0.765 | 0.50 | 283.64 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.231 | 0.472 | 950.51 | 4.631 |
| 17.48 | 149.34 | 1.1628 | 263.21 | 2.08 | 0.79% | 0.794 | 0.50 | 281.95 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.233 | 0.472 | 956.30 | 4.638 |
| 17.53 | 149.36 | 1.1665 | 262.72 | 2.08 | 0.79% | 0.795 | 0.50 | 280.76 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.235 | 0.473 | 956.30 | 4.639 |
| 17.60 | 149.29 | 1.1717 | 260.39 | 2.07 | 0.79% | 0.799 | 0.50 | 277.35 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.237 | 0.473 | 955.49 | 4.636 |
| 17.67 | 149.30 | 1.1770 | 261.07 | 2.07 | 0.79% | 0.796 | 0.50 | 277.17 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.239 | 0.474 | 955.49 | 4.637 |
| 17.74 | 149.31 | 1.1822 | 258.92 | 2.08 | 0.80% | 0.807 | 0.50 | 273.98 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.241 | 0.474 | 956.30 | 4.637 |
| 17.80 | 149.40 | 1.1867 | 256.78 | 2.11 | 0.82% | 0.826 | 0.50 | 270.95 | 1.55 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.243 | 0.475 | 958.72 | 4.640 |
| 17.86 | 149.50 | 1.1912 | 255.81 | 2.14 | 0.84% | 0.840 | 0.50 | 269.17 | 1.56 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.245 | 0.475 | 961.11 | 4.643 |
| 17.94 | 149.52 | 1.1971 | 252.21 | 2.16 | 0.86% | 0.861 | 0.50 | 264.39 | 1.57 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.248 | 0.476 | 962.69 | 4.643 |
| 17.98 | 149.50 | 1.2001 | 249.19 | 2.16 | 0.87% | 0.871 | 0.50 | 260.72 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.249 | 0.476 | 962.69 | 4.643 |
| 18.05 | 149.43 | 1.2054 | 241.70 | 2.16 | 0.89% | 0.898 | 0.50 | 252.04 | 1.60 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.251 | 0.476 | 962.69 | 4.641 |
| 18.12 | 149.32 | 1.2106 | 234.40 | 2.15 | 0.92% | 0.922 | 0.50 | 243.61 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.253 | 0.477 | 961.90 | 4.637 |
| 18.19 | 149.10 | 1.2158 | 227.58 | 2.11 | 0.93% | 0.932 | 0.50 | 235.73 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.256 | 0.477 | 958.72 | 4.630 |
| 18.25 | 148.75 | 1.2203 | 221.55 | 2.03 | 0.92% | 0.921 | 0.50 | 228.83 | 1.64 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.257 | 0.478 | 952.19 | 4.620 |
| 18.34 | 148.18 | 1.2269 | 212.79 | 1.90 | 0.89% | 0.898 | 0.50 | 218.84 | 1.64 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.260 | 0.478 | 940.99 | 4.602 |
| 18.39 | 147.85 | 1.2306 | 204.90 | 1.84 | 0.90% | 0.903 | 0.50 | 210.21 | 1.65 | 1.01 | 201 | 0.837 | 0.837 | 0.96 | 0.262 | 0.479 | 935.56 | 4.592 |
| 18.46 | 147.46 | 1.2358 | 194.87 | 1.78 | 0.91% | 0.919 | 0.51 | 199.24 | 1.67 | 1.02 | 197 | 0.788 | 0.788 | 0.96 | 0.264 | 0.479 | 929.95 | 4.580 |
| 18.51 | 147.22 | 1.2395 | 187.48 | 1.74 | 0.93% | 0.934 | 0.52 | 191.22 | 1.69 | 1.03 | 191 | 0.730 | 0.730 | 0.96 | 0.266 | 0.479 | 926.11 | 4.572 |
| 18.61 | 146.93 | 1.2468 | 167.33 | 1.74 | 1.04% | 1.048 | 0.54 | 169.79 | 1.76 | 1.08 | 178 | 0.607 | 0.607 | 0.96 | 0.269 | 0.480 | 926.11 | 4.563 |
| 18.65 | 147.29 | 1.2498 | 159.15 | 1.85 | 1.16% | 1.172 | 0.55 | 161.14 | 1.81 | 1.12 | 175 | 0.579 | 0.579 | 0.96 | 0.270 | 0.480 | 936.48 | 4.574 |
| 18.71 | 146.75 | 1.2542 | 150.10 | 1.76 | 1.17% | 1.182 | 0.56 | 151.51 | 1.83 | 1.13 | 167 | 0.515 | 0.515 | 0.96 | 0.272 | 0.481 | 928.04 | 4.557 |
| 18.78 | 145.31 | 1.2593 | 142.90 | 1.47 | 1.03% | 1.038 | 0.55 | 143.75 | 1.81 | 1.11 | 156 | 0.436 | 0.436 | 0.96 | 0.274 | 0.481 | 897.59 | 4.513 |
| 18.86 | 145.88 | 1.2651 | 138.71 | 1.60 | 1.15% | 1.164 | 0.56 | 139.02 | 1.85 | 1.15 | 156 | 0.435 | 0.435 | 0.96 | 0.276 | 0.482 | 911.92 | 4.530 |
| 18.92 | 146.45 | 1.2695 | 139.29 | 1.73 | 1.24% | 1.253 | 0.57 | 139.25 | 1.88 | 1.17 | 159 | 0.455 | 0.455 | 0.96 | 0.278 | 0.482 | 925.13 | 4.548 |
| 18.96 | 146.96 | 1.2724 | 141.83 | 1.84 | 1.30% | 1.309 | 0.57 | 141.57 | 1.88 | 1.17 | 163 | 0.483 | 0.483 | 0.96 | 0.280 | 0.482 | 935.56 | 4.564 |
| 19.03 | 147.36 | 1.2776 | 128.78 | 2.01 | 1.56% | 1.576 | 0.60 | 128.03 | 1.97 | 1.26 | 159 | 0.455 | 0.455 | 0.95 | 0.282 | 0.483 | 950.51 | 4.576 |
| 19.11 | 148.31 | 1.2835 | 147.96 | 2.19 | 1.48% | 1.493 | 0.58 | 146.78 | 1.91 | 1.20 | 173 | 0.565 | 0.565 | 0.95 | 0.284 | 0.483 | 965.02 | 4.606 |
| 19.17 | 148.77 | 1.2880 | 150.59 | 2.31 | 1.53% | 1.547 | 0.58 | 149.02 | 1.92 | 1.21 | 177 | 0.598 | 0.598 | 0.95 | 0.286 | 0.483 | 974.04 | 4.620 |
| 19.23 | 149.24 | 1.2925 | 152.24 | 2.46 | 1.62% | 1.630 | 0.59 | 150.27 | 1.93 | 1.22 | 181 | 0.632 | 0.632 | 0.95 | 0.288 | 0.484 | 984.69 | 4.635 |
| 19.30 | 149.61 | 1.2977 | 153.02 | 2.58 | 1.69% | 1.700 | 0.59 | 150.59 | 1.95 | 1.24 | 184 | 0.657 | 0.657 | 0.95 | 0.290 | 0.484 | 992.74 | 4.646 |
| 19.36 | 149.83 | 1.3022 | 152.82 | 2.66 | 1.74% | 1.756 | 0.60 | 149.99 | 1.96 | 1.25 | 185 | 0.669 | 0.669 | 0.95 | 0.292 | 0.484 | 997.91 | 4.653 |
| 19.45 | 149.80 | 1.3089 | 151.85 | 2.65 | 1.75% | 1.760 | 0.60 | 148.45 | 1.96 | 1.25 | 184 | 0.659 | 0.659 | 0.95 | 0.295 | 0.485 | 997.27 | 4.652 |
| 19.49 | 149.72 | 1.3119 | 150.39 | 2.64 | 1.76% | 1.771 | 0.60 | 146.75 | 1.97 | 1.26 | 183 | 0.649 | 0.649 | 0.95 | 0.296 | 0.485 | 996.63 | 4.650 |
| 19.58 | 149.50 | 1.3186 | 147.18 | 2.57 | 1.75% | 1.762 | 0.60 | 143.04 | 1.97 | 1.26 | 179 | 0.617 | 0.617 | 0.95 | 0.299 | 0.486 | 992.09 | 4.643 |
| 19.63 | 149.41 | 1.3224 | 145.23 | 2.56 | 1.76% | 1.779 | 0.60 | 140.82 | 1.98 | 1.27 | 178 | 0.605 | 0.605 | 0.95 | 0.300 | 0.486 | 991.43 | 4.640 |
| 19.71 | 147.87 | 1.3283 | 143.38 | 2.08 | 1.45% | 1.464 | 0.58 | 138.54 | 1.92 | 1.21 | 167 | 0.510 | 0.510 | 0.95 | 0.303 | 0.486 | 956.30 | 4.592 |
| 19.76 | 145.81 | 1.3319 | 144.26 | 1.57 | 1.09% | 1.098 | 0.56 | 139.11 | 1.83 | 1.13 | 156 | 0.436 | 0.436 | 0.95 | 0.305 | 0.487 | 908.72 | 4.528 |
| 19.84 | 146.29 | 1.3378 | 146.21 | 1.67 | 1.14% | 1.153 | 0.56 | 140.55 | 1.84 | 1.14 | 159 | 0.457 | 0.457 | 0.95 | 0.307 | 0.487 | 919.16 | 4.543 |
| 19.89 | 146.72 | 1.3415 | 147.47 | 1.76 | 1.19% | 1.204 | 0.56 | 141.47 | 1.85 | 1.15 | 162 | 0.475 | 0.475 | 0.95 | 0.309 | 0.487 | 928.04 | 4.557 |
| 19.95 | 146.94 | 1.3459 | 145.62 | 1.82 | 1.25% | 1.261 | 0.57 | 139.34 | 1.87 | 1.16 | 162 | 0.474 | 0.474 | 0.95 | 0.310 | 0.488 | 933.71 | 4.563 |
| 20.03 | 147.12 | 1.3518 | 143.09 | 1.88 | 1.31% | 1.326 | 0.58 | 136.44 | 1.89 | 1.18 | 161 | 0.470 | 0.470 | 0.95 | 0.313 | 0.488 | 939.20 | 4.569 |
| 20.10 | 147.01 | 1.3569 | 130.63 | 1.91 | 1.46% | 1.477 | 0.59 | 124.09 | 1.96 | 1.25 | 155 | 0.424 | 0.424 | 0.95 | 0.315 | 0.489 | 941.88 | 4.566 |
| 20.16 | 147.01 | 1.3613 | 128.29 | 1.92 | 1.50% | 1.513 | 0.60 | 121.54 | 1.97 | 1.26 | 154 | 0.417 | 0.417 | 0.95 | 0.317 | 0.489 | 942.76 | 4.566 |
| 20.22 | 146.94 | 1.3657 | 122.55 | 1.93 | 1.57% | 1.593 | 0.61 | 115.76 | 2.00 | 1.30 | 151 | 0.399 | 0.399 | 0.95 | 0.319 | 0.489 | 943.64 | 4.563 |
| 20.30 | 146.92 | 1.3716 | 118.85 | 1.94 | 1.63% | 1.651 | 0.61 | 111.86 | 2.02 | 1.33 | 149 | 0.388 | 0.388 | 0.95 | 0.321 | 0.490 | 944.51 | 4.563 |
| 20.34 | 146.87 | 1.3745 | 116.71 | 1.94 | 1.66% | 1.682 | 0.62 | 109.64 | 2.03 | 1.34 | 148 | 0.382 | 0.382 | 0.95 | 0.323 | 0.490 | 944.51 | 4.561 |
| 20.43 | 146.69 | 1.3811 | 111.45 | 1.92 | 1.72% | 1.744 | 0.63 | 104.26 | 2.06 | 1.38 | 145 | 0.364 | 0.364 | 0.95 | 0.325 | 0.490 | 942.76 | 4.556 |
| 20.47 | 146.56 | 1.3841 | 109.31 | 1.90 | 1.74% | 1.760 | 0.63 | 102.07 | 2.07 | 1.40 | 144 | 0.356 | 0.363 | 0.95 | 0.327 | 0.491 | 940.99 | 4.552 |
| 20.55 | 146.27 | 1.3899 | 105.13 | 1.85 | 1.76% | 1.783 | 0.63 | 97.80 | 2.08 | 1.43 | 141 | 0.338 | 0.394 | 0.95 | 0.329 | 0.491 | 936.48 | 4.543 |
| 20.61 | 146.02 | 1.3943 | 101.62 | 1.81 | 1.78% | 1.806 | 0.64 | 94.26 | 2.10 | 1.45 | 138 | 0.325 | 0.380 | 0.95 | 0.331 | 0.491 | 932.78 | 4.535 |
| 20.68 | 145.67 | 1.3994 | 96.27 | 1.76 | 1.83% | 1.855 | 0.65 | 88.98 | 2.13 | 1.50 | 135 | 0.308 | 0.399 | 0.95 | 0.333 | 0.492 | 928.04 | 4.524 |
| 20.73 | 145.45 | 1.4030 | 92.67 | 1.73 | 1.87% | 1.896 | 0.65 | 85.44 | 2.14 | 1.54 | 133 | 0.298 | 0.421 | 0.95 | 0.335 | 0.492 | 925.13 | 4.517 |
| 20.81 | 144.39 | 1.4088 | 87.90 | 1.52 | 1.73% | 1.757 | 0.65 | 80.72 | 2.14 | 1.53 | 125 | 0.261 | 0.426 | 0.95 | 0.337 | 0.492 | 903.24 | 4.484 |
| 20.88 | 142.16 | 1.4138 | 85.17 | 1.13 | 1.33% | 1.349 | 0.63 | 77.96 | 2.07 | 1.41 | 111 | 0.207 | 0.362 | 0.95 | 0.339 | 0.493 | 853.09 | 4.415 |
| 20.93 | 142.66 | 1.4174 | 86.34 | 1.21 | 1.40% | 1.425 | 0.63 | 78.90 | 2.08 | 1.43 | 114 | 0.218 | 0.380 | 0.95 | 0.341 | 0.493 | 864.66 | 4.430 |
| 21.01 | 143.36 | 1.4231 | 91.01 | 1.31 | 1.44% | 1.462 | 0.63 | 82.98 | 2.07 | 1.41 | 119 | 0.236 | 0.387 | 0.95 | 0.344 | 0.493 | 878.09 | 4.452 |
| 21.10 | 143.94 | 1.4296 | 96.37 | 1.39 | 1.44% | 1.464 | 0.63 | 87.64 | 2.06 | 1.38 | 123 | 0.253 | 0.390 | 0.95 | 0.346 | 0.494 | 888.12 | 4.470 |
| 21.13 | 143.91 | 1.4317 | 90.62 | 1.41 | 1.56% | 1.581 | 0.64 | 82.24 | 2.10 | 1.46 | 121 | 0.247 | 0.381 | 0.95 | 0.347 | 0.494 | 890.54 | 4.469 |
| 21.21 | 144.10 | 1.4375 | 93.35 | 1.43 | 1.53% | 1.556 | 0.63 | 84.50 | 2.09 | 1.43 | 123 | 0.253 | 0.391 | 0.95 | 0.350 | 0.494 | 892.92 | 4.475 |
| 21.27 | 143.98 | 1.4418 | 92.38 | 1.42 | 1.54% | 1.562 | 0.64 | 83.42 | 2.09 | 1.44 | 122 | 0.249 | 0.387 | 0.95 | 0.352 | 0.495 | 891.73 | 4.471 |
| 21.33 | 143.81 | 1.4461 | 91.40 | 1.39 | 1.52% | 1.545 | 0.64 | 82.33 | 2.09 | 1.44 | 121 | 0.244 | 0.379 | 0.95 | 0.353 | 0.495 | 888.12 | 4.466 |
| 21.40 | 143.74 | 1.4511 | 91.11 | 1.38 | 1.51% | 1.539 | 0.64 | 81.85 | 2.09 | 1.44 | 120 | 0.242 | 0.376 | 0.95 | 0.356 | 0.495 | 886.90 | 4.464 |
| 21.47 | 143.62 | 1.4562 | 89.07 | 1.36 | 1.53% | 1.552 | 0.64 | 79.77 | 2.10 | 1.46 | 119 | 0.236 | 0.393 | 0.95 | 0.358 | 0.496 | 884.43 | 4.460 |
| 21.53 | 143.55 | 1.4605 | 87.51 | 1.36 | 1.55% | 1.580 | 0.64 | 78.17 | 2.11 | 1.48 | 118 | 0.234 | 0.390 | 0.95 | 0.360 | 0.496 | 884.43 | 4.458 |
| 21.60 | 143.27 | 1.4655 | 82.64 | 1.33 | 1.61% | 1.638 | 0.65 | 73.56 | 2.14 | 1.54 | 116 | 0.224 | 0.399 | 0.95 | 0.362 | 0.496 | 880.66 | 4.449 |
| 21.66 | 142.96 | 1.4698 | 78.07 | 1.30 | 1.67% | 1.697 | 0.66 | 69.26 | 2.17 | 1.61 | 114 | 0.216 | 0.409 | 0.95 | 0.364 | 0.497 | 876.80 | 4.440 |
| 21.73 | 142.68 | 1.4748 | 71.84 | 1.29 | 1.80% | 1.833 | 0.68 | 63.46 | 2.22 | 1.73 | 112 | 0.211 | 0.423 | 0.95 | 0.366 | 0.497 | 875.49 | 4.431 |
| 21.80 | 142.56 | 1.4798 | 67.46 | 1.30 | 1.93% | 1.970 | 0.69 | 59.36 | 2.27 | 1.85 | 112 | 0.211 | 0.448 | 0.95 | 0.368 | 0.497 | 876.80 | 4.427 |
| 21.85 | 142.38 | 1.4833 | 62.78 | 1.29 | 2.05% | 2.105 | 0.70 | 55.04 | 2.31 | 1.98 | 112 | 0.209 | 0.470 | 0.95 | 0.370 | 0.498 | 875.49 | 4.422 |
| 21.93 | 142.32 | 1.4890 | 59.09 | 1.31 | 2.22% | 2.274 | 0.71 | 51.58 | 2.35 | 2.14 | 112 | 0.212 | 0.478 | 0.95 | 0.372 | 0.498 | 878.09 | 4.420 |
| 22.00 | 142.38 | 1.4940 | 55.00 | 1.35 | 2.45% | 2.523 | 0.73 | 47.79 | 2.41 | 2.35 | 115 | 0.220 | 0.254 | 0.95 | 0.374 | 0.498 | 883.18 | 4.422 |
| 22.07 | 142.51 | 1.4990 | 52.95 | 1.39 | 2.63% | 2.702 | 0.74 | 45.84 | 2.44 | 2.50 | 117 | 0.228 | 0.263 | 0.95 | 0.377 | 0.499 | 888.12 | 4.426 |
| 22.14 | 142.45 | 1.5040 | 49.94 | 1.41 | 2.82% | 2.911 | 0.75 | 43.05 | 2.49 | 2.69 | 118 | 0.234 | 0.277 | 0.95 | 0.379 | 0.499 | 890.54 | 4.424 |
| 22.18 | 142.31 | 1.5068 | 47.89 | 1.40 | 2.92% | 3.018 | 0.76 | 41.16 | 2.51 | 2.82 | 118 | 0.234 | 0.277 | 0.95 | 0.380 | 0.499 | 889.33 | 4.420 |
| 22.25 | 141.72 | 1.5118 | 40.98 | 1.36 | 3.32% | 3.446 | 0.79 | 34.94 | 2.60 | 3.34 | 119 | 0.236 | 0.292 | 0.95 | 0.382 | 0.499 | 884.43 | 4.401 |
| 22.33 | 140.58 | 1.5174 | 32.71 | 1.26 | 3.85% | 4.039 | 0.83 | 27.54 | 2.73 | 4.19 | 138 | 0.326 | 0.418 | 0.95 | 0.385 | 0.500 | 871.51 | 4.366 |
| 22.38 | 139.97 | 1.5209 | 28.81 | 1.21 | 4.20% | 4.434 | 0.85 | 24.05 | 2.80 | 4.76 | 157 | 0.441 | 0.441 | 0.95 | 0.386 | 0.500 | 864.66 | 4.347 |
| 22.44 | 139.18 | 1.5251 | 23.95 | 1.15 | 4.80% | 5.128 | 0.88 | 19.72 | 2.90 | 5.74 | 189 | 0.712 | 0.712 | 0.95 | 0.388 | 0.500 | 856.06 | 4.322 |
| 22.51 | 138.39 | 1.5299 | 20.34 | 1.09 | 5.36% | 5.795 | 0.91 | 16.51 | 3.00 | 6.72 | 222 | 1.096 | 1.096 | 0.95 | 0.390 | 0.501 | 846.99 | 4.298 |
| 22.59 | 137.38 | 1.5354 | 16.35 | 1.03 | 6.30% | 6.953 | 0.95 | 12.97 | 3.13 | 8.31 | 274 | 1.999 | 1.999 | 0.95 | 0.393 | 0.501 | 837.41 | 4.266 |
| 22.64 | 136.70 | 1.5388 | 14.41 | 0.97 | 6.73% | 7.536 | 0.97 | 11.25 | 3.20 | 9.26 | 305 | 2.731 | 2.731 | 0.95 | 0.394 | 0.501 | 827.26 | 4.245 |
| 22.70 | 134.77 | 1.5429 | 13.92 | 0.76 | 5.46% | 6.140 | 0.95 | 10.79 | 3.16 | 8.65 | 286 | 2.245 | 2.245 | 0.95 | 0.396 | 0.502 | 785.99 | 4.185 |
| 23.03 | 139.07 | 1.5658 | 66.63 | 0.81 | 1.22% | 1.245 | 0.65 | 56.12 | 2.15 | 1.56 | 91 | 0.150 | 0.344 | 0.95 | 0.407 | 0.503 | 796.77 | 4.319 |
| 23.03 | 139.39 | 1.5658 | 74.18 | 0.81 | 1.09% | 1.115 | 0.63 | 62.64 | 2.09 | 1.43 | 93 | 0.155 | 0.338 | 0.95 | 0.407 | 0.503 | 796.77 | 4.329 |
| 23.10 | 141.45 | 1.5708 | 110.69 | 0.94 | 0.85% | 0.861 | 0.57 | 93.90 | 1.87 | 1.17 | 115 | 0.221 | 0.339 | 0.95 | 0.409 | 0.503 | 821.95 | 4.393 |
| 23.17 | 142.50 | 1.5758 | 118.80 | 1.06 | 0.89% | 0.904 | 0.57 | 100.63 | 1.86 | 1.16 | 122 | 0.250 | 0.331 | 0.95 | 0.411 | 0.504 | 842.27 | 4.425 |
| 23.24 | 143.16 | 1.5808 | 119.19 | 1.16 | 0.97% | 0.986 | 0.57 | 100.72 | 1.89 | 1.18 | 125 | 0.260 | 0.345 | 0.94 | 0.413 | 0.504 | 857.52 | 4.446 |
| 23.30 | 143.66 | 1.5851 | 116.46 | 1.25 | 1.07% | 1.088 | 0.59 | 98.17 | 1.92 | 1.21 | 125 | 0.262 | 0.349 | 0.94 | 0.415 | 0.504 | 870.16 | 4.462 |
| 23.37 | 144.27 | 1.5901 | 114.50 | 1.37 | 1.20% | 1.213 | 0.60 | 96.26 | 1.96 | 1.25 | 127 | 0.269 | 0.329 | 0.94 | 0.417 | 0.504 | 885.67 | 4.480 |
| 23.44 | 144.77 | 1.5952 | 112.35 | 1.48 | 1.32% | 1.336 | 0.61 | 94.19 | 2.00 | 1.30 | 128 | 0.275 | 0.338 | 0.94 | 0.419 | 0.505 | 898.73 | 4.496 |
| 23.51 | 145.19 | 1.6003 | 111.77 | 1.57 | 1.40% | 1.425 | 0.61 | 93.46 | 2.02 | 1.32 | 130 | 0.284 | 0.350 | 0.94 | 0.422 | 0.505 | 908.72 | 4.509 |
| 23.57 | 145.40 | 1.6046 | 112.06 | 1.61 | 1.44% | 1.458 | 0.62 | 93.51 | 2.02 | 1.33 | 131 | 0.289 | 0.357 | 0.94 | 0.423 | 0.505 | 912.97 | 4.516 |

| DEPTH (ft) | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.70 | 1.370E+05 | 2.030E+06 | 14.82 | 0.1542 | 0.910 | 0.375 | | 1.02 | **1.41** | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.76 | 1.384E+05 | 2.030E+06 | 14.67 | 0.1542 | 0.910 | 0.376 | | 1.00 | **1.37** | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.83 | 1.376E+05 | 2.030E+06 | 14.76 | 0.1542 | 0.910 | 0.377 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.88 | 1.368E+05 | 2.030E+06 | 14.84 | 0.1542 | 0.910 | 0.377 | | 0.98 | **1.35** | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 11.95 | 1.352E+05 | 2.030E+06 | 15.01 | 0.1542 | 0.910 | 0.378 | | 1.03 | **1.42** | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 12.01 | 1.309E+05 | 2.030E+06 | 15.50 | 0.1542 | 0.908 | 0.378 | | 0.94 | **1.29** | <= | 0.39 | 0.003 | 0.00 | 4.05 | 0.00 | 11.95 | 12.01 |
| 12.10 | 1.253E+05 | 2.030E+06 | 16.20 | 0.1542 | 0.907 | 0.379 | | 0.95 | **1.30** | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 12.15 | 1.214E+05 | 2.030E+06 | 16.72 | 0.1542 | 0.905 | 0.379 | | 0.92 | **1.27** | <= | 0.37 | 0.002 | 0.00 | 4.05 | 0.00 | 12.10 | 12.15 |
| 12.23 | 1.205E+05 | 2.030E+06 | 16.84 | 0.1542 | 0.905 | 0.380 | | 0.93 | **1.27** | <= | 0.39 | 0.004 | 0.00 | 4.05 | 0.00 | 12.15 | 12.23 |
| 12.28 | 1.227E+05 | 2.030E+06 | 16.54 | 0.1542 | 0.906 | 0.381 | | 0.91 | **1.25** | <= | 0.37 | 0.002 | 0.00 | 4.05 | 0.00 | 12.23 | 12.28 |
| 12.37 | 1.229E+05 | 2.030E+06 | 16.52 | 0.1542 | 0.906 | 0.382 | | 0.93 | **1.28** | <= | 0.40 | 0.004 | 0.00 | 4.04 | 0.00 | 12.28 | 12.37 |
| 12.41 | 1.260E+05 | 2.030E+06 | 16.12 | 0.1542 | 0.907 | 0.383 | | 1.00 | **1.37** | | 0.00 | 0.000 | 0.00 | 4.04 | 0.00 | | |
| 12.48 | 1.325E+05 | 2.030E+06 | 15.32 | 0.1542 | 0.909 | 0.384 | | 1.03 | **1.41** | | 0.00 | 0.000 | 0.00 | 4.04 | 0.00 | | |
| 12.54 | 1.377E+05 | 2.030E+06 | 14.74 | 0.1542 | 0.910 | 0.386 | | 1.16 | **1.59** | | 0.00 | 0.000 | 0.00 | 4.04 | 0.00 | | |
| 12.62 | 1.388E+05 | 2.030E+06 | 14.62 | 0.1542 | 0.911 | 0.387 | | 1.17 | **1.60** | | 0.00 | 0.000 | 0.00 | 4.04 | 0.00 | | |
| 12.67 | 1.390E+05 | 2.030E+06 | 14.61 | 0.1542 | 0.911 | 0.387 | | 1.26 | **1.74** | | 0.00 | 0.000 | 0.00 | 4.04 | 0.00 | | |
| 12.74 | 1.407E+05 | 2.030E+06 | 14.43 | 0.1542 | 0.911 | 0.388 | | 1.30 | **1.79** | | 0.00 | 0.000 | 0.00 | 4.04 | 0.00 | | |
| 12.82 | 1.422E+05 | 2.030E+06 | 14.27 | 0.1542 | 0.911 | 0.390 | | 1.33 | **1.83** | | 0.00 | 0.000 | 0.00 | 4.04 | 0.00 | | |
| 12.87 | 1.445E+05 | 2.030E+06 | 14.05 | 0.1542 | 0.912 | 0.390 | | 1.37 | **1.89** | | 0.00 | 0.000 | 0.00 | 4.04 | 0.00 | | |
| 12.93 | 1.499E+05 | 2.030E+06 | 13.54 | 0.1542 | 0.913 | 0.392 | | 1.48 | **2.04** | | 0.00 | 0.000 | 0.00 | 4.04 | 0.00 | | |
| 12.99 | 1.506E+05 | 2.030E+06 | 13.48 | 0.1542 | 0.914 | 0.392 | | 1.49 | **2.05** | | 0.00 | 0.000 | 0.00 | 4.04 | 0.00 | | |
| 13.08 | 1.514E+05 | 2.030E+06 | 13.41 | 0.1542 | 0.914 | 0.394 | | 0.63 | **0.86** | <= | 2.18 | 0.024 | 0.00 | 4.04 | 0.00 | 12.99 | 13.08 |
| 13.13 | 1.534E+05 | 2.030E+06 | 13.23 | 0.1542 | 0.914 | 0.394 | | 0.66 | **0.90** | <= | 0.85 | 0.005 | 0.00 | 4.02 | 0.00 | 13.08 | 13.13 |
| 13.21 | 1.558E+05 | 2.030E+06 | 13.03 | 0.1542 | 0.915 | 0.395 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.01 | 0.00 | | |
| 13.26 | 1.554E+05 | 2.030E+06 | 13.06 | 0.1542 | 0.915 | 0.396 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.01 | 0.00 | | |
| 13.33 | 1.550E+05 | 2.030E+06 | 13.10 | 0.1542 | 0.914 | 0.397 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.01 | 0.00 | | |
| 13.39 | 1.550E+05 | 2.030E+06 | 13.10 | 0.1542 | 0.915 | 0.397 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.01 | 0.00 | | |
| 13.49 | 1.565E+05 | 2.030E+06 | 12.97 | 0.1542 | 0.915 | 0.399 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.01 | 0.00 | | |
| 13.53 | 1.565E+05 | 2.030E+06 | 12.97 | 0.1542 | 0.915 | 0.399 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.01 | 0.00 | | |
| 13.61 | 1.582E+05 | 2.030E+06 | 12.83 | 0.1542 | 0.915 | 0.400 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.01 | 0.00 | | |
| 13.66 | 1.629E+05 | 2.030E+06 | 12.46 | 0.1542 | 0.916 | 0.401 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.01 | 0.00 | | |
| 13.72 | 1.588E+05 | 2.030E+06 | 12.78 | 0.1542 | 0.915 | 0.401 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.01 | 0.00 | | |
| 13.80 | 1.536E+05 | 2.030E+06 | 13.21 | 0.1542 | 0.914 | 0.402 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.01 | 0.00 | | |
| 13.86 | 1.500E+05 | 2.030E+06 | 13.53 | 0.1542 | 0.913 | 0.402 | | 1.44 | **1.98** | | 0.00 | 0.000 | 0.00 | 4.01 | 0.00 | | |
| 13.93 | 1.240E+05 | 2.030E+06 | 16.37 | 0.1542 | 0.906 | 0.399 | | 0.93 | **1.28** | <= | 0.42 | 0.004 | 0.00 | 4.01 | 0.00 | 13.86 | 13.93 |
| 14.02 | 1.047E+05 | 2.030E+06 | 19.38 | 0.1542 | 0.898 | 0.397 | | 0.86 | **1.19** | <= | 0.53 | 0.006 | 0.00 | 4.01 | 0.00 | 13.93 | 14.02 |
| 14.05 | 1.095E+05 | 2.030E+06 | 18.54 | 0.1542 | 0.900 | 0.398 | | 0.92 | **1.27** | <= | 0.33 | 0.001 | 0.00 | 4.00 | 0.00 | 14.02 | 14.05 |
| 14.11 | 1.171E+05 | 2.030E+06 | 17.34 | 0.1542 | 0.904 | 0.400 | | 1.00 | **1.38** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.20 | 1.247E+05 | 2.030E+06 | 16.27 | 0.1542 | 0.906 | 0.402 | | 1.01 | **1.39** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.24 | 1.282E+05 | 2.030E+06 | 15.83 | 0.1542 | 0.907 | 0.403 | | 1.13 | **1.56** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.32 | 1.349E+05 | 2.030E+06 | 15.05 | 0.1542 | 0.909 | 0.405 | | 1.14 | **1.56** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.37 | 1.377E+05 | 2.030E+06 | 14.74 | 0.1542 | 0.910 | 0.406 | | 1.38 | **1.90** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.45 | 1.459E+05 | 2.030E+06 | 13.92 | 0.1542 | 0.912 | 0.407 | | 1.71 | **2.35** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.51 | 1.519E+05 | 2.030E+06 | 13.36 | 0.1542 | 0.914 | 0.409 | | 1.97 | **2.70** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.57 | 1.574E+05 | 2.030E+06 | 12.90 | 0.1542 | 0.915 | 0.410 | | 2.01 | **2.77** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.64 | 1.619E+05 | 2.030E+06 | 12.53 | 0.1542 | 0.916 | 0.411 | | 2.01 | **2.76** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.73 | 1.672E+05 | 2.030E+06 | 12.14 | 0.1542 | 0.917 | 0.412 | | 2.00 | **2.75** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.77 | 1.690E+05 | 2.030E+06 | 12.01 | 0.1542 | 0.917 | 0.412 | | 2.00 | **2.75** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.85 | 1.708E+05 | 2.030E+06 | 11.89 | 0.1542 | 0.918 | 0.413 | | 1.99 | **2.74** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.91 | 1.711E+05 | 2.030E+06 | 11.86 | 0.1542 | 0.918 | 0.414 | | 1.99 | **2.74** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 14.99 | 1.733E+05 | 2.030E+06 | 11.72 | 0.1542 | 0.918 | 0.415 | | 1.99 | **2.73** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.04 | 1.741E+05 | 2.030E+06 | 11.66 | 0.1542 | 0.918 | 0.415 | | 1.98 | **2.73** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.11 | 1.757E+05 | 2.030E+06 | 11.56 | 0.1542 | 0.918 | 0.416 | | 1.98 | **2.73** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.16 | 1.785E+05 | 2.030E+06 | 11.37 | 0.1542 | 0.919 | 0.417 | | 1.98 | **2.72** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.26 | 1.851E+05 | 2.030E+06 | 10.97 | 0.1542 | 0.920 | 0.418 | | 1.97 | **2.71** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.31 | 1.879E+05 | 2.030E+06 | 10.80 | 0.1542 | 0.920 | 0.419 | | 1.97 | **2.71** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.37 | 1.915E+05 | 2.030E+06 | 10.60 | 0.1542 | 0.921 | 0.419 | | 1.96 | **2.70** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.45 | 1.964E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.420 | | 1.96 | **2.70** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.52 | 2.015E+05 | 2.030E+06 | 10.08 | 0.1542 | 0.922 | 0.421 | | 2.01 | **2.76** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.57 | 2.057E+05 | 2.030E+06 | 9.87 | 0.1542 | 0.923 | 0.422 | | 2.06 | **2.83** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.62 | 2.084E+05 | 2.030E+06 | 9.74 | 0.1542 | 0.924 | 0.423 | | 2.08 | **2.87** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.71 | 2.103E+05 | 2.030E+06 | 9.65 | 0.1542 | 0.924 | 0.424 | | 2.11 | **2.90** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.76 | 2.112E+05 | 2.030E+06 | 9.61 | 0.1542 | 0.924 | 0.424 | | 2.09 | **2.87** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.82 | 2.102E+05 | 2.030E+06 | 9.66 | 0.1542 | 0.924 | 0.425 | | 2.04 | **2.80** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.88 | 2.085E+05 | 2.030E+06 | 9.74 | 0.1542 | 0.924 | 0.425 | | 1.97 | **2.71** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 15.95 | 2.062E+05 | 2.030E+06 | 9.85 | 0.1542 | 0.923 | 0.425 | | 1.94 | **2.67** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.03 | 2.028E+05 | 2.030E+06 | 10.01 | 0.1542 | 0.922 | 0.425 | | 1.94 | **2.67** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.11 | 1.858E+05 | 2.030E+06 | 10.93 | 0.1542 | 0.920 | 0.425 | | 1.94 | **2.67** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.14 | 1.777E+05 | 2.030E+06 | 11.42 | 0.1542 | 0.919 | 0.425 | | 1.94 | **2.67** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.22 | 1.777E+05 | 2.030E+06 | 11.43 | 0.1542 | 0.919 | 0.425 | | 1.94 | **2.67** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.29 | 1.796E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.426 | | 1.94 | **2.66** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.34 | 1.811E+05 | 2.030E+06 | 11.21 | 0.1542 | 0.919 | 0.426 | | 1.93 | **2.66** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.41 | 1.816E+05 | 2.030E+06 | 11.18 | 0.1542 | 0.919 | 0.427 | | 1.93 | **2.66** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.48 | 1.819E+05 | 2.030E+06 | 11.16 | 0.1542 | 0.919 | 0.427 | | 1.93 | **2.65** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.55 | 1.830E+05 | 2.030E+06 | 11.09 | 0.1542 | 0.920 | 0.428 | | 1.93 | **2.65** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.61 | 1.844E+05 | 2.030E+06 | 11.01 | 0.1542 | 0.920 | 0.429 | | 1.92 | **2.65** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.68 | 1.862E+05 | 2.030E+06 | 10.90 | 0.1542 | 0.920 | 0.429 | | 1.92 | **2.64** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.73 | 1.872E+05 | 2.030E+06 | 10.84 | 0.1542 | 0.920 | 0.430 | | 1.92 | **2.64** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.80 | 1.885E+05 | 2.030E+06 | 10.77 | 0.1542 | 0.920 | 0.430 | | 1.92 | **2.64** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.87 | 1.888E+05 | 2.030E+06 | 10.75 | 0.1542 | 0.921 | 0.431 | | 1.91 | **2.63** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 16.93 | 1.894E+05 | 2.030E+06 | 10.72 | 0.1542 | 0.921 | 0.431 | | 1.91 | **2.63** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.00 | 1.899E+05 | 2.030E+06 | 10.69 | 0.1542 | 0.921 | 0.432 | | 1.91 | **2.63** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.08 | 1.914E+05 | 2.030E+06 | 10.60 | 0.1542 | 0.921 | 0.432 | | 1.91 | **2.62** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.13 | 1.927E+05 | 2.030E+06 | 10.53 | 0.1542 | 0.921 | 0.433 | | 1.90 | **2.62** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.21 | 1.933E+05 | 2.030E+06 | 10.50 | 0.1542 | 0.921 | 0.433 | | 1.90 | **2.62** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.27 | 1.939E+05 | 2.030E+06 | 10.47 | 0.1542 | 0.921 | 0.434 | | 1.90 | **2.61** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.34 | 1.942E+05 | 2.030E+06 | 10.45 | 0.1542 | 0.921 | 0.434 | | 1.90 | **2.61** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.40 | 1.951E+05 | 2.030E+06 | 10.41 | 0.1542 | 0.921 | 0.435 | | 1.90 | **2.61** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.48 | 1.972E+05 | 2.030E+06 | 10.30 | 0.1542 | 0.922 | 0.435 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.53 | 1.972E+05 | 2.030E+06 | 10.30 | 0.1542 | 0.922 | 0.436 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.60 | 1.969E+05 | 2.030E+06 | 10.31 | 0.1542 | 0.922 | 0.436 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.67 | 1.969E+05 | 2.030E+06 | 10.31 | 0.1542 | 0.922 | 0.437 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.74 | 1.972E+05 | 2.030E+06 | 10.29 | 0.1542 | 0.922 | 0.437 | | 1.89 | **2.59** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.80 | 1.981E+05 | 2.030E+06 | 10.25 | 0.1542 | 0.922 | 0.438 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.86 | 1.990E+05 | 2.030E+06 | 10.20 | 0.1542 | 0.922 | 0.438 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.94 | 1.996E+05 | 2.030E+06 | 10.17 | 0.1542 | 0.922 | 0.438 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 17.98 | 1.996E+05 | 2.030E+06 | 10.17 | 0.1542 | 0.922 | 0.439 | | 1.88 | **2.58** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.05 | 1.997E+05 | 2.030E+06 | 10.17 | 0.1542 | 0.922 | 0.439 | | 1.88 | **2.58** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.12 | 1.995E+05 | 2.030E+06 | 10.17 | 0.1542 | 0.922 | 0.440 | | 1.87 | **2.58** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.19 | 1.985E+05 | 2.030E+06 | 10.23 | 0.1542 | 0.922 | 0.440 | | 1.87 | **2.58** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.25 | 1.963E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.440 | | 1.87 | **2.58** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.34 | 1.924E+05 | 2.030E+06 | 10.55 | 0.1542 | 0.921 | 0.440 | | 1.87 | **2.57** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.39 | 1.906E+05 | 2.030E+06 | 10.65 | 0.1542 | 0.921 | 0.441 | | 1.90 | **2.61** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.46 | 1.888E+05 | 2.030E+06 | 10.75 | 0.1542 | 0.921 | 0.441 | | 1.79 | **2.46** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.51 | 1.876E+05 | 2.030E+06 | 10.82 | 0.1542 | 0.920 | 0.441 | | 1.66 | **2.28** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.61 | 1.880E+05 | 2.030E+06 | 10.80 | 0.1542 | 0.920 | 0.442 | | 1.37 | **1.89** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.65 | 1.917E+05 | 2.030E+06 | 10.59 | 0.1542 | 0.921 | 0.442 | | 1.31 | **1.80** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.71 | 1.890E+05 | 2.030E+06 | 10.74 | 0.1542 | 0.921 | 0.442 | | 1.16 | **1.60** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.78 | 1.785E+05 | 2.030E+06 | 11.37 | 0.1542 | 0.919 | 0.442 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.86 | 1.836E+05 | 2.030E+06 | 11.06 | 0.1542 | 0.920 | 0.443 | | 0.98 | **1.35** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.92 | 1.882E+05 | 2.030E+06 | 10.79 | 0.1542 | 0.920 | 0.444 | | 1.03 | **1.41** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 18.96 | 1.918E+05 | 2.030E+06 | 10.59 | 0.1542 | 0.921 | 0.444 | | 1.09 | **1.50** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.03 | 1.974E+05 | 2.030E+06 | 10.28 | 0.1542 | 0.922 | 0.445 | | 1.02 | **1.41** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.11 | 2.022E+05 | 2.030E+06 | 10.04 | 0.1542 | 0.922 | 0.446 | | 1.27 | **1.75** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.17 | 2.054E+05 | 2.030E+06 | 9.89 | 0.1542 | 0.923 | 0.446 | | 1.34 | **1.84** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.23 | 2.092E+05 | 2.030E+06 | 9.70 | 0.1542 | 0.924 | 0.447 | | 1.41 | **1.95** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.30 | 2.121E+05 | 2.030E+06 | 9.57 | 0.1542 | 0.925 | 0.448 | | 1.47 | **2.02** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.36 | 2.140E+05 | 2.030E+06 | 9.49 | 0.1542 | 0.925 | 0.448 | | 1.49 | **2.05** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.45 | 2.138E+05 | 2.030E+06 | 9.50 | 0.1542 | 0.925 | 0.449 | | 1.47 | **2.02** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.49 | 2.136E+05 | 2.030E+06 | 9.50 | 0.1542 | 0.925 | 0.449 | | 1.45 | **1.99** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.58 | 2.120E+05 | 2.030E+06 | 9.58 | 0.1542 | 0.925 | 0.449 | | 1.37 | **1.89** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.63 | 2.118E+05 | 2.030E+06 | 9.58 | 0.1542 | 0.925 | 0.449 | | 1.35 | **1.85** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.71 | 1.991E+05 | 2.030E+06 | 10.19 | 0.1542 | 0.922 | 0.448 | | 1.14 | **1.56** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.76 | 1.824E+05 | 2.030E+06 | 11.13 | 0.1542 | 0.920 | 0.448 | | 0.97 | **1.34** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.84 | 1.860E+05 | 2.030E+06 | 10.92 | 0.1542 | 0.920 | 0.448 | | 1.02 | **1.40** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.89 | 1.890E+05 | 2.030E+06 | 10.74 | 0.1542 | 0.921 | 0.449 | | 1.06 | **1.46** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 19.95 | 1.910E+05 | 2.030E+06 | 10.63 | 0.1542 | 0.921 | 0.449 | | 1.06 | **1.45** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 20.03 | 1.931E+05 | 2.030E+06 | 10.51 | 0.1542 | 0.921 | 0.450 | | 1.05 | **1.44** | | 0.00 | 0.000 | 0.00 | 4.00 | 0.00 | | |
| 20.10 | 1.943E+05 | 2.030E+06 | 10.45 | 0.1542 | 0.921 | 0.450 | | 0.94 | **1.30** | <= | 0.29 | 0.002 | 0.00 | 4.00 | 0.00 | 20.03 | 20.10 |
| 20.16 | 1.947E+05 | 2.030E+06 | 10.43 | 0.1542 | 0.921 | 0.450 | | 0.93 | **1.27** | <= | 0.27 | 0.002 | 0.00 | 4.00 | 0.00 | 20.10 | 20.16 |
| 20.22 | 1.951E+05 | 2.030E+06 | 10.40 | 0.1542 | 0.921 | 0.451 | | 0.88 | **1.22** | <= | 0.23 | 0.002 | 0.00 | 4.00 | 0.00 | 20.16 | 20.22 |
| 20.30 | 1.955E+05 | 2.030E+06 | 10.38 | 0.1542 | 0.921 | 0.451 | | 0.86 | **1.18** | <= | 0.40 | 0.004 | 0.00 | 3.99 | 0.00 | 20.22 | 20.30 |
| 20.34 | 1.956E+05 | 2.030E+06 | 10.38 | 0.1542 | 0.921 | 0.451 | | 0.85 | **1.16** | <= | 0.38 | 0.002 | 0.00 | 3.99 | 0.00 | 20.30 | 20.34 |
| 20.43 | 1.951E+05 | 2.030E+06 | 10.40 | 0.1542 | 0.921 | 0.452 | | 0.81 | **1.11** | <= | 0.32 | 0.003 | 0.00 | 3.99 | 0.00 | 20.34 | 20.43 |
| 20.47 | 1.945E+05 | 2.030E+06 | 10.43 | 0.1542 | 0.921 | 0.452 | | 0.80 | **1.11** | <= | 0.32 | 0.002 | 0.00 | 3.98 | 0.00 | 20.43 | 20.47 |
| 20.55 | 1.931E+05 | 2.030E+06 | 10.51 | 0.1542 | 0.921 | 0.452 | | 0.87 | **1.20** | <= | 0.44 | 0.004 | 0.00 | 3.98 | 0.00 | 20.47 | 20.55 |
| 20.61 | 1.919E+05 | 2.030E+06 | 10.58 | 0.1542 | 0.921 | 0.452 | | 0.84 | **1.15** | <= | 0.39 | 0.003 | 0.00 | 3.98 | 0.00 | 20.55 | 20.61 |
| 20.68 | 1.904E+05 | 2.030E+06 | 10.66 | 0.1542 | 0.921 | 0.453 | | 0.88 | **1.21** | <= | 0.24 | 0.002 | 0.00 | 3.98 | 0.00 | 20.61 | 20.68 |
| 20.73 | 1.895E+05 | 2.030E+06 | 10.71 | 0.1542 | 0.921 | 0.453 | | 0.93 | **1.28** | <= | 0.31 | 0.002 | 0.00 | 3.97 | 0.00 | 20.68 | 20.73 |
| 20.81 | 1.819E+05 | 2.030E+06 | 11.16 | 0.1542 | 0.919 | 0.453 | | 0.94 | **1.29** | <= | 0.34 | 0.003 | 0.00 | 3.97 | 0.00 | 20.73 | 20.81 |
| 20.88 | 1.648E+05 | 2.030E+06 | 12.31 | 0.1542 | 0.917 | 0.452 | | 0.80 | **1.10** | <= | 0.37 | 0.003 | 0.00 | 3.97 | 0.00 | 20.81 | 20.88 |
| 20.93 | 1.687E+05 | 2.030E+06 | 12.03 | 0.1542 | 0.917 | 0.452 | | 0.84 | **1.16** | <= | 0.44 | 0.003 | 0.00 | 3.97 | 0.00 | 20.88 | 20.93 |
| 21.01 | 1.732E+05 | 2.030E+06 | 11.72 | 0.1542 | 0.918 | 0.453 | | 0.85 | **1.18** | <= | 0.46 | 0.004 | 0.00 | 3.96 | 0.00 | 20.93 | 21.01 |
| 21.10 | 1.764E+05 | 2.030E+06 | 11.50 | 0.1542 | 0.919 | 0.454 | | 0.86 | **1.18** | <= | 0.46 | 0.005 | 0.00 | 3.96 | 0.00 | 21.01 | 21.10 |
| 21.13 | 1.774E+05 | 2.030E+06 | 11.44 | 0.1542 | 0.919 | 0.454 | | 0.84 | **1.15** | <= | 0.42 | 0.002 | 0.00 | 3.95 | 0.00 | 21.10 | 21.13 |
| 21.21 | 1.782E+05 | 2.030E+06 | 11.39 | 0.1542 | 0.919 | 0.454 | | 0.86 | **1.18** | <= | 0.46 | 0.004 | 0.00 | 3.95 | 0.00 | 21.13 | 21.21 |
| 21.27 | 1.778E+05 | 2.030E+06 | 11.41 | 0.1542 | 0.919 | 0.455 | | 0.85 | **1.17** | <= | 0.44 | 0.003 | 0.00 | 3.95 | 0.00 | 21.21 | 21.27 |
| 21.33 | 1.766E+05 | 2.030E+06 | 11.49 | 0.1542 | 0.919 | 0.455 | | 0.83 | **1.15** | <= | 0.41 | 0.003 | 0.00 | 3.94 | 0.00 | 21.27 | 21.33 |
| 21.40 | 1.762E+05 | 2.030E+06 | 11.52 | 0.1542 | 0.919 | 0.455 | | 0.83 | **1.14** | <= | 0.40 | 0.003 | 0.00 | 3.94 | 0.00 | 21.33 | 21.40 |
| 21.47 | 1.754E+05 | 2.030E+06 | 11.58 | 0.1542 | 0.918 | 0.455 | | 0.86 | **1.19** | <= | 0.48 | 0.004 | 0.00 | 3.94 | 0.00 | 21.40 | 21.47 |
| 21.53 | 1.755E+05 | 2.030E+06 | 11.57 | 0.1542 | 0.918 | 0.456 | | 0.86 | **1.18** | <= | 0.46 | 0.003 | 0.00 | 3.93 | 0.00 | 21.47 | 21.53 |
| 21.60 | 1.743E+05 | 2.030E+06 | 11.65 | 0.1542 | 0.918 | 0.456 | | 0.88 | **1.20** | <= | 0.26 | 0.002 | 0.00 | 3.93 | 0.00 | 21.53 | 21.60 |
| 21.66 | 1.732E+05 | 2.030E+06 | 11.72 | 0.1542 | 0.918 | 0.456 | | 0.90 | **1.23** | <= | 0.30 | 0.002 | 0.00 | 3.93 | 0.00 | 21.60 | 21.66 |
| 21.73 | 1.730E+05 | 2.030E+06 | 11.74 | 0.1542 | 0.918 | 0.456 | | 0.93 | **1.28** | <= | 0.34 | 0.003 | 0.00 | 3.93 | 0.00 | 21.66 | 21.73 |
| 21.80 | 1.736E+05 | 2.030E+06 | 11.69 | 0.1542 | 0.918 | 0.457 | | 0.98 | **1.35** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 21.85 | 1.733E+05 | 2.030E+06 | 11.71 | 0.1542 | 0.918 | 0.457 | | 1.03 | **1.42** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 21.93 | 1.744E+05 | 2.030E+06 | 11.64 | 0.1542 | 0.918 | 0.457 | | 1.05 | **1.44** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 22.00 | 1.764E+05 | 2.030E+06 | 11.51 | 0.1542 | 0.919 | 0.458 | | 0.55 | **0.76** | <= | 2.07 | 0.017 | 0.00 | 3.92 | 0.00 | 21.93 | 22.00 |
| 22.07 | 1.782E+05 | 2.030E+06 | 11.39 | 0.1542 | 0.919 | 0.458 | | 0.57 | **0.79** | <= | 2.04 | 0.017 | 0.00 | 3.91 | 0.00 | 22.00 | 22.07 |
| 22.14 | 1.793E+05 | 2.030E+06 | 11.32 | 0.1542 | 0.919 | 0.458 | | 0.60 | **0.83** | <= | 2.01 | 0.017 | 0.00 | 3.89 | 0.00 | 22.07 | 22.14 |
| 22.18 | 1.790E+05 | 2.030E+06 | 11.34 | 0.1542 | 0.919 | 0.459 | | 0.60 | **0.83** | <= | 2.01 | 0.010 | 0.00 | 3.87 | 0.00 | 22.14 | 22.18 |
| 22.25 | 1.777E+05 | 2.030E+06 | 11.42 | 0.1542 | 0.919 | 0.459 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.86 | 0.00 | | |
| 22.33 | 1.740E+05 | 2.030E+06 | 11.67 | 0.1542 | 0.918 | 0.459 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.86 | 0.00 | | |
| 22.38 | 1.720E+05 | 2.030E+06 | 11.80 | 0.1542 | 0.918 | 0.459 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.86 | 0.00 | | |
| 22.44 | 1.695E+05 | 2.030E+06 | 11.97 | 0.1542 | 0.917 | 0.459 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.86 | 0.00 | | |
| 22.51 | 1.669E+05 | 2.030E+06 | 12.16 | 0.1542 | 0.917 | 0.459 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.86 | 0.00 | | |
| 22.59 | 1.644E+05 | 2.030E+06 | 12.35 | 0.1542 | 0.916 | 0.459 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.86 | 0.00 | | |
| 22.64 | 1.612E+05 | 2.030E+06 | 12.59 | 0.1542 | 0.916 | 0.459 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.86 | 0.00 | | |
| 22.70 | 1.476E+05 | 2.030E+06 | 13.75 | 0.1542 | 0.913 | 0.458 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.86 | 0.00 | | |
| 23.03 | 1.470E+05 | 2.030E+06 | 13.81 | 0.1542 | 0.913 | 0.459 | | 0.75 | **1.03** | <= | 0.71 | 0.028 | 0.00 | 3.86 | 0.00 | 22.70 | 23.03 |
| 23.03 | 1.467E+05 | 2.030E+06 | 13.84 | 0.1542 | 0.913 | 0.459 | | 0.74 | **1.01** | <= | 0.62 | 0.000 | 0.00 | 3.83 | 0.00 | 23.03 | 23.03 |
| 23.10 | 1.538E+05 | 2.030E+06 | 13.20 | 0.1542 | 0.914 | 0.460 | | 0.74 | **1.01** | <= | 0.54 | 0.005 | 0.00 | 3.83 | 0.00 | 23.03 | 23.10 |
| 23.17 | 1.603E+05 | 2.030E+06 | 12.66 | 0.1542 | 0.916 | 0.461 | | 0.72 | **0.99** | <= | 1.10 | 0.009 | 0.00 | 3.83 | 0.00 | 23.10 | 23.17 |
| 23.24 | 1.654E+05 | 2.030E+06 | 12.27 | 0.1542 | 0.917 | 0.462 | | 0.75 | **1.03** | <= | 0.55 | 0.005 | 0.00 | 3.82 | 0.00 | 23.17 | 23.24 |
| 23.30 | 1.697E+05 | 2.030E+06 | 11.96 | 0.1542 | 0.917 | 0.462 | | 0.75 | **1.04** | <= | 0.56 | 0.004 | 0.00 | 3.82 | 0.00 | 23.24 | 23.30 |
| 23.37 | 1.751E+05 | 2.030E+06 | 11.60 | 0.1542 | 0.918 | 0.463 | | 0.71 | **0.98** | <= | 1.00 | 0.008 | 0.00 | 3.81 | 0.00 | 23.30 | 23.37 |
| 23.44 | 1.797E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.464 | | 0.73 | **1.00** | <= | 0.48 | 0.004 | 0.00 | 3.80 | 0.00 | 23.37 | 23.44 |
| 23.51 | 1.831E+05 | 2.030E+06 | 11.08 | 0.1542 | 0.920 | 0.464 | | 0.75 | **1.04** | <= | 0.55 | 0.005 | 0.00 | 3.80 | 0.00 | 23.44 | 23.51 |
| 23.57 | 1.846E+05 | 2.030E+06 | 11.00 | 0.1542 | 0.920 | 0.465 | | 0.77 | **1.06** | <= | 0.59 | 0.004 | 0.00 | 3.80 | 0.00 | 23.51 | 23.57 |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

TEST LOCATION: **CPT-1**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

D (ft): 1 | Magnitude: 6.62 | Accleration: 0.606 g's | Magnitude Scaling Factor: 1.38
Groundwater Level: 10 feet

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A (ft²): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000
Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft²): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00
Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.62 | 145.64 | 1.6083 | 112.94 | 1.66 | 1.47% | 1.491 | 0.62 | 94.08 | 2.03 | 1.34 | 132 | 0.296 | 0.331 | 0.94 | 0.425 | 0.505 | 918.15 | 4.523 | 1.864E+05 | 2.030E+06 | 10.89 | 0.1542 | 0.920 | 0.465 | | 0.71 | 0.98 | <= | 0.95 | 0.006 | 0.00 | 3.79 | 0.00 | 23.57 | 23.62 |
| 23.70 | 146.03 | 1.6141 | 115.38 | 1.74 | 1.51% | 1.529 | 0.62 | 95.87 | 2.03 | 1.34 | 135 | 0.310 | 0.349 | 0.94 | 0.427 | 0.506 | 926.11 | 4.535 | 1.891E+05 | 2.030E+06 | 10.73 | 0.1542 | 0.921 | 0.466 | | 0.75 | 1.03 | <= | 0.52 | 0.005 | 0.00 | 3.79 | 0.00 | 23.62 | 23.70 |
| 23.78 | 146.23 | 1.6200 | 116.65 | 1.78 | 1.53% | 1.547 | 0.62 | 96.66 | 2.03 | 1.34 | 137 | 0.317 | 0.317 | 0.94 | 0.430 | 0.506 | 929.95 | 4.541 | 1.904E+05 | 2.030E+06 | 10.66 | 0.1542 | 0.921 | 0.466 | | 0.68 | 0.94 | <= | 0.78 | 0.007 | 0.00 | 3.78 | 0.00 | 23.70 | 23.78 |
| 23.82 | 146.34 | 1.6229 | 118.51 | 1.80 | 1.52% | 1.540 | 0.62 | 98.08 | 2.02 | 1.33 | 138 | 0.324 | 0.324 | 0.94 | 0.431 | 0.506 | 931.84 | 4.545 | 1.911E+05 | 2.030E+06 | 10.62 | 0.1542 | 0.921 | 0.466 | | 0.70 | 0.96 | <= | 0.83 | 0.004 | 0.00 | 3.77 | 0.00 | 23.78 | 23.82 |
| 23.89 | 146.24 | 1.6280 | 120.17 | 1.77 | 1.47% | 1.493 | 0.61 | 99.23 | 2.01 | 1.32 | 138 | 0.323 | 0.325 | 0.94 | 0.433 | 0.506 | 929.00 | 4.542 | 1.900E+05 | 2.030E+06 | 10.68 | 0.1542 | 0.921 | 0.466 | | 0.70 | 0.96 | <= | 0.84 | 0.007 | 0.00 | 3.77 | 0.00 | 23.82 | 23.89 |
| 23.96 | 145.98 | 1.6331 | 122.12 | 1.69 | 1.38% | 1.403 | 0.60 | 100.61 | 1.99 | 1.28 | 137 | 0.317 | 0.321 | 0.94 | 0.436 | 0.507 | 921.18 | 4.534 | 1.872E+05 | 2.030E+06 | 10.85 | 0.1542 | 0.920 | 0.466 | | 0.69 | 0.95 | <= | 0.81 | 0.007 | 0.00 | 3.76 | 0.00 | 23.89 | 23.96 |
| 24.04 | 145.65 | 1.6390 | 126.51 | 1.60 | 1.26% | 1.281 | 0.59 | 103.98 | 1.95 | 1.24 | 137 | 0.317 | 0.317 | 0.94 | 0.438 | 0.507 | 911.92 | 4.523 | 1.838E+05 | 2.030E+06 | 11.04 | 0.1542 | 0.920 | 0.466 | | 0.68 | 0.94 | <= | 0.77 | 0.007 | 0.00 | 3.75 | 0.00 | 23.96 | 24.04 |
| 24.09 | 145.43 | 1.6426 | 129.64 | 1.54 | 1.19% | 1.203 | 0.58 | 106.40 | 1.92 | 1.21 | 137 | 0.319 | 0.319 | 0.94 | 0.440 | 0.507 | 905.45 | 4.516 | 1.815E+05 | 2.030E+06 | 11.18 | 0.1542 | 0.919 | 0.466 | | 0.68 | 0.94 | <= | 0.78 | 0.005 | 0.00 | 3.75 | 0.00 | 24.04 | 24.09 |
| 24.17 | 145.02 | 1.6484 | 135.40 | 1.44 | 1.06% | 1.077 | 0.57 | 110.88 | 1.88 | 1.17 | 138 | 0.324 | 0.324 | 0.94 | 0.442 | 0.507 | 894.10 | 4.504 | 1.775E+05 | 2.030E+06 | 11.44 | 0.1542 | 0.919 | 0.466 | | 0.70 | 0.96 | <= | 0.83 | 0.008 | 0.00 | 3.74 | 0.00 | 24.09 | 24.17 |
| 24.23 | 144.79 | 1.6527 | 138.33 | 1.38 | 1.00% | 1.010 | 0.56 | 113.07 | 1.85 | 1.15 | 138 | 0.326 | 0.326 | 0.94 | 0.444 | 0.508 | 886.90 | 4.497 | 1.749E+05 | 2.030E+06 | 11.60 | 0.1542 | 0.918 | 0.466 | | 0.70 | 0.96 | <= | 0.84 | 0.006 | 0.00 | 3.73 | 0.00 | 24.17 | 24.23 |
| 24.29 | 144.49 | 1.6571 | 140.87 | 1.32 | 0.94% | 0.948 | 0.56 | 114.94 | 1.83 | 1.13 | 139 | 0.327 | 0.327 | 0.94 | 0.446 | 0.508 | 879.38 | 4.487 | 1.723E+05 | 2.030E+06 | 11.78 | 0.1542 | 0.918 | 0.466 | | 0.70 | 0.97 | <= | 0.85 | 0.006 | 0.00 | 3.73 | 0.00 | 24.23 | 24.29 |
| 24.34 | 144.40 | 1.6607 | 140.77 | 1.30 | 0.92% | 0.935 | 0.55 | 114.66 | 1.82 | 1.12 | 138 | 0.325 | 0.325 | 0.94 | 0.447 | 0.508 | 876.80 | 4.484 | 1.714E+05 | 2.030E+06 | 11.84 | 0.1542 | 0.918 | 0.466 | | 0.70 | 0.96 | <= | 0.83 | 0.005 | 0.00 | 3.72 | 0.00 | 24.29 | 24.34 |
| 24.44 | 144.23 | 1.6679 | 138.13 | 1.28 | 0.93% | 0.938 | 0.56 | 112.10 | 1.83 | 1.13 | 136 | 0.313 | 0.313 | 0.94 | 0.451 | 0.508 | 874.17 | 4.479 | 1.706E+05 | 2.030E+06 | 11.90 | 0.1542 | 0.918 | 0.467 | | 0.67 | 0.92 | <= | 0.74 | 0.009 | 0.00 | 3.72 | 0.00 | 24.34 | 24.44 |
| 24.49 | 144.31 | 1.6715 | 136.67 | 1.30 | 0.95% | 0.963 | 0.56 | 110.71 | 1.84 | 1.14 | 135 | 0.310 | 0.310 | 0.94 | 0.452 | 0.509 | 876.80 | 4.482 | 1.715E+05 | 2.030E+06 | 11.83 | 0.1542 | 0.918 | 0.467 | | 0.66 | 0.91 | <= | 0.71 | 0.004 | 0.00 | 3.71 | 0.00 | 24.44 | 24.49 |
| 24.55 | 144.49 | 1.6758 | 131.00 | 1.35 | 1.03% | 1.044 | 0.57 | 105.84 | 1.88 | 1.17 | 133 | 0.298 | 0.314 | 0.94 | 0.454 | 0.509 | 883.18 | 4.487 | 1.738E+05 | 2.030E+06 | 11.68 | 0.1542 | 0.918 | 0.467 | | 0.67 | 0.93 | <= | 0.76 | 0.006 | 0.00 | 3.70 | 0.00 | 24.49 | 24.55 |
| 24.62 | 144.80 | 1.6809 | 123.00 | 1.44 | 1.17% | 1.187 | 0.59 | 99.06 | 1.94 | 1.23 | 130 | 0.285 | 0.338 | 0.94 | 0.456 | 0.509 | 894.10 | 4.497 | 1.778E+05 | 2.030E+06 | 11.42 | 0.1542 | 0.919 | 0.468 | | 0.72 | 0.99 | <= | 1.02 | 0.009 | 0.00 | 3.70 | 0.00 | 24.55 | 24.62 |
| 24.67 | 145.00 | 1.6845 | 114.80 | 1.51 | 1.32% | 1.335 | 0.61 | 92.20 | 2.00 | 1.30 | 128 | 0.273 | 0.325 | 0.94 | 0.458 | 0.509 | 902.13 | 4.503 | 1.807E+05 | 2.030E+06 | 11.23 | 0.1542 | 0.919 | 0.468 | | 0.69 | 0.95 | <= | 0.90 | 0.005 | 0.00 | 3.69 | 0.00 | 24.62 | 24.67 |
| 24.76 | 143.10 | 1.6910 | 96.83 | 1.24 | 1.28% | 1.303 | 0.62 | 77.32 | 2.05 | 1.37 | 113 | 0.214 | 0.344 | 0.94 | 0.461 | 0.510 | 868.80 | 4.444 | 1.698E+05 | 2.030E+06 | 11.95 | 0.1542 | 0.917 | 0.467 | | 0.74 | 1.01 | <= | 0.55 | 0.006 | 0.00 | 3.69 | 0.00 | 24.67 | 24.76 |
| 24.81 | 142.36 | 1.6945 | 84.82 | 1.17 | 1.38% | 1.408 | 0.64 | 67.45 | 2.12 | 1.49 | 106 | 0.192 | 0.369 | 0.94 | 0.462 | 0.510 | 858.97 | 4.421 | 1.669E+05 | 2.030E+06 | 12.16 | 0.1542 | 0.917 | 0.467 | | 0.79 | 1.09 | <= | 0.79 | 0.005 | 0.00 | 3.68 | 0.00 | 24.76 | 24.81 |
| 24.89 | 142.39 | 1.7002 | 67.54 | 1.27 | 1.88% | 1.929 | 0.69 | 53.28 | 2.29 | 1.90 | 107 | 0.194 | 0.415 | 0.94 | 0.465 | 0.510 | 872.85 | 4.422 | 1.723E+05 | 2.030E+06 | 11.78 | 0.1542 | 0.918 | 0.468 | | 0.89 | 1.22 | <= | 0.30 | 0.003 | 0.00 | 3.67 | 0.00 | 24.81 | 24.89 |
| 24.94 | 142.08 | 1.7038 | 56.50 | 1.29 | 2.28% | 2.354 | 0.73 | 44.27 | 2.41 | 2.33 | 108 | 0.198 | 0.228 | 0.94 | 0.466 | 0.510 | 875.49 | 4.412 | 1.737E+05 | 2.030E+06 | 11.69 | 0.1542 | 0.918 | 0.468 | | 0.49 | 0.67 | <= | 2.16 | 0.013 | 0.00 | 3.67 | 0.00 | 24.89 | 24.94 |
| 25.03 | 141.06 | 1.7101 | 39.42 | 1.26 | 3.20% | 3.341 | 0.80 | 30.38 | 2.63 | 3.53 | 117 | 0.227 | 0.285 | 0.94 | 0.469 | 0.511 | 871.51 | 4.381 | 1.734E+05 | 2.030E+06 | 11.71 | 0.1542 | 0.918 | 0.469 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.07 | 140.43 | 1.7129 | 34.05 | 1.22 | 3.58% | 3.773 | 0.82 | 26.02 | 2.72 | 4.14 | 137 | 0.317 | 0.317 | 0.94 | 0.470 | 0.511 | 866.05 | 4.361 | 1.720E+05 | 2.030E+06 | 11.80 | 0.1542 | 0.918 | 0.469 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.13 | 138.86 | 1.7171 | 22.82 | 1.12 | 4.91% | 5.307 | 0.90 | 16.95 | 2.96 | 6.32 | 209 | 0.924 | 0.924 | 0.94 | 0.472 | 0.511 | 851.58 | 4.312 | 1.682E+05 | 2.030E+06 | 12.07 | 0.1542 | 0.917 | 0.469 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.21 | 137.70 | 1.7226 | 19.30 | 1.01 | 5.23% | 5.746 | 0.92 | 14.08 | 3.05 | 7.27 | 240 | 1.364 | 1.364 | 0.94 | 0.475 | 0.511 | 834.10 | 4.276 | 1.627E+05 | 2.030E+06 | 12.48 | 0.1542 | 0.916 | 0.468 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.26 | 136.99 | 1.7260 | 18.32 | 0.94 | 5.13% | 5.665 | 0.93 | 13.28 | 3.06 | 7.46 | 246 | 1.466 | 1.466 | 0.94 | 0.476 | 0.511 | 821.95 | 4.254 | 1.588E+05 | 2.030E+06 | 12.78 | 0.1542 | 0.915 | 0.468 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.35 | 135.30 | 1.7321 | 15.20 | 0.79 | 5.20% | 5.866 | 0.95 | 10.75 | 3.14 | 8.48 | 280 | 2.121 | 2.121 | 0.94 | 0.479 | 0.512 | 792.54 | 4.202 | 1.495E+05 | 2.030E+06 | 13.58 | 0.1542 | 0.913 | 0.467 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.41 | 133.92 | 1.7361 | 13.64 | 0.68 | 4.99% | 5.712 | 0.96 | 9.48 | 3.18 | 8.96 | 296 | 2.487 | 2.487 | 0.94 | 0.481 | 0.512 | 767.17 | 4.159 | 1.415E+05 | 2.030E+06 | 14.34 | 0.1542 | 0.911 | 0.467 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.48 | 132.97 | 1.7408 | 13.05 | 0.60 | 4.60% | 5.305 | 0.96 | 8.99 | 3.18 | 8.94 | 295 | 2.468 | 2.468 | 0.94 | 0.483 | 0.512 | 746.00 | 4.130 | 1.348E+05 | 2.030E+06 | 15.06 | 0.1542 | 0.909 | 0.466 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.57 | 131.77 | 1.7467 | 12.86 | 0.52 | 4.04% | 4.679 | 0.95 | 8.81 | 3.15 | 8.58 | 283 | 2.192 | 2.192 | 0.94 | 0.486 | 0.513 | 721.79 | 4.092 | 1.273E+05 | 2.030E+06 | 15.95 | 0.1542 | 0.907 | 0.465 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.61 | 131.46 | 1.7494 | 12.17 | 0.50 | 4.11% | 4.798 | 0.96 | 8.26 | 3.18 | 8.98 | 296 | 2.503 | 2.503 | 0.94 | 0.487 | 0.513 | 715.16 | 4.083 | 1.253E+05 | 2.030E+06 | 16.20 | 0.1542 | 0.907 | 0.465 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.66 | 131.32 | 1.7526 | 12.47 | 0.49 | 3.93% | 4.572 | 0.96 | 8.48 | 3.16 | 8.68 | 287 | 2.267 | 2.267 | 0.94 | 0.489 | 0.513 | 711.74 | 4.078 | 1.242E+05 | 2.030E+06 | 16.34 | 0.1542 | 0.906 | 0.465 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.74 | 132.40 | 1.7579 | 12.66 | 0.57 | 4.50% | 5.228 | 0.96 | 8.61 | 3.19 | 9.10 | 300 | 2.595 | 2.595 | 0.94 | 0.491 | 0.513 | 737.33 | 4.112 | 1.322E+05 | 2.030E+06 | 15.35 | 0.1542 | 0.909 | 0.466 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.79 | 133.03 | 1.7613 | 12.95 | 0.61 | 4.71% | 5.452 | 0.97 | 8.82 | 3.19 | 9.13 | 301 | 2.626 | 2.626 | 0.94 | 0.493 | 0.513 | 748.80 | 4.131 | 1.357E+05 | 2.030E+06 | 14.96 | 0.1542 | 0.910 | 0.467 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.86 | 134.52 | 1.7660 | 13.93 | 0.73 | 5.24% | 6.001 | 0.96 | 9.57 | 3.19 | 9.10 | 300 | 2.603 | 2.603 | 0.94 | 0.495 | 0.514 | 779.18 | 4.178 | 1.453E+05 | 2.030E+06 | 13.97 | 0.1542 | 0.912 | 0.469 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 25.93 | 136.03 | 1.7707 | 17.15 | 0.84 | 4.90% | 5.462 | 0.93 | 12.07 | 3.08 | 7.72 | 255 | 1.617 | 1.617 | 0.94 | 0.497 | 0.514 | 802.92 | 4.225 | 1.526E+05 | 2.030E+06 | 13.30 | 0.1542 | 0.914 | 0.470 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 26.02 | 138.38 | 1.7770 | 23.99 | 1.03 | 4.29% | 4.637 | 0.88 | 17.39 | 2.91 | 5.82 | 192 | 0.739 | 0.739 | 0.94 | 0.500 | 0.514 | 837.41 | 4.298 | 1.632E+05 | 2.030E+06 | 12.44 | 0.1542 | 0.916 | 0.471 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 26.06 | 139.35 | 1.7797 | 29.07 | 1.11 | 3.82% | 4.067 | 0.85 | 21.34 | 2.81 | 4.83 | 159 | 0.457 | 0.457 | 0.94 | 0.501 | 0.514 | 850.07 | 4.328 | 1.670E+05 | 2.030E+06 | 12.16 | 0.1542 | 0.917 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 26.14 | 141.06 | 1.7854 | 40.29 | 1.25 | 3.10% | 3.246 | 0.80 | 30.04 | 2.63 | 3.49 | 115 | 0.222 | 0.279 | 0.94 | 0.504 | 0.515 | 870.16 | 4.381 | 1.728E+05 | 2.030E+06 | 11.74 | 0.1542 | 0.918 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.66 | 0.00 | | |
| 26.19 | 141.75 | 1.7889 | 45.57 | 1.32 | 2.90% | 3.015 | 0.78 | 34.10 | 2.56 | 3.10 | 111 | 0.206 | 0.251 | 0.94 | 0.505 | 0.515 | 879.38 | 4.402 | 1.757E+05 | 2.030E+06 | 11.56 | 0.1542 | 0.918 | 0.473 | | 0.53 | 0.73 | <= | 2.12 | 0.013 | 0.00 | 3.66 | 0.00 | 26.14 | 26.19 |
| 26.28 | 142.90 | 1.7954 | 57.09 | 1.43 | 2.50% | 2.586 | 0.74 | 42.95 | 2.44 | 2.48 | 113 | 0.213 | 0.248 | 0.94 | 0.508 | 0.515 | 892.92 | 4.438 | 1.797E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.473 | | 0.52 | 0.72 | <= | 2.09 | 0.023 | 0.00 | 3.65 | 0.00 | 26.19 | 26.28 |
| 26.32 | 143.33 | 1.7982 | 64.51 | 1.46 | 2.26% | 2.328 | 0.72 | 48.65 | 2.37 | 2.18 | 113 | 0.214 | 0.469 | 0.94 | 0.509 | 0.515 | 896.43 | 4.451 | 1.805E+05 | 2.030E+06 | 11.24 | 0.1542 | 0.919 | 0.474 | | 0.99 | 1.36 | | 0.00 | 0.000 | 0.00 | 3.62 | 0.00 | | |
| 26.41 | 143.96 | 1.8047 | 79.45 | 1.48 | 1.86% | 1.906 | 0.68 | 60.06 | 2.24 | 1.77 | 114 | 0.217 | 0.407 | 0.94 | 0.512 | 0.515 | 898.73 | 4.471 | 1.807E+05 | 2.030E+06 | 11.24 | 0.1542 | 0.919 | 0.474 | | 0.86 | 1.18 | <= | 0.48 | 0.005 | 0.00 | 3.62 | 0.00 | 26.32 | 26.41 |
| 26.45 | 144.15 | 1.8076 | 88.43 | 1.47 | 1.66% | 1.697 | 0.66 | 66.92 | 2.17 | 1.59 | 115 | 0.221 | 0.392 | 0.94 | 0.513 | 0.516 | 897.59 | 4.477 | 1.800E+05 | 2.030E+06 | 11.28 | 0.1542 | 0.919 | 0.474 | | 0.83 | 1.14 | <= | 0.42 | 0.002 | 0.00 | 3.62 | 0.00 | 26.41 | 26.45 |
| 26.55 | 144.39 | 1.8148 | 109.33 | 1.42 | 1.30% | 1.321 | 0.61 | 82.80 | 2.02 | 1.33 | 120 | 0.241 | 0.335 | 0.94 | 0.516 | 0.516 | 891.73 | 4.484 | 1.773E+05 | 2.030E+06 | 11.45 | 0.1542 | 0.919 | 0.474 | | 0.71 | 0.97 | <= | 1.05 | 0.013 | 0.00 | 3.62 | 0.00 | 26.45 | 26.55 |
| 26.58 | 144.51 | 1.8170 | 113.53 | 1.42 | 1.25% | 1.271 | 0.61 | 85.95 | 2.00 | 1.30 | 122 | 0.248 | 0.345 | 0.94 | 0.517 | 0.516 | 891.73 | 4.488 | 1.772E+05 | 2.030E+06 | 11.46 | 0.1542 | 0.919 | 0.474 | | 0.73 | 1.00 | <= | 0.49 | 0.002 | 0.00 | 3.60 | 0.00 | 26.55 | 26.58 |
| 26.64 | 144.74 | 1.8213 | 123.49 | 1.42 | 1.15% | 1.167 | 0.59 | 93.44 | 1.95 | 1.24 | 127 | 0.268 | 0.317 | 0.94 | 0.519 | 0.516 | 891.73 | 4.495 | 1.769E+05 | 2.030E+06 | 11.48 | 0.1542 | 0.919 | 0.474 | | 0.67 | 0.92 | <= | 0.78 | 0.006 | 0.00 | 3.60 | 0.00 | 26.58 | 26.64 |
| 26.73 | 144.82 | 1.8278 | 131.69 | 1.41 | 1.07% | 1.086 | 0.58 | 99.45 | 1.90 | 1.19 | 130 | 0.287 | 0.306 | 0.94 | 0.522 | 0.516 | 890.54 | 4.498 | 1.763E+05 | 2.030E+06 | 11.51 | 0.1542 | 0.919 | 0.474 | | 0.64 | 0.89 | <= | 1.33 | 0.014 | 0.00 | 3.60 | 0.00 | 26.64 | 26.73 |
| 26.77 | 144.98 | 1.8307 | 134.13 | 1.43 | 1.07% | 1.081 | 0.58 | 101.18 | 1.90 | 1.19 | 132 | 0.295 | 0.295 | 0.94 | 0.523 | 0.517 | 892.92 | 4.503 | 1.771E+05 | 2.030E+06 | 11.46 | 0.1542 | 0.919 | 0.475 | | 0.62 | 0.85 | <= | 1.20 | 0.006 | 0.00 | 3.58 | 0.00 | 26.73 | 26.77 |
| 26.86 | 145.12 | 1.8373 | 134.62 | 1.46 | 1.08% | 1.100 | 0.58 | 101.27 | 1.90 | 1.19 | 133 | 0.298 | 0.298 | 0.94 | 0.526 | 0.517 | 896.43 | 4.507 | 1.783E+05 | 2.030E+06 | 11.39 | 0.1542 | 0.919 | 0.475 | | 0.63 | 0.86 | <= | 1.22 | 0.013 | 0.00 | 3.58 | 0.00 | 26.77 | 26.86 |
| 26.91 | 145.12 | 1.8409 | 133.15 | 1.46 | 1.10% | 1.112 | 0.58 | 99.98 | 1.91 | 1.20 | 132 | 0.294 | 0.294 | 0.94 | 0.528 | 0.517 | 896.43 | 4.507 | 1.783E+05 | 2.030E+06 | 11.39 | 0.1542 | 0.919 | 0.475 | | 0.62 | 0.85 | <= | 1.19 | 0.007 | 0.00 | 3.56 | 0.00 | 26.86 | 26.91 |
| 26.99 | 145.01 | 1.8467 | 130.52 | 1.45 | 1.11% | 1.127 | 0.58 | 97.73 | 1.92 | 1.21 | 130 | 0.285 | 0.309 | 0.94 | 0.530 | 0.517 | 895.27 | 4.503 | 1.780E+05 | 2.030E+06 | 11.41 | 0.1542 | 0.919 | 0.475 | | 0.65 | 0.89 | <= | 1.37 | 0.013 | 0.00 | 3.56 | 0.00 | 26.91 | 26.99 |
| 27.04 | 144.84 | 1.8503 | 126.22 | 1.43 | 1.13% | 1.150 | 0.59 | 94.32 | 1.94 | 1.23 | 127 | 0.272 | 0.328 | 0.94 | 0.532 | 0.517 | 892.92 | 4.498 | 1.773E+05 | 2.030E+06 | 11.45 | 0.1542 | 0.919 | 0.475 | | 0.69 | 0.95 | <= | 0.89 | 0.005 | 0.00 | 3.54 | 0.00 | 26.99 | 27.04 |
| 27.11 | 144.44 | 1.8554 | 120.46 | 1.38 | 1.15% | 1.164 | 0.59 | 89.75 | 1.96 | 1.25 | 123 | 0.255 | 0.335 | 0.94 | 0.534 | 0.517 | 886.90 | 4.486 | 1.754E+05 | 2.030E+06 | 11.58 | 0.1542 | 0.918 | 0.475 | | 0.70 | 0.97 | <= | 1.00 | 0.008 | 0.00 | 3.54 | 0.00 | 27.04 | 27.11 |
| 27.18 | 143.81 | 1.8604 | 113.43 | 1.29 | 1.14% | 1.156 | 0.60 | 84.24 | 1.98 | 1.27 | 118 | 0.232 | 0.329 | 0.94 | 0.536 | 0.518 | 875.49 | 4.466 | 1.716E+05 | 2.030E+06 | 11.83 | 0.1542 | 0.918 | 0.475 | | 0.69 | 0.95 | <= | 1.00 | 0.008 | 0.00 | 3.53 | 0.00 | 27.11 | 27.18 |
| 27.23 | 143.01 | 1.8640 | 104.54 | 1.19 | 1.14% | 1.159 | 0.61 | 77.41 | 2.01 | 1.31 | 111 | 0.208 | 0.336 | 0.94 | 0.538 | 0.518 | 861.84 | 4.441 | 1.672E+05 | 2.030E+06 | 12.14 | 0.1542 | 0.917 | 0.475 | | 0.71 | 0.97 | <= | 1.18 | 0.007 | 0.00 | 3.52 | 0.00 | 27.18 | 27.23 |
| 27.31 | 141.84 | 1.8696 | 94.49 | 1.05 | 1.11% | 1.134 | 0.62 | 69.66 | 2.03 | 1.35 | 103 | 0.182 | 0.330 | 0.94 | 0.540 | 0.518 | 840.67 | 4.405 | 1.604E+05 | 2.030E+06 | 12.65 | 0.1542 | 0.916 | 0.474 | | 0.70 | 0.96 | <= | 1.21 | 0.012 | 0.00 | 3.51 | 0.00 | 27.23 | 27.31 |
| 27.40 | 140.86 | 1.8760 | 81.01 | 0.97 | 1.20% | 1.226 | 0.64 | 59.36 | 2.11 | 1.48 | 96 | 0.162 | 0.344 | 0.94 | 0.543 | 0.518 | 827.26 | 4.375 | 1.564E+05 | 2.030E+06 | 12.98 | 0.1542 | 0.915 | 0.474 | | 0.72 | 1.00 | <= | 1.62 | 0.018 | 0.00 | 3.50 | 0.00 | 27.31 | 27.40 |
| 27.44 | 140.61 | 1.8788 | 74.47 | 0.96 | 1.29% | 1.322 | 0.66 | 54.39 | 2.16 | 1.58 | 94 | 0.157 | 0.350 | 0.93 | 0.544 | 0.518 | 825.51 | 4.367 | 1.561E+05 | 2.030E+06 | 13.01 | 0.1542 | 0.915 | 0.474 | | 0.74 | 1.02 | <= | 0.63 | 0.003 | 0.00 | 3.48 | 0.00 | 27.40 | 27.44 |
| 27.52 | 140.33 | 1.8844 | 61.58 | 0.98 | 1.59% | 1.642 | 0.70 | 44.62 | 2.29 | 1.92 | 93 | 0.154 | 0.382 | 0.93 | 0.547 | 0.519 | 829.00 | 4.358 | 1.577E+05 | 2.030E+06 | 12.87 | 0.1542 | 0.915 | 0.475 | | 0.81 | 1.11 | <= | 0.43 | 0.004 | 0.00 | 3.48 | 0.00 | 27.44 | 27.52 |
| 27.57 | 140.22 | 1.8879 | 54.26 | 1.01 | 1.86% | 1.929 | 0.72 | 39.09 | 2.38 | 2.24 | 94 | 0.158 | 0.189 | 0.93 | 0.548 | 0.519 | 834.10 | 4.355 | 1.598E+05 | 2.030E+06 | 12.71 | 0.1542 | 0.916 | 0.475 | | 0.40 | 0.55 | <= | 2.42 | 0.015 | 0.00 | 3.48 | 0.00 | 27.52 | 27.57 |
| 27.63 | 139.97 | 1.8921 | 44.00 | 1.05 | 2.39% | 2.494 | 0.77 | 31.38 | 2.53 | 2.93 | 98 | 0.166 | 0.208 | 0.93 | 0.550 | 0.519 | 840.67 | 4.347 | 1.626E+05 | 2.030E+06 | 12.49 | 0.1542 | 0.916 | 0.475 | | 0.44 | 0.60 | <= | 2.35 | 0.017 | 0.00 | 3.46 | 0.00 | 27.57 | 27.63 |
| 27.69 | 139.38 | 1.8963 | 35.31 | 1.04 | 2.95% | 3.112 | 0.81 | 24.85 | 2.67 | 3.81 | 126 | 0.265 | 0.342 | 0.93 | 0.552 | 0.519 | 839.05 | 4.329 | 1.626E+05 | 2.030E+06 | 12.48 | 0.1542 | 0.916 | 0.476 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 27.77 | 138.27 | 1.9018 | 27.60 | 0.97 | 3.51% | 3.775 | 0.85 | 19.07 | 2.82 | 4.96 | 164 | 0.487 | 0.487 | 0.93 | 0.554 | 0.519 | 827.26 | 4.294 | 1.594E+05 | 2.030E+06 | 12.74 | 0.1542 | 0.915 | 0.475 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 27.85 | 136.50 | 1.9073 | 23.40 | 0.81 | 3.46% | 3.769 | 0.87 | 15.92 | 2.88 | 5.52 | 182 | 0.643 | 0.643 | 0.93 | 0.557 | 0.520 | 796.77 | 4.239 | 1.498E+05 | 2.030E+06 | 13.56 | 0.1542 | 0.913 | 0.475 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 27.89 | 135.68 | 1.9100 | 20.86 | 0.75 | 3.60% | 3.958 | 0.89 | 14.02 | 2.94 | 6.10 | 201 | 0.838 | 0.838 | 0.93 | 0.558 | 0.520 | 783.75 | 4.214 | 1.458E+05 | 2.030E+06 | 13.93 | 0.1542 | 0.912 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 27.98 | 133.96 | 1.9160 | 16.27 | 0.64 | 3.93% | 4.459 | 0.93 | 10.59 | 3.07 | 7.57 | 250 | 1.531 | 1.531 | 0.93 | 0.561 | 0.520 | 756.92 | 4.160 | 1.377E+05 | 2.030E+06 | 14.74 | 0.1542 | 0.910 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.02 | 133.23 | 1.9187 | 14.32 | 0.61 | 4.26% | 4.919 | 0.95 | 9.14 | 3.15 | 8.57 | 283 | 2.184 | 2.184 | 0.93 | 0.562 | 0.520 | 748.80 | 4.138 | 1.355E+05 | 2.030E+06 | 14.98 | 0.1542 | 0.910 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.11 | 129.55 | 1.9245 | 12.56 | 0.38 | 3.03% | 3.573 | 0.94 | 7.82 | 3.12 | 8.21 | 271 | 1.930 | 1.930 | 0.93 | 0.565 | 0.520 | 668.74 | 4.023 | 1.112E+05 | 2.030E+06 | 18.26 | 0.1542 | 0.901 | 0.469 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.16 | 124.38 | 1.9276 | 11.98 | 0.19 | 1.59% | 1.890 | 0.91 | 7.39 | 2.99 | 6.65 | 220 | 1.064 | 1.064 | 0.93 | 0.567 | 0.521 | 551.48 | 3.863 | 7.873E+04 | 2.030E+06 | 25.78 | 0.1542 | 0.882 | 0.459 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.24 | 126.06 | 1.9327 | 11.98 | 0.24 | 2.00% | 2.389 | 0.92 | 7.37 | 3.05 | 7.27 | 240 | 1.367 | 1.367 | 0.93 | 0.569 | 0.521 | 591.00 | 3.915 | 8.922E+04 | 2.030E+06 | 22.75 | 0.1542 | 0.890 | 0.463 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.30 | 127.17 | 1.9365 | 11.98 | 0.28 | 2.34% | 2.788 | 0.93 | 7.36 | 3.08 | 7.73 | 255 | 1.621 | 1.621 | 0.93 | 0.571 | 0.521 | 617.08 | 3.949 | 9.642E+04 | 2.030E+06 | 21.05 | 0.1542 | 0.894 | 0.466 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.36 | 128.15 | 1.9403 | 11.98 | 0.32 | 2.67% | 3.187 | 0.94 | 7.34 | 3.12 | 8.14 | 269 | 1.885 | 1.885 | 0.93 | 0.573 | 0.521 | 639.67 | 3.980 | 1.028E+05 | 2.030E+06 | 19.74 | 0.1542 | 0.897 | 0.468 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.43 | 128.94 | 1.9448 | 12.08 | 0.36 | 2.98% | 3.552 | 0.95 | 7.40 | 3.14 | 8.46 | 279 | 2.101 | 2.101 | 0.93 | 0.575 | 0.522 | 659.59 | 4.004 | 1.086E+05 | 2.030E+06 | 18.68 | 0.1542 | 0.900 | 0.469 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.51 | 129.43 | 1.9500 | 11.98 | 0.38 | 3.17% | 3.789 | 0.96 | 7.31 | 3.16 | 8.73 | 288 | 2.306 | 2.306 | 0.93 | 0.578 | 0.522 | 668.74 | 4.020 | 1.113E+05 | 2.030E+06 | 18.25 | 0.1542 | 0.901 | 0.470 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.55 | 129.64 | 1.9526 | 12.08 | 0.39 | 3.23% | 3.851 | 0.96 | 7.37 | 3.16 | 8.75 | 289 | 2.316 | 2.316 | 0.93 | 0.579 | 0.522 | 673.13 | 4.026 | 1.125E+05 | 2.030E+06 | 18.04 | 0.1542 | 0.902 | 0.471 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.64 | 129.98 | 1.9585 | 11.69 | 0.42 | 3.59% | 4.316 | 0.97 | 7.07 | 3.21 | 9.36 | 309 | 2.820 | 2.820 | 0.93 | 0.582 | 0.522 | 685.67 | 4.037 | 1.165E+05 | 2.030E+06 | 17.43 | 0.1542 | 0.903 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.68 | 130.26 | 1.9611 | 12.08 | 0.43 | 3.56% | 4.249 | 0.96 | 7.34 | 3.19 | 9.11 | 301 | 2.607 | 2.607 | 0.93 | 0.583 | 0.522 | 689.65 | 4.045 | 1.176E+05 | 2.030E+06 | 17.27 | 0.1542 | 0.904 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.75 | 129.90 | 1.9656 | 12.08 | 0.41 | 3.39% | 4.054 | 0.96 | 7.33 | 3.18 | 8.95 | 295 | 2.479 | 2.479 | 0.93 | 0.585 | 0.523 | 681.59 | 4.034 | 1.152E+05 | 2.030E+06 | 17.63 | 0.1542 | 0.903 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.82 | 129.98 | 1.9702 | 12.08 | 0.41 | 3.39% | 4.055 | 0.96 | 7.31 | 3.18 | 8.97 | 296 | 2.489 | 2.489 | 0.93 | 0.587 | 0.523 | 681.59 | 4.037 | 1.151E+05 | 2.030E+06 | 17.64 | 0.1542 | 0.903 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.89 | 129.93 | 1.9747 | 12.08 | 0.41 | 3.39% | 4.057 | 0.96 | 7.29 | 3.18 | 8.98 | 296 | 2.498 | 2.498 | 0.93 | 0.589 | 0.523 | 681.59 | 4.035 | 1.151E+05 | 2.030E+06 | 17.63 | 0.1542 | 0.903 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 28.95 | 130.07 | 1.9786 | 12.37 | 0.41 | 3.31% | 3.946 | 0.96 | 7.49 | 3.16 | 8.75 | 289 | 2.318 | 2.318 | 0.93 | 0.591 | 0.523 | 681.59 | 4.039 | 1.150E+05 | 2.030E+06 | 17.65 | 0.1542 | 0.903 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.03 | 130.90 | 1.9839 | 13.15 | 0.45 | 3.42% | 4.030 | 0.95 | 8.03 | 3.14 | 8.48 | 280 | 2.119 | 2.119 | 0.93 | 0.594 | 0.523 | 697.34 | 4.065 | 1.196E+05 | 2.030E+06 | 16.97 | 0.1542 | 0.905 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.09 | 131.69 | 1.9878 | 13.83 | 0.50 | 3.62% | 4.222 | 0.95 | 8.51 | 3.13 | 8.37 | 276 | 2.039 | 2.039 | 0.93 | 0.596 | 0.524 | 715.16 | 4.090 | 1.251E+05 | 2.030E+06 | 16.23 | 0.1542 | 0.906 | 0.475 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.15 | 132.49 | 1.9918 | 13.83 | 0.55 | 3.98% | 4.646 | 0.96 | 8.49 | 3.16 | 8.71 | 287 | 2.290 | 2.290 | 0.93 | 0.597 | 0.524 | 731.28 | 4.115 | 1.300E+05 | 2.030E+06 | 15.62 | 0.1542 | 0.908 | 0.476 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.21 | 133.55 | 1.9958 | 14.42 | 0.63 | 4.37% | 5.071 | 0.96 | 8.90 | 3.17 | 8.80 | 291 | 2.361 | 2.361 | 0.93 | 0.599 | 0.524 | 754.26 | 4.148 | 1.372E+05 | 2.030E+06 | 14.80 | 0.1542 | 0.910 | 0.477 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.27 | 134.30 | 1.9998 | 15.10 | 0.69 | 4.57% | 5.267 | 0.96 | 9.37 | 3.16 | 8.70 | 287 | 2.280 | 2.280 | 0.93 | 0.601 | 0.524 | 769.64 | 4.171 | 1.420E+05 | 2.030E+06 | 14.29 | 0.1542 | 0.911 | 0.478 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.33 | 135.25 | 2.0039 | 16.18 | 0.76 | 4.70% | 5.361 | 0.95 | 10.12 | 3.14 | 8.40 | 277 | 2.063 | 2.063 | 0.93 | 0.603 | 0.524 | 785.99 | 4.200 | 1.471E+05 | 2.030E+06 | 13.80 | 0.1542 | 0.913 | 0.479 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.40 | 136.05 | 2.0086 | 18.23 | 0.82 | 4.50% | 5.055 | 0.93 | 11.56 | 3.07 | 7.61 | 251 | 1.552 | 1.552 | 0.93 | 0.605 | 0.525 | 798.84 | 4.225 | 1.510E+05 | 2.030E+06 | 13.44 | 0.1542 | 0.914 | 0.479 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.49 | 136.60 | 2.0148 | 20.08 | 0.86 | 4.28% | 4.761 | 0.91 | 12.84 | 3.02 | 6.98 | 230 | 1.215 | 1.215 | 0.93 | 0.608 | 0.525 | 806.90 | 4.242 | 1.535E+05 | 2.030E+06 | 13.23 | 0.1542 | 0.914 | 0.480 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.54 | 137.05 | 2.0182 | 21.84 | 0.89 | 4.08% | 4.490 | 0.90 | 14.07 | 2.97 | 6.44 | 213 | 0.973 | 0.973 | 0.93 | 0.610 | 0.525 | 812.70 | 4.256 | 1.552E+05 | 2.030E+06 | 13.08 | 0.1542 | 0.915 | 0.480 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.61 | 137.38 | 2.0230 | 22.82 | 0.91 | 3.99% | 4.376 | 0.89 | 14.74 | 2.95 | 6.19 | 204 | 0.873 | 0.873 | 0.93 | 0.612 | 0.525 | 816.46 | 4.266 | 1.562E+05 | 2.030E+06 | 12.99 | 0.1542 | 0.915 | 0.480 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.67 | 137.49 | 2.0271 | 24.38 | 0.91 | 3.73% | 4.071 | 0.88 | 15.81 | 2.90 | 5.74 | 189 | 0.711 | 0.711 | 0.93 | 0.614 | 0.525 | 816.46 | 4.270 | 1.561E+05 | 2.030E+06 | 13.00 | 0.1542 | 0.915 | 0.480 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.73 | 137.39 | 2.0313 | 24.38 | 0.90 | 3.69% | 4.027 | 0.88 | 15.79 | 2.90 | 5.71 | 188 | 0.703 | 0.703 | 0.93 | 0.616 | 0.525 | 814.59 | 4.267 | 1.555E+05 | 2.030E+06 | 13.05 | 0.1542 | 0.915 | 0.480 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.80 | 136.29 | 2.0360 | 24.38 | 0.77 | 3.16% | 3.446 | 0.87 | 15.75 | 2.86 | 5.30 | 175 | 0.578 | 0.578 | 0.93 | 0.618 | 0.526 | 788.20 | 4.233 | 1.468E+05 | 2.030E+06 | 13.83 | 0.1542 | 0.913 | 0.480 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.89 | 137.18 | 2.0422 | 24.38 | 0.87 | 3.57% | 3.895 | 0.88 | 15.71 | 2.89 | 5.63 | 186 | 0.678 | 0.678 | 0.93 | 0.621 | 0.526 | 808.86 | 4.260 | 1.536E+05 | 2.030E+06 | 13.22 | 0.1542 | 0.914 | 0.481 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 29.94 | 137.19 | 2.0456 | 24.18 | 0.88 | 3.64% | 3.976 | 0.88 | 15.55 | 2.90 | 5.73 | 189 | 0.707 | 0.707 | 0.93 | 0.622 | 0.526 | 810.79 | 4.261 | 1.543E+05 | 2.030E+06 | 13.16 | 0.1542 | 0.914 | 0.481 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 30.03 | 117.24 | 2.0509 | 24.57 | 0.88 | 3.58% | 3.908 | 0.88 | 15.79 | 2.89 | 5.62 | 186 | 0.675 | 0.675 | 0.93 | 0.625 | 0.527 | 810.79 | 3.641 | 1.805E+05 | 1.805E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 30.11 | 117.75 | 2.0556 | 29.98 | 0.89 | 2.97% | 3.187 | 0.84 | 19.55 | 2.76 | 4.46 | 147 | 0.376 | 0.376 | 0.93 | 0.627 | 0.527 | 812.70 | 3.657 | 1.806E+05 | 1.806E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 30.16 | 117.92 | 2.0586 | 30.57 | 0.90 | 2.94% | 3.157 | 0.83 | 19.94 | 2.75 | 4.38 | 145 | 0.361 | 0.361 | 0.93 | 0.629 | 0.527 | 814.59 | 3.662 | 1.812E+05 | 1.812E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 30.25 | 118.94 | 2.0639 | 28.61 | 1.06 | 3.70% | 3.993 | 0.86 | 18.54 | 2.84 | 5.16 | 170 | 0.539 | 0.539 | 0.93 | 0.632 | 0.527 | 842.27 | 3.694 | 1.921E+05 | 1.921E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 30.30 | 119.00 | 2.0669 | 27.24 | 1.08 | 3.96% | 4.290 | 0.87 | 17.56 | 2.88 | 5.52 | 182 | 0.643 | 0.643 | 0.93 | 0.633 | 0.527 | 845.43 | 3.696 | 1.934E+05 | 1.934E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 30.38 | 119.35 | 2.0717 | 28.81 | 1.12 | 3.89% | 4.189 | 0.86 | 18.62 | 2.85 | 5.27 | 174 | 0.569 | 0.569 | 0.93 | 0.636 | 0.527 | 851.58 | 3.707 | 1.957E+05 | 1.957E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 30.43 | 120.00 | 2.0747 | 34.87 | 1.15 | 3.30% | 3.507 | 0.83 | 22.82 | 2.73 | 4.25 | 140 | 0.336 | 0.336 | 0.93 | 0.637 | 0.527 | 856.06 | 3.727 | 1.966E+05 | 1.966E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.45 | 0.00 | | |
| 30.51 | 121.59 | 2.0795 | 59.00 | 1.19 | 2.02% | 2.091 | 0.73 | 39.54 | 2.40 | 2.29 | 99 | 0.171 | 0.199 | 0.93 | 0.640 | 0.527 | 861.84 | 3.776 | 1.967E+05 | 1.967E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.38 | 0.52 | <= | 2.32 | 0.021 | 0.00 | 3.45 | 0.00 | 30.43 | 30.51 |
| 30.56 | 122.32 | 2.0826 | 75.52 | 1.21 | 1.60% | 1.648 | 0.68 | 50.96 | 2.24 | 1.77 | 100 | 0.173 | 0.366 | 0.93 | 0.641 | 0.527 | 864.66 | 3.799 | 1.968E+05 | 1.968E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.70 | 0.97 | <= | 1.31 | 0.008 | 0.00 | 3.42 | 0.00 | 30.51 | 30.56 |
| 30.63 | 121.44 | 2.0868 | 91.15 | 1.01 | 1.11% | 1.134 | 0.63 | 61.71 | 2.07 | 1.40 | 97 | 0.166 | 0.318 | 0.93 | 0.644 | 0.527 | 834.10 | 3.771 | 1.845E+05 | 1.845E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.61 | 0.84 | <= | 1.89 | 0.016 | 0.00 | 3.42 | 0.00 | 30.56 | 30.63 |
| 30.69 | 120.33 | 2.0905 | 101.61 | 0.84 | 0.83% | 0.844 | 0.59 | 68.88 | 1.95 | 1.24 | 97 | 0.166 | 0.302 | 0.93 | 0.646 | 0.527 | 802.92 | 3.737 | 1.725E+05 | 1.725E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.58 | 0.80 | <= | 2.36 | 0.016 | 0.00 | 3.40 | 0.00 | 30.63 | 30.69 |
| 30.76 | 121.25 | 2.0947 | 107.08 | 0.93 | 0.87% | 0.886 | 0.59 | 72.55 | 1.94 | 1.23 | 102 | 0.179 | 0.310 | 0.92 | 0.648 | 0.527 | 820.14 | 3.766 | 1.786E+05 | 1.786E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.59 | 0.82 | <= | 1.58 | 0.013 | 0.00 | 3.38 | 0.00 | 30.69 | 30.76 |
| 30.83 | 122.09 | 2.0990 | 110.89 | 1.04 | 0.94% | 0.956 | 0.59 | 75.08 | 1.95 | 1.24 | 106 | 0.192 | 0.316 | 0.92 | 0.650 | 0.527 | 839.05 | 3.792 | 1.857E+05 | 1.857E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.60 | 0.83 | <= | 1.55 | 0.013 | 0.00 | 3.37 | 0.00 | 30.76 | 30.83 |
| 30.89 | 122.76 | 2.1027 | 113.33 | 1.13 | 1.00% | 1.016 | 0.60 | 76.66 | 1.96 | 1.25 | 110 | 0.202 | 0.314 | 0.92 | 0.652 | 0.527 | 853.09 | 3.812 | 1.909E+05 | 1.909E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.60 | 0.83 | <= | 1.47 | 0.011 | 0.00 | 3.36 | 0.00 | 30.83 | 30.89 |
| 30.96 | 123.38 | 2.1070 | 113.92 | 1.22 | 1.07% | 1.091 | 0.60 | 76.95 | 1.98 | 1.27 | 112 | 0.210 | 0.326 | 0.92 | 0.654 | 0.527 | 866.05 | 3.832 | 1.957E+05 | 1.957E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.62 | 0.86 | <= | 1.56 | 0.013 | 0.00 | 3.35 | 0.00 | 30.89 | 30.96 |
| 31.01 | 123.69 | 2.1101 | 107.66 | 1.30 | 1.21% | 1.232 | 0.62 | 72.57 | 2.03 | 1.34 | 111 | 0.207 | 0.322 | 0.92 | 0.656 | 0.527 | 876.80 | 3.841 | 2.001E+05 | 2.001E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.62 | 0.85 | <= | 1.53 | 0.009 | 0.00 | 3.33 | 0.00 | 30.96 | 31.01 |
| 31.08 | 124.14 | 2.1144 | 110.20 | 1.37 | 1.24% | 1.268 | 0.62 | 74.20 | 2.03 | 1.35 | 114 | 0.216 | 0.316 | 0.92 | 0.658 | 0.527 | 885.67 | 3.855 | 2.035E+05 | 2.035E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.61 | 0.83 | <= | 1.42 | 0.012 | 0.00 | 3.33 | 0.00 | 31.01 | 31.08 |
| 31.14 | 124.42 | 2.1181 | 108.45 | 1.43 | 1.32% | 1.345 | 0.62 | 72.90 | 2.06 | 1.38 | 114 | 0.219 | 0.321 | 0.92 | 0.660 | 0.527 | 892.92 | 3.864 | 2.063E+05 | 2.063E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.61 | 0.85 | <= | 1.45 | 0.010 | 0.00 | 3.31 | 0.00 | 31.08 | 31.14 |
| 31.22 | 124.57 | 2.1231 | 103.76 | 1.49 | 1.44% | 1.466 | 0.64 | 69.56 | 2.10 | 1.45 | 114 | 0.218 | 0.340 | 0.92 | 0.662 | 0.527 | 899.87 | 3.869 | 2.093E+05 | 2.093E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.65 | 0.90 | <= | 2.06 | 0.019 | 0.00 | 3.30 | 0.00 | 31.14 | 31.22 |
| 31.28 | 124.65 | 2.1269 | 100.14 | 1.52 | 1.52% | 1.551 | 0.65 | 67.00 | 2.13 | 1.51 | 114 | 0.217 | 0.339 | 0.92 | 0.664 | 0.527 | 903.24 | 3.871 | 2.108E+05 | 2.108E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.65 | 0.89 | <= | 2.03 | 0.014 | 0.00 | 3.28 | 0.00 | 31.22 | 31.28 |
| 31.37 | 124.66 | 2.1325 | 91.74 | 1.57 | 1.71% | 1.752 | 0.67 | 61.14 | 2.19 | 1.65 | 113 | 0.215 | 0.376 | 0.92 | 0.667 | 0.527 | 908.72 | 3.871 | 2.133E+05 | 2.133E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.72 | 0.99 | <= | 1.24 | 0.013 | 0.00 | 3.27 | 0.00 | 31.28 | 31.37 |
| 31.41 | 124.63 | 2.1350 | 87.73 | 1.58 | 1.80% | 1.846 | 0.68 | 58.35 | 2.22 | 1.73 | 113 | 0.214 | 0.374 | 0.92 | 0.668 | 0.527 | 909.79 | 3.870 | 2.139E+05 | 2.139E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.72 | 0.99 | <= | 1.22 | 0.006 | 0.00 | 3.26 | 0.00 | 31.37 | 31.41 |
| 31.48 | 124.51 | 2.1393 | 80.60 | 1.60 | 1.99% | 2.039 | 0.69 | 53.41 | 2.28 | 1.90 | 113 | 0.213 | 0.413 | 0.92 | 0.670 | 0.527 | 911.92 | 3.867 | 2.151E+05 | 2.151E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.79 | 1.09 | <= | 0.76 | 0.006 | 0.00 | 3.25 | 0.00 | 31.41 | 31.48 |
| 31.54 | 124.39 | 2.1431 | 76.69 | 1.60 | 2.09% | 2.146 | 0.70 | 50.68 | 2.32 | 2.00 | 113 | 0.213 | 0.413 | 0.92 | 0.672 | 0.527 | 911.92 | 3.863 | 2.153E+05 | 2.153E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.79 | 1.09 | <= | 0.76 | 0.005 | 0.00 | 3.24 | 0.00 | 31.48 | 31.54 |
| 31.61 | 124.00 | 2.1474 | 69.75 | 1.57 | 2.25% | 2.322 | 0.72 | 45.89 | 2.37 | 2.21 | 112 | 0.210 | 0.228 | 0.92 | 0.674 | 0.527 | 908.72 | 3.851 | 2.144E+05 | 2.144E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.44 | 0.60 | <= | 2.11 | 0.017 | 0.00 | 3.24 | 0.00 | 31.54 | 31.61 |
| 31.68 | 123.81 | 2.1517 | 64.57 | 1.57 | 2.43% | 2.515 | 0.74 | 42.31 | 2.42 | 2.42 | 112 | 0.211 | 0.236 | 0.92 | 0.676 | 0.527 | 908.72 | 3.845 | 2.148E+05 | 2.148E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.45 | 0.62 | <= | 2.10 | 0.017 | 0.00 | 3.22 | 0.00 | 31.61 | 31.68 |
| 31.75 | 123.52 | 2.1561 | 57.24 | 1.57 | 2.74% | 2.850 | 0.76 | 37.28 | 2.50 | 2.79 | 113 | 0.215 | 0.247 | 0.92 | 0.679 | 0.527 | 908.72 | 3.836 | 2.153E+05 | 2.153E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.47 | 0.65 | <= | 2.09 | 0.017 | 0.00 | 3.21 | 0.00 | 31.68 | 31.75 |
| 31.81 | 123.23 | 2.1597 | 50.89 | 1.57 | 3.09% | 3.222 | 0.78 | 32.94 | 2.58 | 3.22 | 115 | 0.220 | 0.263 | 0.92 | 0.680 | 0.527 | 908.72 | 3.827 | 2.158E+05 | 2.158E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.51 | 0.69 | <= | 2.07 | 0.014 | 0.00 | 3.19 | 0.00 | 31.75 | 31.81 |
| 31.89 | 122.55 | 2.1647 | 41.71 | 1.53 | 3.67% | 3.869 | 0.82 | 26.69 | 2.71 | 4.05 | 134 | 0.302 | 0.302 | 0.92 | 0.683 | 0.527 | 904.35 | 3.806 | 2.149E+05 | 2.149E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 31.95 | 121.80 | 2.1683 | 35.94 | 1.45 | 4.03% | 4.294 | 0.85 | 22.77 | 2.79 | 4.72 | 156 | 0.431 | 0.431 | 0.92 | 0.685 | 0.527 | 895.27 | 3.783 | 2.119E+05 | 2.119E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.00 | 120.77 | 2.1713 | 30.37 | 1.33 | 4.38% | 4.717 | 0.87 | 18.99 | 2.88 | 5.52 | 182 | 0.642 | 0.642 | 0.91 | 0.686 | 0.527 | 880.66 | 3.751 | 2.068E+05 | 2.068E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.08 | 117.48 | 2.1760 | 25.58 | 0.90 | 3.52% | 3.846 | 0.87 | 15.74 | 2.89 | 5.57 | 184 | 0.659 | 0.659 | 0.91 | 0.689 | 0.527 | 814.59 | 3.648 | 1.819E+05 | 1.819E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.16 | 116.58 | 2.1807 | 21.58 | 0.84 | 3.89% | 4.330 | 0.90 | 13.03 | 2.99 | 6.60 | 218 | 1.042 | 1.042 | 0.91 | 0.691 | 0.527 | 802.92 | 3.620 | 1.781E+05 | 1.781E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.20 | 116.75 | 2.1830 | 19.23 | 0.90 | 4.68% | 5.280 | 0.93 | 11.44 | 3.09 | 7.79 | 257 | 1.658 | 1.658 | 0.91 | 0.693 | 0.527 | 814.59 | 3.626 | 1.830E+05 | 1.830E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.28 | 116.66 | 2.1877 | 17.57 | 0.91 | 5.18% | 5.916 | 0.96 | 10.31 | 3.16 | 8.67 | 286 | 2.258 | 2.258 | 0.91 | 0.695 | 0.527 | 816.46 | 3.623 | 1.840E+05 | 1.840E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.32 | 116.73 | 2.1900 | 17.96 | 0.91 | 5.07% | 5.770 | 0.95 | 10.56 | 3.14 | 8.46 | 279 | 2.107 | 2.107 | 0.91 | 0.696 | 0.527 | 816.46 | 3.625 | 1.839E+05 | 1.839E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.39 | 117.24 | 2.1941 | 19.62 | 0.95 | 4.84% | 5.452 | 0.94 | 11.65 | 3.09 | 7.82 | 258 | 1.677 | 1.677 | 0.91 | 0.699 | 0.527 | 823.74 | 3.641 | 1.864E+05 | 1.864E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.46 | 117.74 | 2.1982 | 22.46 | 0.97 | 4.32% | 4.787 | 0.91 | 13.53 | 3.00 | 6.77 | 223 | 1.116 | 1.116 | 0.91 | 0.701 | 0.527 | 827.26 | 3.657 | 1.872E+05 | 1.872E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.54 | 117.95 | 2.2030 | 24.61 | 0.97 | 3.94% | 4.329 | 0.89 | 14.94 | 2.94 | 6.09 | 201 | 0.834 | 0.834 | 0.91 | 0.703 | 0.527 | 827.26 | 3.663 | 1.868E+05 | 1.868E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.59 | 118.39 | 2.2059 | 29.39 | 0.97 | 3.30% | 3.568 | 0.85 | 18.11 | 2.82 | 4.92 | 163 | 0.479 | 0.479 | 0.91 | 0.705 | 0.527 | 827.26 | 3.677 | 1.861E+05 | 1.861E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.66 | 119.09 | 2.2101 | 38.77 | 0.97 | 2.50% | 2.653 | 0.80 | 24.32 | 2.63 | 3.51 | 116 | 0.224 | 0.289 | 0.91 | 0.707 | 0.527 | 827.26 | 3.698 | 1.850E+05 | 1.850E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.17 | 0.00 | | |
| 32.72 | 119.86 | 2.2137 | 50.50 | 0.99 | 1.96% | 2.050 | 0.75 | 32.09 | 2.46 | 2.57 | 90 | 0.149 | 0.182 | 0.91 | 0.709 | 0.527 | 830.71 | 3.722 | 1.854E+05 | 1.854E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.35 | 0.48 | <= | 2.50 | 0.017 | 0.00 | 3.17 | 0.00 | 32.66 | 32.72 |
| 32.79 | 120.72 | 2.2179 | 63.11 | 1.04 | 1.65% | 1.708 | 0.71 | 40.41 | 2.33 | 2.03 | 92 | 0.152 | 0.381 | 0.91 | 0.711 | 0.527 | 839.05 | 3.749 | 1.878E+05 | 1.878E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.73 | 1.00 | <= | 0.60 | 0.005 | 0.00 | 3.16 | 0.00 | 32.72 | 32.79 |
| 32.85 | 121.33 | 2.2216 | 71.02 | 1.08 | 1.52% | 1.570 | 0.69 | 45.60 | 2.26 | 1.82 | 93 | 0.156 | 0.356 | 0.91 | 0.713 | 0.527 | 845.43 | 3.768 | 1.897E+05 | 1.897E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.68 | 0.94 | <= | 1.52 | 0.011 | 0.00 | 3.15 | 0.00 | 32.79 | 32.85 |
| 32.92 | 121.75 | 2.2258 | 75.71 | 1.12 | 1.48% | 1.524 | 0.68 | 48.64 | 2.23 | 1.74 | 95 | 0.161 | 0.349 | 0.91 | 0.715 | 0.527 | 851.58 | 3.781 | 1.918E+05 | 1.918E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.67 | 0.92 | <= | 1.26 | 0.011 | 0.00 | 3.14 | 0.00 | 32.85 | 32.92 |
| 32.99 | 122.17 | 2.2301 | 79.52 | 1.17 | 1.47% | 1.514 | 0.67 | 51.09 | 2.21 | 1.69 | 98 | 0.166 | 0.345 | 0.91 | 0.717 | 0.527 | 858.97 | 3.794 | 1.945E+05 | 1.945E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.66 | 0.91 | <= | 0.98 | 0.008 | 0.00 | 3.13 | 0.00 | 32.92 | 32.99 |
| 33.05 | 122.58 | 2.2338 | 82.45 | 1.22 | 1.48% | 1.521 | 0.67 | 52.96 | 2.20 | 1.66 | 100 | 0.172 | 0.340 | 0.91 | 0.719 | 0.526 | 866.05 | 3.807 | 1.970E+05 | 1.970E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.65 | 0.90 | <= | 2.30 | 0.016 | 0.00 | 3.12 | 0.00 | 32.99 | 33.05 |
| 33.13 | 122.98 | 2.2387 | 84.99 | 1.28 | 1.51% | 1.547 | 0.67 | 54.55 | 2.19 | 1.65 | 102 | 0.178 | 0.353 | 0.91 | 0.722 | 0.526 | 874.17 | 3.819 | 2.001E+05 | 2.001E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.68 | 0.93 | <= | 1.07 | 0.010 | 0.00 | 3.11 | 0.00 | 33.05 | 33.13 |
| 33.21 | 123.36 | 2.2436 | 87.83 | 1.33 | 1.51% | 1.554 | 0.66 | 56.33 | 2.18 | 1.62 | 104 | 0.184 | 0.348 | 0.90 | 0.724 | 0.526 | 880.66 | 3.831 | 2.024E+05 | 2.024E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.67 | 0.92 | <= | 0.96 | 0.009 | 0.00 | 3.10 | 0.00 | 33.13 | 33.21 |
| 33.25 | 123.52 | 2.2461 | 88.32 | 1.36 | 1.54% | 1.580 | 0.66 | 56.60 | 2.18 | 1.63 | 105 | 0.187 | 0.354 | 0.90 | 0.725 | 0.526 | 884.43 | 3.836 | 2.039E+05 | 2.039E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.68 | 0.93 | <= | 1.04 | 0.005 | 0.00 | 3.09 | 0.00 | 33.21 | 33.25 |
| 33.31 | 123.73 | 2.2498 | 88.61 | 1.40 | 1.58% | 1.621 | 0.67 | 56.72 | 2.19 | 1.65 | 106 | 0.191 | 0.361 | 0.90 | 0.727 | 0.526 | 889.33 | 3.843 | 2.058E+05 | 2.058E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.69 | 0.95 | <= | 1.14 | 0.008 | 0.00 | 3.08 | 0.00 | 33.25 | 33.31 |
| 33.39 | 123.84 | 2.2548 | 88.41 | 1.42 | 1.61% | 1.648 | 0.67 | 56.50 | 2.20 | 1.66 | 107 | 0.193 | 0.346 | 0.90 | 0.730 | 0.526 | 891.73 | 3.846 | 2.068E+05 | 2.068E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.67 | 0.92 | <= | 0.92 | 0.009 | 0.00 | 3.07 | 0.00 | 33.31 | 33.39 |
| 33.44 | 123.96 | 2.2579 | 88.02 | 1.44 | 1.64% | 1.679 | 0.67 | 56.18 | 2.20 | 1.68 | 107 | 0.194 | 0.350 | 0.90 | 0.731 | 0.526 | 894.10 | 3.850 | 2.077E+05 | 2.077E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.67 | 0.92 | <= | 0.96 | 0.006 | 0.00 | 3.07 | 0.00 | 33.39 | 33.44 |
| 33.52 | 123.98 | 2.2628 | 86.66 | 1.46 | 1.68% | 1.730 | 0.67 | 55.20 | 2.22 | 1.72 | 107 | 0.195 | 0.370 | 0.90 | 0.734 | 0.526 | 896.43 | 3.850 | 2.087E+05 | 2.087E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.71 | 0.98 | <= | 1.26 | 0.012 | 0.00 | 3.06 | 0.00 | 33.44 | 33.52 |
| 33.62 | 123.88 | 2.2690 | 84.11 | 1.45 | 1.72% | 1.772 | 0.68 | 53.42 | 2.24 | 1.76 | 107 | 0.193 | 0.366 | 0.90 | 0.737 | 0.526 | 895.27 | 3.847 | 2.083E+05 | 2.083E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.70 | 0.97 | <= | 1.21 | 0.015 | 0.00 | 3.05 | 0.00 | 33.52 | 33.62 |
| 33.66 | 124.29 | 2.2715 | 83.04 | 1.54 | 1.85% | 1.907 | 0.69 | 52.68 | 2.26 | 1.84 | 109 | 0.202 | 0.383 | 0.90 | 0.738 | 0.526 | 905.45 | 3.860 | 2.124E+05 | 2.124E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.74 | 1.01 | <= | 0.55 | 0.003 | 0.00 | 3.03 | 0.00 | 33.62 | 33.66 |
| 33.70 | 124.64 | 2.2740 | 81.09 | 1.63 | 2.01% | 2.068 | 0.70 | 51.36 | 2.30 | 1.94 | 112 | 0.211 | 0.400 | 0.90 | 0.739 | 0.526 | 915.06 | 3.871 | 2.163E+05 | 2.163E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.77 | 1.06 | <= | 0.68 | 0.003 | 0.00 | 3.03 | 0.00 | 33.66 | 33.70 |
| 33.78 | 125.09 | 2.2790 | 74.83 | 1.78 | 2.38% | 2.453 | 0.72 | 47.20 | 2.38 | 2.22 | 117 | 0.228 | 0.238 | 0.90 | 0.742 | 0.526 | 929.95 | 3.885 | 2.226E+05 | 2.226E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.46 | 0.63 | <= | 2.03 | 0.019 | 0.00 | 3.03 | 0.00 | 33.70 | 33.78 |
| 33.84 | 125.13 | 2.2827 | 74.64 | 1.79 | 2.40% | 2.474 | 0.72 | 47.02 | 2.38 | 2.23 | 117 | 0.230 | 0.239 | 0.90 | 0.744 | 0.526 | 930.90 | 3.886 | 2.230E+05 | 2.230E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.46 | 0.63 | <= | 2.03 | 0.014 | 0.00 | 3.01 | 0.00 | 33.78 | 33.84 |
| 33.93 | 124.92 | 2.2884 | 74.64 | 1.74 | 2.33% | 2.405 | 0.72 | 46.93 | 2.37 | 2.20 | 115 | 0.223 | 0.233 | 0.90 | 0.747 | 0.526 | 926.11 | 3.880 | 2.211E+05 | 2.211E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.45 | 0.62 | <= | 2.05 | 0.021 | 0.00 | 2.99 | 0.00 | 33.84 | 33.93 |
| 33.97 | 124.92 | 2.2909 | 74.44 | 1.74 | 2.34% | 2.412 | 0.72 | 46.76 | 2.37 | 2.21 | 115 | 0.223 | 0.233 | 0.90 | 0.748 | 0.526 | 926.11 | 3.880 | 2.211E+05 | 2.211E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.45 | 0.62 | <= | 2.05 | 0.009 | 0.00 | 2.97 | 0.00 | 33.93 | 33.97 |
| 34.05 | 125.09 | 2.2959 | 74.54 | 1.78 | 2.39% | 2.464 | 0.72 | 46.74 | 2.38 | 2.24 | 117 | 0.228 | 0.238 | 0.90 | 0.750 | 0.526 | 929.95 | 3.885 | 2.226E+05 | 2.226E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.46 | 0.63 | <= | 2.04 | 0.019 | 0.00 | 2.96 | 0.00 | 33.97 | 34.05 |
| 34.10 | 125.12 | 2.2990 | 74.44 | 1.79 | 2.40% | 2.481 | 0.72 | 46.63 | 2.38 | 2.25 | 117 | 0.229 | 0.239 | 0.90 | 0.752 | 0.526 | 930.90 | 3.886 | 2.230E+05 | 2.230E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.46 | 0.63 | <= | 2.03 | 0.012 | 0.00 | 2.95 | 0.00 | 34.05 | 34.10 |
| 34.16 | 125.06 | 2.3027 | 74.44 | 1.77 | 2.38% | 2.454 | 0.72 | 46.57 | 2.38 | 2.24 | 116 | 0.226 | 0.236 | 0.90 | 0.754 | 0.525 | 929.00 | 3.884 | 2.222E+05 | 2.222E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.45 | 0.63 | <= | 2.04 | 0.014 | 0.00 | 2.93 | 0.00 | 34.10 | 34.16 |
| 34.24 | 124.41 | 2.3077 | 74.34 | 1.63 | 2.19% | 2.263 | 0.72 | 46.43 | 2.36 | 2.14 | 112 | 0.209 | 0.219 | 0.90 | 0.756 | 0.525 | 915.06 | 3.864 | 2.167E+05 | 2.167E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.42 | 0.58 | <= | 2.11 | 0.019 | 0.00 | 2.92 | 0.00 | 34.16 | 34.24 |
| 34.31 | 124.21 | 2.3121 | 83.24 | 1.52 | 1.83% | 1.878 | 0.69 | 52.09 | 2.26 | 1.83 | 108 | 0.198 | 0.379 | 0.90 | 0.758 | 0.525 | 903.24 | 3.857 | 2.115E+05 | 2.115E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.73 | 1.00 | <= | 0.53 | 0.004 | 0.00 | 2.90 | 0.00 | 34.24 | 34.31 |
| 34.37 | 124.29 | 2.3158 | 86.07 | 1.52 | 1.77% | 1.815 | 0.68 | 53.85 | 2.24 | 1.77 | 108 | 0.199 | 0.363 | 0.90 | 0.760 | 0.525 | 903.24 | 3.860 | 2.114E+05 | 2.114E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.70 | 0.96 | <= | 1.15 | 0.008 | 0.00 | 2.90 | 0.00 | 34.31 | 34.37 |
| 34.43 | 124.54 | 2.3195 | 81.57 | 1.60 | 1.96% | 2.019 | 0.70 | 50.89 | 2.29 | 1.92 | 111 | 0.206 | 0.394 | 0.90 | 0.762 | 0.525 | 911.92 | 3.868 | 2.150E+05 | 2.150E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.76 | 1.04 | <= | 0.64 | 0.005 | 0.00 | 2.89 | 0.00 | 34.37 | 34.43 |
| 34.51 | 124.55 | 2.3245 | 70.24 | 1.69 | 2.41% | 2.488 | 0.73 | 43.54 | 2.41 | 2.34 | 114 | 0.217 | 0.234 | 0.89 | 0.765 | 0.525 | 921.18 | 3.868 | 2.194E+05 | 2.194E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.45 | 0.62 | <= | 2.08 | 0.019 | 0.00 | 2.88 | 0.00 | 34.43 | 34.51 |
| 34.58 | 122.58 | 2.3288 | 59.00 | 1.37 | 2.32% | 2.417 | 0.75 | 36.28 | 2.46 | 2.57 | 104 | 0.183 | 0.213 | 0.89 | 0.767 | 0.525 | 885.67 | 3.807 | 2.061E+05 | 2.061E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.41 | 0.56 | <= | 2.24 | 0.018 | 0.00 | 2.86 | 0.00 | 34.51 | 34.58 |
| 34.64 | 121.40 | 2.3325 | 58.66 | 1.17 | 1.99% | 2.077 | 0.73 | 36.02 | 2.42 | 2.39 | 96 | 0.162 | 0.192 | 0.89 | 0.769 | 0.525 | 858.97 | 3.770 | 1.957E+05 | 1.957E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.37 | 0.51 | <= | 2.39 | 0.016 | 0.00 | 2.85 | 0.00 | 34.58 | 34.64 |
| 34.72 | 121.54 | 2.3373 | 56.36 | 1.20 | 2.13% | 2.221 | 0.74 | 34.50 | 2.45 | 2.54 | 97 | 0.166 | 0.197 | 0.89 | 0.771 | 0.525 | 863.26 | 3.775 | 1.974E+05 | 1.974E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.38 | 0.52 | <= | 2.36 | 0.022 | 0.00 | 2.83 | 0.00 | 34.64 | 34.72 |
| 34.77 | 121.90 | 2.3404 | 58.32 | 1.25 | 2.14% | 2.233 | 0.74 | 35.71 | 2.44 | 2.49 | 99 | 0.170 | 0.198 | 0.89 | 0.773 | 0.525 | 870.16 | 3.786 | 2.000E+05 | 2.000E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.38 | 0.52 | <= | 2.33 | 0.013 | 0.00 | 2.81 | 0.00 | 34.72 | 34.77 |
| 34.86 | 122.60 | 2.3459 | 60.37 | 1.36 | 2.25% | 2.344 | 0.74 | 36.95 | 2.44 | 2.50 | 103 | 0.181 | 0.211 | 0.89 | 0.776 | 0.525 | 884.43 | 3.807 | 2.054E+05 | 2.054E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.41 | 0.56 | <= | 2.26 | 0.023 | 0.00 | 2.79 | 0.00 | 34.77 | 34.86 |
| 34.89 | 122.65 | 2.3477 | 57.24 | 1.39 | 2.43% | 2.532 | 0.75 | 34.94 | 2.49 | 2.70 | 104 | 0.186 | 0.216 | 0.89 | 0.777 | 0.525 | 888.12 | 3.809 | 2.071E+05 | 2.071E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.42 | 0.57 | <= | 2.23 | 0.008 | 0.00 | 2.77 | 0.00 | 34.86 | 34.89 |
| 34.95 | 122.96 | 2.3514 | 56.85 | 1.46 | 2.57% | 2.679 | 0.76 | 34.65 | 2.51 | 2.80 | 107 | 0.194 | 0.226 | 0.89 | 0.778 | 0.525 | 896.43 | 3.819 | 2.104E+05 | 2.104E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.44 | 0.60 | <= | 2.18 | 0.015 | 0.00 | 2.76 | 0.00 | 34.89 | 34.95 |
| 35.02 | 122.69 | 2.3557 | 50.89 | 1.46 | 2.87% | 3.008 | 0.78 | 30.81 | 2.58 | 3.21 | 108 | 0.198 | 0.235 | 0.89 | 0.781 | 0.525 | 896.43 | 3.810 | 2.109E+05 | 2.109E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.45 | 0.62 | <= | 2.17 | 0.017 | 0.00 | 2.75 | 0.00 | 34.95 | 35.02 |
| 35.09 | 122.17 | 2.3600 | 41.02 | 1.46 | 3.56% | 3.777 | 0.83 | 24.51 | 2.73 | 4.19 | 138 | 0.325 | 0.325 | 0.89 | 0.783 | 0.524 | 896.43 | 3.794 | 2.118E+05 | 2.118E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.16 | 121.67 | 2.3642 | 35.16 | 1.44 | 4.10% | 4.391 | 0.86 | 20.77 | 2.83 | 5.02 | 166 | 0.502 | 0.502 | 0.89 | 0.785 | 0.524 | 894.10 | 3.779 | 2.116E+05 | 2.116E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.21 | 121.04 | 2.3673 | 29.30 | 1.40 | 4.78% | 5.198 | 0.89 | 17.04 | 2.94 | 6.15 | 203 | 0.857 | 0.857 | 0.89 | 0.787 | 0.524 | 889.33 | 3.759 | 2.104E+05 | 2.104E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.30 | 119.93 | 2.3727 | 23.53 | 1.29 | 5.48% | 6.097 | 0.93 | 13.36 | 3.08 | 7.62 | 251 | 1.558 | 1.558 | 0.89 | 0.789 | 0.524 | 875.49 | 3.725 | 2.058E+05 | 2.058E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.34 | 119.38 | 2.3750 | 21.28 | 1.24 | 5.83% | 6.559 | 0.95 | 11.93 | 3.14 | 8.38 | 277 | 2.047 | 2.047 | 0.89 | 0.791 | 0.524 | 868.80 | 3.707 | 2.036E+05 | 2.036E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-1

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A ($ft^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35.42 | 118.58 | 2.3798 | 18.55 | 1.16 | 6.25% | 7.174 | 0.97 | 10.19 | 3.22 | 9.48 | 313 | 2.926 | 2.926 | 0.89 | 0.793 | 0.524 | 857.52 | 3.683 | 1.997E+05 | 1.997E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.47 | 118.17 | 2.3827 | 18.60 | 1.10 | 5.91% | 6.783 | 0.97 | 10.21 | 3.20 | 9.24 | 305 | 2.716 | 2.716 | 0.89 | 0.795 | 0.524 | 848.54 | 3.670 | 1.962E+05 | 1.962E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.57 | 117.26 | 2.3886 | 18.16 | 0.98 | 5.40% | 6.214 | 0.96 | 9.91 | 3.18 | 9.03 | 298 | 2.542 | 2.542 | 0.89 | 0.798 | 0.524 | 829.00 | 3.642 | 1.887E+05 | 1.887E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.61 | 117.06 | 2.3909 | 18.65 | 0.94 | 5.04% | 5.781 | 0.95 | 10.21 | 3.15 | 8.61 | 284 | 2.214 | 2.214 | 0.89 | 0.799 | 0.524 | 821.95 | 3.635 | 1.858E+05 | 1.858E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.67 | 117.10 | 2.3945 | 17.77 | 0.96 | 5.40% | 6.244 | 0.97 | 9.65 | 3.20 | 9.18 | 303 | 2.667 | 2.667 | 0.89 | 0.801 | 0.524 | 825.51 | 3.637 | 1.874E+05 | 1.874E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.74 | 117.70 | 2.3986 | 17.77 | 1.04 | 5.85% | 6.766 | 0.97 | 9.63 | 3.22 | 9.51 | 314 | 2.958 | 2.958 | 0.88 | 0.803 | 0.524 | 839.05 | 3.655 | 1.926E+05 | 1.926E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.81 | 118.46 | 2.4027 | 19.04 | 1.12 | 5.88% | 6.732 | 0.97 | 10.41 | 3.19 | 9.11 | 301 | 2.609 | 2.609 | 0.88 | 0.805 | 0.524 | 851.58 | 3.679 | 1.971E+05 | 1.971E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.88 | 118.79 | 2.4069 | 19.92 | 1.16 | 5.82% | 6.624 | 0.96 | 10.95 | 3.17 | 8.81 | 291 | 2.366 | 2.366 | 0.88 | 0.807 | 0.524 | 857.52 | 3.689 | 1.993E+05 | 1.993E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 35.94 | 118.79 | 2.4104 | 21.38 | 1.13 | 5.29% | 5.957 | 0.94 | 11.85 | 3.11 | 8.05 | 266 | 1.822 | 1.822 | 0.88 | 0.809 | 0.524 | 853.09 | 3.689 | 1.973E+05 | 1.973E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.00 | 118.52 | 2.4140 | 22.26 | 1.08 | 4.85% | 5.442 | 0.93 | 12.38 | 3.07 | 7.53 | 249 | 1.508 | 1.508 | 0.88 | 0.811 | 0.523 | 845.43 | 3.681 | 1.942E+05 | 1.942E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.08 | 118.33 | 2.4187 | 23.63 | 1.03 | 4.36% | 4.856 | 0.91 | 13.22 | 3.01 | 6.88 | 227 | 1.169 | 1.169 | 0.88 | 0.814 | 0.523 | 837.41 | 3.675 | 1.908E+05 | 1.908E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.15 | 118.21 | 2.4229 | 24.90 | 1.00 | 4.02% | 4.449 | 0.90 | 13.99 | 2.97 | 6.38 | 211 | 0.950 | 0.950 | 0.88 | 0.816 | 0.523 | 832.41 | 3.671 | 1.887E+05 | 1.887E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.20 | 117.90 | 2.4258 | 24.31 | 0.96 | 3.95% | 4.387 | 0.90 | 13.61 | 2.97 | 6.45 | 213 | 0.975 | 0.975 | 0.88 | 0.817 | 0.523 | 825.51 | 3.661 | 1.861E+05 | 1.861E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.26 | 117.32 | 2.4293 | 22.55 | 0.91 | 4.04% | 4.523 | 0.91 | 12.50 | 3.01 | 6.87 | 227 | 1.166 | 1.166 | 0.88 | 0.819 | 0.523 | 816.46 | 3.643 | 1.830E+05 | 1.830E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.34 | 116.60 | 2.4340 | 20.50 | 0.86 | 4.20% | 4.760 | 0.93 | 11.21 | 3.06 | 7.50 | 247 | 1.487 | 1.487 | 0.88 | 0.822 | 0.523 | 806.90 | 3.621 | 1.798E+05 | 1.798E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.41 | 116.07 | 2.4381 | 19.33 | 0.81 | 4.19% | 4.795 | 0.94 | 10.47 | 3.09 | 7.82 | 258 | 1.677 | 1.677 | 0.88 | 0.824 | 0.523 | 796.77 | 3.605 | 1.761E+05 | 1.761E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.46 | 115.90 | 2.4410 | 18.84 | 0.80 | 4.25% | 4.878 | 0.94 | 10.15 | 3.11 | 8.02 | 265 | 1.801 | 1.801 | 0.88 | 0.826 | 0.523 | 794.67 | 3.599 | 1.754E+05 | 1.754E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.54 | 115.92 | 2.4456 | 19.04 | 0.80 | 4.20% | 4.821 | 0.94 | 10.26 | 3.10 | 7.93 | 262 | 1.744 | 1.744 | 0.88 | 0.828 | 0.523 | 794.67 | 3.600 | 1.754E+05 | 1.754E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.59 | 115.92 | 2.4485 | 18.94 | 0.80 | 4.22% | 4.851 | 0.94 | 10.19 | 3.10 | 7.98 | 263 | 1.778 | 1.778 | 0.88 | 0.830 | 0.523 | 794.67 | 3.600 | 1.754E+05 | 1.754E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.68 | 116.04 | 2.4537 | 18.89 | 0.81 | 4.29% | 4.928 | 0.94 | 10.14 | 3.11 | 8.06 | 266 | 1.828 | 1.828 | 0.88 | 0.832 | 0.523 | 796.77 | 3.604 | 1.762E+05 | 1.762E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.72 | 116.13 | 2.4560 | 18.89 | 0.82 | 4.34% | 4.990 | 0.94 | 10.13 | 3.11 | 8.10 | 267 | 1.859 | 1.859 | 0.88 | 0.834 | 0.523 | 798.84 | 3.607 | 1.769E+05 | 1.769E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.82 | 116.93 | 2.4619 | 18.84 | 0.92 | 4.88% | 5.617 | 0.95 | 10.08 | 3.15 | 8.56 | 283 | 2.177 | 2.177 | 0.88 | 0.837 | 0.523 | 818.31 | 3.631 | 1.844E+05 | 1.844E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.85 | 117.52 | 2.4637 | 19.33 | 0.98 | 5.07% | 5.810 | 0.95 | 10.37 | 3.15 | 8.55 | 282 | 2.171 | 2.171 | 0.88 | 0.838 | 0.523 | 829.00 | 3.650 | 1.883E+05 | 1.883E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.95 | 117.65 | 2.4695 | 21.87 | 0.96 | 4.39% | 4.948 | 0.92 | 11.91 | 3.05 | 7.36 | 243 | 1.414 | 1.414 | 0.87 | 0.841 | 0.522 | 825.51 | 3.654 | 1.865E+05 | 1.865E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 36.98 | 117.42 | 2.4713 | 23.53 | 0.91 | 3.87% | 4.321 | 0.90 | 12.92 | 2.99 | 6.59 | 218 | 1.038 | 1.038 | 0.87 | 0.842 | 0.522 | 816.46 | 3.647 | 1.828E+05 | 1.828E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.07 | 118.82 | 2.4766 | 27.64 | 1.05 | 3.80% | 4.173 | 0.88 | 15.42 | 2.91 | 5.83 | 193 | 0.744 | 0.744 | 0.87 | 0.845 | 0.522 | 840.67 | 3.690 | 1.915E+05 | 1.915E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.13 | 120.77 | 2.4803 | 32.52 | 1.29 | 3.97% | 4.294 | 0.87 | 18.39 | 2.86 | 5.32 | 176 | 0.584 | 0.584 | 0.87 | 0.846 | 0.522 | 875.49 | 3.751 | 2.044E+05 | 2.044E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.18 | 122.18 | 2.4833 | 36.62 | 1.51 | 4.12% | 4.423 | 0.86 | 20.87 | 2.83 | 5.01 | 165 | 0.499 | 0.499 | 0.87 | 0.848 | 0.522 | 902.13 | 3.794 | 2.145E+05 | 2.145E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.26 | 123.33 | 2.4883 | 38.29 | 1.74 | 4.54% | 4.860 | 0.86 | 21.86 | 2.84 | 5.12 | 169 | 0.529 | 0.529 | 0.87 | 0.851 | 0.522 | 926.11 | 3.830 | 2.239E+05 | 2.239E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.32 | 123.53 | 2.4920 | 35.84 | 1.83 | 5.11% | 5.488 | 0.88 | 20.34 | 2.90 | 5.70 | 188 | 0.697 | 0.697 | 0.87 | 0.852 | 0.522 | 934.64 | 3.836 | 2.277E+05 | 2.277E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.39 | 123.16 | 2.4963 | 31.74 | 1.82 | 5.73% | 6.224 | 0.90 | 17.81 | 2.98 | 6.55 | 216 | 1.021 | 1.021 | 0.87 | 0.855 | 0.522 | 933.71 | 3.825 | 2.279E+05 | 2.279E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.44 | 122.29 | 2.4993 | 28.22 | 1.68 | 5.95% | 6.532 | 0.92 | 15.65 | 3.04 | 7.21 | 238 | 1.333 | 1.333 | 0.87 | 0.856 | 0.522 | 920.17 | 3.798 | 2.229E+05 | 2.229E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.53 | 120.64 | 2.5048 | 24.02 | 1.42 | 5.91% | 6.600 | 0.94 | 13.07 | 3.11 | 7.99 | 264 | 1.787 | 1.787 | 0.87 | 0.859 | 0.522 | 891.73 | 3.747 | 2.122E+05 | 2.122E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.57 | 119.54 | 2.5071 | 21.58 | 1.26 | 5.84% | 6.606 | 0.95 | 11.58 | 3.15 | 8.53 | 282 | 2.158 | 2.158 | 0.87 | 0.860 | 0.521 | 871.51 | 3.712 | 2.046E+05 | 2.046E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.66 | 117.47 | 2.5124 | 18.45 | 1.00 | 5.42% | 6.274 | 0.97 | 9.66 | 3.20 | 9.19 | 303 | 2.673 | 2.673 | 0.87 | 0.863 | 0.521 | 832.41 | 3.648 | 1.899E+05 | 1.899E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.74 | 116.12 | 2.5171 | 16.98 | 0.86 | 5.06% | 5.946 | 0.97 | 8.76 | 3.22 | 9.46 | 312 | 2.913 | 2.913 | 0.87 | 0.865 | 0.521 | 806.90 | 3.606 | 1.805E+05 | 1.805E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.77 | 115.70 | 2.5188 | 16.69 | 0.81 | 4.85% | 5.716 | 0.97 | 8.58 | 3.21 | 9.41 | 311 | 2.867 | 2.867 | 0.87 | 0.866 | 0.521 | 796.77 | 3.593 | 1.767E+05 | 1.767E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.84 | 114.50 | 2.5228 | 15.81 | 0.70 | 4.43% | 5.268 | 0.97 | 8.03 | 3.21 | 9.43 | 311 | 2.880 | 2.880 | 0.87 | 0.869 | 0.521 | 772.08 | 3.556 | 1.676E+05 | 1.676E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.93 | 113.26 | 2.5279 | 14.93 | 0.60 | 4.02% | 4.838 | 0.97 | 7.49 | 3.22 | 9.46 | 312 | 2.910 | 2.910 | 0.87 | 0.871 | 0.521 | 746.00 | 3.517 | 1.582E+05 | 1.582E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 37.98 | 113.01 | 2.5307 | 14.83 | 0.59 | 3.98% | 4.797 | 0.97 | 7.42 | 3.22 | 9.48 | 313 | 2.924 | 2.924 | 0.87 | 0.873 | 0.521 | 743.16 | 3.510 | 1.574E+05 | 1.574E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.06 | 113.18 | 2.5353 | 15.62 | 0.59 | 3.78% | 4.509 | 0.96 | 7.88 | 3.18 | 8.93 | 295 | 2.462 | 2.462 | 0.87 | 0.875 | 0.521 | 743.16 | 3.515 | 1.571E+05 | 1.571E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.10 | 112.94 | 2.5375 | 15.03 | 0.58 | 3.86% | 4.643 | 0.97 | 7.52 | 3.20 | 9.28 | 306 | 2.751 | 2.751 | 0.87 | 0.877 | 0.521 | 740.27 | 3.507 | 1.562E+05 | 1.562E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.20 | 111.34 | 2.5431 | 14.25 | 0.47 | 3.30% | 4.015 | 0.96 | 7.04 | 3.19 | 9.09 | 300 | 2.588 | 2.588 | 0.86 | 0.880 | 0.521 | 704.69 | 3.458 | 1.436E+05 | 1.436E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.23 | 110.15 | 2.5447 | 14.25 | 0.40 | 2.81% | 3.417 | 0.95 | 7.03 | 3.15 | 8.53 | 281 | 2.154 | 2.154 | 0.86 | 0.881 | 0.521 | 677.41 | 3.421 | 1.341E+05 | 1.341E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.31 | 107.59 | 2.5491 | 14.44 | 0.28 | 1.94% | 2.355 | 0.92 | 7.14 | 3.05 | 7.31 | 241 | 1.384 | 1.384 | 0.86 | 0.883 | 0.521 | 617.08 | 3.341 | 1.140E+05 | 1.140E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.37 | 109.01 | 2.5523 | 14.74 | 0.34 | 2.31% | 2.790 | 0.93 | 7.31 | 3.08 | 7.69 | 254 | 1.602 | 1.602 | 0.86 | 0.885 | 0.521 | 649.92 | 3.385 | 1.248E+05 | 1.248E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.44 | 110.51 | 2.5562 | 14.74 | 0.42 | 2.85% | 3.447 | 0.95 | 7.30 | 3.13 | 8.37 | 276 | 2.042 | 2.042 | 0.86 | 0.887 | 0.520 | 685.67 | 3.432 | 1.370E+05 | 1.370E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.51 | 112.02 | 2.5601 | 14.74 | 0.51 | 3.46% | 4.187 | 0.96 | 7.29 | 3.19 | 9.06 | 299 | 2.564 | 2.564 | 0.86 | 0.890 | 0.520 | 718.51 | 3.479 | 1.484E+05 | 1.484E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.57 | 112.62 | 2.5635 | 12.59 | 0.59 | 4.69% | 5.884 | 1.00 | 6.00 | 3.35 | 11.47 | 378 | 5.117 | 5.117 | 0.86 | 0.891 | 0.520 | 743.16 | 3.498 | 1.579E+05 | 1.579E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.63 | 113.85 | 2.5669 | 15.03 | 0.65 | 4.32% | 5.215 | 0.98 | 7.45 | 3.24 | 9.78 | 323 | 3.207 | 3.207 | 0.86 | 0.893 | 0.520 | 759.54 | 3.536 | 1.632E+05 | 1.632E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.70 | 114.82 | 2.5709 | 16.59 | 0.72 | 4.34% | 5.136 | 0.97 | 8.37 | 3.19 | 9.12 | 301 | 2.614 | 2.614 | 0.86 | 0.895 | 0.520 | 776.84 | 3.566 | 1.692E+05 | 1.692E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.76 | 115.44 | 2.5744 | 17.28 | 0.78 | 4.51% | 5.304 | 0.96 | 8.77 | 3.18 | 9.01 | 297 | 2.523 | 2.523 | 0.86 | 0.897 | 0.520 | 790.38 | 3.585 | 1.743E+05 | 1.743E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.83 | 116.35 | 2.5785 | 17.96 | 0.87 | 4.84% | 5.656 | 0.96 | 9.16 | 3.18 | 9.04 | 298 | 2.548 | 2.548 | 0.86 | 0.899 | 0.520 | 808.86 | 3.613 | 1.811E+05 | 1.811E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.91 | 117.43 | 2.5832 | 18.74 | 0.99 | 5.28% | 6.127 | 0.97 | 9.61 | 3.19 | 9.12 | 301 | 2.614 | 2.614 | 0.86 | 0.902 | 0.520 | 830.71 | 3.647 | 1.892E+05 | 1.892E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 38.95 | 117.99 | 2.5855 | 19.23 | 1.06 | 5.51% | 6.368 | 0.97 | 9.89 | 3.19 | 9.13 | 301 | 2.623 | 2.623 | 0.86 | 0.903 | 0.520 | 842.27 | 3.664 | 1.936E+05 | 1.936E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 39.04 | 119.48 | 2.5909 | 21.77 | 1.25 | 5.74% | 6.518 | 0.95 | 11.38 | 3.15 | 8.56 | 282 | 2.173 | 2.173 | 0.86 | 0.906 | 0.520 | 870.16 | 3.711 | 2.041E+05 | 2.041E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 39.09 | 120.28 | 2.5939 | 24.70 | 1.33 | 5.38% | 6.016 | 0.93 | 13.11 | 3.08 | 7.63 | 252 | 1.566 | 1.566 | 0.86 | 0.908 | 0.519 | 880.66 | 3.735 | 2.076E+05 | 2.076E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 39.16 | 121.01 | 2.5981 | 27.83 | 1.42 | 5.10% | 5.628 | 0.91 | 14.94 | 3.01 | 6.87 | 227 | 1.163 | 1.163 | 0.86 | 0.910 | 0.519 | 891.73 | 3.758 | 2.116E+05 | 2.116E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 39.22 | 121.54 | 2.6018 | 31.54 | 1.46 | 4.63% | 5.045 | 0.89 | 17.12 | 2.93 | 6.01 | 198 | 0.807 | 0.807 | 0.86 | 0.912 | 0.519 | 896.43 | 3.775 | 2.129E+05 | 2.129E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 39.29 | 122.22 | 2.6061 | 38.09 | 1.50 | 3.94% | 4.227 | 0.85 | 20.97 | 2.81 | 4.86 | 160 | 0.463 | 0.463 | 0.86 | 0.914 | 0.519 | 901.00 | 3.796 | 2.139E+05 | 2.139E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 39.35 | 123.18 | 2.6098 | 51.77 | 1.55 | 2.99% | 3.153 | 0.79 | 29.02 | 2.61 | 3.38 | 112 | 0.209 | 0.248 | 0.86 | 0.916 | 0.519 | 906.55 | 3.825 | 2.148E+05 | 2.148E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.73 | 0.00 | | |
| 39.42 | 124.21 | 2.6141 | 73.07 | 1.59 | 2.18% | 2.257 | 0.72 | 41.54 | 2.39 | 2.25 | 107 | 0.194 | 0.210 | 0.85 | 0.918 | 0.519 | 910.86 | 3.857 | 2.151E+05 | 2.151E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.41 | 0.56 | <= | 2.18 | 0.018 | 0.00 | 2.73 | 0.00 | 39.35 | 39.42 |
| 39.49 | 125.10 | 2.6185 | 97.31 | 1.63 | 1.68% | 1.721 | 0.67 | 55.75 | 2.20 | 1.67 | 110 | 0.203 | 0.340 | 0.85 | 0.920 | 0.519 | 915.06 | 3.885 | 2.155E+05 | 2.155E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.66 | 0.91 | <= | 0.87 | 0.007 | 0.00 | 2.71 | 0.00 | 39.42 | 39.49 |
| 39.55 | 125.51 | 2.6222 | 118.02 | 1.62 | 1.37% | 1.404 | 0.63 | 67.87 | 2.07 | 1.41 | 115 | 0.220 | 0.313 | 0.85 | 0.922 | 0.519 | 914.02 | 3.898 | 2.143E+05 | 2.143E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.61 | 0.84 | <= | 1.57 | 0.011 | 0.00 | 2.71 | 0.00 | 39.49 | 39.55 |
| 39.62 | 125.68 | 2.6266 | 136.88 | 1.58 | 1.15% | 1.177 | 0.60 | 78.86 | 1.97 | 1.26 | 121 | 0.246 | 0.280 | 0.85 | 0.924 | 0.518 | 909.79 | 3.903 | 2.121E+05 | 2.121E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.55 | 0.75 | <= | 1.76 | 0.012 | 0.00 | 2.69 | 0.00 | 39.55 | 39.62 |
| 39.70 | 125.66 | 2.6317 | 159.45 | 1.49 | 0.93% | 0.950 | 0.56 | 91.97 | 1.85 | 1.15 | 131 | 0.288 | 0.288 | 0.85 | 0.927 | 0.518 | 899.87 | 3.902 | 2.075E+05 | 2.075E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.56 | 0.77 | <= | 1.59 | 0.010 | 0.00 | 2.68 | 0.00 | 39.62 | 39.70 |
| 39.75 | 125.76 | 2.6348 | 169.91 | 1.48 | 0.87% | 0.885 | 0.55 | 98.02 | 1.81 | 1.11 | 136 | 0.315 | 0.315 | 0.85 | 0.928 | 0.518 | 898.73 | 3.906 | 2.068E+05 | 2.068E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.62 | 0.85 | <= | 1.12 | 0.004 | 0.00 | 2.67 | 0.00 | 39.70 | 39.75 |
| 39.83 | 126.05 | 2.6399 | 187.50 | 1.49 | 0.79% | 0.806 | 0.53 | 108.16 | 1.75 | 1.07 | 146 | 0.369 | 0.369 | 0.85 | 0.931 | 0.518 | 899.87 | 3.915 | 2.069E+05 | 2.069E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.72 | 0.99 | <= | 0.86 | 0.005 | 0.00 | 2.67 | 0.00 | 39.75 | 39.83 |
| 39.87 | 126.14 | 2.6424 | 195.41 | 1.49 | 0.76% | 0.773 | 0.52 | 112.70 | 1.72 | 1.05 | 150 | 0.395 | 0.395 | 0.85 | 0.932 | 0.518 | 899.87 | 3.917 | 2.067E+05 | 2.067E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.77 | 1.06 | <= | 0.53 | 0.002 | 0.00 | 2.66 | 0.00 | 39.83 | 39.87 |
| 39.96 | 126.47 | 2.6481 | 207.63 | 1.53 | 0.74% | 0.746 | 0.51 | 119.64 | 1.69 | 1.03 | 157 | 0.440 | 0.440 | 0.85 | 0.935 | 0.518 | 904.35 | 3.928 | 2.082E+05 | 2.082E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.86 | 1.18 | <= | 0.39 | 0.000 | 0.00 | 2.66 | 0.00 | 39.87 | 39.96 |
| 40.02 | 126.70 | 2.6519 | 213.10 | 1.56 | 0.73% | 0.741 | 0.51 | 122.69 | 1.68 | 1.02 | 160 | 0.462 | 0.462 | 0.85 | 0.937 | 0.518 | 907.64 | 3.935 | 2.094E+05 | 2.094E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.90 | 1.24 | <= | 0.24 | 0.000 | 0.00 | 2.66 | 0.00 | 39.96 | 40.02 |
| 40.08 | 126.06 | 2.6557 | 214.66 | 1.43 | 0.67% | 0.675 | 0.50 | 123.46 | 1.65 | 1.00 | 159 | 0.452 | 0.452 | 0.85 | 0.938 | 0.517 | 892.92 | 3.915 | 2.037E+05 | 2.037E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.88 | 1.21 | <= | 0.22 | 0.000 | 0.00 | 2.66 | 0.00 | 40.02 | 40.08 |
| 40.16 | 123.91 | 2.6606 | 213.49 | 1.07 | 0.50% | 0.508 | 0.50 | 122.60 | 1.57 | 1.00 | 158 | 0.444 | 0.444 | 0.85 | 0.941 | 0.517 | 843.86 | 3.848 | 1.851E+05 | 1.851E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.87 | 1.19 | <= | 0.40 | 0.000 | 0.00 | 2.66 | 0.00 | 40.08 | 40.16 |
| 40.20 | 123.88 | 2.6631 | 210.75 | 1.07 | 0.51% | 0.514 | 0.50 | 120.92 | 1.58 | 1.00 | 156 | 0.430 | 0.430 | 0.85 | 0.942 | 0.517 | 843.86 | 3.847 | 1.851E+05 | 1.851E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.84 | 1.16 | <= | 0.36 | 0.000 | 0.00 | 2.66 | 0.00 | 40.16 | 40.20 |
| 40.29 | 118.40 | 2.6684 | 199.71 | 0.51 | 0.26% | 0.259 | 0.50 | 114.34 | 1.45 | 1.00 | 147 | 0.377 | 0.398 | 0.85 | 0.945 | 0.517 | 718.51 | 3.677 | 1.404E+05 | 1.404E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.78 | 1.07 | <= | 0.56 | 0.004 | 0.00 | 2.66 | 0.00 | 40.20 | 40.29 |
| 40.33 | 120.48 | 2.6708 | 191.70 | 0.69 | 0.36% | 0.365 | 0.50 | 109.61 | 1.53 | 1.00 | 141 | 0.342 | 0.342 | 0.85 | 0.946 | 0.517 | 769.64 | 3.742 | 1.583E+05 | 1.583E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.67 | 0.92 | <= | 0.69 | 0.002 | 0.00 | 2.66 | 0.00 | 40.29 | 40.33 |
| 40.42 | 124.23 | 2.6764 | 168.93 | 1.21 | 0.72% | 0.728 | 0.54 | 96.25 | 1.76 | 1.08 | 131 | 0.290 | 0.290 | 0.85 | 0.949 | 0.517 | 864.66 | 3.858 | 1.938E+05 | 1.938E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.57 | 0.78 | <= | 1.60 | 0.012 | 0.00 | 2.65 | 0.00 | 40.33 | 40.42 |
| 40.47 | 125.04 | 2.6795 | 130.04 | 1.47 | 1.13% | 1.154 | 0.60 | 73.67 | 1.98 | 1.28 | 115 | 0.223 | 0.282 | 0.85 | 0.951 | 0.517 | 897.59 | 3.883 | 2.075E+05 | 2.075E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.55 | 0.76 | <= | 1.89 | 0.011 | 0.00 | 2.64 | 0.00 | 40.42 | 40.47 |
| 40.55 | 126.49 | 2.6846 | 118.41 | 1.85 | 1.56% | 1.599 | 0.64 | 66.84 | 2.12 | 1.49 | 119 | 0.237 | 0.301 | 0.85 | 0.953 | 0.516 | 936.48 | 3.928 | 2.233E+05 | 2.233E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.59 | 0.81 | <= | 1.27 | 0.012 | 0.00 | 2.63 | 0.00 | 40.47 | 40.55 |
| 40.60 | 126.34 | 2.6878 | 97.80 | 1.93 | 1.97% | 2.029 | 0.68 | 54.88 | 2.26 | 1.82 | 117 | 0.229 | 0.371 | 0.85 | 0.955 | 0.516 | 943.64 | 3.924 | 2.269E+05 | 2.269E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.73 | 1.00 | <= | 1.21 | 0.007 | 0.00 | 2.62 | 0.00 | 40.55 | 40.60 |
| 40.67 | 125.81 | 2.6922 | 76.30 | 1.95 | 2.56% | 2.649 | 0.74 | 42.42 | 2.43 | 2.42 | 117 | 0.231 | 0.238 | 0.84 | 0.957 | 0.516 | 945.38 | 3.907 | 2.287E+05 | 2.287E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.47 | 0.64 | <= | 2.03 | 0.016 | 0.00 | 2.61 | 0.00 | 40.60 | 40.67 |
| 40.73 | 125.54 | 2.6959 | 69.16 | 1.94 | 2.81% | 2.919 | 0.75 | 38.26 | 2.49 | 2.72 | 118 | 0.232 | 0.247 | 0.84 | 0.959 | 0.516 | 944.51 | 3.899 | 2.288E+05 | 2.288E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.48 | 0.66 | <= | 2.02 | 0.014 | 0.00 | 2.60 | 0.00 | 40.67 | 40.73 |
| 40.79 | 125.24 | 2.6997 | 63.40 | 1.92 | 3.03% | 3.163 | 0.77 | 34.90 | 2.55 | 3.01 | 118 | 0.233 | 0.254 | 0.84 | 0.961 | 0.516 | 942.76 | 3.889 | 2.285E+05 | 2.285E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.50 | 0.69 | <= | 2.02 | 0.014 | 0.00 | 2.58 | 0.00 | 40.73 | 40.79 |
| 40.87 | 125.11 | 2.7047 | 60.08 | 1.92 | 3.20% | 3.346 | 0.78 | 32.95 | 2.58 | 3.22 | 119 | 0.235 | 0.263 | 0.84 | 0.963 | 0.516 | 942.76 | 3.885 | 2.288E+05 | 2.288E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.52 | 0.71 | <= | 2.01 | 0.019 | 0.00 | 2.57 | 0.00 | 40.79 | 40.87 |
| 40.93 | 125.18 | 2.7084 | 61.15 | 1.92 | 3.14% | 3.285 | 0.78 | 33.52 | 2.57 | 3.15 | 118 | 0.234 | 0.262 | 0.84 | 0.965 | 0.516 | 942.76 | 3.888 | 2.286E+05 | 2.286E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.51 | 0.71 | <= | 2.01 | 0.014 | 0.00 | 2.55 | 0.00 | 40.87 | 40.93 |
| 41.00 | 125.43 | 2.7128 | 65.65 | 1.95 | 2.97% | 3.098 | 0.77 | 36.05 | 2.53 | 2.91 | 119 | 0.235 | 0.257 | 0.84 | 0.967 | 0.515 | 945.38 | 3.895 | 2.294E+05 | 2.294E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.50 | 0.69 | <= | 2.01 | 0.016 | 0.00 | 2.54 | 0.00 | 40.93 | 41.00 |
| 41.06 | 125.38 | 2.7166 | 69.85 | 1.89 | 2.71% | 2.815 | 0.75 | 38.42 | 2.48 | 2.65 | 116 | 0.225 | 0.240 | 0.84 | 0.969 | 0.515 | 940.10 | 3.894 | 2.270E+05 | 2.270E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.47 | 0.65 | <= | 2.05 | 0.014 | 0.00 | 2.52 | 0.00 | 41.00 | 41.06 |
| 41.13 | 124.94 | 2.7210 | 70.34 | 1.78 | 2.53% | 2.632 | 0.74 | 38.65 | 2.45 | 2.55 | 112 | 0.212 | 0.226 | 0.84 | 0.971 | 0.515 | 929.95 | 3.880 | 2.229E+05 | 2.229E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.44 | 0.61 | <= | 2.10 | 0.017 | 0.00 | 2.51 | 0.00 | 41.06 | 41.13 |
| 41.20 | 124.44 | 2.7253 | 69.95 | 1.66 | 2.37% | 2.469 | 0.74 | 38.37 | 2.44 | 2.47 | 109 | 0.199 | 0.218 | 0.84 | 0.973 | 0.515 | 918.15 | 3.865 | 2.181E+05 | 2.181E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.43 | 0.59 | <= | 2.16 | 0.017 | 0.00 | 2.49 | 0.00 | 41.13 | 41.20 |
| 41.26 | 124.14 | 2.7291 | 69.26 | 1.60 | 2.31% | 2.405 | 0.74 | 37.94 | 2.43 | 2.45 | 107 | 0.193 | 0.211 | 0.84 | 0.975 | 0.515 | 911.92 | 3.855 | 2.157E+05 | 2.157E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.41 | 0.57 | <= | 2.19 | 0.015 | 0.00 | 2.47 | 0.00 | 41.20 | 41.26 |
| 41.35 | 124.06 | 2.7346 | 68.58 | 1.59 | 2.32% | 2.415 | 0.74 | 37.49 | 2.44 | 2.47 | 106 | 0.192 | 0.210 | 0.84 | 0.978 | 0.515 | 910.86 | 3.853 | 2.153E+05 | 2.153E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.41 | 0.57 | <= | 2.20 | 0.023 | 0.00 | 2.46 | 0.00 | 41.26 | 41.35 |
| 41.40 | 124.06 | 2.7377 | 68.77 | 1.59 | 2.31% | 2.408 | 0.74 | 37.56 | 2.44 | 2.47 | 106 | 0.192 | 0.210 | 0.84 | 0.980 | 0.514 | 910.86 | 3.853 | 2.153E+05 | 2.153E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.41 | 0.57 | <= | 2.20 | 0.013 | 0.00 | 2.43 | 0.00 | 41.35 | 41.40 |
| 41.45 | 124.05 | 2.7408 | 68.77 | 1.59 | 2.31% | 2.408 | 0.74 | 37.53 | 2.44 | 2.47 | 106 | 0.191 | 0.210 | 0.84 | 0.981 | 0.514 | 910.86 | 3.852 | 2.154E+05 | 2.154E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.41 | 0.57 | <= | 2.20 | 0.013 | 0.00 | 2.42 | 0.00 | 41.40 | 41.45 |
| 41.53 | 124.10 | 2.7458 | 69.65 | 1.59 | 2.28% | 2.377 | 0.74 | 37.97 | 2.43 | 2.43 | 106 | 0.191 | 0.209 | 0.84 | 0.984 | 0.514 | 910.86 | 3.854 | 2.153E+05 | 2.153E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.41 | 0.57 | <= | 2.20 | 0.020 | 0.00 | 2.41 | 0.00 | 41.45 | 41.53 |
| 41.58 | 124.16 | 2.7489 | 70.73 | 1.60 | 2.26% | 2.354 | 0.73 | 38.55 | 2.42 | 2.40 | 106 | 0.192 | 0.210 | 0.84 | 0.985 | 0.514 | 911.92 | 3.856 | 2.157E+05 | 2.157E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.41 | 0.57 | <= | 2.20 | 0.013 | 0.00 | 2.39 | 0.00 | 41.53 | 41.58 |
| 41.65 | 124.25 | 2.7533 | 72.29 | 1.60 | 2.21% | 2.301 | 0.73 | 39.38 | 2.41 | 2.34 | 106 | 0.191 | 0.204 | 0.84 | 0.987 | 0.514 | 911.92 | 3.859 | 2.155E+05 | 2.155E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.40 | 0.55 | <= | 2.20 | 0.018 | 0.00 | 2.37 | 0.00 | 41.58 | 41.65 |
| 41.71 | 124.37 | 2.7570 | 74.25 | 1.62 | 2.18% | 2.266 | 0.73 | 40.45 | 2.39 | 2.28 | 107 | 0.193 | 0.206 | 0.84 | 0.989 | 0.514 | 914.02 | 3.862 | 2.163E+05 | 2.163E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.41 | 0.56 | <= | 2.19 | 0.015 | 0.00 | 2.36 | 0.00 | 41.65 | 41.71 |
| 41.80 | 124.52 | 2.7626 | 77.18 | 1.63 | 2.11% | 2.190 | 0.72 | 42.03 | 2.37 | 2.19 | 107 | 0.193 | 0.201 | 0.84 | 0.992 | 0.513 | 915.06 | 3.867 | 2.165E+05 | 2.165E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.40 | 0.54 | <= | 2.19 | 0.023 | 0.00 | 2.34 | 0.00 | 41.71 | 41.80 |
| 41.85 | 124.62 | 2.7657 | 78.94 | 1.64 | 2.08% | 2.153 | 0.71 | 42.99 | 2.36 | 2.14 | 107 | 0.194 | 0.202 | 0.84 | 0.994 | 0.513 | 916.10 | 3.870 | 2.168E+05 | 2.168E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.40 | 0.55 | <= | 2.18 | 0.013 | 0.00 | 2.32 | 0.00 | 41.80 | 41.85 |
| 41.91 | 124.70 | 2.7694 | 80.21 | 1.65 | 2.06% | 2.131 | 0.71 | 43.66 | 2.35 | 2.11 | 107 | 0.195 | 0.203 | 0.83 | 0.996 | 0.513 | 917.13 | 3.873 | 2.172E+05 | 2.172E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.40 | 0.55 | <= | 2.18 | 0.015 | 0.00 | 2.31 | 0.00 | 41.85 | 41.91 |
| 41.98 | 124.79 | 2.7738 | 80.69 | 1.66 | 2.06% | 2.130 | 0.71 | 43.87 | 2.34 | 2.10 | 108 | 0.196 | 0.198 | 0.83 | 0.998 | 0.513 | 918.15 | 3.875 | 2.175E+05 | 2.175E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.39 | 0.54 | <= | 2.18 | 0.018 | 0.00 | 2.29 | 0.00 | 41.91 | 41.98 |
| 42.07 | 124.92 | 2.7794 | 80.79 | 1.69 | 2.09% | 2.166 | 0.71 | 43.85 | 2.35 | 2.12 | 108 | 0.198 | 0.201 | 0.83 | 1.001 | 0.513 | 921.18 | 3.880 | 2.187E+05 | 2.187E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.40 | 0.54 | <= | 2.16 | 0.022 | 0.00 | 2.27 | 0.00 | 41.98 | 42.07 |
| 42.11 | 125.01 | 2.7819 | 80.89 | 1.71 | 2.11% | 2.189 | 0.71 | 43.88 | 2.35 | 2.13 | 109 | 0.200 | 0.202 | 0.83 | 1.002 | 0.513 | 923.17 | 3.882 | 2.195E+05 | 2.195E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.40 | 0.55 | <= | 2.15 | 0.010 | 0.00 | 2.25 | 0.00 | 42.07 | 42.11 |
| 42.17 | 125.20 | 2.7857 | 82.06 | 1.75 | 2.13% | 2.208 | 0.71 | 44.49 | 2.35 | 2.12 | 110 | 0.204 | 0.206 | 0.83 | 1.004 | 0.513 | 927.08 | 3.888 | 2.210E+05 | 2.210E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.41 | 0.56 | <= | 2.13 | 0.015 | 0.00 | 2.24 | 0.00 | 42.11 | 42.17 |
| 42.24 | 125.44 | 2.7901 | 84.21 | 1.79 | 2.13% | 2.198 | 0.71 | 45.63 | 2.34 | 2.09 | 111 | 0.208 | 0.204 | 0.83 | 1.006 | 0.512 | 930.90 | 3.896 | 2.224E+05 | 2.224E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.40 | 0.55 | <= | 2.12 | 0.017 | 0.00 | 2.23 | 0.00 | 42.17 | 42.24 |
| 42.30 | 125.65 | 2.7938 | 87.05 | 1.83 | 2.10% | 2.172 | 0.71 | 47.17 | 2.33 | 2.03 | 112 | 0.212 | 0.208 | 0.83 | 1.008 | 0.512 | 934.64 | 3.902 | 2.239E+05 | 2.239E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.41 | 0.56 | <= | 2.10 | 0.014 | 0.00 | 2.21 | 0.00 | 42.24 | 42.30 |
| 42.38 | 125.92 | 2.7989 | 91.74 | 1.86 | 2.03% | 2.091 | 0.70 | 49.73 | 2.30 | 1.93 | 113 | 0.216 | 0.376 | 0.83 | 1.010 | 0.512 | 937.39 | 3.911 | 2.247E+05 | 2.247E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.74 | 1.02 | <= | 0.56 | 0.005 | 0.00 | 2.20 | 0.00 | 42.30 | 42.38 |
| 42.47 | 126.14 | 2.8046 | 98.87 | 1.87 | 1.89% | 1.947 | 0.68 | 53.62 | 2.25 | 1.79 | 114 | 0.219 | 0.345 | 0.83 | 1.013 | 0.512 | 938.30 | 3.917 | 2.247E+05 | 2.247E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.68 | 0.94 | <= | 0.96 | 0.010 | 0.00 | 2.19 | 0.00 | 42.38 | 42.47 |
| 42.50 | 126.15 | 2.8065 | 102.49 | 1.85 | 1.81% | 1.856 | 0.67 | 55.61 | 2.22 | 1.72 | 114 | 0.218 | 0.345 | 0.83 | 1.014 | 0.512 | 936.48 | 3.918 | 2.239E+05 | 2.239E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.68 | 0.94 | <= | 0.96 | 0.003 | 0.00 | 2.18 | 0.00 | 42.47 | 42.50 |
| 42.58 | 125.97 | 2.8115 | 109.72 | 1.77 | 1.61% | 1.656 | 0.66 | 59.56 | 2.16 | 1.58 | 113 | 0.216 | 0.323 | 0.83 | 1.016 | 0.512 | 929.00 | 3.912 | 2.206E+05 | 2.206E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.64 | 0.88 | <= | 1.91 | 0.018 | 0.00 | 2.18 | 0.00 | 42.50 | 42.58 |
| 42.64 | 125.85 | 2.8153 | 115.48 | 1.71 | 1.48% | 1.518 | 0.64 | 62.70 | 2.12 | 1.49 | 113 | 0.216 | 0.305 | 0.83 | 1.018 | 0.511 | 923.17 | 3.908 | 2.181E+05 | 2.181E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.60 | 0.83 | <= | 1.52 | 0.011 | 0.00 | 2.16 | 0.00 | 42.58 | 42.64 |
| 42.69 | 125.76 | 2.8184 | 120.27 | 1.67 | 1.39% | 1.422 | 0.63 | 65.31 | 2.08 | 1.43 | 114 | 0.217 | 0.289 | 0.83 | 1.020 | 0.511 | 919.16 | 3.906 | 2.163E+05 | 2.163E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.57 | 0.79 | <= | 2.08 | 0.012 | 0.00 | 2.15 | 0.00 | 42.64 | 42.69 |
| 42.78 | 125.98 | 2.8241 | 130.04 | 1.67 | 1.28% | 1.313 | 0.62 | 70.62 | 2.03 | 1.34 | 117 | 0.230 | 0.285 | 0.83 | 1.023 | 0.511 | 919.16 | 3.912 | 2.159E+05 | 2.159E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.56 | 0.78 | <= | 1.93 | 0.021 | 0.00 | 2.13 | 0.00 | 42.69 | 42.78 |
| 42.83 | 125.36 | 2.8272 | 135.03 | 1.52 | 1.13% | 1.150 | 0.60 | 73.33 | 1.98 | 1.27 | 116 | 0.226 | 0.281 | 0.83 | 1.024 | 0.511 | 903.24 | 3.893 | 2.096E+05 | 2.096E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | | 0.56 | 0.77 | <= | 1.90 | 0.011 | 0.00 | 2.11 | 0.00 | 42.78 | 42.83 |
| 42.89 | 123.78 | 2.8309 | 142.06 | 1.20 | 0.84% | 0.862 | 0.57 | 77.15 | 1.88 | 1.17 | 114 | 0.218 | 0.272 | 0.83 | 1.026 | 0.511 | 863.26 | 3.844 | 1.939E+05 | 1.939E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | | 0.54 | 0.74 | <= | 1.84 | 0.013 | 0.00 | 2.10 | 0.00 | 42.83 | 42.89 |
| 42.96 | 124.22 | 2.8353 | 147.43 | 1.26 | 0.85% | 0.871 | 0.57 | 80.02 | 1.87 | 1.16 | 118 | 0.232 | 0.267 | 0.83 | 1.028 | 0.511 | 871.51 | 3.858 | 1.969E+05 | 1.969E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | | 0.53 | 0.73 | <= | 1.72 | 0.014 | 0.00 | 2.09 | 0.00 | 42.89 | 42.96 |
| 43.03 | 124.50 | 2.8396 | 148.71 | 1.30 | 0.87% | 0.891 | 0.57 | 80.63 | 1.87 | 1.16 | 119 | 0.237 | 0.273 | 0.83 | 1.031 | 0.510 | 876.80 | 3.866 | 1.988E+05 | 1.988E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | | 0.54 | 0.74 | <= | 1.77 | 0.015 | 0.00 | 2.07 | 0.00 | 42.96 | 43.03 |
| 43.09 | 124.60 | 2.8434 | 145.09 | 1.33 | 0.92% | 0.935 | 0.58 | 78.55 | 1.89 | 1.18 | 118 | 0.231 | 0.267 | 0.82 | 1.032 | 0.510 | 880.66 | 3.870 | 2.004E+05 | 2.004E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | | 0.53 | 0.73 | <= | 1.73 | 0.012 | 0.00 | 2.06 | 0.00 | 43.03 | 43.09 |
| 43.16 | 124.63 | 2.8477 | 132.78 | 1.38 | 1.04% | 1.062 | 0.60 | 71.66 | 1.96 | 1.26 | 113 | 0.213 | 0.285 | 0.82 | 1.035 | 0.510 | 886.90 | 3.870 | 2.032E+05 | 2.032E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | | 0.57 | 0.78 | <= | 2.01 | 0.017 | 0.00 | 2.05 | 0.00 | 43.09 | 43.16 |
| 43.23 | 124.97 | 2.8521 | 123.98 | 1.48 | 1.19% | 1.222 | 0.62 | 66.72 | 2.03 | 1.34 | 111 | 0.206 | 0.278 | 0.82 | 1.037 | 0.510 | 898.73 | 3.881 | 2.081E+05 | 2.081E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | | 0.55 | 0.76 | <= | 1.97 | 0.017 | 0.00 | 2.03 | 0.00 | 43.16 | 43.23 |
| 43.30 | 125.32 | 2.8565 | 112.16 | 1.60 | 1.43% | 1.464 | 0.64 | 60.14 | 2.12 | 1.49 | 109 | 0.202 | 0.306 | 0.82 | 1.039 | 0.510 | 911.92 | 3.892 | 2.137E+05 | 2.137E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | | 0.61 | 0.84 | <= | 1.63 | 0.014 | 0.00 | 2.01 | 0.00 | 43.23 | 43.30 |
| 43.36 | 125.88 | 2.8603 | 100.24 | 1.80 | 1.80% | 1.848 | 0.68 | 53.52 | 2.23 | 1.75 | 112 | 0.210 | 0.337 | 0.82 | 1.041 | 0.509 | 931.84 | 3.909 | 2.221E+05 | 2.221E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | | 0.67 | 0.92 | <= | 0.89 | 0.006 | 0.00 | 2.00 | 0.00 | 43.30 | 43.36 |
| 43.42 | 125.92 | 2.8640 | 82.06 | 1.93 | 2.35% | 2.437 | 0.72 | 43.48 | 2.39 | 2.26 | 115 | 0.220 | 0.218 | 0.82 | 1.043 | 0.509 | 943.64 | 3.911 | 2.277E+05 | 2.277E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | | 0.43 | 0.59 | <= | 2.07 | 0.014 | 0.00 | 1.99 | 0.00 | 43.36 | 43.42 |
| 43.48 | 125.81 | 2.8678 | 71.31 | 2.00 | 2.80% | 2.922 | 0.76 | 37.54 | 2.49 | 2.73 | 118 | 0.231 | 0.243 | 0.82 | 1.045 | 0.509 | 949.67 | 3.907 | 2.308E+05 | 2.308E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | | 0.48 | 0.66 | <= | 2.02 | 0.014 | 0.00 | 1.98 | 0.00 | 43.42 | 43.48 |
| 43.55 | 125.56 | 2.8722 | 59.20 | 2.05 | 3.46% | 3.639 | 0.80 | 30.86 | 2.63 | 3.49 | 121 | 0.245 | 0.277 | 0.82 | 1.047 | 0.509 | 953.84 | 3.899 | 2.333E+05 | 2.333E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 43.63 | 125.19 | 2.8772 | 52.36 | 2.03 | 3.88% | 4.102 | 0.82 | 27.07 | 2.71 | 4.06 | 134 | 0.303 | 0.303 | 0.82 | 1.049 | 0.509 | 952.19 | 3.888 | 2.332E+05 | 2.332E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 43.68 | 125.02 | 2.8804 | 49.82 | 2.02 | 4.05% | 4.303 | 0.83 | 25.66 | 2.74 | 4.31 | 142 | 0.347 | 0.347 | 0.82 | 1.051 | 0.509 | 951.35 | 3.883 | 2.331E+05 | 2.331E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 43.75 | 124.57 | 2.8847 | 43.47 | 1.99 | 4.58% | 4.903 | 0.86 | 22.16 | 2.83 | 5.06 | 167 | 0.512 | 0.512 | 0.82 | 1.053 | 0.508 | 948.82 | 3.869 | 2.327E+05 | 2.327E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 43.81 | 124.31 | 2.8884 | 41.90 | 1.94 | 4.63% | 4.973 | 0.86 | 21.28 | 2.85 | 5.22 | 172 | 0.555 | 0.555 | 0.82 | 1.055 | 0.508 | 944.51 | 3.861 | 2.311E+05 | 2.311E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 43.88 | 123.68 | 2.8928 | 37.11 | 1.85 | 4.99% | 5.407 | 0.88 | 18.64 | 2.92 | 5.90 | 195 | 0.766 | 0.766 | 0.82 | 1.057 | 0.508 | 936.48 | 3.841 | 2.283E+05 | 2.283E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 43.95 | 123.34 | 2.8971 | 35.26 | 1.80 | 5.10% | 5.562 | 0.89 | 17.61 | 2.95 | 6.19 | 204 | 0.871 | 0.871 | 0.82 | 1.059 | 0.508 | 931.84 | 3.830 | 2.267E+05 | 2.267E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.01 | 122.87 | 2.9008 | 33.69 | 1.71 | 5.08% | 5.554 | 0.90 | 16.74 | 2.97 | 6.36 | 210 | 0.942 | 0.942 | 0.82 | 1.061 | 0.508 | 923.17 | 3.816 | 2.233E+05 | 2.233E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.08 | 122.32 | 2.9051 | 33.30 | 1.60 | 4.80% | 5.264 | 0.89 | 16.50 | 2.95 | 6.24 | 206 | 0.893 | 0.893 | 0.82 | 1.063 | 0.508 | 911.92 | 3.799 | 2.189E+05 | 2.189E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.14 | 122.01 | 2.9087 | 33.99 | 1.52 | 4.47% | 4.890 | 0.89 | 16.86 | 2.92 | 5.94 | 196 | 0.780 | 0.780 | 0.82 | 1.065 | 0.507 | 903.24 | 3.789 | 2.153E+05 | 2.153E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.21 | 121.74 | 2.9130 | 33.99 | 1.46 | 4.30% | 4.698 | 0.88 | 16.84 | 2.91 | 5.82 | 192 | 0.739 | 0.739 | 0.82 | 1.067 | 0.507 | 896.43 | 3.781 | 2.125E+05 | 2.125E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.28 | 120.77 | 2.9172 | 33.99 | 1.28 | 3.77% | 4.119 | 0.87 | 16.82 | 2.87 | 5.45 | 180 | 0.620 | 0.620 | 0.82 | 1.070 | 0.507 | 874.17 | 3.751 | 2.037E+05 | 2.037E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.33 | 119.79 | 2.9202 | 33.79 | 1.12 | 3.31% | 3.628 | 0.86 | 16.69 | 2.84 | 5.13 | 169 | 0.531 | 0.531 | 0.81 | 1.071 | 0.507 | 851.58 | 3.720 | 1.949E+05 | 1.949E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.40 | 119.19 | 2.9244 | 31.93 | 1.06 | 3.32% | 3.654 | 0.87 | 15.67 | 2.86 | 5.36 | 177 | 0.594 | 0.594 | 0.81 | 1.073 | 0.507 | 842.27 | 3.702 | 1.917E+05 | 1.917E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.48 | 118.20 | 2.9291 | 29.39 | 0.95 | 3.23% | 3.590 | 0.88 | 14.28 | 2.89 | 5.63 | 186 | 0.676 | 0.676 | 0.81 | 1.076 | 0.507 | 823.74 | 3.671 | 1.848E+05 | 1.848E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.56 | 117.34 | 2.9338 | 25.49 | 0.88 | 3.45% | 3.901 | 0.90 | 12.16 | 2.98 | 6.47 | 214 | 0.985 | 0.985 | 0.81 | 1.078 | 0.506 | 810.79 | 3.644 | 1.804E+05 | 1.804E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.61 | 117.03 | 2.9367 | 23.34 | 0.87 | 3.73% | 4.264 | 0.92 | 10.99 | 3.04 | 7.17 | 236 | 1.310 | 1.310 | 0.81 | 1.080 | 0.506 | 808.86 | 3.634 | 1.800E+05 | 1.800E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.68 | 116.62 | 2.9408 | 20.99 | 0.85 | 4.05% | 4.709 | 0.94 | 9.71 | 3.11 | 8.06 | 266 | 1.827 | 1.827 | 0.81 | 1.082 | 0.506 | 804.92 | 3.622 | 1.789E+05 | 1.789E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.74 | 116.42 | 2.9443 | 19.92 | 0.85 | 4.27% | 5.007 | 0.95 | 9.12 | 3.15 | 8.57 | 283 | 2.187 | 2.187 | 0.81 | 1.084 | 0.506 | 804.92 | 3.616 | 1.792E+05 | 1.792E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.79 | 116.34 | 2.9472 | 19.52 | 0.84 | 4.30% | 5.069 | 0.96 | 8.90 | 3.16 | 8.74 | 288 | 2.312 | 2.312 | 0.81 | 1.085 | 0.506 | 802.92 | 3.613 | 1.784E+05 | 1.784E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.88 | 116.54 | 2.9524 | 19.33 | 0.87 | 4.50% | 5.312 | 0.96 | 8.79 | 3.18 | 8.98 | 296 | 2.504 | 2.504 | 0.81 | 1.088 | 0.506 | 808.86 | 3.619 | 1.808E+05 | 1.808E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 44.92 | 116.68 | 2.9548 | 19.62 | 0.88 | 4.49% | 5.280 | 0.96 | 8.93 | 3.17 | 8.88 | 293 | 2.419 | 2.419 | 0.81 | 1.090 | 0.506 | 810.79 | 3.624 | 1.814E+05 | 1.814E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.00 | 117.15 | 2.9595 | 21.38 | 0.91 | 4.26% | 4.940 | 0.94 | 9.86 | 3.12 | 8.15 | 269 | 1.892 | 1.892 | 0.81 | 1.092 | 0.505 | 816.46 | 3.638 | 1.832E+05 | 1.832E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.06 | 117.60 | 2.9630 | 21.38 | 0.97 | 4.54% | 5.267 | 0.95 | 9.85 | 3.14 | 8.39 | 277 | 2.056 | 2.056 | 0.81 | 1.094 | 0.505 | 827.26 | 3.652 | 1.874E+05 | 1.874E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.14 | 117.82 | 2.9677 | 21.48 | 1.00 | 4.66% | 5.402 | 0.95 | 9.89 | 3.14 | 8.47 | 279 | 2.110 | 2.110 | 0.81 | 1.096 | 0.505 | 832.41 | 3.659 | 1.894E+05 | 1.894E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.20 | 115.61 | 2.9712 | 21.28 | 0.74 | 3.48% | 4.042 | 0.93 | 9.78 | 3.07 | 7.50 | 247 | 1.489 | 1.489 | 0.81 | 1.098 | 0.505 | 781.48 | 3.590 | 1.701E+05 | 1.701E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.28 | 110.50 | 2.9756 | 20.21 | 0.38 | 1.88% | 2.205 | 0.89 | 9.19 | 2.93 | 5.99 | 198 | 0.800 | 0.800 | 0.81 | 1.101 | 0.505 | 668.74 | 3.432 | 1.303E+05 | 1.303E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.32 | 111.98 | 2.9778 | 19.72 | 0.46 | 2.33% | 2.748 | 0.91 | 8.93 | 3.00 | 6.71 | 221 | 1.088 | 1.088 | 0.81 | 1.102 | 0.505 | 701.06 | 3.478 | 1.413E+05 | 1.413E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.39 | 113.46 | 2.9818 | 19.13 | 0.57 | 2.98% | 3.530 | 0.93 | 8.60 | 3.08 | 7.63 | 252 | 1.567 | 1.567 | 0.81 | 1.104 | 0.504 | 737.33 | 3.524 | 1.543E+05 | 1.543E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.45 | 114.49 | 2.9852 | 19.13 | 0.66 | 3.45% | 4.088 | 0.94 | 8.59 | 3.12 | 8.13 | 268 | 1.877 | 1.877 | 0.81 | 1.106 | 0.504 | 762.12 | 3.556 | 1.634E+05 | 1.634E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.52 | 115.28 | 2.9893 | 18.84 | 0.74 | 3.93% | 4.669 | 0.96 | 8.43 | 3.16 | 8.70 | 287 | 2.283 | 2.283 | 0.81 | 1.108 | 0.504 | 781.48 | 3.580 | 1.706E+05 | 1.706E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.60 | 115.82 | 2.9939 | 19.04 | 0.79 | 4.15% | 4.923 | 0.96 | 8.52 | 3.17 | 8.85 | 292 | 2.393 | 2.393 | 0.80 | 1.111 | 0.504 | 792.54 | 3.597 | 1.746E+05 | 1.746E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.65 | 116.06 | 2.9968 | 19.23 | 0.81 | 4.21% | 4.990 | 0.96 | 8.61 | 3.17 | 8.84 | 292 | 2.390 | 2.390 | 0.80 | 1.112 | 0.504 | 796.77 | 3.604 | 1.761E+05 | 1.761E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.71 | 116.14 | 3.0003 | 19.04 | 0.83 | 4.36% | 5.175 | 0.96 | 8.50 | 3.19 | 9.04 | 298 | 2.553 | 2.553 | 0.80 | 1.114 | 0.504 | 800.89 | 3.607 | 1.778E+05 | 1.778E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.78 | 116.43 | 3.0044 | 19.04 | 0.86 | 4.52% | 5.363 | 0.97 | 8.49 | 3.20 | 9.19 | 303 | 2.674 | 2.674 | 0.80 | 1.116 | 0.503 | 806.90 | 3.616 | 1.801E+05 | 1.801E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.84 | 116.79 | 3.0079 | 18.94 | 0.90 | 4.75% | 5.649 | 0.97 | 8.43 | 3.21 | 9.43 | 311 | 2.886 | 2.886 | 0.80 | 1.118 | 0.503 | 814.59 | 3.627 | 1.829E+05 | 1.829E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.91 | 117.21 | 3.0120 | 19.43 | 0.95 | 4.89% | 5.786 | 0.97 | 8.68 | 3.21 | 9.38 | 310 | 2.839 | 2.839 | 0.80 | 1.120 | 0.503 | 823.74 | 3.640 | 1.864E+05 | 1.864E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 45.98 | 117.50 | 3.0161 | 20.21 | 0.97 | 4.80% | 5.642 | 0.96 | 9.08 | 3.19 | 9.05 | 299 | 2.558 | 2.558 | 0.80 | 1.123 | 0.503 | 827.26 | 3.649 | 1.875E+05 | 1.875E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.05 | 118.03 | 3.0202 | 20.50 | 1.04 | 5.07% | 5.950 | 0.97 | 9.22 | 3.20 | 9.19 | 303 | 2.670 | 2.670 | 0.80 | 1.125 | 0.503 | 839.05 | 3.666 | 1.921E+05 | 1.921E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.11 | 118.52 | 3.0238 | 20.79 | 1.11 | 5.34% | 6.248 | 0.97 | 9.36 | 3.20 | 9.31 | 307 | 2.773 | 2.773 | 0.80 | 1.127 | 0.503 | 850.07 | 3.681 | 1.963E+05 | 1.963E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.17 | 119.24 | 3.0273 | 21.19 | 1.22 | 5.76% | 6.717 | 0.97 | 9.57 | 3.22 | 9.50 | 313 | 2.943 | 2.943 | 0.80 | 1.129 | 0.502 | 866.05 | 3.703 | 2.025E+05 | 2.025E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.26 | 119.60 | 3.0327 | 22.36 | 1.25 | 5.59% | 6.468 | 0.96 | 10.16 | 3.18 | 9.04 | 298 | 2.548 | 2.548 | 0.80 | 1.131 | 0.502 | 870.16 | 3.714 | 2.039E+05 | 2.039E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.32 | 119.60 | 3.0363 | 22.55 | 1.25 | 5.54% | 6.406 | 0.96 | 10.25 | 3.18 | 8.96 | 296 | 2.482 | 2.482 | 0.80 | 1.133 | 0.502 | 870.16 | 3.714 | 2.039E+05 | 2.039E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.38 | 119.64 | 3.0399 | 22.55 | 1.26 | 5.59% | 6.458 | 0.96 | 10.24 | 3.18 | 9.00 | 297 | 2.513 | 2.513 | 0.80 | 1.135 | 0.502 | 871.51 | 3.716 | 2.044E+05 | 2.044E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.44 | 119.85 | 3.0435 | 22.26 | 1.30 | 5.84% | 6.765 | 0.97 | 10.08 | 3.20 | 9.26 | 306 | 2.737 | 2.737 | 0.80 | 1.137 | 0.502 | 876.80 | 3.722 | 2.065E+05 | 2.065E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.52 | 120.18 | 3.0483 | 22.16 | 1.36 | 6.14% | 7.116 | 0.97 | 10.01 | 3.22 | 9.51 | 314 | 2.953 | 2.953 | 0.80 | 1.139 | 0.501 | 884.43 | 3.732 | 2.096E+05 | 2.096E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.58 | 120.49 | 3.0519 | 22.75 | 1.41 | 6.20% | 7.158 | 0.97 | 10.31 | 3.21 | 9.39 | 310 | 2.844 | 2.844 | 0.80 | 1.141 | 0.501 | 890.54 | 3.742 | 2.119E+05 | 2.119E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.63 | 120.78 | 3.0549 | 24.12 | 1.44 | 5.97% | 6.836 | 0.96 | 11.02 | 3.17 | 8.87 | 293 | 2.415 | 2.415 | 0.80 | 1.143 | 0.501 | 894.10 | 3.751 | 2.131E+05 | 2.131E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.72 | 121.27 | 3.0604 | 25.49 | 1.51 | 5.92% | 6.732 | 0.95 | 11.71 | 3.15 | 8.52 | 281 | 2.149 | 2.149 | 0.80 | 1.146 | 0.501 | 902.13 | 3.766 | 2.161E+05 | 2.161E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.76 | 121.42 | 3.0628 | 26.46 | 1.52 | 5.74% | 6.497 | 0.94 | 12.21 | 3.12 | 8.19 | 270 | 1.919 | 1.919 | 0.80 | 1.147 | 0.501 | 903.24 | 3.771 | 2.164E+05 | 2.164E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.84 | 120.07 | 3.0676 | 27.15 | 1.25 | 4.60% | 5.191 | 0.92 | 12.55 | 3.04 | 7.25 | 239 | 1.355 | 1.355 | 0.79 | 1.149 | 0.501 | 870.16 | 3.729 | 2.031E+05 | 2.031E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.90 | 118.24 | 3.0712 | 27.54 | 0.97 | 3.52% | 3.964 | 0.90 | 12.74 | 2.96 | 6.32 | 209 | 0.924 | 0.924 | 0.79 | 1.151 | 0.500 | 827.26 | 3.672 | 1.864E+05 | 1.864E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 46.98 | 119.14 | 3.0759 | 28.22 | 1.09 | 3.86% | 4.335 | 0.90 | 13.08 | 2.98 | 6.49 | 214 | 0.995 | 0.995 | 0.79 | 1.154 | 0.500 | 846.99 | 3.700 | 1.939E+05 | 1.939E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.03 | 119.64 | 3.0789 | 28.61 | 1.16 | 4.05% | 4.543 | 0.90 | 13.27 | 2.99 | 6.58 | 217 | 1.034 | 1.034 | 0.79 | 1.155 | 0.500 | 857.52 | 3.716 | 1.979E+05 | 1.979E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.09 | 120.14 | 3.0825 | 28.03 | 1.25 | 4.46% | 5.011 | 0.91 | 12.96 | 3.02 | 7.00 | 231 | 1.227 | 1.227 | 0.79 | 1.157 | 0.500 | 870.16 | 3.731 | 2.029E+05 | 2.029E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

TEST LOCATION: **CPT-1**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A (ft$^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft$^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | $\rho$ (lb-sec$^2$)/ft$^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47.16 | 120.63 | 3.0868 | 27.54 | 1.35 | 4.90% | 5.521 | 0.93 | 12.69 | 3.06 | 7.42 | 245 | 1.447 | 1.447 | 0.79 | 1.159 | 0.500 | 883.18 | 3.746 | 2.082E+05 | 2.082E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.23 | 121.21 | 3.0910 | 28.12 | 1.45 | 5.16% | 5.793 | 0.93 | 12.97 | 3.07 | 7.50 | 248 | 1.490 | 1.490 | 0.79 | 1.162 | 0.499 | 895.27 | 3.764 | 2.129E+05 | 2.129E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.29 | 121.38 | 3.0946 | 26.36 | 1.51 | 5.73% | 6.490 | 0.95 | 12.05 | 3.13 | 8.25 | 272 | 1.956 | 1.956 | 0.79 | 1.163 | 0.499 | 902.13 | 3.770 | 2.159E+05 | 2.159E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.35 | 122.11 | 3.0983 | 28.22 | 1.63 | 5.78% | 6.488 | 0.94 | 13.00 | 3.10 | 7.91 | 261 | 1.735 | 1.735 | 0.79 | 1.165 | 0.499 | 915.06 | 3.792 | 2.208E+05 | 2.208E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.42 | 122.72 | 3.1026 | 30.96 | 1.72 | 5.56% | 6.174 | 0.92 | 14.40 | 3.05 | 7.29 | 241 | 1.377 | 1.377 | 0.79 | 1.168 | 0.499 | 924.15 | 3.811 | 2.241E+05 | 2.241E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.52 | 123.51 | 3.1088 | 37.50 | 1.80 | 4.80% | 5.234 | 0.89 | 17.74 | 2.92 | 5.95 | 196 | 0.783 | 0.783 | 0.79 | 1.171 | 0.499 | 931.84 | 3.836 | 2.264E+05 | 2.264E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.57 | 123.95 | 3.1119 | 41.12 | 1.85 | 4.50% | 4.867 | 0.87 | 19.59 | 2.87 | 5.39 | 178 | 0.605 | 0.605 | 0.79 | 1.172 | 0.498 | 936.48 | 3.849 | 2.278E+05 | 2.278E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.61 | 124.20 | 3.1144 | 42.68 | 1.90 | 4.45% | 4.802 | 0.86 | 20.38 | 2.85 | 5.23 | 173 | 0.558 | 0.558 | 0.79 | 1.173 | 0.498 | 940.99 | 3.857 | 2.296E+05 | 2.296E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.70 | 124.68 | 3.1200 | 46.20 | 1.97 | 4.26% | 4.573 | 0.85 | 22.16 | 2.81 | 4.84 | 160 | 0.459 | 0.459 | 0.79 | 1.176 | 0.498 | 947.11 | 3.872 | 2.317E+05 | 2.317E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.74 | 124.88 | 3.1225 | 47.37 | 2.01 | 4.24% | 4.543 | 0.85 | 22.75 | 2.80 | 4.75 | 157 | 0.437 | 0.437 | 0.79 | 1.177 | 0.498 | 950.51 | 3.878 | 2.330E+05 | 2.330E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.83 | 125.23 | 3.1281 | 49.13 | 2.08 | 4.23% | 4.522 | 0.84 | 23.62 | 2.78 | 4.63 | 153 | 0.411 | 0.411 | 0.79 | 1.180 | 0.498 | 956.30 | 3.889 | 2.351E+05 | 2.351E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.88 | 125.44 | 3.1312 | 51.18 | 2.11 | 4.12% | 4.391 | 0.84 | 24.65 | 2.76 | 4.43 | 146 | 0.371 | 0.371 | 0.79 | 1.182 | 0.497 | 958.72 | 3.896 | 2.359E+05 | 2.359E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 47.95 | 125.67 | 3.1356 | 54.70 | 2.13 | 3.89% | 4.131 | 0.82 | 26.42 | 2.71 | 4.10 | 135 | 0.311 | 0.311 | 0.79 | 1.184 | 0.497 | 960.32 | 3.903 | 2.363E+05 | 2.363E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 48.01 | 125.84 | 3.1394 | 56.85 | 2.16 | 3.80% | 4.022 | 0.82 | 27.49 | 2.69 | 3.94 | 130 | 0.285 | 0.285 | 0.79 | 1.186 | 0.497 | 962.69 | 3.908 | 2.371E+05 | 2.371E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 48.09 | 126.18 | 3.1445 | 61.74 | 2.20 | 3.56% | 3.755 | 0.80 | 29.96 | 2.64 | 3.59 | 122 | 0.249 | 0.249 | 0.78 | 1.188 | 0.497 | 965.79 | 3.919 | 2.380E+05 | 2.380E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 48.14 | 126.33 | 3.1476 | 63.79 | 2.22 | 3.48% | 3.661 | 0.79 | 30.98 | 2.62 | 3.47 | 122 | 0.250 | 0.250 | 0.78 | 1.190 | 0.497 | 967.32 | 3.923 | 2.385E+05 | 2.385E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.97 | 0.00 | | |
| 48.23 | 126.50 | 3.1533 | 66.62 | 2.24 | 3.36% | 3.529 | 0.79 | 32.37 | 2.60 | 3.30 | 122 | 0.250 | 0.271 | 0.78 | 1.193 | 0.496 | 968.84 | 3.929 | 2.389E+05 | 2.389E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | | 0.55 | 0.76 | <= | 1.96 | 0.020 | 0.00 | 1.97 | 0.00 | 48.14 | 48.23 |
| 48.28 | 126.55 | 3.1565 | 67.99 | 2.24 | 3.29% | 3.455 | 0.78 | 33.04 | 2.58 | 3.22 | 122 | 0.249 | 0.263 | 0.78 | 1.194 | 0.496 | 968.84 | 3.930 | 2.388E+05 | 2.388E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | | 0.54 | 0.74 | <= | 1.96 | 0.011 | 0.00 | 1.95 | 0.00 | 48.23 | 48.28 |
| 48.34 | 126.55 | 3.1603 | 68.19 | 2.24 | 3.28% | 3.445 | 0.78 | 33.11 | 2.58 | 3.21 | 122 | 0.249 | 0.262 | 0.78 | 1.196 | 0.496 | 968.84 | 3.930 | 2.388E+05 | 2.388E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | | 0.53 | 0.74 | <= | 1.96 | 0.014 | 0.00 | 1.93 | 0.00 | 48.28 | 48.34 |
| 48.41 | 126.58 | 3.1647 | 69.16 | 2.24 | 3.24% | 3.394 | 0.78 | 33.56 | 2.57 | 3.16 | 122 | 0.248 | 0.262 | 0.78 | 1.198 | 0.496 | 968.84 | 3.931 | 2.388E+05 | 2.388E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | | 0.53 | 0.73 | <= | 1.97 | 0.016 | 0.00 | 1.92 | 0.00 | 48.34 | 48.41 |
| 48.47 | 126.60 | 3.1685 | 69.56 | 2.24 | 3.22% | 3.374 | 0.78 | 33.73 | 2.57 | 3.13 | 122 | 0.248 | 0.261 | 0.78 | 1.200 | 0.495 | 968.84 | 3.932 | 2.387E+05 | 2.387E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | | 0.53 | 0.73 | <= | 1.97 | 0.014 | 0.00 | 1.90 | 0.00 | 48.41 | 48.47 |
| 48.55 | 126.74 | 3.1736 | 70.53 | 2.27 | 3.22% | 3.370 | 0.78 | 34.18 | 2.56 | 3.11 | 122 | 0.251 | 0.264 | 0.78 | 1.203 | 0.495 | 971.09 | 3.936 | 2.396E+05 | 2.396E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | | 0.54 | 0.74 | <= | 1.96 | 0.018 | 0.00 | 1.89 | 0.00 | 48.47 | 48.55 |
| 48.61 | 126.96 | 3.1774 | 72.68 | 2.32 | 3.19% | 3.338 | 0.77 | 35.23 | 2.55 | 3.03 | 123 | 0.255 | 0.262 | 0.78 | 1.205 | 0.495 | 974.77 | 3.943 | 2.410E+05 | 2.410E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | | 0.53 | 0.74 | <= | 1.95 | 0.013 | 0.00 | 1.87 | 0.00 | 48.55 | 48.61 |
| 48.68 | 127.16 | 3.1818 | 74.05 | 2.37 | 3.20% | 3.344 | 0.77 | 35.88 | 2.54 | 3.00 | 125 | 0.260 | 0.267 | 0.78 | 1.207 | 0.495 | 978.38 | 3.949 | 2.424E+05 | 2.424E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | | 0.55 | 0.75 | <= | 1.93 | 0.016 | 0.00 | 1.86 | 0.00 | 48.61 | 48.68 |
| 48.75 | 127.09 | 3.1863 | 74.93 | 2.34 | 3.12% | 3.262 | 0.77 | 36.28 | 2.53 | 2.93 | 124 | 0.256 | 0.255 | 0.78 | 1.209 | 0.495 | 976.23 | 3.947 | 2.415E+05 | 2.415E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | | 0.52 | 0.72 | <= | 1.94 | 0.016 | 0.00 | 1.84 | 0.00 | 48.68 | 48.75 |
| 48.81 | 126.67 | 3.1901 | 74.25 | 2.21 | 2.98% | 3.110 | 0.76 | 35.90 | 2.52 | 2.87 | 120 | 0.241 | 0.248 | 0.78 | 1.211 | 0.494 | 966.56 | 3.934 | 2.375E+05 | 2.375E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | | 0.51 | 0.70 | <= | 1.99 | 0.014 | 0.00 | 1.83 | 0.00 | 48.75 | 48.81 |
| 48.86 | 126.34 | 3.1932 | 71.90 | 2.14 | 2.98% | 3.115 | 0.77 | 34.69 | 2.53 | 2.94 | 118 | 0.234 | 0.248 | 0.78 | 1.212 | 0.494 | 961.11 | 3.924 | 2.354E+05 | 2.354E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | | 0.51 | 0.70 | <= | 2.01 | 0.012 | 0.00 | 1.81 | 0.00 | 48.81 | 48.86 |
| 48.93 | 125.70 | 3.1976 | 68.09 | 1.99 | 2.92% | 3.067 | 0.77 | 32.72 | 2.55 | 3.02 | 114 | 0.220 | 0.238 | 0.78 | 1.215 | 0.494 | 948.82 | 3.904 | 2.306E+05 | 2.306E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | | 0.49 | 0.67 | <= | 2.07 | 0.017 | 0.00 | 1.80 | 0.00 | 48.86 | 48.93 |
| 49.02 | 124.38 | 3.2032 | 60.66 | 1.73 | 2.85% | 3.011 | 0.78 | 28.93 | 2.58 | 3.23 | 108 | 0.196 | 0.222 | 0.78 | 1.217 | 0.494 | 925.13 | 3.863 | 2.216E+05 | 2.216E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | | 0.46 | 0.63 | <= | 2.17 | 0.023 | 0.00 | 1.79 | 0.00 | 48.93 | 49.02 |
| 49.08 | 123.86 | 3.2070 | 54.02 | 1.68 | 3.11% | 3.306 | 0.80 | 25.56 | 2.66 | 3.69 | 122 | 0.248 | 0.248 | 0.78 | 1.219 | 0.493 | 920.17 | 3.847 | 2.201E+05 | 2.201E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.76 | 0.00 | | |
| 49.13 | 123.62 | 3.2100 | 49.91 | 1.67 | 3.35% | 3.576 | 0.82 | 23.48 | 2.71 | 4.07 | 134 | 0.305 | 0.305 | 0.78 | 1.221 | 0.493 | 919.16 | 3.839 | 2.201E+05 | 2.201E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.76 | 0.00 | | |
| 49.19 | 123.14 | 3.2137 | 44.25 | 1.63 | 3.68% | 3.972 | 0.84 | 20.61 | 2.79 | 4.68 | 154 | 0.422 | 0.422 | 0.78 | 1.223 | 0.493 | 915.06 | 3.824 | 2.190E+05 | 2.190E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.76 | 0.00 | | |
| 49.26 | 122.58 | 3.2180 | 38.97 | 1.57 | 4.03% | 4.391 | 0.87 | 17.94 | 2.87 | 5.38 | 177 | 0.600 | 0.600 | 0.77 | 1.225 | 0.493 | 908.72 | 3.807 | 2.169E+05 | 2.169E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.76 | 0.00 | | |
| 49.35 | 122.83 | 3.2236 | 33.60 | 1.71 | 5.09% | 5.629 | 0.91 | 15.22 | 3.00 | 6.74 | 222 | 1.103 | 1.103 | 0.77 | 1.228 | 0.493 | 923.17 | 3.815 | 2.234E+05 | 2.234E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.76 | 0.00 | | |
| 49.39 | 122.98 | 3.2260 | 31.64 | 1.78 | 5.63% | 6.265 | 0.92 | 14.23 | 3.06 | 7.39 | 244 | 1.426 | 1.426 | 0.77 | 1.229 | 0.492 | 929.95 | 3.819 | 2.264E+05 | 2.264E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.76 | 0.00 | | |
| 49.48 | 123.60 | 3.2316 | 34.87 | 1.87 | 5.36% | 5.911 | 0.91 | 15.82 | 3.00 | 6.75 | 223 | 1.110 | 1.110 | 0.77 | 1.232 | 0.492 | 938.30 | 3.839 | 2.294E+05 | 2.294E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.76 | 0.00 | | |
| 49.53 | 124.32 | 3.2347 | 45.42 | 1.89 | 4.16% | 4.480 | 0.85 | 21.08 | 2.82 | 4.92 | 162 | 0.479 | 0.479 | 0.77 | 1.233 | 0.492 | 940.10 | 3.861 | 2.289E+05 | 2.289E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.76 | 0.00 | | |
| 49.59 | 124.85 | 3.2384 | 55.19 | 1.90 | 3.44% | 3.657 | 0.81 | 25.93 | 2.68 | 3.86 | 128 | 0.273 | 0.273 | 0.77 | 1.235 | 0.492 | 940.99 | 3.877 | 2.284E+05 | 2.284E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.76 | 0.00 | | |
| 49.66 | 125.08 | 3.2428 | 60.76 | 1.90 | 3.13% | 3.303 | 0.79 | 28.68 | 2.62 | 3.42 | 113 | 0.214 | 0.214 | 0.77 | 1.237 | 0.492 | 940.99 | 3.884 | 2.279E+05 | 2.279E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.76 | 0.00 | | |
| 49.71 | 125.09 | 3.2459 | 66.62 | 1.85 | 2.78% | 2.919 | 0.77 | 31.58 | 2.54 | 3.00 | 110 | 0.204 | 0.222 | 0.77 | 1.239 | 0.491 | 936.48 | 3.885 | 2.258E+05 | 2.258E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | | 0.46 | 0.63 | <= | 2.13 | 0.012 | 0.00 | 1.76 | 0.00 | 49.66 | 49.71 |
| 49.79 | 119.57 | 3.2507 | 75.42 | 0.83 | 1.10% | 1.150 | 0.68 | 35.92 | 2.23 | 1.74 | 77 | 0.123 | 0.299 | 0.77 | 1.241 | 0.491 | 800.89 | 3.713 | 1.727E+05 | 1.727E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | | 0.61 | 0.85 | <= | 2.84 | 0.026 | 0.00 | 1.75 | 0.00 | 49.71 | 49.79 |
| 49.85 | 120.28 | 3.2543 | 78.35 | 0.91 | 1.16% | 1.212 | 0.68 | 37.34 | 2.23 | 1.73 | 80 | 0.128 | 0.299 | 0.77 | 1.243 | 0.491 | 816.46 | 3.735 | 1.785E+05 | 1.785E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | | 0.61 | 0.85 | <= | 2.76 | 0.019 | 0.00 | 1.72 | 0.00 | 49.79 | 49.85 |
| 49.94 | 122.52 | 3.2598 | 76.49 | 1.24 | 1.62% | 1.693 | 0.71 | 36.37 | 2.33 | 2.05 | 90 | 0.149 | 0.162 | 0.77 | 1.246 | 0.491 | 868.80 | 3.805 | 1.984E+05 | 1.984E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.33 | 0.46 | <= | 2.50 | 0.026 | 0.00 | 1.71 | 0.00 | 49.85 | 49.94 |
| 49.99 | 123.45 | 3.2629 | 71.22 | 1.45 | 2.04% | 2.134 | 0.74 | 33.72 | 2.43 | 2.42 | 97 | 0.165 | 0.184 | 0.77 | 1.248 | 0.491 | 895.27 | 3.834 | 2.091E+05 | 2.091E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.38 | 0.52 | <= | 2.36 | 0.014 | 0.00 | 1.68 | 0.00 | 49.94 | 49.99 |
| 50.07 | 124.59 | 3.2679 | 62.81 | 1.76 | 2.80% | 2.956 | 0.78 | 29.51 | 2.57 | 3.15 | 108 | 0.196 | 0.224 | 0.77 | 1.250 | 0.490 | 928.04 | 3.869 | 2.226E+05 | 2.226E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.46 | 0.63 | <= | 2.17 | 0.020 | 0.00 | 1.67 | 0.00 | 49.99 | 50.07 |
| 50.11 | 124.25 | 3.2704 | 44.05 | 1.89 | 4.29% | 4.635 | 0.86 | 20.20 | 2.84 | 5.14 | 170 | 0.534 | 0.534 | 0.77 | 1.251 | 0.490 | 940.10 | 3.859 | 2.290E+05 | 2.290E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.19 | 124.78 | 3.2754 | 50.11 | 1.95 | 3.89% | 4.164 | 0.84 | 23.17 | 2.76 | 4.45 | 147 | 0.375 | 0.375 | 0.77 | 1.254 | 0.490 | 945.38 | 3.875 | 2.306E+05 | 2.306E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.25 | 124.46 | 3.2791 | 45.13 | 1.93 | 4.28% | 4.612 | 0.86 | 20.68 | 2.83 | 5.05 | 167 | 0.511 | 0.511 | 0.77 | 1.256 | 0.490 | 943.64 | 3.865 | 2.304E+05 | 2.304E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.31 | 124.14 | 3.2828 | 42.39 | 1.89 | 4.46% | 4.833 | 0.87 | 19.31 | 2.87 | 5.40 | 178 | 0.607 | 0.607 | 0.77 | 1.258 | 0.489 | 940.10 | 3.855 | 2.292E+05 | 2.292E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.37 | 123.26 | 3.2865 | 43.27 | 1.66 | 3.84% | 4.152 | 0.85 | 19.73 | 2.82 | 4.92 | 162 | 0.477 | 0.477 | 0.77 | 1.260 | 0.489 | 918.15 | 3.828 | 2.202E+05 | 2.202E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.45 | 121.63 | 3.2914 | 43.86 | 1.33 | 3.03% | 3.278 | 0.83 | 19.99 | 2.74 | 4.29 | 142 | 0.345 | 0.345 | 0.77 | 1.262 | 0.489 | 880.66 | 3.777 | 2.053E+05 | 2.053E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.52 | 121.23 | 3.2956 | 45.81 | 1.24 | 2.71% | 2.917 | 0.81 | 20.93 | 2.69 | 3.91 | 129 | 0.281 | 0.281 | 0.76 | 1.264 | 0.489 | 868.80 | 3.765 | 2.005E+05 | 2.005E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.58 | 120.94 | 3.2993 | 43.17 | 1.21 | 2.80% | 3.035 | 0.83 | 19.61 | 2.72 | 4.17 | 138 | 0.323 | 0.323 | 0.76 | 1.266 | 0.489 | 864.66 | 3.756 | 1.991E+05 | 1.991E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.64 | 120.44 | 3.3029 | 37.02 | 1.19 | 3.21% | 3.529 | 0.86 | 16.57 | 2.83 | 5.04 | 166 | 0.507 | 0.507 | 0.76 | 1.268 | 0.488 | 861.84 | 3.740 | 1.986E+05 | 1.986E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.70 | 120.31 | 3.3065 | 32.42 | 1.22 | 3.76% | 4.190 | 0.89 | 14.29 | 2.93 | 6.03 | 199 | 0.812 | 0.812 | 0.76 | 1.270 | 0.488 | 866.05 | 3.736 | 2.007E+05 | 2.007E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.78 | 119.88 | 3.3113 | 29.98 | 1.19 | 3.97% | 4.462 | 0.90 | 13.08 | 2.98 | 6.56 | 217 | 1.024 | 1.024 | 0.76 | 1.272 | 0.488 | 861.84 | 3.723 | 1.995E+05 | 1.995E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.83 | 120.24 | 3.3143 | 30.37 | 1.24 | 4.08% | 4.583 | 0.90 | 13.26 | 2.99 | 6.59 | 218 | 1.038 | 1.038 | 0.76 | 1.274 | 0.488 | 868.80 | 3.734 | 2.021E+05 | 2.021E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.91 | 121.15 | 3.3191 | 31.54 | 1.39 | 4.41% | 4.925 | 0.91 | 13.82 | 2.99 | 6.66 | 220 | 1.069 | 1.069 | 0.76 | 1.276 | 0.487 | 888.12 | 3.762 | 2.096E+05 | 2.096E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 50.96 | 121.87 | 3.3222 | 34.48 | 1.48 | 4.29% | 4.750 | 0.89 | 15.24 | 2.95 | 6.17 | 204 | 0.865 | 0.865 | 0.76 | 1.278 | 0.487 | 898.73 | 3.785 | 2.134E+05 | 2.134E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 51.05 | 122.36 | 3.3277 | 35.26 | 1.57 | 4.45% | 4.917 | 0.89 | 15.60 | 2.95 | 6.19 | 204 | 0.874 | 0.874 | 0.76 | 1.281 | 0.487 | 908.72 | 3.800 | 2.173E+05 | 2.173E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 51.09 | 122.58 | 3.3301 | 37.21 | 1.59 | 4.27% | 4.693 | 0.88 | 16.54 | 2.91 | 5.84 | 193 | 0.745 | 0.745 | 0.76 | 1.282 | 0.487 | 910.86 | 3.807 | 2.179E+05 | 2.179E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 51.18 | 123.43 | 3.3357 | 46.40 | 1.66 | 3.58% | 3.855 | 0.84 | 21.00 | 2.77 | 4.54 | 150 | 0.392 | 0.392 | 0.76 | 1.285 | 0.487 | 918.15 | 3.833 | 2.199E+05 | 2.199E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 51.23 | 124.06 | 3.3388 | 54.60 | 1.72 | 3.15% | 3.355 | 0.81 | 24.98 | 2.67 | 3.76 | 124 | 0.258 | 0.258 | 0.76 | 1.286 | 0.486 | 924.15 | 3.853 | 2.217E+05 | 2.217E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.65 | 0.00 | | |
| 51.32 | 125.31 | 3.3444 | 72.39 | 1.85 | 2.56% | 2.679 | 0.76 | 33.59 | 2.49 | 2.74 | 109 | 0.199 | 0.213 | 0.76 | 1.289 | 0.486 | 936.48 | 3.892 | 2.254E+05 | 2.254E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | | 0.44 | 0.61 | <= | 2.16 | 0.023 | 0.00 | 1.65 | 0.00 | 51.23 | 51.32 |
| 51.36 | 125.83 | 3.3470 | 78.94 | 1.93 | 2.44% | 2.553 | 0.74 | 36.76 | 2.45 | 2.52 | 110 | 0.205 | 0.208 | 0.76 | 1.290 | 0.486 | 943.64 | 3.908 | 2.279E+05 | 2.279E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | | 0.43 | 0.60 | <= | 2.13 | 0.010 | 0.00 | 1.62 | 0.00 | 51.32 | 51.36 |
| 51.44 | 126.65 | 3.3520 | 87.93 | 2.09 | 2.38% | 2.471 | 0.73 | 41.08 | 2.40 | 2.31 | 114 | 0.218 | 0.208 | 0.76 | 1.293 | 0.486 | 957.11 | 3.933 | 2.329E+05 | 2.329E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | | 0.43 | 0.60 | <= | 2.07 | 0.019 | 0.00 | 1.61 | 0.00 | 51.36 | 51.44 |
| 51.48 | 127.09 | 3.3546 | 93.79 | 2.17 | 2.31% | 2.400 | 0.72 | 43.89 | 2.37 | 2.18 | 116 | 0.226 | 0.199 | 0.76 | 1.294 | 0.485 | 963.47 | 3.947 | 2.352E+05 | 2.352E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.42 | 0.57 | <= | 2.04 | 0.009 | 0.00 | 1.59 | 0.00 | 51.44 | 51.48 |
| 51.56 | 127.83 | 3.3597 | 109.13 | 2.28 | 2.09% | 2.156 | 0.69 | 51.27 | 2.28 | 1.89 | 119 | 0.238 | 0.182 | 0.76 | 1.297 | 0.485 | 971.83 | 3.970 | 2.379E+05 | 2.379E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.38 | 0.52 | <= | 2.00 | 0.018 | 0.00 | 1.58 | 0.00 | 51.48 | 51.56 |
| 51.63 | 128.27 | 3.3642 | 120.66 | 2.34 | 1.94% | 1.995 | 0.67 | 56.79 | 2.22 | 1.72 | 122 | 0.249 | 0.301 | 0.76 | 1.299 | 0.485 | 976.23 | 3.984 | 2.392E+05 | 2.392E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.63 | 0.86 | <= | 1.66 | 0.014 | 0.00 | 1.57 | 0.00 | 51.56 | 51.63 |
| 51.69 | 128.62 | 3.3680 | 129.46 | 2.40 | 1.85% | 1.903 | 0.66 | 60.99 | 2.18 | 1.62 | 125 | 0.261 | 0.266 | 0.76 | 1.301 | 0.485 | 980.51 | 3.994 | 2.407E+05 | 2.407E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.55 | 0.76 | <= | 1.93 | 0.013 | 0.00 | 1.55 | 0.00 | 51.63 | 51.69 |
| 51.76 | 128.79 | 3.3725 | 136.10 | 2.42 | 1.78% | 1.823 | 0.65 | 64.13 | 2.15 | 1.55 | 126 | 0.268 | 0.268 | 0.75 | 1.303 | 0.484 | 981.91 | 4.000 | 2.411E+05 | 2.411E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.56 | 0.77 | <= | 1.91 | 0.009 | 0.00 | 1.54 | 0.00 | 51.69 | 51.76 |
| 51.85 | 128.61 | 3.3783 | 141.87 | 2.33 | 1.64% | 1.682 | 0.64 | 66.82 | 2.11 | 1.47 | 126 | 0.267 | 0.267 | 0.75 | 1.306 | 0.484 | 975.50 | 3.994 | 2.383E+05 | 2.383E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.56 | 0.77 | <= | 1.76 | 0.011 | 0.00 | 1.53 | 0.00 | 51.76 | 51.85 |
| 51.90 | 127.80 | 3.3815 | 143.72 | 2.07 | 1.44% | 1.475 | 0.63 | 67.66 | 2.06 | 1.39 | 122 | 0.249 | 0.249 | 0.75 | 1.307 | 0.484 | 955.49 | 3.969 | 2.300E+05 | 2.300E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.52 | 0.72 | <= | 1.59 | 0.010 | 0.00 | 1.52 | 0.00 | 51.85 | 51.90 |
| 51.98 | 127.19 | 3.3866 | 143.33 | 1.91 | 1.33% | 1.365 | 0.62 | 67.38 | 2.04 | 1.36 | 119 | 0.237 | 0.244 | 0.75 | 1.310 | 0.484 | 941.88 | 3.950 | 2.246E+05 | 2.246E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.51 | 0.70 | <= | 1.59 | 0.015 | 0.00 | 1.51 | 0.00 | 51.90 | 51.98 |
| 52.02 | 127.22 | 3.3892 | 140.79 | 1.93 | 1.37% | 1.405 | 0.63 | 66.12 | 2.06 | 1.38 | 118 | 0.235 | 0.242 | 0.75 | 1.311 | 0.483 | 943.64 | 3.951 | 2.254E+05 | 2.254E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.51 | 0.70 | <= | 2.01 | 0.007 | 0.00 | 1.49 | 0.00 | 51.98 | 52.02 |
| 52.07 | 127.23 | 3.3923 | 135.12 | 1.96 | 1.45% | 1.488 | 0.64 | 63.34 | 2.09 | 1.44 | 117 | 0.230 | 0.260 | 0.75 | 1.313 | 0.483 | 946.25 | 3.951 | 2.266E+05 | 2.266E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.54 | 0.75 | <= | 2.03 | 0.012 | 0.00 | 1.49 | 0.00 | 52.02 | 52.07 |
| 52.15 | 127.30 | 3.3974 | 127.79 | 2.01 | 1.57% | 1.616 | 0.65 | 59.74 | 2.14 | 1.52 | 116 | 0.226 | 0.276 | 0.75 | 1.315 | 0.483 | 950.51 | 3.953 | 2.285E+05 | 2.285E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.58 | 0.79 | <= | 2.04 | 0.019 | 0.00 | 1.48 | 0.00 | 52.07 | 52.15 |
| 52.21 | 127.48 | 3.4012 | 119.29 | 2.11 | 1.77% | 1.821 | 0.67 | 55.60 | 2.20 | 1.66 | 116 | 0.227 | 0.297 | 0.75 | 1.317 | 0.483 | 958.72 | 3.959 | 2.322E+05 | 2.322E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.62 | 0.86 | <= | 1.68 | 0.012 | 0.00 | 1.46 | 0.00 | 52.15 | 52.21 |
| 52.27 | 127.78 | 3.4051 | 106.88 | 2.28 | 2.13% | 2.203 | 0.70 | 49.60 | 2.30 | 1.94 | 119 | 0.236 | 0.182 | 0.75 | 1.319 | 0.483 | 971.83 | 3.968 | 2.380E+05 | 2.380E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.38 | 0.52 | <= | 2.01 | 0.014 | 0.00 | 1.45 | 0.00 | 52.21 | 52.27 |
| 52.34 | 128.36 | 3.4096 | 100.63 | 2.52 | 2.50% | 2.592 | 0.72 | 46.55 | 2.37 | 2.19 | 124 | 0.258 | 0.211 | 0.75 | 1.321 | 0.482 | 988.76 | 3.986 | 2.453E+05 | 2.453E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.44 | 0.61 | <= | 1.94 | 0.016 | 0.00 | 1.43 | 0.00 | 52.27 | 52.34 |
| 52.43 | 128.67 | 3.4154 | 92.52 | 2.70 | 2.92% | 3.030 | 0.74 | 42.60 | 2.45 | 2.53 | 129 | 0.279 | 0.239 | 0.75 | 1.324 | 0.482 | 1000.43 | 3.996 | 2.505E+05 | 2.505E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.50 | 0.69 | <= | 1.88 | 0.014 | 0.00 | 1.42 | 0.00 | 52.34 | 52.43 |
| 52.48 | 128.90 | 3.4186 | 89.78 | 2.82 | 3.14% | 3.265 | 0.75 | 41.26 | 2.48 | 2.69 | 132 | 0.294 | 0.252 | 0.75 | 1.325 | 0.482 | 1007.79 | 4.003 | 2.537E+05 | 2.537E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.53 | 0.73 | <= | 1.84 | 0.011 | 0.00 | 1.40 | 0.00 | 52.43 | 52.48 |
| 52.54 | 129.39 | 3.4225 | 89.29 | 3.02 | 3.38% | 3.517 | 0.76 | 40.98 | 2.51 | 2.82 | 137 | 0.318 | 0.273 | 0.75 | 1.327 | 0.482 | 1019.38 | 4.018 | 2.586E+05 | 2.586E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.57 | 0.79 | <= | 1.79 | 0.009 | 0.00 | 1.39 | 0.00 | 52.48 | 52.54 |
| 52.61 | 129.90 | 3.4270 | 90.17 | 3.22 | 3.57% | 3.712 | 0.77 | 41.35 | 2.53 | 2.90 | 141 | 0.343 | 0.281 | 0.75 | 1.329 | 0.481 | 1030.23 | 4.034 | 2.631E+05 | 2.631E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.59 | 0.81 | <= | 1.74 | 0.004 | 0.00 | 1.38 | 0.00 | 52.54 | 52.61 |
| 52.69 | 130.01 | 3.4322 | 96.53 | 3.20 | 3.32% | 3.437 | 0.75 | 44.33 | 2.48 | 2.66 | 140 | 0.337 | 0.262 | 0.75 | 1.332 | 0.481 | 1029.17 | 4.038 | 2.623E+05 | 2.623E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.55 | 0.76 | <= | 1.76 | 0.004 | 0.00 | 1.38 | 0.00 | 52.61 | 52.69 |
| 52.74 | 130.18 | 3.4355 | 106.59 | 3.17 | 2.97% | 3.073 | 0.73 | 49.07 | 2.41 | 2.34 | 139 | 0.330 | 0.226 | 0.75 | 1.333 | 0.481 | 1027.58 | 4.043 | 2.612E+05 | 2.612E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.48 | 0.65 | <= | 1.77 | 0.005 | 0.00 | 1.37 | 0.00 | 52.69 | 52.74 |
| 52.80 | 130.39 | 3.4394 | 119.88 | 3.14 | 2.62% | 2.697 | 0.71 | 55.34 | 2.32 | 2.03 | 138 | 0.326 | 0.326 | 0.75 | 1.335 | 0.481 | 1025.97 | 4.049 | 2.599E+05 | 2.599E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.69 | 0.94 | <= | 0.78 | 0.006 | 0.00 | 1.37 | 0.00 | 52.74 | 52.80 |
| 52.88 | 130.36 | 3.4446 | 131.90 | 3.02 | 2.29% | 2.351 | 0.68 | 60.97 | 2.25 | 1.79 | 137 | 0.318 | 0.318 | 0.75 | 1.338 | 0.480 | 1019.38 | 4.048 | 2.567E+05 | 2.567E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.67 | 0.92 | <= | 0.72 | 0.007 | 0.00 | 1.36 | 0.00 | 52.80 | 52.88 |
| 52.94 | 130.10 | 3.4485 | 138.64 | 2.87 | 2.07% | 2.123 | 0.67 | 64.11 | 2.20 | 1.66 | 135 | 0.307 | 0.307 | 0.75 | 1.340 | 0.480 | 1010.76 | 4.040 | 2.529E+05 | 2.529E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.65 | 0.89 | <= | 1.74 | 0.005 | 0.00 | 1.36 | 0.00 | 52.88 | 52.94 |
| 53.01 | 130.04 | 3.4531 | 139.03 | 2.84 | 2.04% | 2.095 | 0.67 | 64.22 | 2.19 | 1.65 | 134 | 0.305 | 0.305 | 0.74 | 1.342 | 0.480 | 1008.99 | 4.039 | 2.521E+05 | 2.521E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.64 | 0.88 | <= | 1.68 | 0.006 | 0.00 | 1.35 | 0.00 | 52.94 | 53.01 |
| 53.06 | 130.19 | 3.4563 | 137.08 | 2.92 | 2.13% | 2.185 | 0.67 | 63.24 | 2.21 | 1.70 | 135 | 0.310 | 0.310 | 0.74 | 1.343 | 0.480 | 1013.68 | 4.043 | 2.541E+05 | 2.541E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.65 | 0.90 | <= | 0.67 | 0.004 | 0.00 | 1.34 | 0.00 | 53.01 | 53.06 |
| 53.15 | 129.37 | 3.4621 | 126.03 | 2.68 | 2.13% | 2.187 | 0.68 | 57.93 | 2.24 | 1.77 | 129 | 0.279 | 0.279 | 0.74 | 1.346 | 0.479 | 999.18 | 4.018 | 2.485E+05 | 2.485E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.59 | 0.81 | <= | 1.14 | 0.012 | 0.00 | 1.34 | 0.00 | 53.06 | 53.15 |
| 53.19 | 129.76 | 3.4647 | 118.90 | 2.88 | 2.42% | 2.495 | 0.70 | 54.52 | 2.30 | 1.96 | 132 | 0.296 | 0.174 | 0.74 | 1.348 | 0.479 | 1011.35 | 4.030 | 2.538E+05 | 2.538E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.37 | 0.50 | <= | 1.84 | 0.008 | 0.00 | 1.33 | 0.00 | 53.15 | 53.19 |
| 53.28 | 129.68 | 3.4706 | 98.97 | 3.03 | 3.06% | 3.173 | 0.74 | 45.04 | 2.45 | 2.51 | 136 | 0.312 | 0.232 | 0.74 | 1.350 | 0.479 | 1019.94 | 4.027 | 2.583E+05 | 2.583E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.49 | 0.67 | <= | 1.80 | 0.008 | 0.00 | 1.32 | 0.00 | 53.19 | 53.28 |
| 53.32 | 129.45 | 3.4731 | 91.83 | 3.02 | 3.29% | 3.418 | 0.76 | 41.65 | 2.50 | 2.74 | 136 | 0.314 | 0.260 | 0.74 | 1.352 | 0.479 | 1019.38 | 4.020 | 2.585E+05 | 2.585E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.55 | 0.75 | <= | 1.80 | 0.006 | 0.00 | 1.31 | 0.00 | 53.28 | 53.32 |
| 53.41 | 129.39 | 3.4790 | 91.59 | 2.99 | 3.26% | 3.393 | 0.76 | 41.47 | 2.49 | 2.74 | 135 | 0.310 | 0.257 | 0.74 | 1.354 | 0.478 | 1017.69 | 4.018 | 2.577E+05 | 2.577E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.54 | 0.75 | <= | 1.81 | 0.011 | 0.00 | 1.31 | 0.00 | 53.32 | 53.41 |
| 53.46 | 129.23 | 3.4822 | 91.59 | 2.93 | 3.20% | 3.325 | 0.75 | 41.44 | 2.49 | 2.71 | 134 | 0.303 | 0.251 | 0.74 | 1.356 | 0.478 | 1014.26 | 4.013 | 2.563E+05 | 2.563E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.53 | 0.73 | <= | 1.82 | 0.005 | 0.00 | 1.29 | 0.00 | 53.41 | 53.46 |
| 53.55 | 129.28 | 3.4880 | 91.35 | 2.95 | 3.23% | 3.358 | 0.76 | 41.26 | 2.49 | 2.73 | 134 | 0.305 | 0.253 | 0.74 | 1.359 | 0.478 | 1015.41 | 4.015 | 2.568E+05 | 2.568E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.53 | 0.74 | <= | 1.82 | 0.009 | 0.00 | 1.29 | 0.00 | 53.46 | 53.55 |
| 53.59 | 130.01 | 3.4906 | 101.51 | 3.15 | 3.10% | 3.214 | 0.74 | 46.01 | 2.44 | 2.49 | 138 | 0.325 | 0.227 | 0.74 | 1.360 | 0.477 | 1026.51 | 4.038 | 2.610E+05 | 2.610E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.48 | 0.66 | <= | 1.78 | 0.004 | 0.00 | 1.28 | 0.00 | 53.55 | 53.59 |
| 53.67 | 131.49 | 3.4959 | 133.85 | 3.51 | 2.62% | 2.693 | 0.70 | 61.10 | 2.29 | 1.92 | 146 | 0.369 | 0.369 | 0.74 | 1.363 | 0.477 | 1044.82 | 4.084 | 2.673E+05 | 2.673E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.78 | 1.08 | <= | 0.57 | 0.003 | 0.00 | 1.28 | 0.00 | 53.59 | 53.67 |
| 53.72 | 131.93 | 3.4992 | 150.17 | 3.59 | 2.39% | 2.448 | 0.67 | 68.69 | 2.22 | 1.72 | 149 | 0.390 | 0.390 | 0.74 | 1.364 | 0.477 | 1048.63 | 4.097 | 2.684E+05 | 2.684E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.83 | 1.14 | <= | 0.35 | 0.001 | 0.00 | 1.27 | 0.00 | 53.67 | 53.72 |
| 53.78 | 132.22 | 3.5031 | 176.36 | 3.54 | 2.01% | 2.048 | 0.64 | 80.88 | 2.11 | 1.47 | 154 | 0.420 | 0.420 | 0.74 | 1.366 | 0.477 | 1046.26 | 4.106 | 2.666E+05 | 2.666E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.89 | 1.23 | <= | 0.23 | 0.000 | 0.00 | 1.27 | 0.00 | 53.72 | 53.78 |
| 53.86 | 132.30 | 3.5084 | 188.08 | 3.50 | 1.86% | 1.896 | 0.63 | 86.25 | 2.06 | 1.39 | 157 | 0.440 | 0.440 | 0.74 | 1.368 | 0.476 | 1044.33 | 4.109 | 2.654E+05 | 2.654E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.93 | 1.28 | <= | 0.28 | 0.000 | 0.00 | 1.27 | 0.00 | 53.78 | 53.86 |
| 53.91 | 132.46 | 3.5117 | 193.85 | 3.55 | 1.83% | 1.865 | 0.62 | 88.87 | 2.05 | 1.37 | 160 | 0.458 | 0.458 | 0.74 | 1.370 | 0.476 | 1046.73 | 4.114 | 2.663E+05 | 2.663E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.97 | 1.34 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 53.99 | 132.41 | 3.5170 | 196.78 | 3.50 | 1.78% | 1.811 | 0.62 | 90.12 | 2.03 | 1.34 | 160 | 0.459 | 0.459 | 0.74 | 1.372 | 0.476 | 1044.33 | 4.112 | 2.652E+05 | 2.652E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.98 | 1.34 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.05 | 132.62 | 3.5210 | 203.04 | 3.57 | 1.76% | 1.789 | 0.61 | 92.94 | 2.02 | 1.32 | 163 | 0.482 | 0.482 | 0.74 | 1.374 | 0.476 | 1047.68 | 4.119 | 2.665E+05 | 2.665E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 1.02 | 1.41 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.13 | 132.82 | 3.5263 | 211.15 | 3.62 | 1.71% | 1.744 | 0.61 | 96.59 | 2.00 | 1.30 | 167 | 0.510 | 0.510 | 0.74 | 1.377 | 0.475 | 1050.04 | 4.125 | 2.673E+05 | 2.673E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 1.08 | 1.49 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.20 | 132.77 | 3.5310 | 218.77 | 3.55 | 1.62% | 1.649 | 0.60 | 100.02 | 1.97 | 1.26 | 169 | 0.527 | 0.527 | 0.73 | 1.379 | 0.475 | 1046.73 | 4.123 | 2.657E+05 | 2.657E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 1.12 | 1.54 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.25 | 132.69 | 3.5343 | 222.68 | 3.49 | 1.57% | 1.593 | 0.59 | 101.75 | 1.95 | 1.24 | 170 | 0.534 | 0.534 | 0.73 | 1.381 | 0.475 | 1043.85 | 4.121 | 2.644E+05 | 2.644E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 1.14 | 1.56 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.34 | 132.56 | 3.5403 | 226.58 | 3.41 | 1.50% | 1.529 | 0.59 | 103.41 | 1.93 | 1.22 | 170 | 0.540 | 0.540 | 0.73 | 1.383 | 0.474 | 1039.93 | 4.117 | 2.627E+05 | 2.627E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 1.15 | 1.58 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.39 | 132.55 | 3.5436 | 228.74 | 3.39 | 1.48% | 1.505 | 0.58 | 104.32 | 1.92 | 1.21 | 171 | 0.545 | 0.545 | 0.73 | 1.385 | 0.474 | 1038.93 | 4.116 | 2.622E+05 | 2.622E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 1.16 | 1.60 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.45 | 132.54 | 3.5476 | 232.45 | 3.37 | 1.45% | 1.472 | 0.58 | 105.94 | 1.91 | 1.20 | 172 | 0.557 | 0.557 | 0.73 | 1.387 | 0.474 | 1037.93 | 4.116 | 2.617E+05 | 2.617E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 1.19 | 1.63 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.52 | 132.06 | 3.5522 | 238.41 | 3.13 | 1.31% | 1.333 | 0.57 | 108.57 | 1.87 | 1.16 | 173 | 0.560 | 0.560 | 0.73 | 1.389 | 0.474 | 1025.43 | 4.101 | 2.564E+05 | 2.564E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 1.19 | 1.64 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.57 | 131.80 | 3.5555 | 243.59 | 3.00 | 1.23% | 1.250 | 0.56 | 110.88 | 1.84 | 1.14 | 174 | 0.570 | 0.570 | 0.73 | 1.391 | 0.474 | 1018.26 | 4.093 | 2.533E+05 | 2.533E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 1.22 | 1.68 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.66 | 132.27 | 3.5614 | 248.86 | 3.18 | 1.28% | 1.296 | 0.56 | 113.14 | 1.85 | 1.14 | 178 | 0.606 | 0.606 | 0.73 | 1.393 | 0.473 | 1028.11 | 4.108 | 2.573E+05 | 2.573E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 1.30 | 1.78 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.70 | 132.66 | 3.5641 | 250.82 | 3.34 | 1.33% | 1.351 | 0.57 | 113.97 | 1.86 | 1.15 | 181 | 0.628 | 0.628 | 0.73 | 1.395 | 0.473 | 1036.42 | 4.120 | 2.607E+05 | 2.607E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 1.34 | 1.85 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.79 | 133.16 | 3.5701 | 250.13 | 3.58 | 1.43% | 1.452 | 0.57 | 113.49 | 1.88 | 1.17 | 182 | 0.644 | 0.644 | 0.73 | 1.397 | 0.473 | 1048.16 | 4.135 | 2.657E+05 | 2.657E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 1.38 | 1.89 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.83 | 133.29 | 3.5727 | 247.79 | 3.66 | 1.48% | 1.499 | 0.58 | 112.33 | 1.90 | 1.19 | 182 | 0.640 | 0.640 | 0.73 | 1.399 | 0.472 | 1051.89 | 4.139 | 2.673E+05 | 2.673E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 1.37 | 1.88 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.91 | 133.49 | 3.5781 | 227.86 | 3.87 | 1.70% | 1.726 | 0.60 | 103.03 | 1.97 | 1.26 | 175 | 0.580 | 0.580 | 0.73 | 1.401 | 0.472 | 1061.33 | 4.146 | 2.717E+05 | 2.717E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 1.24 | 1.71 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 54.97 | 134.00 | 3.5821 | 222.19 | 4.18 | 1.88% | 1.912 | 0.61 | 100.32 | 2.02 | 1.32 | 176 | 0.591 | 0.591 | 0.73 | 1.403 | 0.472 | 1074.37 | 4.161 | 2.774E+05 | 2.774E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 1.27 | 1.74 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.04 | 134.41 | 3.5868 | 210.36 | 4.50 | 2.14% | 2.176 | 0.63 | 94.78 | 2.08 | 1.42 | 176 | 0.590 | 0.590 | 0.73 | 1.405 | 0.472 | 1086.85 | 4.174 | 2.830E+05 | 2.830E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 1.26 | 1.74 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.10 | 134.51 | 3.5908 | 198.35 | 4.65 | 2.34% | 2.388 | 0.65 | 89.19 | 2.13 | 1.51 | 175 | 0.577 | 0.577 | 0.73 | 1.407 | 0.471 | 1092.39 | 4.177 | 2.857E+05 | 2.857E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | | 1.24 | 1.70 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.16 | 134.69 | 3.5949 | 188.77 | 4.85 | 2.57% | 2.619 | 0.66 | 84.71 | 2.18 | 1.61 | 176 | 0.583 | 0.583 | 0.73 | 1.409 | 0.471 | 1099.52 | 4.183 | 2.890E+05 | 2.890E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | | 1.25 | 1.72 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.23 | 134.46 | 3.5996 | 174.11 | 4.83 | 2.77% | 2.833 | 0.68 | 77.92 | 2.23 | 1.74 | 173 | 0.558 | 0.558 | 0.73 | 1.411 | 0.471 | 1098.82 | 4.176 | 2.891E+05 | 2.891E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | | 1.20 | 1.65 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.30 | 133.91 | 3.6043 | 170.98 | 4.50 | 2.63% | 2.689 | 0.67 | 76.40 | 2.22 | 1.71 | 167 | 0.510 | 0.510 | 0.73 | 1.413 | 0.470 | 1086.85 | 4.159 | 2.840E+05 | 2.840E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | | 1.10 | 1.51 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.37 | 134.10 | 3.6090 | 219.55 | 4.25 | 1.94% | 1.968 | 0.62 | 98.45 | 2.03 | 1.34 | 176 | 0.585 | 0.585 | 0.73 | 1.416 | 0.470 | 1077.18 | 4.165 | 2.786E+05 | 2.786E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | | 1.26 | 1.73 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.43 | 134.13 | 3.6130 | 253.16 | 4.08 | 1.61% | 1.635 | 0.58 | 113.66 | 1.92 | 1.21 | 188 | 0.694 | 0.694 | 0.73 | 1.417 | 0.470 | 1070.27 | 4.166 | 2.750E+05 | 2.750E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | | 1.49 | 2.05 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.51 | 133.99 | 3.6183 | 296.55 | 3.79 | 1.28% | 1.294 | 0.55 | 133.25 | 1.79 | 1.10 | 206 | 0.893 | 0.893 | 0.72 | 1.420 | 0.470 | 1057.80 | 4.161 | 2.689E+05 | 2.689E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | | 1.92 | 2.65 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.55 | 133.85 | 3.6210 | 320.10 | 3.62 | 1.13% | 1.144 | 0.53 | 143.86 | 1.72 | 1.05 | 211 | 0.952 | 0.952 | 0.72 | 1.421 | 0.469 | 1050.04 | 4.157 | 2.652E+05 | 2.652E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 2.05 | 2.82 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.63 | 133.06 | 3.6263 | 344.63 | 3.17 | 0.92% | 0.930 | 0.50 | 154.81 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.424 | 0.469 | 1027.58 | 4.132 | 2.555E+05 | 2.555E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 1.78 | 2.44 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.71 | 131.76 | 3.6316 | 356.06 | 2.63 | 0.74% | 0.746 | 0.50 | 159.80 | 1.55 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.426 | 0.469 | 995.99 | 4.092 | 2.424E+05 | 2.424E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 1.78 | 2.44 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.75 | 131.22 | 3.6342 | 357.72 | 2.44 | 0.68% | 0.689 | 0.50 | 160.45 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.427 | 0.469 | 983.31 | 4.075 | 2.373E+05 | 2.373E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.82 | 130.82 | 3.6388 | 359.38 | 2.31 | 0.64% | 0.649 | 0.50 | 161.02 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.430 | 0.468 | 974.04 | 4.063 | 2.335E+05 | 2.335E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.89 | 130.64 | 3.6434 | 361.82 | 2.24 | 0.62% | 0.625 | 0.50 | 161.95 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.432 | 0.468 | 968.84 | 4.057 | 2.314E+05 | 2.314E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 55.97 | 130.43 | 3.6486 | 363.78 | 2.18 | 0.60% | 0.605 | 0.50 | 162.64 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.434 | 0.468 | 964.25 | 4.051 | 2.295E+05 | 2.295E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.01 | 130.37 | 3.6512 | 363.68 | 2.16 | 0.59% | 0.600 | 0.50 | 162.49 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.436 | 0.468 | 962.69 | 4.049 | 2.289E+05 | 2.289E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.08 | 130.17 | 3.6558 | 361.82 | 2.11 | 0.58% | 0.589 | 0.50 | 161.48 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.438 | 0.467 | 958.72 | 4.043 | 2.274E+05 | 2.274E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.14 | 129.85 | 3.6597 | 358.11 | 2.02 | 0.56% | 0.570 | 0.50 | 159.66 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.440 | 0.467 | 951.35 | 4.033 | 2.244E+05 | 2.244E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.24 | 129.47 | 3.6661 | 348.63 | 1.94 | 0.56% | 0.562 | 0.50 | 155.15 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.443 | 0.467 | 944.51 | 4.021 | 2.219E+05 | 2.219E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 1.78 | 2.46 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.28 | 129.32 | 3.6687 | 343.16 | 1.91 | 0.56% | 0.563 | 0.50 | 152.59 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.444 | 0.466 | 941.88 | 4.016 | 2.209E+05 | 2.209E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.35 | 129.15 | 3.6732 | 333.78 | 1.88 | 0.56% | 0.570 | 0.50 | 148.22 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.446 | 0.466 | 939.20 | 4.011 | 2.199E+05 | 2.199E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.41 | 129.02 | 3.6771 | 329.48 | 1.86 | 0.56% | 0.571 | 0.50 | 146.16 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.448 | 0.466 | 937.39 | 4.007 | 2.193E+05 | 2.193E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.48 | 128.81 | 3.6816 | 321.86 | 1.82 | 0.57% | 0.572 | 0.50 | 142.59 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.450 | 0.466 | 933.71 | 4.000 | 2.179E+05 | 2.179E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.55 | 128.63 | 3.6861 | 317.95 | 1.78 | 0.56% | 0.566 | 0.50 | 140.69 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.452 | 0.465 | 929.95 | 3.995 | 2.165E+05 | 2.165E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.62 | 128.39 | 3.6906 | 308.86 | 1.74 | 0.56% | 0.570 | 0.50 | 136.48 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.455 | 0.465 | 926.11 | 3.987 | 2.151E+05 | 2.151E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.68 | 128.11 | 3.6945 | 300.85 | 1.69 | 0.56% | 0.569 | 0.50 | 132.77 | 1.53 | 1.00 | 195 | 0.767 | 0.767 | 0.71 | 1.456 | 0.465 | 921.18 | 3.979 | 2.133E+05 | 2.133E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.67 | 2.30 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.77 | 127.66 | 3.7002 | 289.22 | 1.61 | 0.56% | 0.564 | 0.50 | 127.41 | 1.54 | 1.00 | 187 | 0.688 | 0.688 | 0.71 | 1.459 | 0.464 | 912.97 | 3.965 | 2.102E+05 | 2.102E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.50 | 2.06 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.83 | 126.55 | 3.7040 | 278.86 | 1.40 | 0.50% | 0.509 | 0.50 | 122.68 | 1.53 | 1.00 | 180 | 0.624 | 0.624 | 0.71 | 1.461 | 0.464 | 889.33 | 3.930 | 2.012E+05 | 2.012E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 1.36 | 1.87 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.87 | 126.28 | 3.7065 | 273.20 | 1.36 | 0.50% | 0.505 | 0.50 | 120.09 | 1.53 | 1.00 | 176 | 0.590 | 0.590 | 0.71 | 1.462 | 0.464 | 884.43 | 3.922 | 1.995E+05 | 1.995E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 1.29 | 1.77 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 56.95 | 126.99 | 3.7116 | 266.26 | 1.51 | 0.57% | 0.575 | 0.50 | 116.86 | 1.58 | 1.00 | 172 | 0.551 | 0.551 | 0.71 | 1.465 | 0.464 | 902.13 | 3.944 | 2.064E+05 | 2.064E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 1.20 | 1.65 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.00 | 126.69 | 3.7148 | 264.60 | 1.45 | 0.55% | 0.556 | 0.50 | 116.03 | 1.57 | 1.00 | 171 | 0.542 | 0.542 | 0.71 | 1.466 | 0.464 | 895.27 | 3.934 | 2.037E+05 | 2.037E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 1.18 | 1.63 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.08 | 127.55 | 3.7199 | 263.91 | 1.64 | 0.62% | 0.630 | 0.50 | 115.59 | 1.60 | 1.00 | 170 | 0.537 | 0.537 | 0.71 | 1.469 | 0.463 | 916.10 | 3.961 | 2.119E+05 | 2.119E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.17 | 1.61 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.13 | 127.96 | 3.7231 | 264.21 | 1.73 | 0.65% | 0.664 | 0.50 | 115.64 | 1.62 | 1.00 | 170 | 0.538 | 0.538 | 0.71 | 1.470 | 0.463 | 925.13 | 3.974 | 2.154E+05 | 2.154E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.18 | 1.62 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.21 | 128.39 | 3.7282 | 259.22 | 1.85 | 0.71% | 0.724 | 0.50 | 113.29 | 1.65 | 1.00 | 167 | 0.514 | 0.514 | 0.71 | 1.473 | 0.463 | 936.48 | 3.987 | 2.199E+05 | 2.199E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.12 | 1.54 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.26 | 128.79 | 3.7314 | 258.83 | 1.95 | 0.75% | 0.764 | 0.51 | 113.03 | 1.67 | 1.02 | 168 | 0.522 | 0.522 | 0.71 | 1.475 | 0.463 | 945.38 | 4.000 | 2.235E+05 | 2.235E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.14 | 1.57 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.35 | 129.09 | 3.7372 | 258.64 | 2.03 | 0.78% | 0.796 | 0.51 | 112.79 | 1.68 | 1.03 | 169 | 0.528 | 0.528 | 0.71 | 1.477 | 0.462 | 952.19 | 4.009 | 2.262E+05 | 2.262E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 1.15 | 1.59 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.40 | 129.15 | 3.7405 | 258.64 | 2.05 | 0.79% | 0.804 | 0.51 | 112.71 | 1.68 | 1.03 | 169 | 0.529 | 0.529 | 0.71 | 1.479 | 0.462 | 953.84 | 4.011 | 2.268E+05 | 2.268E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 1.16 | 1.59 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.47 | 129.09 | 3.7450 | 258.64 | 2.03 | 0.78% | 0.796 | 0.51 | 112.59 | 1.68 | 1.03 | 169 | 0.527 | 0.527 | 0.71 | 1.481 | 0.462 | 952.19 | 4.009 | 2.262E+05 | 2.262E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 1.15 | 1.59 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.53 | 128.99 | 3.7489 | 260.10 | 2.00 | 0.77% | 0.780 | 0.51 | 113.13 | 1.67 | 1.02 | 169 | 0.529 | 0.529 | 0.71 | 1.483 | 0.461 | 949.67 | 4.006 | 2.251E+05 | 2.251E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 1.16 | 1.59 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.60 | 128.95 | 3.7534 | 263.52 | 1.98 | 0.75% | 0.762 | 0.51 | 114.52 | 1.66 | 1.01 | 170 | 0.539 | 0.539 | 0.71 | 1.485 | 0.461 | 947.97 | 4.005 | 2.244E+05 | 2.244E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 1.18 | 1.63 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.67 | 128.89 | 3.7579 | 265.09 | 1.96 | 0.74% | 0.750 | 0.50 | 115.09 | 1.66 | 1.01 | 171 | 0.542 | 0.542 | 0.71 | 1.487 | 0.461 | 946.25 | 4.003 | 2.237E+05 | 2.237E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 1.19 | 1.64 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.74 | 128.81 | 3.7624 | 267.53 | 1.93 | 0.72% | 0.732 | 0.50 | 116.05 | 1.64 | 1.00 | 171 | 0.547 | 0.547 | 0.71 | 1.489 | 0.461 | 943.64 | 4.000 | 2.226E+05 | 2.226E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 1.20 | 1.65 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.80 | 128.72 | 3.7663 | 269.19 | 1.91 | 0.71% | 0.720 | 0.50 | 116.68 | 1.64 | 1.00 | 173 | 0.558 | 0.558 | 0.71 | 1.491 | 0.460 | 941.88 | 3.998 | 2.219E+05 | 2.219E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.22 | 1.69 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.86 | 128.64 | 3.7701 | 271.63 | 1.88 | 0.69% | 0.702 | 0.50 | 117.64 | 1.63 | 1.00 | 174 | 0.571 | 0.571 | 0.71 | 1.493 | 0.460 | 939.20 | 3.995 | 2.208E+05 | 2.208E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.25 | 1.72 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.94 | 128.56 | 3.7753 | 273.88 | 1.85 | 0.68% | 0.685 | 0.50 | 118.49 | 1.62 | 1.00 | 175 | 0.582 | 0.582 | 0.70 | 1.496 | 0.460 | 936.48 | 3.993 | 2.197E+05 | 2.197E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.28 | 1.76 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 57.99 | 128.55 | 3.7785 | 275.64 | 1.85 | 0.67% | 0.680 | 0.50 | 119.18 | 1.61 | 1.00 | 177 | 0.591 | 0.591 | 0.70 | 1.497 | 0.460 | 936.48 | 3.992 | 2.197E+05 | 2.197E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.30 | 1.79 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.06 | 128.54 | 3.7830 | 280.33 | 1.83 | 0.65% | 0.662 | 0.50 | 121.11 | 1.60 | 1.00 | 179 | 0.617 | 0.617 | 0.70 | 1.499 | 0.459 | 934.64 | 3.992 | 2.188E+05 | 2.188E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.36 | 1.87 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.14 | 128.47 | 3.7881 | 285.51 | 1.81 | 0.63% | 0.642 | 0.50 | 123.23 | 1.59 | 1.00 | 183 | 0.647 | 0.647 | 0.70 | 1.502 | 0.459 | 932.78 | 3.990 | 2.181E+05 | 2.181E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.43 | 1.96 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.20 | 128.43 | 3.7920 | 290.39 | 1.79 | 0.62% | 0.625 | 0.50 | 125.25 | 1.57 | 1.00 | 186 | 0.676 | 0.676 | 0.70 | 1.504 | 0.459 | 930.90 | 3.989 | 2.173E+05 | 2.173E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.49 | 2.05 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.24 | 128.39 | 3.7945 | 292.74 | 1.77 | 0.60% | 0.613 | 0.50 | 126.21 | 1.56 | 1.00 | 187 | 0.691 | 0.691 | 0.70 | 1.505 | 0.458 | 929.00 | 3.987 | 2.164E+05 | 2.164E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.52 | 2.09 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.32 | 128.27 | 3.7997 | 293.62 | 1.74 | 0.59% | 0.600 | 0.50 | 126.44 | 1.56 | 1.00 | 188 | 0.695 | 0.695 | 0.70 | 1.508 | 0.458 | 926.11 | 3.984 | 2.153E+05 | 2.153E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.53 | 2.11 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.38 | 128.08 | 3.8035 | 292.93 | 1.70 | 0.58% | 0.588 | 0.50 | 126.03 | 1.55 | 1.00 | 187 | 0.690 | 0.690 | 0.70 | 1.509 | 0.458 | 922.18 | 3.978 | 2.138E+05 | 2.138E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.52 | 2.10 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.47 | 127.60 | 3.8092 | 287.17 | 1.60 | 0.56% | 0.565 | 0.50 | 123.36 | 1.55 | 1.00 | 183 | 0.653 | 0.653 | 0.70 | 1.512 | 0.458 | 911.92 | 3.963 | 2.099E+05 | 2.099E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.44 | 1.99 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.51 | 127.32 | 3.8118 | 281.89 | 1.55 | 0.55% | 0.557 | 0.50 | 120.99 | 1.55 | 1.00 | 180 | 0.621 | 0.621 | 0.70 | 1.514 | 0.457 | 906.55 | 3.954 | 2.078E+05 | 2.078E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.37 | 1.89 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.60 | 126.44 | 3.8175 | 270.66 | 1.39 | 0.51% | 0.521 | 0.50 | 115.96 | 1.55 | 1.00 | 172 | 0.557 | 0.557 | 0.70 | 1.516 | 0.457 | 888.12 | 3.927 | 2.009E+05 | 2.009E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.23 | 1.70 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.64 | 126.24 | 3.8200 | 265.67 | 1.36 | 0.51% | 0.519 | 0.50 | 113.73 | 1.55 | 1.00 | 169 | 0.531 | 0.531 | 0.70 | 1.518 | 0.457 | 884.43 | 3.920 | 1.995E+05 | 1.995E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.17 | 1.62 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.73 | 126.11 | 3.8257 | 253.65 | 1.36 | 0.54% | 0.544 | 0.50 | 108.37 | 1.58 | 1.00 | 161 | 0.471 | 0.471 | 0.70 | 1.520 | 0.456 | 884.43 | 3.916 | 1.997E+05 | 1.997E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.04 | 1.43 | | 0.00 | 0.000 | 0.00 | 1.27 | 0.00 | | |
| 58.78 | 126.00 | 3.8288 | 240.95 | 1.36 | 0.56% | 0.574 | 0.50 | 102.79 | 1.62 | 1.00 | 153 | 0.414 | 0.414 | 0.70 | 1.522 | 0.456 | 884.43 | 3.913 | 1.999E+05 | 1.999E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 0.92 | 1.26 | <= | 0.26 | 0.000 | 0.00 | 1.27 | 0.00 | 58.73 | 58.78 |
| 58.85 | 126.64 | 3.8333 | 220.43 | 1.53 | 0.69% | 0.706 | 0.52 | 93.80 | 1.71 | 1.04 | 143 | 0.354 | 0.354 | 0.70 | 1.524 | 0.456 | 904.35 | 3.933 | 2.080E+05 | 2.080E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 0.79 | 1.08 | <= | 0.59 | 0.003 | 0.00 | 1.27 | 0.00 | 58.78 | 58.85 |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-1

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular):** 2
**Discrete Column Spacing (ft):** 8.0 **Unit Tributary Area, A ($ft^2$):** 45.83 **Discrete Column Shear Modulus, $G_G$ (psf):** 2,030,000

**D (ft):** 1 **Magnitude:** 6.62 **Magnitude Scaling Factor:** 1.38 **Discrete Coumn Dia. (ft):** 3.0 **Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$):** 7.07 **$A_R = A_{sc}/A$:** 0.154 **Assumed Discrete Column Density (pcf):** 130.00

**Groundwater Level:** 10 feet **Accleration:** 0.606 g's **Discrete Coumn Intalled Depth (ft):** from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 58.91 | 127.16 | 3.8371 | 190.33 | 1.73 | 0.91% | 0.928 | 0.56 | 80.69 | 1.84 | 1.14 | 131 | 0.287 | 0.287 | 0.70 | 1.526 | 0.456 | 925.13 | 3.949 | 2.167E+05 | 2.167E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 0.64 | 0.88 | <= | 1.30 | 0.006 | 0.00 | 1.27 | 0.00 | 58.85 | 58.91 |
| 58.98 | 128.14 | 3.8416 | 156.33 | 2.11 | 1.35% | 1.384 | 0.62 | 65.92 | 2.04 | 1.36 | 121 | 0.245 | 0.245 | 0.70 | 1.528 | 0.455 | 958.72 | 3.980 | 2.310E+05 | 2.310E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 0.54 | 0.75 | <= | 1.75 | 0.009 | 0.00 | 1.26 | 0.00 | 58.91 | 58.98 |
| 59.04 | 128.71 | 3.8454 | 132.97 | 2.41 | 1.81% | 1.866 | 0.67 | 55.77 | 2.19 | 1.65 | 120 | 0.241 | 0.256 | 0.70 | 1.530 | 0.455 | 981.21 | 3.997 | 2.409E+05 | 2.409E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 0.57 | 0.78 | <= | 1.99 | 0.013 | 0.00 | 1.25 | 0.00 | 58.98 | 59.04 |
| 59.10 | 128.16 | 3.8493 | 92.42 | 2.52 | 2.73% | 2.845 | 0.75 | 38.22 | 2.46 | 2.56 | 120 | 0.241 | 0.214 | 0.70 | 1.532 | 0.455 | 988.76 | 3.980 | 2.456E+05 | 2.456E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 0.48 | 0.65 | <= | 1.99 | 0.014 | 0.00 | 1.24 | 0.00 | 59.04 | 59.10 |
| 59.18 | 126.82 | 3.8543 | 69.16 | 2.31 | 3.34% | 3.537 | 0.80 | 28.15 | 2.63 | 3.53 | 117 | 0.229 | 0.229 | 0.69 | 1.534 | 0.455 | 974.04 | 3.939 | 2.409E+05 | 2.409E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.23 | 0.00 | | |
| 59.26 | 125.61 | 3.8594 | 51.09 | 2.17 | 4.25% | 4.594 | 0.86 | 20.34 | 2.83 | 5.03 | 166 | 0.506 | 0.506 | 0.69 | 1.537 | 0.454 | 963.47 | 3.901 | 2.380E+05 | 2.380E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.23 | 0.00 | | |
| 59.31 | 124.81 | 3.8625 | 43.27 | 2.05 | 4.74% | 5.202 | 0.89 | 16.96 | 2.93 | 6.02 | 199 | 0.807 | 0.807 | 0.69 | 1.538 | 0.454 | 953.84 | 3.876 | 2.347E+05 | 2.347E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.23 | 0.00 | | |
| 59.38 | 123.43 | 3.8668 | 36.04 | 1.81 | 5.02% | 5.626 | 0.92 | 13.83 | 3.03 | 7.07 | 233 | 1.259 | 1.259 | 0.69 | 1.541 | 0.454 | 932.78 | 3.833 | 2.270E+05 | 2.270E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.23 | 0.00 | | |
| 59.42 | 122.20 | 3.8692 | 29.10 | 1.64 | 5.64% | 6.500 | 0.96 | 10.84 | 3.16 | 8.71 | 287 | 2.285 | 2.285 | 0.69 | 1.542 | 0.454 | 916.10 | 3.795 | 2.211E+05 | 2.211E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.23 | 0.00 | | |
| 59.49 | 120.64 | 3.8735 | 29.69 | 1.32 | 4.45% | 5.113 | 0.93 | 11.08 | 3.08 | 7.68 | 253 | 1.594 | 1.594 | 0.69 | 1.544 | 0.453 | 879.38 | 3.747 | 2.064E+05 | 2.064E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.23 | 0.00 | | |
| 59.56 | 118.92 | 3.8776 | 30.37 | 1.03 | 3.39% | 3.888 | 0.91 | 11.36 | 2.99 | 6.64 | 219 | 1.060 | 1.060 | 0.69 | 1.546 | 0.453 | 837.41 | 3.693 | 1.899E+05 | 1.899E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.23 | 0.00 | | |
| 59.64 | 116.03 | 3.8823 | 32.33 | 0.68 | 2.10% | 2.390 | 0.86 | 12.19 | 2.83 | 5.03 | 166 | 0.506 | 0.506 | 0.69 | 1.549 | 0.453 | 767.17 | 3.603 | 1.633E+05 | 1.633E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.23 | 0.00 | | |
| 59.69 | 115.69 | 3.8852 | 35.35 | 0.63 | 1.78% | 2.002 | 0.83 | 13.48 | 2.74 | 4.31 | 142 | 0.348 | 0.348 | 0.69 | 1.550 | 0.453 | 754.26 | 3.593 | 1.583E+05 | 1.583E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.23 | 0.00 | | |
| 59.77 | 118.31 | 3.8899 | 44.34 | 0.83 | 1.87% | 2.052 | 0.80 | 17.31 | 2.65 | 3.65 | 120 | 0.242 | 0.242 | 0.69 | 1.553 | 0.452 | 800.89 | 3.674 | 1.746E+05 | 1.746E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.23 | 0.00 | | |
| 59.82 | 120.50 | 3.8929 | 51.97 | 1.07 | 2.06% | 2.226 | 0.79 | 20.56 | 2.61 | 3.37 | 111 | 0.208 | 0.208 | 0.69 | 1.554 | 0.452 | 843.86 | 3.742 | 1.903E+05 | 1.903E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.23 | 0.00 | | |
| 59.89 | 122.56 | 3.8972 | 59.30 | 1.35 | 2.28% | 2.437 | 0.78 | 23.67 | 2.58 | 3.21 | 106 | 0.190 | 0.225 | 0.69 | 1.557 | 0.452 | 883.18 | 3.806 | 2.049E+05 | 2.049E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 0.50 | 0.69 | <= | 2.20 | 0.019 | 0.00 | 1.23 | 0.00 | 59.82 | 59.89 |
| 59.96 | 124.47 | 3.9016 | 65.06 | 1.70 | 2.61% | 2.780 | 0.78 | 26.10 | 2.58 | 3.23 | 107 | 0.193 | 0.220 | 0.69 | 1.559 | 0.452 | 922.18 | 3.866 | 2.200E+05 | 2.200E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 0.49 | 0.68 | <= | 2.19 | 0.018 | 0.00 | 1.21 | 0.00 | 59.89 | 59.96 |
| 60.02 | 125.36 | 3.9053 | 73.17 | 1.85 | 2.53% | 2.671 | 0.77 | 29.54 | 2.53 | 2.91 | 104 | 0.184 | 0.198 | 0.69 | 1.561 | 0.451 | 936.48 | 3.893 | 2.253E+05 | 2.253E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 0.44 | 0.61 | <= | 2.24 | 0.015 | 0.00 | 1.19 | 0.00 | 59.96 | 60.02 |
| 60.09 | 125.82 | 3.9097 | 83.14 | 1.89 | 2.27% | 2.385 | 0.74 | 33.76 | 2.44 | 2.50 | 104 | 0.186 | 0.189 | 0.69 | 1.563 | 0.451 | 940.10 | 3.907 | 2.262E+05 | 2.262E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 0.42 | 0.58 | <= | 2.23 | 0.018 | 0.00 | 1.17 | 0.00 | 60.02 | 60.09 |
| 60.15 | 126.22 | 3.9135 | 105.22 | 1.85 | 1.76% | 1.826 | 0.69 | 43.13 | 2.27 | 1.87 | 104 | 0.184 | 0.158 | 0.69 | 1.565 | 0.451 | 936.48 | 3.920 | 2.237E+05 | 2.237E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 0.36 | 0.49 | <= | 2.24 | 0.015 | 0.00 | 1.16 | 0.00 | 60.09 | 60.15 |
| 60.22 | 126.37 | 3.9179 | 119.59 | 1.81 | 1.51% | 1.565 | 0.66 | 49.20 | 2.18 | 1.62 | 105 | 0.187 | 0.266 | 0.69 | 1.567 | 0.450 | 932.78 | 3.925 | 2.217E+05 | 2.217E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 0.60 | 0.82 | <= | 1.60 | 0.013 | 0.00 | 1.14 | 0.00 | 60.15 | 60.22 |
| 60.28 | 126.56 | 3.9217 | 129.85 | 1.81 | 1.39% | 1.437 | 0.64 | 53.52 | 2.12 | 1.50 | 107 | 0.194 | 0.246 | 0.69 | 1.569 | 0.450 | 932.78 | 3.930 | 2.214E+05 | 2.214E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 0.55 | 0.76 | <= | 2.18 | 0.015 | 0.00 | 1.13 | 0.00 | 60.22 | 60.28 |
| 60.35 | 127.08 | 3.9262 | 139.42 | 1.90 | 1.36% | 1.402 | 0.63 | 57.53 | 2.09 | 1.44 | 111 | 0.208 | 0.229 | 0.69 | 1.571 | 0.450 | 940.99 | 3.947 | 2.244E+05 | 2.244E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 0.51 | 0.71 | <= | 2.12 | 0.016 | 0.00 | 1.11 | 0.00 | 60.28 | 60.35 |
| 60.41 | 127.57 | 3.9300 | 148.22 | 1.99 | 1.34% | 1.379 | 0.63 | 61.21 | 2.06 | 1.39 | 116 | 0.223 | 0.223 | 0.68 | 1.573 | 0.450 | 948.82 | 3.962 | 2.272E+05 | 2.272E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 0.50 | 0.69 | <= | 2.05 | 0.012 | 0.00 | 1.10 | 0.00 | 60.35 | 60.41 |
| 60.48 | 127.96 | 3.9345 | 153.20 | 2.07 | 1.35% | 1.387 | 0.62 | 63.26 | 2.05 | 1.37 | 118 | 0.234 | 0.234 | 0.68 | 1.575 | 0.449 | 955.49 | 3.974 | 2.297E+05 | 2.297E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 0.53 | 0.72 | <= | 1.70 | 0.009 | 0.00 | 1.09 | 0.00 | 60.41 | 60.48 |
| 60.55 | 128.32 | 3.9390 | 158.38 | 2.15 | 1.36% | 1.392 | 0.62 | 65.39 | 2.04 | 1.36 | 121 | 0.246 | 0.246 | 0.68 | 1.577 | 0.449 | 961.90 | 3.985 | 2.322E+05 | 2.322E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 0.55 | 0.76 | <= | 1.81 | 0.010 | 0.00 | 1.08 | 0.00 | 60.48 | 60.55 |
| 60.64 | 128.70 | 3.9448 | 162.39 | 2.25 | 1.39% | 1.420 | 0.62 | 67.00 | 2.04 | 1.35 | 124 | 0.257 | 0.257 | 0.68 | 1.580 | 0.449 | 969.59 | 3.997 | 2.352E+05 | 2.352E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 0.58 | 0.80 | <= | 1.93 | 0.014 | 0.00 | 1.07 | 0.00 | 60.55 | 60.64 |
| 60.68 | 128.81 | 3.9473 | 162.48 | 2.28 | 1.40% | 1.438 | 0.62 | 67.00 | 2.04 | 1.36 | 124 | 0.259 | 0.259 | 0.68 | 1.581 | 0.448 | 971.83 | 4.000 | 2.361E+05 | 2.361E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 0.58 | 0.80 | <= | 1.13 | 0.003 | 0.00 | 1.05 | 0.00 | 60.64 | 60.68 |
| 60.74 | 128.82 | 3.9512 | 158.67 | 2.31 | 1.46% | 1.493 | 0.63 | 65.33 | 2.06 | 1.39 | 124 | 0.256 | 0.256 | 0.68 | 1.583 | 0.448 | 974.04 | 4.001 | 2.372E+05 | 2.372E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 0.58 | 0.79 | <= | 1.92 | 0.009 | 0.00 | 1.05 | 0.00 | 60.68 | 60.74 |
| 60.82 | 128.59 | 3.9563 | 153.10 | 2.26 | 1.48% | 1.515 | 0.63 | 62.91 | 2.08 | 1.42 | 121 | 0.245 | 0.245 | 0.68 | 1.586 | 0.448 | 970.34 | 3.993 | 2.358E+05 | 2.358E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 0.55 | 0.76 | <= | 1.81 | 0.011 | 0.00 | 1.04 | 0.00 | 60.74 | 60.82 |
| 60.90 | 128.07 | 3.9615 | 144.89 | 2.14 | 1.48% | 1.519 | 0.64 | 59.38 | 2.10 | 1.46 | 117 | 0.228 | 0.228 | 0.68 | 1.588 | 0.448 | 961.11 | 3.977 | 2.323E+05 | 2.323E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 0.51 | 0.71 | <= | 2.04 | 0.017 | 0.00 | 1.03 | 0.00 | 60.82 | 60.90 |
| 60.94 | 127.74 | 3.9640 | 139.03 | 2.08 | 1.50% | 1.540 | 0.64 | 56.88 | 2.12 | 1.50 | 114 | 0.218 | 0.223 | 0.68 | 1.589 | 0.447 | 956.30 | 3.967 | 2.305E+05 | 2.305E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 0.50 | 0.69 | <= | 2.07 | 0.008 | 0.00 | 1.01 | 0.00 | 60.90 | 60.94 |
| 61.01 | 127.29 | 3.9685 | 131.12 | 1.99 | 1.52% | 1.565 | 0.65 | 53.49 | 2.15 | 1.55 | 110 | 0.205 | 0.247 | 0.68 | 1.592 | 0.447 | 948.82 | 3.953 | 2.277E+05 | 2.277E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 0.56 | 0.77 | <= | 2.13 | 0.016 | 0.00 | 1.00 | 0.00 | 60.94 | 61.01 |
| 61.08 | 127.08 | 3.9729 | 122.81 | 1.98 | 1.61% | 1.666 | 0.67 | 49.95 | 2.19 | 1.65 | 109 | 0.199 | 0.271 | 0.68 | 1.594 | 0.447 | 947.97 | 3.947 | 2.277E+05 | 2.277E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 0.61 | 0.84 | <= | 1.71 | 0.014 | 0.00 | 0.99 | 0.00 | 61.01 | 61.08 |
| 61.14 | 126.92 | 3.9767 | 115.48 | 1.98 | 1.71% | 1.776 | 0.68 | 46.83 | 2.23 | 1.76 | 107 | 0.195 | 0.155 | 0.68 | 1.596 | 0.447 | 947.97 | 3.942 | 2.280E+05 | 2.280E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 0.35 | 0.48 | <= | 2.18 | 0.015 | 0.00 | 0.97 | 0.00 | 61.08 | 61.14 |
| 61.22 | 126.80 | 3.9818 | 109.91 | 1.98 | 1.80% | 1.869 | 0.69 | 44.44 | 2.27 | 1.85 | 107 | 0.193 | 0.161 | 0.68 | 1.598 | 0.446 | 947.97 | 3.938 | 2.282E+05 | 2.282E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 0.36 | 0.50 | <= | 2.19 | 0.020 | 0.00 | 0.96 | 0.00 | 61.14 | 61.22 |
| 61.26 | 126.68 | 3.9843 | 106.10 | 1.97 | 1.86% | 1.929 | 0.70 | 42.82 | 2.29 | 1.92 | 106 | 0.191 | 0.166 | 0.68 | 1.599 | 0.446 | 947.11 | 3.934 | 2.280E+05 | 2.280E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 0.38 | 0.52 | <= | 2.20 | 0.010 | 0.00 | 0.94 | 0.00 | 61.22 | 61.26 |
| 61.35 | 126.72 | 3.9900 | 100.34 | 2.02 | 2.01% | 2.097 | 0.71 | 40.35 | 2.34 | 2.08 | 107 | 0.194 | 0.169 | 0.68 | 1.602 | 0.446 | 951.35 | 3.935 | 2.300E+05 | 2.300E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 0.38 | 0.53 | <= | 2.19 | 0.022 | 0.00 | 0.93 | 0.00 | 61.26 | 61.35 |
| 61.39 | 126.86 | 3.9926 | 98.19 | 2.07 | 2.11% | 2.198 | 0.72 | 39.43 | 2.36 | 2.16 | 108 | 0.197 | 0.179 | 0.68 | 1.603 | 0.445 | 955.49 | 3.940 | 2.317E+05 | 2.317E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 0.41 | 0.56 | <= | 2.17 | 0.010 | 0.00 | 0.91 | 0.00 | 61.35 | 61.39 |
| 61.47 | 127.02 | 3.9977 | 94.96 | 2.14 | 2.25% | 2.353 | 0.73 | 38.03 | 2.40 | 2.30 | 110 | 0.203 | 0.184 | 0.68 | 1.606 | 0.445 | 961.11 | 3.945 | 2.342E+05 | 2.342E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.42 | 0.57 | <= | 2.14 | 0.019 | 0.00 | 0.90 | 0.00 | 61.39 | 61.47 |
| 61.53 | 127.21 | 4.0015 | 97.84 | 2.17 | 2.22% | 2.312 | 0.72 | 39.20 | 2.38 | 2.23 | 110 | 0.205 | 0.186 | 0.68 | 1.608 | 0.445 | 963.47 | 3.951 | 2.350E+05 | 2.350E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.42 | 0.58 | <= | 2.13 | 0.014 | 0.00 | 0.88 | 0.00 | 61.47 | 61.53 |
| 61.59 | 127.03 | 4.0053 | 91.05 | 2.17 | 2.38% | 2.493 | 0.74 | 36.33 | 2.43 | 2.44 | 110 | 0.205 | 0.193 | 0.68 | 1.610 | 0.445 | 963.47 | 3.945 | 2.353E+05 | 2.353E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.44 | 0.60 | <= | 2.13 | 0.014 | 0.00 | 0.87 | 0.00 | 61.53 | 61.59 |
| 61.66 | 127.11 | 4.0097 | 97.50 | 2.14 | 2.19% | 2.289 | 0.72 | 38.99 | 2.38 | 2.23 | 110 | 0.202 | 0.184 | 0.67 | 1.612 | 0.444 | 961.11 | 3.948 | 2.340E+05 | 2.340E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.42 | 0.58 | <= | 2.14 | 0.017 | 0.00 | 0.85 | 0.00 | 61.59 | 61.66 |
| 61.72 | 127.12 | 4.0136 | 102.09 | 2.12 | 2.08% | 2.162 | 0.71 | 40.87 | 2.34 | 2.10 | 109 | 0.201 | 0.176 | 0.67 | 1.614 | 0.444 | 959.52 | 3.948 | 2.332E+05 | 2.332E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | | 0.40 | 0.55 | <= | 2.15 | 0.014 | 0.00 | 0.83 | 0.00 | 61.66 | 61.72 |
| 61.79 | 127.10 | 4.0180 | 106.00 | 2.08 | 1.96% | 2.040 | 0.70 | 42.45 | 2.31 | 1.99 | 108 | 0.198 | 0.167 | 0.67 | 1.616 | 0.444 | 956.30 | 3.947 | 2.317E+05 | 2.317E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | | 0.38 | 0.52 | <= | 2.16 | 0.017 | 0.00 | 0.82 | 0.00 | 61.72 | 61.79 |
| 61.86 | 127.02 | 4.0224 | 109.91 | 2.04 | 1.86% | 1.927 | 0.69 | 44.04 | 2.28 | 1.89 | 108 | 0.196 | 0.158 | 0.67 | 1.618 | 0.443 | 953.02 | 3.945 | 2.302E+05 | 2.302E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | | 0.36 | 0.49 | <= | 2.17 | 0.017 | 0.00 | 0.80 | 0.00 | 61.79 | 61.86 |
| 61.93 | 126.87 | 4.0269 | 112.16 | 1.98 | 1.77% | 1.831 | 0.69 | 44.93 | 2.26 | 1.82 | 107 | 0.192 | 0.155 | 0.67 | 1.620 | 0.443 | 947.97 | 3.940 | 2.281E+05 | 2.281E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | | 0.35 | 0.49 | <= | 2.19 | 0.017 | 0.00 | 0.79 | 0.00 | 61.86 | 61.93 |
| 61.99 | 126.78 | 4.0307 | 113.82 | 1.95 | 1.71% | 1.776 | 0.68 | 45.58 | 2.24 | 1.78 | 106 | 0.191 | 0.154 | 0.67 | 1.622 | 0.443 | 945.38 | 3.937 | 2.270E+05 | 2.270E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | | 0.35 | 0.48 | <= | 2.20 | 0.015 | 0.00 | 0.77 | 0.00 | 61.93 | 61.99 |
| 62.05 | 126.64 | 4.0345 | 114.41 | 1.91 | 1.67% | 1.730 | 0.68 | 45.79 | 2.23 | 1.75 | 105 | 0.188 | 0.152 | 0.67 | 1.624 | 0.443 | 941.88 | 3.933 | 2.256E+05 | 2.256E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | | 0.35 | 0.48 | <= | 2.21 | 0.015 | 0.00 | 0.75 | 0.00 | 61.99 | 62.05 |
| 62.13 | 126.42 | 4.0395 | 114.02 | 1.85 | 1.62% | 1.682 | 0.68 | 45.58 | 2.23 | 1.73 | 104 | 0.184 | 0.148 | 0.67 | 1.626 | 0.442 | 936.48 | 3.926 | 2.234E+05 | 2.234E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | | 0.34 | 0.47 | <= | 2.24 | 0.020 | 0.00 | 0.74 | 0.00 | 62.05 | 62.13 |
| 62.20 | 126.39 | 4.0440 | 111.77 | 1.86 | 1.66% | 1.727 | 0.68 | 44.60 | 2.24 | 1.78 | 104 | 0.184 | 0.155 | 0.67 | 1.629 | 0.442 | 937.39 | 3.925 | 2.239E+05 | 2.239E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 0.35 | 0.49 | <= | 2.24 | 0.017 | 0.00 | 0.72 | 0.00 | 62.13 | 62.20 |
| 62.27 | 126.09 | 4.0484 | 105.22 | 1.82 | 1.73% | 1.799 | 0.69 | 41.85 | 2.28 | 1.88 | 102 | 0.179 | 0.157 | 0.67 | 1.631 | 0.442 | 933.71 | 3.916 | 2.226E+05 | 2.226E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 0.36 | 0.50 | <= | 2.27 | 0.018 | 0.00 | 0.70 | 0.00 | 62.20 | 62.27 |
| 62.33 | 125.95 | 4.0522 | 97.70 | 1.83 | 1.87% | 1.954 | 0.71 | 38.71 | 2.33 | 2.05 | 102 | 0.178 | 0.168 | 0.67 | 1.633 | 0.441 | 934.64 | 3.911 | 2.233E+05 | 2.233E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 0.39 | 0.53 | <= | 2.28 | 0.015 | 0.00 | 0.69 | 0.00 | 62.27 | 62.33 |
| 62.39 | 125.88 | 4.0559 | 85.09 | 1.90 | 2.23% | 2.345 | 0.74 | 33.47 | 2.44 | 2.48 | 103 | 0.183 | 0.184 | 0.67 | 1.635 | 0.441 | 940.99 | 3.909 | 2.265E+05 | 2.265E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 0.42 | 0.58 | <= | 2.24 | 0.015 | 0.00 | 0.67 | 0.00 | 62.33 | 62.39 |
| 62.44 | 125.58 | 4.0591 | 72.78 | 1.92 | 2.64% | 2.794 | 0.77 | 28.36 | 2.55 | 3.05 | 105 | 0.187 | 0.203 | 0.67 | 1.636 | 0.441 | 942.76 | 3.900 | 2.279E+05 | 2.279E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 0.46 | 0.64 | <= | 2.22 | 0.012 | 0.00 | 0.66 | 0.00 | 62.39 | 62.44 |
| 62.51 | 125.19 | 4.0635 | 61.84 | 1.92 | 3.10% | 3.323 | 0.81 | 23.82 | 2.67 | 3.78 | 125 | 0.260 | 0.260 | 0.67 | 1.638 | 0.441 | 942.76 | 3.888 | 2.286E+05 | 2.286E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.64 | 0.00 | | |
| 62.59 | 124.74 | 4.0684 | 49.23 | 1.95 | 3.96% | 4.318 | 0.86 | 18.60 | 2.84 | 5.12 | 169 | 0.530 | 0.530 | 0.67 | 1.641 | 0.440 | 945.38 | 3.874 | 2.307E+05 | 2.307E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.64 | 0.00 | | |
| 62.64 | 124.64 | 4.0716 | 43.17 | 2.01 | 4.66% | 5.141 | 0.89 | 16.10 | 2.94 | 6.15 | 203 | 0.858 | 0.858 | 0.67 | 1.642 | 0.440 | 950.51 | 3.871 | 2.334E+05 | 2.334E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.64 | 0.00 | | |
| 62.72 | 123.92 | 4.0765 | 36.14 | 1.93 | 5.34% | 6.019 | 0.93 | 13.19 | 3.07 | 7.50 | 247 | 1.489 | 1.489 | 0.67 | 1.645 | 0.440 | 943.64 | 3.848 | 2.314E+05 | 2.314E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.64 | 0.00 | | |
| 62.77 | 123.69 | 4.0796 | 34.48 | 1.90 | 5.51% | 6.250 | 0.94 | 12.49 | 3.10 | 7.88 | 260 | 1.714 | 1.714 | 0.67 | 1.646 | 0.440 | 940.99 | 3.841 | 2.305E+05 | 2.305E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.64 | 0.00 | | |
| 62.86 | 124.10 | 4.0852 | 33.99 | 2.02 | 5.94% | 6.755 | 0.95 | 12.28 | 3.13 | 8.26 | 273 | 1.966 | 1.966 | 0.66 | 1.649 | 0.439 | 951.35 | 3.854 | 2.348E+05 | 2.348E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.64 | 0.00 | | |
| 62.91 | 124.41 | 4.0883 | 35.45 | 2.08 | 5.87% | 6.632 | 0.94 | 12.87 | 3.10 | 7.98 | 263 | 1.776 | 1.776 | 0.66 | 1.651 | 0.439 | 956.30 | 3.864 | 2.367E+05 | 2.367E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.64 | 0.00 | | |
| 63.00 | 125.78 | 4.0940 | 50.60 | 2.23 | 4.41% | 4.795 | 0.87 | 19.06 | 2.86 | 5.34 | 176 | 0.590 | 0.590 | 0.66 | 1.654 | 0.439 | 968.08 | 3.906 | 2.399E+05 | 2.399E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.64 | 0.00 | | |
| 63.04 | 126.46 | 4.0965 | 62.91 | 2.27 | 3.61% | 3.860 | 0.82 | 24.09 | 2.71 | 4.08 | 135 | 0.307 | 0.307 | 0.66 | 1.655 | 0.438 | 971.09 | 3.927 | 2.401E+05 | 2.401E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.64 | 0.00 | | |
| 63.13 | 126.83 | 4.1022 | 83.72 | 2.17 | 2.59% | 2.726 | 0.76 | 32.57 | 2.50 | 2.74 | 110 | 0.204 | 0.206 | 0.66 | 1.658 | 0.438 | 963.47 | 3.939 | 2.357E+05 | 2.357E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.48 | 0.65 | <= | 2.14 | 0.021 | 0.00 | 0.64 | 0.00 | 63.04 | 63.13 |
| 63.17 | 126.60 | 4.1047 | 90.47 | 2.05 | 2.27% | 2.374 | 0.73 | 35.31 | 2.42 | 2.41 | 107 | 0.193 | 0.184 | 0.66 | 1.659 | 0.438 | 953.84 | 3.932 | 2.314E+05 | 2.314E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.42 | 0.58 | <= | 2.19 | 0.010 | 0.00 | 0.62 | 0.00 | 63.13 | 63.17 |
| 63.27 | 125.55 | 4.1110 | 100.24 | 1.72 | 1.72% | 1.789 | 0.70 | 39.25 | 2.30 | 1.94 | 99 | 0.170 | 0.156 | 0.66 | 1.662 | 0.437 | 924.15 | 3.899 | 2.190E+05 | 2.190E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.36 | 0.50 | <= | 2.33 | 0.026 | 0.00 | 0.61 | 0.00 | 63.17 | 63.27 |
| 63.31 | 125.54 | 4.1135 | 103.66 | 1.70 | 1.64% | 1.708 | 0.69 | 40.63 | 2.27 | 1.86 | 99 | 0.169 | 0.156 | 0.66 | 1.663 | 0.437 | 922.18 | 3.899 | 2.181E+05 | 2.181E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.36 | 0.50 | <= | 2.33 | 0.010 | 0.00 | 0.59 | 0.00 | 63.27 | 63.31 |
| 63.37 | 125.51 | 4.1173 | 109.33 | 1.66 | 1.52% | 1.578 | 0.68 | 42.91 | 2.23 | 1.73 | 98 | 0.168 | 0.150 | 0.66 | 1.665 | 0.437 | 918.15 | 3.898 | 2.163E+05 | 2.163E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.35 | 0.48 | <= | 2.34 | 0.015 | 0.00 | 0.58 | 0.00 | 63.31 | 63.37 |
| 63.44 | 125.38 | 4.1217 | 113.33 | 1.61 | 1.42% | 1.474 | 0.67 | 44.50 | 2.19 | 1.65 | 98 | 0.167 | 0.259 | 0.66 | 1.667 | 0.437 | 912.97 | 3.894 | 2.141E+05 | 2.141E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.60 | 0.83 | <= | 1.79 | 0.015 | 0.00 | 0.56 | 0.00 | 63.37 | 63.44 |
| 63.53 | 125.22 | 4.1273 | 114.50 | 1.57 | 1.37% | 1.422 | 0.66 | 44.92 | 2.18 | 1.62 | 97 | 0.165 | 0.257 | 0.66 | 1.670 | 0.436 | 908.72 | 3.889 | 2.123E+05 | 2.123E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.59 | 0.82 | <= | 1.75 | 0.019 | 0.00 | 0.55 | 0.00 | 63.44 | 63.53 |
| 63.56 | 125.18 | 4.1292 | 114.41 | 1.56 | 1.36% | 1.415 | 0.66 | 44.86 | 2.18 | 1.61 | 97 | 0.164 | 0.256 | 0.66 | 1.671 | 0.436 | 907.64 | 3.888 | 2.119E+05 | 2.119E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.59 | 0.82 | <= | 1.73 | 0.006 | 0.00 | 0.53 | 0.00 | 63.53 | 63.56 |
| 63.62 | 125.12 | 4.1329 | 113.72 | 1.55 | 1.36% | 1.414 | 0.66 | 44.55 | 2.18 | 1.62 | 96 | 0.163 | 0.254 | 0.66 | 1.673 | 0.436 | 906.55 | 3.886 | 2.115E+05 | 2.115E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.59 | 0.81 | <= | 1.71 | 0.012 | 0.00 | 0.52 | 0.00 | 63.56 | 63.62 |
| 63.71 | 124.88 | 4.1386 | 112.06 | 1.51 | 1.35% | 1.399 | 0.66 | 43.82 | 2.18 | 1.62 | 95 | 0.160 | 0.261 | 0.66 | 1.676 | 0.436 | 902.13 | 3.878 | 2.098E+05 | 2.098E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.61 | 0.83 | <= | 1.90 | 0.021 | 0.00 | 0.51 | 0.00 | 63.62 | 63.71 |
| 63.76 | 124.63 | 4.1417 | 111.28 | 1.46 | 1.31% | 1.363 | 0.66 | 43.47 | 2.18 | 1.61 | 94 | 0.157 | 0.256 | 0.66 | 1.677 | 0.435 | 896.43 | 3.870 | 2.076E+05 | 2.076E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.59 | 0.82 | <= | 1.82 | 0.011 | 0.00 | 0.49 | 0.00 | 63.71 | 63.76 |
| 63.83 | 124.45 | 4.1460 | 110.79 | 1.43 | 1.29% | 1.341 | 0.66 | 43.24 | 2.17 | 1.61 | 93 | 0.155 | 0.264 | 0.66 | 1.679 | 0.435 | 892.92 | 3.865 | 2.063E+05 | 2.063E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.61 | 0.84 | <= | 2.03 | 0.017 | 0.00 | 0.48 | 0.00 | 63.76 | 63.83 |
| 63.89 | 124.47 | 4.1498 | 110.79 | 1.43 | 1.29% | 1.341 | 0.66 | 43.20 | 2.17 | 1.61 | 93 | 0.155 | 0.253 | 0.66 | 1.681 | 0.435 | 892.92 | 3.866 | 2.063E+05 | 2.063E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.59 | 0.81 | <= | 1.78 | 0.013 | 0.00 | 0.46 | 0.00 | 63.83 | 63.89 |
| 63.95 | 124.50 | 4.1535 | 110.60 | 1.44 | 1.30% | 1.353 | 0.66 | 43.09 | 2.18 | 1.61 | 93 | 0.155 | 0.254 | 0.66 | 1.683 | 0.434 | 894.10 | 3.866 | 2.068E+05 | 2.068E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.59 | 0.81 | <= | 1.80 | 0.013 | 0.00 | 0.45 | 0.00 | 63.89 | 63.95 |
| 64.02 | 124.74 | 4.1579 | 109.52 | 1.49 | 1.36% | 1.414 | 0.67 | 42.61 | 2.20 | 1.66 | 94 | 0.158 | 0.258 | 0.66 | 1.685 | 0.434 | 899.87 | 3.874 | 2.090E+05 | 2.090E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.60 | 0.82 | <= | 1.87 | 0.016 | 0.00 | 0.43 | 0.00 | 63.95 | 64.02 |
| 64.11 | 125.50 | 4.1635 | 105.81 | 1.68 | 1.59% | 1.653 | 0.68 | 41.06 | 2.26 | 1.81 | 98 | 0.167 | 0.150 | 0.65 | 1.688 | 0.434 | 920.17 | 3.898 | 2.172E+05 | 2.172E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.35 | 0.48 | <= | 2.35 | 0.023 | 0.00 | 0.42 | 0.00 | 64.02 | 64.11 |
| 64.16 | 125.92 | 4.1667 | 102.78 | 1.79 | 1.74% | 1.815 | 0.70 | 39.81 | 2.30 | 1.93 | 100 | 0.174 | 0.156 | 0.65 | 1.690 | 0.434 | 930.90 | 3.911 | 2.216E+05 | 2.216E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.36 | 0.50 | <= | 2.30 | 0.013 | 0.00 | 0.40 | 0.00 | 64.11 | 64.16 |
| 64.22 | 126.31 | 4.1705 | 89.10 | 1.98 | 2.22% | 2.331 | 0.74 | 34.26 | 2.43 | 2.43 | 105 | 0.186 | 0.184 | 0.65 | 1.692 | 0.433 | 947.97 | 3.923 | 2.291E+05 | 2.291E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.43 | 0.59 | <= | 2.23 | 0.015 | 0.00 | 0.38 | 0.00 | 64.16 | 64.22 |
| 64.29 | 127.04 | 4.1749 | 94.77 | 2.15 | 2.27% | 2.373 | 0.73 | 36.51 | 2.41 | 2.35 | 109 | 0.199 | 0.185 | 0.65 | 1.694 | 0.433 | 961.90 | 3.945 | 2.345E+05 | 2.345E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.43 | 0.59 | <= | 2.16 | 0.016 | 0.00 | 0.37 | 0.00 | 64.22 | 64.29 |
| 64.36 | 127.42 | 4.1794 | 92.13 | 2.28 | 2.47% | 2.592 | 0.74 | 35.42 | 2.45 | 2.52 | 112 | 0.210 | 0.195 | 0.65 | 1.696 | 0.433 | 971.83 | 3.957 | 2.387E+05 | 2.387E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.46 | 0.63 | <= | 2.11 | 0.016 | 0.00 | 0.35 | 0.00 | 64.29 | 64.36 |
| 64.42 | 127.89 | 4.1832 | 93.98 | 2.42 | 2.58% | 2.695 | 0.74 | 36.13 | 2.45 | 2.54 | 115 | 0.221 | 0.199 | 0.65 | 1.698 | 0.432 | 981.91 | 3.972 | 2.428E+05 | 2.428E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.46 | 0.64 | <= | 2.06 | 0.013 | 0.00 | 0.34 | 0.00 | 64.36 | 64.42 |
| 64.50 | 128.50 | 4.1883 | 99.55 | 2.58 | 2.59% | 2.705 | 0.74 | 38.33 | 2.43 | 2.46 | 118 | 0.234 | 0.203 | 0.65 | 1.700 | 0.432 | 992.74 | 3.991 | 2.470E+05 | 2.470E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.47 | 0.65 | <= | 2.01 | 0.011 | 0.00 | 0.32 | 0.00 | 64.42 | 64.50 |
| 64.55 | 128.90 | 4.1916 | 105.51 | 2.67 | 2.53% | 2.635 | 0.73 | 40.70 | 2.40 | 2.33 | 120 | 0.241 | 0.191 | 0.65 | 1.702 | 0.432 | 998.54 | 4.003 | 2.491E+05 | 2.491E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.45 | 0.62 | <= | 1.99 | 0.009 | 0.00 | 0.31 | 0.00 | 64.50 | 64.55 |
| 64.61 | 129.45 | 4.1954 | 114.21 | 2.80 | 2.45% | 2.545 | 0.72 | 44.15 | 2.37 | 2.18 | 123 | 0.253 | 0.180 | 0.65 | 1.704 | 0.432 | 1006.59 | 4.020 | 2.520E+05 | 2.520E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.42 | 0.58 | <= | 1.95 | 0.005 | 0.00 | 0.30 | 0.00 | 64.55 | 64.61 |
| 64.68 | 129.80 | 4.2000 | 122.62 | 2.87 | 2.34% | 2.424 | 0.71 | 47.48 | 2.32 | 2.03 | 125 | 0.260 | 0.161 | 0.65 | 1.706 | 0.431 | 1010.76 | 4.031 | 2.534E+05 | 2.534E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.38 | 0.52 | <= | 1.93 | 0.006 | 0.00 | 0.30 | 0.00 | 64.61 | 64.68 |
| 64.75 | 129.88 | 4.2045 | 135.03 | 2.81 | 2.08% | 2.148 | 0.68 | 52.41 | 2.25 | 1.80 | 125 | 0.260 | 0.260 | 0.65 | 1.708 | 0.431 | 1007.19 | 4.034 | 2.515E+05 | 2.515E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.61 | 0.84 | <= | 1.42 | 0.007 | 0.00 | 0.29 | 0.00 | 64.68 | 64.75 |
| 64.81 | 129.57 | 4.2084 | 144.80 | 2.63 | 1.82% | 1.871 | 0.66 | 56.27 | 2.18 | 1.62 | 123 | 0.252 | 0.252 | 0.65 | 1.710 | 0.431 | 995.99 | 4.024 | 2.465E+05 | 2.465E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.59 | 0.81 | <= | 1.25 | 0.005 | 0.00 | 0.28 | 0.00 | 64.75 | 64.81 |
| 64.91 | 128.64 | 4.2149 | 168.15 | 2.21 | 1.31% | 1.348 | 0.61 | 65.53 | 2.02 | 1.33 | 122 | 0.250 | 0.250 | 0.65 | 1.713 | 0.430 | 966.56 | 3.995 | 2.338E+05 | 2.338E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.59 | 0.81 | <= | 1.18 | 0.010 | 0.00 | 0.28 | 0.00 | 64.81 | 64.91 |
| 64.94 | 128.40 | 4.2168 | 178.80 | 2.09 | 1.17% | 1.197 | 0.60 | 69.76 | 1.96 | 1.25 | 125 | 0.260 | 0.260 | 0.65 | 1.714 | 0.430 | 957.11 | 3.988 | 2.297E+05 | 2.297E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.61 | 0.84 | <= | 1.26 | 0.002 | 0.00 | 0.27 | 0.00 | 64.91 | 64.94 |
| 65.01 | 127.87 | 4.2213 | 199.03 | 1.88 | 0.94% | 0.965 | 0.57 | 77.77 | 1.86 | 1.15 | 131 | 0.290 | 0.290 | 0.65 | 1.716 | 0.430 | 939.20 | 3.971 | 2.221E+05 | 2.221E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.68 | 0.94 | <= | 0.82 | 0.003 | 0.00 | 0.27 | 0.00 | 64.94 | 65.01 |
| 65.09 | 127.70 | 4.2264 | 214.08 | 1.79 | 0.84% | 0.853 | 0.55 | 83.69 | 1.79 | 1.10 | 137 | 0.321 | 0.321 | 0.65 | 1.719 | 0.429 | 930.90 | 3.966 | 2.185E+05 | 2.185E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.76 | 1.04 | <= | 0.53 | 0.000 | 0.00 | 0.26 | 0.00 | 65.01 | 65.09 |
| 65.15 | 127.91 | 4.2302 | 226.19 | 1.81 | 0.80% | 0.815 | 0.54 | 88.45 | 1.76 | 1.08 | 143 | 0.354 | 0.354 | 0.65 | 1.721 | 0.429 | 932.78 | 3.972 | 2.190E+05 | 2.190E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.83 | 1.15 | <= | 0.37 | 0.000 | 0.00 | 0.26 | 0.00 | 65.09 | 65.15 |
| 65.22 | 128.17 | 4.2347 | 229.42 | 1.86 | 0.81% | 0.826 | 0.54 | 89.65 | 1.76 | 1.08 | 145 | 0.366 | 0.366 | 0.65 | 1.723 | 0.429 | 937.39 | 3.980 | 2.208E+05 | 2.208E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.86 | 1.19 | <= | 0.41 | 0.000 | 0.00 | 0.26 | 0.00 | 65.15 | 65.22 |
| 65.27 | 128.33 | 4.2379 | 229.91 | 1.91 | 0.83% | 0.846 | 0.54 | 89.79 | 1.76 | 1.08 | 146 | 0.370 | 0.370 | 0.65 | 1.724 | 0.429 | 941.88 | 3.985 | 2.226E+05 | 2.226E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.87 | 1.20 | <= | 0.43 | 0.000 | 0.00 | 0.26 | 0.00 | 65.22 | 65.27 |
| 65.34 | 128.55 | 4.2424 | 227.46 | 1.97 | 0.87% | 0.883 | 0.54 | 88.73 | 1.78 | 1.09 | 145 | 0.365 | 0.365 | 0.64 | 1.727 | 0.428 | 947.11 | 3.992 | 2.247E+05 | 2.247E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.86 | 1.19 | <= | 0.41 | 0.000 | 0.00 | 0.26 | 0.00 | 65.27 | 65.34 |
| 65.40 | 128.69 | 4.2463 | 224.53 | 2.02 | 0.90% | 0.917 | 0.55 | 87.49 | 1.80 | 1.11 | 144 | 0.359 | 0.359 | 0.64 | 1.728 | 0.428 | 951.35 | 3.997 | 2.265E+05 | 2.265E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.85 | 1.17 | <= | 0.39 | 0.000 | 0.00 | 0.26 | 0.00 | 65.34 | 65.40 |
| 65.48 | 128.81 | 4.2514 | 219.06 | 2.07 | 0.94% | 0.964 | 0.55 | 85.23 | 1.82 | 1.12 | 142 | 0.346 | 0.346 | 0.64 | 1.731 | 0.428 | 955.49 | 4.000 | 2.282E+05 | 2.282E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.82 | 1.13 | <= | 0.35 | 0.000 | 0.00 | 0.26 | 0.00 | 65.40 | 65.48 |
| 65.53 | 128.82 | 4.2546 | 211.83 | 2.09 | 0.99% | 1.007 | 0.56 | 82.30 | 1.85 | 1.14 | 139 | 0.328 | 0.328 | 0.64 | 1.733 | 0.427 | 957.11 | 4.001 | 2.290E+05 | 2.290E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.78 | 1.07 | <= | 0.58 | 0.000 | 0.00 | 0.26 | 0.00 | 65.48 | 65.53 |
| 65.59 | 128.79 | 4.2585 | 207.24 | 2.10 | 1.01% | 1.035 | 0.57 | 80.42 | 1.87 | 1.16 | 137 | 0.317 | 0.317 | 0.64 | 1.734 | 0.427 | 957.92 | 4.000 | 2.294E+05 | 2.294E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.75 | 1.03 | <= | 0.52 | 0.000 | 0.00 | 0.26 | 0.00 | 65.53 | 65.59 |
| 65.66 | 128.69 | 4.2630 | 202.55 | 2.09 | 1.03% | 1.054 | 0.57 | 78.49 | 1.88 | 1.17 | 134 | 0.305 | 0.305 | 0.64 | 1.737 | 0.427 | 957.11 | 3.997 | 2.292E+05 | 2.292E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.72 | 0.99 | <= | 0.98 | 0.002 | 0.00 | 0.26 | 0.00 | 65.59 | 65.66 |
| 65.75 | 128.53 | 4.2688 | 196.20 | 2.06 | 1.05% | 1.073 | 0.58 | 75.88 | 1.90 | 1.19 | 131 | 0.289 | 0.289 | 0.64 | 1.739 | 0.426 | 954.67 | 3.992 | 2.283E+05 | 2.283E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.69 | 0.94 | <= | 0.84 | 0.002 | 0.00 | 0.26 | 0.00 | 65.66 | 65.75 |
| 65.80 | 128.45 | 4.2720 | 192.38 | 2.06 | 1.07% | 1.095 | 0.58 | 74.32 | 1.91 | 1.20 | 129 | 0.281 | 0.281 | 0.64 | 1.741 | 0.426 | 954.67 | 3.989 | 2.285E+05 | 2.285E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.67 | 0.92 | <= | 0.76 | 0.002 | 0.00 | 0.26 | 0.00 | 65.75 | 65.80 |
| 65.86 | 128.35 | 4.2758 | 186.03 | 2.05 | 1.10% | 1.128 | 0.59 | 71.75 | 1.93 | 1.22 | 126 | 0.268 | 0.268 | 0.64 | 1.743 | 0.426 | 953.84 | 3.986 | 2.283E+05 | 2.283E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.64 | 0.88 | <= | 1.36 | 0.002 | 0.00 | 0.26 | 0.00 | 65.80 | 65.86 |
| 65.92 | 128.24 | 4.2797 | 179.78 | 2.04 | 1.13% | 1.162 | 0.59 | 69.23 | 1.95 | 1.25 | 124 | 0.256 | 0.256 | 0.64 | 1.745 | 0.426 | 953.02 | 3.983 | 2.281E+05 | 2.281E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.61 | 0.84 | <= | 1.26 | 0.004 | 0.00 | 0.26 | 0.00 | 65.86 | 65.92 |
| 66.01 | 128.03 | 4.2854 | 173.53 | 2.01 | 1.16% | 1.188 | 0.60 | 66.69 | 1.97 | 1.27 | 121 | 0.244 | 0.244 | 0.64 | 1.748 | 0.425 | 950.51 | 3.976 | 2.272E+05 | 2.272E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.58 | 0.80 | <= | 1.97 | 0.009 | 0.00 | 0.25 | 0.00 | 65.92 | 66.01 |
| 66.05 | 127.95 | 4.2880 | 170.79 | 2.00 | 1.17% | 1.201 | 0.60 | 65.57 | 1.98 | 1.28 | 120 | 0.239 | 0.239 | 0.64 | 1.749 | 0.425 | 949.67 | 3.974 | 2.270E+05 | 2.270E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.57 | 0.78 | <= | 1.92 | 0.004 | 0.00 | 0.24 | 0.00 | 66.01 | 66.05 |
| 66.13 | 127.81 | 4.2931 | 165.90 | 1.98 | 1.19% | 1.225 | 0.61 | 63.58 | 2.00 | 1.30 | 117 | 0.231 | 0.231 | 0.64 | 1.751 | 0.425 | 947.97 | 3.969 | 2.264E+05 | 2.264E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.55 | 0.76 | <= | 1.84 | 0.007 | 0.00 | 0.24 | 0.00 | 66.05 | 66.13 |
| 66.20 | 127.54 | 4.2976 | 163.36 | 1.92 | 1.18% | 1.207 | 0.61 | 62.52 | 2.00 | 1.30 | 116 | 0.224 | 0.224 | 0.64 | 1.753 | 0.424 | 942.76 | 3.961 | 2.244E+05 | 2.244E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.53 | 0.73 | <= | 1.78 | 0.010 | 0.00 | 0.23 | 0.00 | 66.13 | 66.20 |
| 66.25 | 127.04 | 4.3008 | 160.82 | 1.80 | 1.12% | 1.150 | 0.61 | 61.48 | 1.99 | 1.29 | 113 | 0.214 | 0.214 | 0.64 | 1.755 | 0.424 | 931.84 | 3.945 | 2.201E+05 | 2.201E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.51 | 0.70 | <= | 1.72 | 0.007 | 0.00 | 0.22 | 0.00 | 66.20 | 66.25 |
| 66.33 | 125.81 | 4.3058 | 158.18 | 1.53 | 0.97% | 0.994 | 0.59 | 60.38 | 1.96 | 1.25 | 108 | 0.198 | 0.213 | 0.64 | 1.757 | 0.424 | 904.35 | 3.907 | 2.093E+05 | 2.093E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 0.51 | 0.70 | <= | 1.82 | 0.015 | 0.00 | 0.22 | 0.00 | 66.25 | 66.33 |
| 66.39 | 124.88 | 4.3095 | 154.57 | 1.36 | 0.88% | 0.905 | 0.59 | 58.92 | 1.94 | 1.23 | 104 | 0.186 | 0.217 | 0.64 | 1.759 | 0.424 | 884.43 | 3.878 | 2.017E+05 | 2.017E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 0.52 | 0.71 | <= | 1.95 | 0.011 | 0.00 | 0.20 | 0.00 | 66.33 | 66.39 |
| 66.46 | 124.57 | 4.3139 | 148.41 | 1.32 | 0.89% | 0.916 | 0.60 | 56.46 | 1.96 | 1.25 | 101 | 0.177 | 0.234 | 0.64 | 1.762 | 0.423 | 879.38 | 3.869 | 1.999E+05 | 1.999E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 0.56 | 0.77 | <= | 2.28 | 0.016 | 0.00 | 0.19 | 0.00 | 66.39 | 66.46 |
| 66.51 | 124.59 | 4.3170 | 143.53 | 1.34 | 0.93% | 0.963 | 0.60 | 54.51 | 1.99 | 1.28 | 100 | 0.172 | 0.228 | 0.64 | 1.763 | 0.423 | 881.92 | 3.869 | 2.010E+05 | 2.010E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 0.54 | 0.75 | <= | 2.31 | 0.012 | 0.00 | 0.17 | 0.00 | 66.46 | 66.51 |
| 66.59 | 125.42 | 4.3220 | 130.82 | 1.54 | 1.18% | 1.217 | 0.64 | 49.48 | 2.09 | 1.44 | 99 | 0.170 | 0.237 | 0.63 | 1.766 | 0.423 | 905.45 | 3.895 | 2.105E+05 | 2.105E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 0.57 | 0.78 | <= | 2.33 | 0.019 | 0.00 | 0.16 | 0.00 | 66.51 | 66.59 |
| 66.65 | 126.23 | 4.3258 | 118.22 | 1.78 | 1.51% | 1.563 | 0.67 | 44.52 | 2.21 | 1.68 | 101 | 0.175 | 0.142 | 0.63 | 1.767 | 0.422 | 929.95 | 3.920 | 2.206E+05 | 2.206E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 0.34 | 0.47 | <= | 2.29 | 0.014 | 0.00 | 0.14 | 0.00 | 66.59 | 66.65 |
| 66.72 | 127.26 | 4.3303 | 99.55 | 2.18 | 2.19% | 2.289 | 0.72 | 37.19 | 2.39 | 2.27 | 108 | 0.197 | 0.175 | 0.63 | 1.770 | 0.422 | 964.25 | 3.952 | 2.353E+05 | 2.353E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 0.42 | 0.58 | <= | 2.17 | 0.016 | 0.00 | 0.13 | 0.00 | 66.65 | 66.72 |
| 66.78 | 127.50 | 4.3341 | 81.09 | 2.41 | 2.97% | 3.140 | 0.78 | 29.95 | 2.57 | 3.12 | 114 | 0.219 | 0.220 | 0.63 | 1.772 | 0.422 | 981.21 | 3.960 | 2.431E+05 | 2.431E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | | 0.53 | 0.73 | <= | 2.07 | 0.013 | 0.00 | 0.11 | 0.00 | 66.72 | 66.78 |
| 66.85 | 127.42 | 4.3386 | 63.99 | 2.58 | 4.03% | 4.325 | 0.84 | 23.26 | 2.76 | 4.43 | 146 | 0.371 | 0.371 | 0.63 | 1.774 | 0.421 | 992.74 | 3.957 | 2.491E+05 | 2.491E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 66.90 | 126.95 | 4.3417 | 49.72 | 2.63 | 5.29% | 5.796 | 0.89 | 17.68 | 2.95 | 6.17 | 204 | 0.867 | 0.867 | 0.63 | 1.775 | 0.421 | 995.99 | 3.943 | 2.516E+05 | 2.516E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 66.98 | 126.11 | 4.3468 | 43.95 | 2.44 | 5.55% | 6.161 | 0.91 | 15.42 | 3.02 | 6.91 | 228 | 1.184 | 1.184 | 0.63 | 1.778 | 0.421 | 983.31 | 3.916 | 2.469E+05 | 2.469E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.05 | 125.18 | 4.3512 | 40.63 | 2.21 | 5.44% | 6.092 | 0.92 | 14.11 | 3.04 | 7.24 | 239 | 1.346 | 1.346 | 0.63 | 1.780 | 0.421 | 966.56 | 3.888 | 2.403E+05 | 2.403E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.12 | 124.88 | 4.3555 | 43.56 | 2.07 | 4.75% | 5.280 | 0.90 | 15.23 | 2.97 | 6.42 | 212 | 0.966 | 0.966 | 0.63 | 1.782 | 0.420 | 955.49 | 3.878 | 2.354E+05 | 2.354E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.18 | 125.10 | 4.3593 | 43.17 | 2.14 | 4.96% | 5.514 | 0.90 | 15.07 | 2.99 | 6.61 | 218 | 1.046 | 1.046 | 0.63 | 1.784 | 0.420 | 961.11 | 3.885 | 2.378E+05 | 2.378E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.25 | 125.64 | 4.3637 | 52.75 | 2.15 | 4.08% | 4.443 | 0.86 | 18.77 | 2.84 | 5.15 | 170 | 0.536 | 0.536 | 0.63 | 1.786 | 0.420 | 961.90 | 3.902 | 2.371E+05 | 2.371E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.31 | 125.83 | 4.3675 | 55.48 | 2.17 | 3.91% | 4.246 | 0.85 | 19.82 | 2.81 | 4.85 | 160 | 0.461 | 0.461 | 0.63 | 1.788 | 0.419 | 963.47 | 3.908 | 2.375E+05 | 2.375E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.39 | 125.04 | 4.3725 | 49.62 | 2.02 | 4.07% | 4.464 | 0.87 | 17.52 | 2.87 | 5.39 | 178 | 0.603 | 0.603 | 0.63 | 1.791 | 0.419 | 951.35 | 3.883 | 2.331E+05 | 2.331E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.43 | 124.36 | 4.3749 | 44.25 | 1.92 | 4.34% | 4.815 | 0.89 | 15.44 | 2.94 | 6.07 | 200 | 0.828 | 0.828 | 0.63 | 1.792 | 0.419 | 942.76 | 3.862 | 2.301E+05 | 2.301E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.50 | 123.54 | 4.3793 | 39.65 | 1.78 | 4.49% | 5.047 | 0.91 | 13.64 | 3.00 | 6.71 | 221 | 1.088 | 1.088 | 0.63 | 1.794 | 0.419 | 929.95 | 3.837 | 2.254E+05 | 2.254E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.58 | 123.19 | 4.3842 | 39.56 | 1.70 | 4.30% | 4.833 | 0.90 | 13.59 | 2.98 | 6.58 | 217 | 1.030 | 1.030 | 0.63 | 1.796 | 0.418 | 922.18 | 3.826 | 2.223E+05 | 2.223E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.67 | 122.26 | 4.3897 | 38.77 | 1.50 | 3.87% | 4.363 | 0.90 | 13.27 | 2.96 | 6.34 | 209 | 0.931 | 0.931 | 0.63 | 1.799 | 0.418 | 901.00 | 3.797 | 2.138E+05 | 2.138E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.71 | 121.91 | 4.3921 | 37.99 | 1.44 | 3.79% | 4.286 | 0.90 | 12.96 | 2.97 | 6.37 | 210 | 0.945 | 0.945 | 0.63 | 1.801 | 0.418 | 894.10 | 3.786 | 2.111E+05 | 2.111E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.77 | 121.64 | 4.3958 | 36.72 | 1.41 | 3.84% | 4.362 | 0.90 | 12.46 | 2.99 | 6.59 | 217 | 1.036 | 1.036 | 0.63 | 1.802 | 0.417 | 890.54 | 3.778 | 2.099E+05 | 2.099E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.84 | 121.72 | 4.4000 | 36.33 | 1.43 | 3.94% | 4.479 | 0.91 | 12.30 | 3.00 | 6.73 | 222 | 1.099 | 1.099 | 0.62 | 1.805 | 0.417 | 892.92 | 3.780 | 2.109E+05 | 2.109E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.93 | 122.14 | 4.4055 | 35.65 | 1.52 | 4.26% | 4.865 | 0.92 | 12.03 | 3.03 | 7.11 | 235 | 1.280 | 1.280 | 0.62 | 1.807 | 0.417 | 903.24 | 3.793 | 2.151E+05 | 2.151E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 67.97 | 122.48 | 4.4080 | 35.26 | 1.60 | 4.54% | 5.186 | 0.92 | 11.87 | 3.06 | 7.39 | 244 | 1.429 | 1.429 | 0.62 | 1.809 | 0.416 | 911.92 | 3.804 | 2.186E+05 | 2.186E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.02 | 122.22 | 4.4110 | 34.38 | 1.56 | 4.54% | 5.205 | 0.93 | 11.52 | 3.07 | 7.54 | 249 | 1.510 | 1.510 | 0.62 | 1.810 | 0.416 | 907.64 | 3.796 | 2.170E+05 | 2.170E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.09 | 121.59 | 4.4153 | 33.50 | 1.44 | 4.30% | 4.951 | 0.93 | 11.17 | 3.06 | 7.49 | 247 | 1.485 | 1.485 | 0.62 | 1.812 | 0.416 | 894.10 | 3.776 | 2.117E+05 | 2.117E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.16 | 121.59 | 4.4196 | 33.89 | 1.43 | 4.22% | 4.852 | 0.92 | 11.31 | 3.05 | 7.36 | 243 | 1.415 | 1.415 | 0.62 | 1.815 | 0.416 | 892.92 | 3.776 | 2.111E+05 | 2.111E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.24 | 120.56 | 4.4244 | 36.53 | 1.21 | 3.31% | 3.769 | 0.89 | 12.31 | 2.95 | 6.17 | 204 | 0.867 | 0.867 | 0.62 | 1.817 | 0.415 | 864.66 | 3.744 | 1.997E+05 | 1.997E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.29 | 120.35 | 4.4274 | 40.44 | 1.14 | 2.82% | 3.166 | 0.86 | 13.80 | 2.85 | 5.25 | 173 | 0.564 | 0.564 | 0.62 | 1.819 | 0.415 | 854.58 | 3.738 | 1.954E+05 | 1.954E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.35 | 120.48 | 4.4310 | 42.59 | 1.14 | 2.68% | 2.987 | 0.85 | 14.62 | 2.81 | 4.90 | 162 | 0.474 | 0.474 | 0.62 | 1.821 | 0.415 | 854.58 | 3.742 | 1.952E+05 | 1.952E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.42 | 120.71 | 4.4352 | 42.78 | 1.18 | 2.76% | 3.077 | 0.85 | 14.68 | 2.82 | 4.97 | 164 | 0.489 | 0.489 | 0.62 | 1.823 | 0.414 | 860.41 | 3.749 | 1.975E+05 | 1.975E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.49 | 121.52 | 4.4395 | 39.56 | 1.35 | 3.41% | 3.844 | 0.88 | 13.43 | 2.92 | 5.90 | 195 | 0.765 | 0.765 | 0.62 | 1.825 | 0.414 | 883.18 | 3.774 | 2.067E+05 | 2.067E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.55 | 121.98 | 4.4431 | 34.96 | 1.50 | 4.29% | 4.915 | 0.92 | 11.66 | 3.05 | 7.27 | 240 | 1.366 | 1.366 | 0.62 | 1.827 | 0.414 | 901.00 | 3.788 | 2.143E+05 | 2.143E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.62 | 123.04 | 4.4474 | 39.46 | 1.66 | 4.21% | 4.741 | 0.90 | 13.37 | 2.98 | 6.57 | 217 | 1.030 | 1.030 | 0.62 | 1.829 | 0.414 | 918.15 | 3.821 | 2.206E+05 | 2.206E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.69 | 122.37 | 4.4517 | 32.72 | 1.61 | 4.92% | 5.695 | 0.94 | 10.79 | 3.12 | 8.18 | 270 | 1.907 | 1.907 | 0.62 | 1.831 | 0.413 | 912.97 | 3.800 | 2.193E+05 | 2.193E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.76 | 122.37 | 4.4560 | 39.36 | 1.52 | 3.86% | 4.355 | 0.90 | 13.31 | 2.96 | 6.32 | 208 | 0.922 | 0.922 | 0.62 | 1.833 | 0.413 | 903.24 | 3.800 | 2.147E+05 | 2.147E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.10 | 0.00 | | |
| 68.84 | 121.43 | 4.4609 | 59.88 | 1.16 | 1.94% | 2.093 | 0.78 | 21.11 | 2.57 | 3.15 | 104 | 0.184 | 0.184 | 0.62 | 1.836 | 0.413 | 857.52 | 3.771 | 1.950E+05 | 1.950E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | | 0.45 | 0.62 | <= | 2.24 | 0.021 | 0.00 | 0.10 | 0.00 | 68.76 | 68.84 |
| 68.89 | 121.43 | 4.4639 | 71.90 | 1.09 | 1.52% | 1.616 | 0.73 | 25.67 | 2.42 | 2.40 | 79 | 0.126 | 0.145 | 0.62 | 1.837 | 0.412 | 846.99 | 3.771 | 1.902E+05 | 1.902E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | | 0.36 | 0.49 | <= | 2.79 | 0.015 | 0.00 | 0.08 | 0.00 | 68.84 | 68.89 |
| 68.97 | 121.73 | 4.4688 | 82.36 | 1.09 | 1.32% | 1.399 | 0.71 | 29.63 | 2.32 | 2.03 | 79 | 0.126 | 0.140 | 0.62 | 1.840 | 0.412 | 846.99 | 3.780 | 1.898E+05 | 1.898E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | | 0.34 | 0.47 | <= | 2.79 | 0.023 | 0.00 | 0.06 | 0.00 | 68.89 | 68.97 |
| 69.03 | 122.77 | 4.4725 | 81.09 | 1.26 | 1.55% | 1.645 | 0.72 | 29.12 | 2.38 | 2.22 | 84 | 0.135 | 0.147 | 0.61 | 1.842 | 0.412 | 871.51 | 3.813 | 1.992E+05 | 1.992E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | | 0.36 | 0.50 | <= | 2.66 | 0.017 | 0.00 | 0.04 | 0.00 | 68.97 | 69.03 |
| 69.11 | 124.07 | 4.4774 | 74.54 | 1.55 | 2.08% | 2.212 | 0.76 | 26.61 | 2.50 | 2.76 | 92 | 0.152 | 0.170 | 0.61 | 1.844 | 0.411 | 906.55 | 3.853 | 2.133E+05 | 2.133E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | | 0.42 | 0.57 | <= | 2.47 | 0.021 | 0.00 | 0.02 | 0.00 | 69.03 | 69.11 |
| 69.16 | 124.15 | 4.4805 | 63.50 | 1.65 | 2.60% | 2.796 | 0.80 | 22.40 | 2.63 | 3.53 | 117 | 0.227 | 0.227 | 0.61 | 1.846 | 0.411 | 917.13 | 3.856 | 2.182E+05 | 2.182E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.20 | 124.18 | 4.4830 | 56.27 | 1.73 | 3.07% | 3.341 | 0.83 | 19.65 | 2.74 | 4.26 | 141 | 0.339 | 0.339 | 0.61 | 1.847 | 0.411 | 925.13 | 3.857 | 2.219E+05 | 2.219E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.29 | 123.68 | 4.4886 | 47.18 | 1.71 | 3.62% | 4.005 | 0.87 | 16.18 | 2.86 | 5.34 | 176 | 0.589 | 0.589 | 0.61 | 1.850 | 0.411 | 923.17 | 3.841 | 2.219E+05 | 2.219E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.34 | 123.53 | 4.4917 | 44.34 | 1.71 | 3.86% | 4.291 | 0.88 | 15.09 | 2.91 | 5.79 | 191 | 0.728 | 0.728 | 0.61 | 1.851 | 0.410 | 923.17 | 3.836 | 2.221E+05 | 2.221E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.42 | 123.30 | 4.4966 | 40.24 | 1.71 | 4.25% | 4.784 | 0.90 | 13.53 | 2.98 | 6.55 | 216 | 1.021 | 1.021 | 0.61 | 1.854 | 0.410 | 923.17 | 3.829 | 2.226E+05 | 2.226E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.47 | 123.18 | 4.4997 | 38.87 | 1.70 | 4.37% | 4.946 | 0.91 | 13.00 | 3.01 | 6.83 | 225 | 1.144 | 1.144 | 0.61 | 1.855 | 0.410 | 922.18 | 3.825 | 2.223E+05 | 2.223E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.56 | 122.95 | 4.5052 | 38.68 | 1.65 | 4.27% | 4.828 | 0.91 | 12.91 | 3.00 | 6.77 | 224 | 1.119 | 1.119 | 0.61 | 1.858 | 0.409 | 917.13 | 3.818 | 2.203E+05 | 2.203E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.60 | 122.93 | 4.5077 | 39.85 | 1.63 | 4.09% | 4.612 | 0.90 | 13.35 | 2.98 | 6.49 | 214 | 0.992 | 0.992 | 0.61 | 1.860 | 0.409 | 915.06 | 3.818 | 2.193E+05 | 2.193E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.68 | 122.67 | 4.5126 | 41.90 | 1.55 | 3.70% | 4.146 | 0.89 | 14.11 | 2.92 | 5.93 | 196 | 0.778 | 0.778 | 0.61 | 1.862 | 0.409 | 906.55 | 3.810 | 2.157E+05 | 2.157E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.73 | 122.90 | 4.5156 | 42.88 | 1.58 | 3.68% | 4.118 | 0.88 | 14.47 | 2.91 | 5.82 | 192 | 0.738 | 0.738 | 0.61 | 1.864 | 0.409 | 909.79 | 3.817 | 2.169E+05 | 2.169E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.81 | 124.05 | 4.5206 | 43.17 | 1.85 | 4.29% | 4.787 | 0.89 | 14.56 | 2.96 | 6.26 | 207 | 0.901 | 0.901 | 0.61 | 1.866 | 0.408 | 936.48 | 3.852 | 2.276E+05 | 2.276E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.86 | 87.42 | 4.5228 | 42.88 | 0.00 | 0.00% | 0.003 | 0.79 | 14.45 | 2.61 | 3.39 | 112 | 0.210 | 0.611 | 0.61 | 1.868 | 0.408 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.404 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.94 | 87.42 | 4.5263 | 41.80 | 0.00 | 0.00% | 0.003 | 0.79 | 14.03 | 2.61 | 3.42 | 113 | 0.213 | 0.621 | 0.61 | 1.870 | 0.408 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.403 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.00 | 87.42 | 4.5289 | 40.63 | 0.00 | 0.00% | 0.003 | 0.79 | 13.59 | 2.62 | 3.45 | 114 | 0.217 | 0.633 | 0.61 | 1.872 | 0.408 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.403 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.06 | 87.42 | 4.5315 | 39.26 | 0.00 | 0.00% | 0.003 | 0.80 | 13.07 | 2.63 | 3.50 | 115 | 0.223 | 0.649 | 0.61 | 1.874 | 0.407 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.403 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.15 | 87.42 | 4.5355 | 46.40 | 0.00 | 0.00% | 0.002 | 0.79 | 15.75 | 2.60 | 3.31 | 109 | 0.201 | 0.585 | 0.61 | 1.877 | 0.407 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.403 | | 1.45 | 2.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.20 | 87.42 | 4.5377 | 45.32 | 0.00 | 0.00% | 0.002 | 0.79 | 15.34 | 2.60 | 3.33 | 110 | 0.204 | 0.593 | 0.61 | 1.878 | 0.407 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.403 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |

a. Per $(N1)_{60CS}$ improvement correlation stipulated in Shenthan et.al (2006).
b. Vs = 118.8 $\log_{10}$ (fs) + 18.5; Vs in m/sec and fs in kilopascals.
c. Per the Rrd - Ar correlation stipulated in Rayamajhi et.al (2012)
d. CSR*= CSR x Rrd

| Total Wet Settlement (in) | 4.05 | Total Wet Settlement with Vibro Stone Columns within 50' Depth (in) | 2.39 |
|---|---|---|---|
| | | Total Dry Settlement with Vibro Stone Columns (in) * | 0.00 |
| | | * Based on 5 ft OX | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-2

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A ($ft^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.07 | 107.05 | 0.0037 | 8.79 | 0.31 | 3.53% | 3.528 | 0.62 | 2345.03 | 2.05 | 1.36 | ######### | # | # | 1.00 | 0.000 | 0.394 | 634.30 | 3.325 | 1.210E+05 | 1.210E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 25.20 | **34.67** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.15 | 109.78 | 0.0082 | 13.87 | 0.39 | 2.81% | 2.813 | 0.60 | 1683.58 | 1.99 | 1.28 | 257 | 1.655 | 8.071 | 1.00 | 0.000 | 0.394 | 673.13 | 3.409 | 1.329E+05 | 1.329E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 20.71 | **28.50** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.20 | 111.00 | 0.0110 | 16.21 | 0.43 | 2.65% | 2.654 | 0.60 | 1471.50 | 1.97 | 1.27 | 254 | 1.599 | 7.794 | 1.00 | 0.000 | 0.394 | 689.65 | 3.447 | 1.380E+05 | 1.380E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 20.01 | **27.53** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.28 | 113.04 | 0.0155 | 22.37 | 0.51 | 2.28% | 2.281 | 0.58 | 1439.43 | 1.91 | 1.20 | 240 | 1.364 | 5.640 | 1.00 | 0.000 | 0.394 | 718.51 | 3.511 | 1.471E+05 | 1.471E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 14.48 | **19.93** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.33 | 113.95 | 0.0184 | 26.96 | 0.55 | 2.04% | 2.041 | 0.57 | 1465.90 | 1.86 | 1.16 | 231 | 1.230 | 4.386 | 1.00 | 0.000 | 0.394 | 731.28 | 3.539 | 1.511E+05 | 1.511E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 11.26 | **15.50** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.40 | 115.34 | 0.0224 | 38.19 | 0.59 | 1.54% | 1.546 | 0.53 | 1702.71 | 1.74 | 1.07 | 213 | 0.980 | 2.691 | 1.00 | 0.000 | 0.394 | 743.16 | 3.582 | 1.542E+05 | 1.542E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 6.91 | **9.51** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.46 | 116.02 | 0.0259 | 46.69 | 0.60 | 1.29% | 1.286 | 0.51 | 1801.96 | 1.67 | 1.01 | 203 | 0.857 | 1.860 | 1.00 | 0.000 | 0.393 | 746.00 | 3.603 | 1.545E+05 | 1.545E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 4.78 | **6.57** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.55 | 116.47 | 0.0311 | 57.92 | 0.60 | 1.04% | 1.036 | 0.50 | 1859.14 | 1.57 | 1.00 | 200 | 0.824 | 1.409 | 1.00 | 0.000 | 0.393 | 746.00 | 3.617 | 1.539E+05 | 1.539E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 3.62 | **4.98** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.60 | 116.91 | 0.0341 | 66.81 | 0.60 | 0.90% | 0.899 | 0.50 | 1960.52 | 1.49 | 1.00 | 200 | 0.824 | 1.231 | 1.00 | 0.000 | 0.393 | 746.00 | 3.631 | 1.533E+05 | 1.533E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 3.16 | **4.35** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.67 | 117.90 | 0.0382 | 76.67 | 0.66 | 0.86% | 0.861 | 0.50 | 2006.76 | 1.46 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 762.12 | 3.661 | 1.586E+05 | 1.586E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | **2.91** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.74 | 118.61 | 0.0423 | 82.63 | 0.71 | 0.86% | 0.860 | 0.50 | 1950.67 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 774.48 | 3.684 | 1.628E+05 | 1.628E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | **2.91** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.81 | 119.19 | 0.0465 | 83.51 | 0.77 | 0.92% | 0.923 | 0.50 | 1794.54 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 788.20 | 3.702 | 1.678E+05 | 1.678E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | **2.91** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.87 | 119.78 | 0.0501 | 82.92 | 0.83 | 1.00% | 1.002 | 0.50 | 1653.99 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 800.89 | 3.720 | 1.724E+05 | 1.724E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | **2.92** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 0.93 | 120.24 | 0.0537 | 81.07 | 0.89 | 1.10% | 1.099 | 0.50 | 1508.39 | 1.57 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 812.70 | 3.734 | 1.769E+05 | 1.769E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | **2.92** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.00 | 120.64 | 0.0579 | 78.14 | 0.96 | 1.23% | 1.229 | 0.50 | 1347.81 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 1.00 | 0.000 | 0.393 | 825.51 | 3.747 | 1.819E+05 | 1.819E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.12 | **2.92** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.06 | 120.82 | 0.0616 | 72.57 | 1.00 | 1.38% | 1.379 | 0.51 | 1177.90 | 1.69 | 1.03 | 206 | 0.888 | 0.888 | 1.00 | 0.000 | 0.393 | 832.41 | 3.752 | 1.847E+05 | 1.847E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 2.28 | **3.14** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.14 | 120.55 | 0.0664 | 65.05 | 1.00 | 1.54% | 1.539 | 0.53 | 978.97 | 1.75 | 1.07 | 214 | 0.993 | 1.257 | 1.00 | 0.000 | 0.393 | 832.41 | 3.744 | 1.851E+05 | 1.851E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 3.23 | **4.45** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.22 | 120.38 | 0.0712 | 58.11 | 1.02 | 1.76% | 1.757 | 0.55 | 815.21 | 1.82 | 1.12 | 224 | 1.128 | 1.684 | 1.00 | 0.000 | 0.393 | 835.76 | 3.739 | 1.868E+05 | 1.868E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 4.33 | **5.96** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.25 | 120.27 | 0.0730 | 55.38 | 1.02 | 1.84% | 1.844 | 0.56 | 757.64 | 1.85 | 1.14 | 228 | 1.189 | 1.775 | 1.00 | 0.000 | 0.393 | 835.76 | 3.735 | 1.870E+05 | 1.870E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 4.57 | **6.29** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.32 | 119.69 | 0.0772 | 52.25 | 0.96 | 1.84% | 1.840 | 0.57 | 675.92 | 1.87 | 1.16 | 232 | 1.234 | 2.111 | 1.00 | 0.000 | 0.393 | 825.51 | 3.717 | 1.833E+05 | 1.833E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 5.43 | **7.48** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.40 | 120.16 | 0.0820 | 47.17 | 1.06 | 2.25% | 2.251 | 0.59 | 574.28 | 1.95 | 1.24 | 249 | 1.511 | 2.584 | 1.00 | 0.000 | 0.393 | 842.27 | 3.732 | 1.901E+05 | 1.901E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 6.65 | **9.15** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.45 | 120.23 | 0.0850 | 46.00 | 1.08 | 2.35% | 2.352 | 0.60 | 540.18 | 1.98 | 1.27 | 253 | 1.578 | 2.699 | 1.00 | 0.000 | 0.393 | 845.43 | 3.734 | 1.914E+05 | 1.914E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 6.95 | **9.56** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.52 | 119.85 | 0.0892 | 40.63 | 1.07 | 2.63% | 2.639 | 0.62 | 454.52 | 2.04 | 1.36 | 244 | 1.428 | 2.760 | 1.00 | 0.000 | 0.392 | 843.86 | 3.722 | 1.913E+05 | 1.913E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 7.11 | **9.78** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.59 | 119.55 | 0.0934 | 38.58 | 1.04 | 2.70% | 2.702 | 0.63 | 412.16 | 2.07 | 1.40 | 235 | 1.294 | 2.810 | 1.00 | 0.000 | 0.392 | 839.05 | 3.713 | 1.896E+05 | 1.896E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 7.24 | **9.96** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.67 | 119.66 | 0.0982 | 38.58 | 1.06 | 2.75% | 2.755 | 0.63 | 392.01 | 2.08 | 1.42 | 234 | 1.266 | 2.749 | 1.00 | 0.000 | 0.392 | 842.27 | 3.716 | 1.909E+05 | 1.909E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 7.08 | **9.74** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.71 | 119.53 | 0.1006 | 38.58 | 1.04 | 2.70% | 2.703 | 0.63 | 382.67 | 2.08 | 1.42 | 229 | 1.199 | 2.604 | 1.00 | 0.000 | 0.392 | 839.05 | 3.712 | 1.897E+05 | 1.897E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 6.71 | **9.23** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.78 | 118.90 | 0.1047 | 38.58 | 0.95 | 2.46% | 2.469 | 0.63 | 367.42 | 2.06 | 1.38 | 215 | 1.005 | 2.182 | 1.00 | 0.000 | 0.392 | 823.74 | 3.693 | 1.838E+05 | 1.838E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 5.62 | **7.74** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.85 | 118.23 | 0.1089 | 39.17 | 0.86 | 2.20% | 2.202 | 0.62 | 358.83 | 2.03 | 1.34 | 202 | 0.844 | 1.833 | 1.00 | 0.000 | 0.392 | 806.90 | 3.672 | 1.773E+05 | 1.773E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 4.72 | **6.50** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.95 | 116.98 | 0.1147 | 38.68 | 0.73 | 1.89% | 1.893 | 0.61 | 336.21 | 2.00 | 1.29 | 183 | 0.649 | 1.410 | 1.00 | 0.000 | 0.392 | 779.18 | 3.633 | 1.671E+05 | 1.671E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 3.63 | **5.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 1.99 | 116.41 | 0.1170 | 37.21 | 0.69 | 1.85% | 1.860 | 0.61 | 316.95 | 2.00 | 1.30 | 176 | 0.587 | 1.275 | 1.00 | 0.000 | 0.392 | 769.64 | 3.615 | 1.638E+05 | 1.638E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 3.29 | **4.52** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.05 | 115.47 | 0.1205 | 36.04 | 0.61 | 1.69% | 1.698 | 0.61 | 298.10 | 1.99 | 1.29 | 164 | 0.491 | 1.198 | 1.00 | 0.000 | 0.392 | 748.80 | 3.586 | 1.564E+05 | 1.564E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 3.09 | **4.25** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.12 | 114.60 | 0.1245 | 34.97 | 0.55 | 1.57% | 1.578 | 0.60 | 279.87 | 1.98 | 1.28 | 154 | 0.423 | 1.031 | 0.99 | 0.000 | 0.392 | 731.28 | 3.559 | 1.503E+05 | 1.503E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.66 | **3.66** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.20 | 113.33 | 0.1290 | 34.18 | 0.46 | 1.35% | 1.351 | 0.60 | 263.88 | 1.96 | 1.25 | 141 | 0.343 | 0.836 | 0.99 | 0.000 | 0.392 | 701.06 | 3.520 | 1.396E+05 | 1.396E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.15 | **2.97** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.25 | 113.04 | 0.1319 | 33.40 | 0.45 | 1.35% | 1.353 | 0.60 | 252.29 | 1.97 | 1.26 | 138 | 0.327 | 0.897 | 0.99 | 0.000 | 0.392 | 697.34 | 3.511 | 1.385E+05 | 1.385E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.31 | **3.18** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.30 | 112.92 | 0.1347 | 32.43 | 0.45 | 1.39% | 1.393 | 0.60 | 239.78 | 1.99 | 1.28 | 137 | 0.317 | 0.871 | 0.99 | 0.000 | 0.392 | 697.34 | 3.507 | 1.387E+05 | 1.387E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.25 | **3.09** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.38 | 112.43 | 0.1392 | 29.79 | 0.43 | 1.44% | 1.450 | 0.61 | 213.03 | 2.02 | 1.33 | 131 | 0.288 | 0.790 | 0.99 | 0.000 | 0.392 | 689.65 | 3.492 | 1.362E+05 | 1.362E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.04 | **2.81** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.44 | 112.25 | 0.1426 | 27.93 | 0.43 | 1.54% | 1.547 | 0.63 | 194.92 | 2.06 | 1.39 | 129 | 0.278 | 0.866 | 0.99 | 0.000 | 0.392 | 689.65 | 3.486 | 1.364E+05 | 1.364E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.23 | **3.08** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.52 | 112.03 | 0.1470 | 26.18 | 0.42 | 1.60% | 1.613 | 0.64 | 177.05 | 2.09 | 1.44 | 125 | 0.263 | 0.820 | 0.99 | 0.000 | 0.392 | 685.67 | 3.479 | 1.351E+05 | 1.351E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.12 | **2.91** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.57 | 111.77 | 0.1498 | 24.32 | 0.42 | 1.73% | 1.738 | 0.65 | 161.32 | 2.14 | 1.52 | 124 | 0.259 | 0.805 | 0.99 | 0.000 | 0.392 | 685.67 | 3.471 | 1.354E+05 | 1.354E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.08 | **2.86** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.64 | 111.44 | 0.1537 | 23.05 | 0.41 | 1.78% | 1.791 | 0.66 | 148.94 | 2.16 | 1.58 | 122 | 0.248 | 0.774 | 0.99 | 0.000 | 0.391 | 681.59 | 3.461 | 1.342E+05 | 1.342E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.00 | **2.75** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.70 | 110.98 | 0.1571 | 21.98 | 0.39 | 1.77% | 1.787 | 0.66 | 138.95 | 2.18 | 1.61 | 118 | 0.234 | 0.632 | 0.99 | 0.000 | 0.391 | 673.13 | 3.447 | 1.315E+05 | 1.315E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.63 | **2.25** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.76 | 110.43 | 0.1604 | 20.80 | 0.37 | 1.78% | 1.793 | 0.67 | 128.70 | 2.20 | 1.66 | 115 | 0.221 | 0.596 | 0.99 | 0.000 | 0.391 | 664.22 | 3.430 | 1.286E+05 | 1.286E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.54 | **2.12** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.83 | 109.72 | 0.1642 | 19.83 | 0.34 | 1.71% | 1.729 | 0.67 | 119.76 | 2.21 | 1.68 | 110 | 0.202 | 0.547 | 0.99 | 0.000 | 0.391 | 649.92 | 3.407 | 1.240E+05 | 1.240E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.41 | **1.94** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.89 | 110.34 | 0.1675 | 19.14 | 0.37 | 1.93% | 1.950 | 0.68 | 113.25 | 2.25 | 1.80 | 114 | 0.218 | 0.589 | 0.99 | 0.000 | 0.391 | 664.22 | 3.427 | 1.288E+05 | 1.288E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.52 | **2.09** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 2.97 | 109.97 | 0.1719 | 18.56 | 0.36 | 1.94% | 1.958 | 0.69 | 106.96 | 2.26 | 1.84 | 112 | 0.211 | 0.569 | 0.99 | 0.000 | 0.391 | 659.59 | 3.415 | 1.274E+05 | 1.274E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.47 | **2.02** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.02 | 110.58 | 0.1747 | 18.36 | 0.39 | 2.12% | 2.145 | 0.70 | 104.10 | 2.29 | 1.93 | 117 | 0.227 | 0.614 | 0.99 | 0.000 | 0.391 | 673.13 | 3.434 | 1.319E+05 | 1.319E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.59 | **2.18** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.10 | 111.47 | 0.1791 | 18.17 | 0.44 | 2.42% | 2.446 | 0.71 | 100.43 | 2.33 | 2.06 | 124 | 0.257 | 0.695 | 0.99 | 0.000 | 0.391 | 693.54 | 3.462 | 1.389E+05 | 1.389E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.80 | **2.47** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.19 | 112.11 | 0.1842 | 17.19 | 0.49 | 2.85% | 2.881 | 0.73 | 92.33 | 2.40 | 2.30 | 132 | 0.296 | 0.799 | 0.99 | 0.000 | 0.391 | 711.74 | 3.482 | 1.455E+05 | 1.455E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.07 | **2.84** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.24 | 112.45 | 0.1870 | 16.21 | 0.53 | 3.27% | 3.308 | 0.74 | 85.68 | 2.45 | 2.54 | 140 | 0.335 | 0.907 | 0.99 | 0.000 | 0.391 | 725.02 | 3.492 | 1.505E+05 | 1.505E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.34 | **3.23** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.31 | 113.03 | 0.1910 | 14.94 | 0.59 | 3.95% | 4.000 | 0.77 | 77.24 | 2.53 | 2.92 | 152 | 0.406 | 0.548 | 0.99 | 0.000 | 0.391 | 743.16 | 3.510 | 1.573E+05 | 1.573E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.42 | **1.95** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.36 | 113.52 | 0.1938 | 14.65 | 0.63 | 4.30% | 4.358 | 0.78 | 74.60 | 2.56 | 3.09 | 158 | 0.450 | 0.608 | 0.99 | 0.000 | 0.391 | 754.26 | 3.525 | 1.614E+05 | 1.614E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.57 | **2.16** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.41 | 114.04 | 0.1966 | 14.06 | 0.69 | 4.91% | 4.977 | 0.79 | 70.50 | 2.61 | 3.40 | 169 | 0.529 | 0.716 | 0.99 | 0.000 | 0.391 | 769.64 | 3.542 | 1.673E+05 | 1.673E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.50 | 115.20 | 0.2018 | 14.26 | 0.80 | 5.61% | 5.691 | 0.80 | 69.65 | 2.65 | 3.65 | 184 | 0.660 | 0.867 | 0.99 | 0.000 | 0.391 | 794.67 | 3.578 | 1.765E+05 | 1.765E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.55 | 115.89 | 0.2047 | 15.63 | 0.85 | 5.44% | 5.510 | 0.79 | 75.35 | 2.62 | 3.46 | 186 | 0.682 | 0.896 | 0.99 | 0.000 | 0.391 | 804.92 | 3.599 | 1.800E+05 | 1.800E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.61 | 117.15 | 0.2082 | 18.95 | 0.95 | 5.01% | 5.069 | 0.77 | 90.00 | 2.55 | 3.04 | 190 | 0.718 | 0.913 | 0.99 | 0.000 | 0.391 | 823.74 | 3.638 | 1.865E+05 | 1.865E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.36 | **3.25** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.68 | 119.07 | 0.2124 | 25.10 | 1.12 | 4.46% | 4.500 | 0.74 | 117.17 | 2.45 | 2.53 | 197 | 0.789 | 1.923 | 0.99 | 0.000 | 0.390 | 851.58 | 3.698 | 1.961E+05 | 1.961E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 4.98 | **6.85** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.77 | 121.94 | 0.2179 | 39.36 | 1.43 | 3.63% | 3.653 | 0.69 | 179.64 | 2.28 | 1.89 | 210 | 0.943 | 1.613 | 0.99 | 0.000 | 0.390 | 892.92 | 3.787 | 2.105E+05 | 2.105E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 4.18 | **5.75** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.81 | 122.88 | 0.2204 | 47.08 | 1.53 | 3.25% | 3.265 | 0.67 | 212.66 | 2.21 | 1.68 | 214 | 0.997 | 1.262 | 0.99 | 0.000 | 0.390 | 904.35 | 3.816 | 2.143E+05 | 2.143E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 3.27 | **4.50** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.90 | 120.87 | 0.2258 | 64.17 | 1.05 | 1.64% | 1.642 | 0.59 | 283.20 | 1.93 | 1.22 | 184 | 0.658 | 0.658 | 0.99 | 0.000 | 0.390 | 840.67 | 3.754 | 1.883E+05 | 1.883E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.70 | **2.35** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 3.94 | 121.04 | 0.2282 | 65.63 | 1.07 | 1.63% | 1.636 | 0.59 | 286.58 | 1.93 | 1.21 | 186 | 0.675 | 0.675 | 0.99 | 0.000 | 0.390 | 843.86 | 3.759 | 1.894E+05 | 1.894E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.75 | **2.40** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.03 | 121.89 | 0.2337 | 88.20 | 1.09 | 1.24% | 1.239 | 0.54 | 376.41 | 1.77 | 1.09 | 206 | 0.894 | 0.894 | 0.99 | 0.000 | 0.390 | 846.99 | 3.785 | 1.895E+05 | 1.895E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.32 | **3.19** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.08 | 122.10 | 0.2368 | 99.04 | 1.08 | 1.09% | 1.093 | 0.52 | 417.33 | 1.71 | 1.04 | 209 | 0.928 | 0.928 | 0.99 | 0.000 | 0.390 | 845.43 | 3.792 | 1.885E+05 | 1.885E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.40 | **3.31** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.17 | 121.51 | 0.2422 | 99.23 | 0.99 | 1.00% | 1.000 | 0.51 | 408.67 | 1.69 | 1.03 | 206 | 0.892 | 0.892 | 0.99 | 0.000 | 0.390 | 830.71 | 3.774 | 1.829E+05 | 1.829E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.31 | **3.18** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.22 | 120.98 | 0.2452 | 95.13 | 0.94 | 0.99% | 0.991 | 0.52 | 386.90 | 1.70 | 1.04 | 200 | 0.821 | 0.821 | 0.99 | 0.000 | 0.390 | 821.95 | 3.757 | 1.798E+05 | 1.798E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.13 | **2.93** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.26 | 120.54 | 0.2477 | 97.18 | 0.88 | 0.91% | 0.908 | 0.51 | 391.40 | 1.67 | 1.02 | 197 | 0.789 | 0.789 | 0.99 | 0.000 | 0.390 | 810.79 | 3.743 | 1.756E+05 | 1.756E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.04 | **2.81** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.34 | 119.49 | 0.2524 | 92.49 | 0.77 | 0.83% | 0.835 | 0.51 | 365.39 | 1.66 | 1.01 | 184 | 0.661 | 0.661 | 0.99 | 0.000 | 0.390 | 788.20 | 3.711 | 1.674E+05 | 1.674E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.71 | **2.36** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.41 | 118.72 | 0.2566 | 86.93 | 0.71 | 0.82% | 0.819 | 0.51 | 337.79 | 1.68 | 1.02 | 174 | 0.574 | 0.574 | 0.99 | 0.000 | 0.390 | 774.48 | 3.687 | 1.627E+05 | 1.627E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.49 | **2.05** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.48 | 118.08 | 0.2607 | 82.14 | 0.66 | 0.80% | 0.806 | 0.52 | 314.05 | 1.69 | 1.03 | 166 | 0.506 | 0.506 | 0.99 | 0.000 | 0.390 | 762.12 | 3.667 | 1.584E+05 | 1.584E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.31 | **1.81** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.53 | 117.49 | 0.2637 | 76.57 | 0.62 | 0.81% | 0.813 | 0.52 | 289.41 | 1.72 | 1.05 | 158 | 0.446 | 0.446 | 0.99 | 0.000 | 0.390 | 751.55 | 3.649 | 1.548E+05 | 1.548E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.16 | **1.59** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.61 | 116.32 | 0.2683 | 68.47 | 0.55 | 0.80% | 0.806 | 0.53 | 254.19 | 1.75 | 1.07 | 145 | 0.362 | 0.383 | 0.99 | 0.000 | 0.390 | 731.28 | 3.612 | 1.480E+05 | 1.480E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 0.99 | **1.37** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.69 | 115.47 | 0.2729 | 59.97 | 0.51 | 0.85% | 0.854 | 0.55 | 218.73 | 1.81 | 1.11 | 133 | 0.299 | 0.401 | 0.99 | 0.000 | 0.390 | 718.51 | 3.586 | 1.440E+05 | 1.440E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.75 | 115.21 | 0.2764 | 56.06 | 0.51 | 0.91% | 0.914 | 0.56 | 201.83 | 1.84 | 1.14 | 129 | 0.279 | 0.438 | 0.99 | 0.000 | 0.389 | 718.51 | 3.578 | 1.443E+05 | 1.443E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.14 | **1.57** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.79 | 115.18 | 0.2787 | 51.76 | 0.52 | 1.00% | 1.010 | 0.58 | 184.72 | 1.89 | 1.18 | 125 | 0.262 | 0.471 | 0.99 | 0.000 | 0.389 | 721.79 | 3.577 | 1.456E+05 | 1.456E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.22 | **1.68** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.86 | 115.66 | 0.2827 | 46.69 | 0.57 | 1.22% | 1.228 | 0.60 | 164.13 | 1.98 | 1.27 | 124 | 0.257 | 0.466 | 0.99 | 0.000 | 0.389 | 737.33 | 3.592 | 1.514E+05 | 1.514E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.21 | **1.67** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 4.93 | 116.26 | 0.2868 | 44.05 | 0.64 | 1.45% | 1.462 | 0.62 | 152.59 | 2.04 | 1.36 | 127 | 0.270 | 0.495 | 0.99 | 0.000 | 0.389 | 756.92 | 3.611 | 1.587E+05 | 1.587E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.29 | **1.77** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.02 | 136.62 | 0.2930 | 41.41 | 0.68 | 1.64% | 1.654 | 0.64 | 140.35 | 2.09 | 1.45 | 128 | 0.275 | 0.571 | 0.99 | 0.000 | 0.389 | 767.17 | 4.243 | 1.387E+05 | 2.030E+06 | 14.63 | 0.1542 | 0.911 | 0.354 | | 1.61 | **2.22** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.06 | 136.65 | 0.2957 | 39.75 | 0.69 | 1.74% | 1.749 | 0.64 | 133.43 | 2.12 | 1.50 | 128 | 0.275 | 0.573 | 0.99 | 0.000 | 0.389 | 769.64 | 4.244 | 1.396E+05 | 2.030E+06 | 14.54 | 0.1542 | 0.911 | 0.354 | | 1.62 | **2.23** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.13 | 136.65 | 0.3005 | 37.90 | 0.70 | 1.85% | 1.862 | 0.65 | 125.13 | 2.16 | 1.57 | 128 | 0.274 | 0.577 | 0.99 | 0.000 | 0.389 | 772.08 | 4.244 | 1.405E+05 | 2.030E+06 | 14.45 | 0.1542 | 0.911 | 0.354 | | 1.63 | **2.24** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.19 | 136.58 | 0.3046 | 37.11 | 0.70 | 1.89% | 1.902 | 0.66 | 120.84 | 2.17 | 1.60 | 127 | 0.271 | 0.575 | 0.99 | 0.000 | 0.389 | 772.08 | 4.242 | 1.405E+05 | 2.030E+06 | 14.44 | 0.1542 | 0.911 | 0.354 | | 1.62 | **2.23** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.25 | 136.41 | 0.3087 | 37.90 | 0.68 | 1.79% | 1.809 | 0.65 | 121.79 | 2.15 | 1.56 | 125 | 0.261 | 0.559 | 0.99 | 0.000 | 0.389 | 767.17 | 4.236 | 1.389E+05 | 2.030E+06 | 14.61 | 0.1542 | 0.911 | 0.354 | | 1.58 | **2.17** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.33 | 136.07 | 0.3141 | 37.60 | 0.65 | 1.73% | 1.743 | 0.65 | 118.71 | 2.15 | 1.55 | 122 | 0.247 | 0.534 | 0.99 | 0.000 | 0.389 | 759.54 | 4.226 | 1.365E+05 | 2.030E+06 | 14.87 | 0.1542 | 0.910 | 0.354 | | 1.51 | **2.08** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.38 | 135.73 | 0.3175 | 37.90 | 0.62 | 1.64% | 1.650 | 0.65 | 118.37 | 2.13 | 1.52 | 119 | 0.235 | 0.512 | 0.99 | 0.000 | 0.389 | 751.55 | 4.215 | 1.340E+05 | 2.030E+06 | 15.15 | 0.1542 | 0.909 | 0.354 | | 1.45 | **1.99** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.46 | 135.39 | 0.3229 | 38.77 | 0.58 | 1.50% | 1.509 | 0.64 | 119.06 | 2.11 | 1.47 | 115 | 0.221 | 0.486 | 0.99 | 0.000 | 0.389 | 740.27 | 4.205 | 1.303E+05 | 2.030E+06 | 15.58 | 0.1542 | 0.908 | 0.353 | | 1.38 | **1.89** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.55 | 135.09 | 0.3290 | 39.65 | 0.56 | 1.41% | 1.424 | 0.63 | 119.52 | 2.09 | 1.44 | 113 | 0.213 | 0.474 | 0.99 | 0.000 | 0.389 | 734.33 | 4.195 | 1.285E+05 | 2.030E+06 | 15.79 | 0.1542 | 0.908 | 0.353 | | 1.34 | **1.85** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.58 | 135.02 | 0.3310 | 40.24 | 0.55 | 1.37% | 1.378 | 0.63 | 120.56 | 2.08 | 1.42 | 112 | 0.211 | 0.470 | 0.99 | 0.000 | 0.389 | 731.28 | 4.193 | 1.275E+05 | 2.030E+06 | 15.92 | 0.1542 | 0.907 | 0.353 | | 1.33 | **1.83** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.68 | 134.87 | 0.3378 | 41.80 | 0.53 | 1.27% | 1.278 | 0.62 | 122.76 | 2.05 | 1.37 | 110 | 0.205 | 0.463 | 0.99 | 0.000 | 0.389 | 725.02 | 4.189 | 1.255E+05 | 2.030E+06 | 16.18 | 0.1542 | 0.907 | 0.352 | | 1.31 | **1.81** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.73 | 134.82 | 0.3411 | 43.17 | 0.52 | 1.20% | 1.214 | 0.62 | 125.55 | 2.03 | 1.34 | 110 | 0.204 | 0.462 | 0.99 | 0.000 | 0.389 | 721.79 | 4.187 | 1.244E+05 | 2.030E+06 | 16.31 | 0.1542 | 0.906 | 0.352 | | 1.31 | **1.81** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.79 | 134.67 | 0.3452 | 44.63 | 0.51 | 1.14% | 1.152 | 0.61 | 128.30 | 2.01 | 1.31 | 110 | 0.203 | 0.418 | 0.99 | 0.000 | 0.388 | 718.51 | 4.182 | 1.234E+05 | 2.030E+06 | 16.45 | 0.1542 | 0.906 | 0.352 | | 1.19 | **1.64** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.86 | 134.48 | 0.3499 | 46.88 | 0.48 | 1.02% | 1.032 | 0.60 | 132.99 | 1.97 | 1.26 | 108 | 0.199 | 0.414 | 0.99 | 0.000 | 0.388 | 708.25 | 4.176 | 1.201E+05 | 2.030E+06 | 16.90 | 0.1542 | 0.905 | 0.351 | | 1.18 | **1.62** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.92 | 134.43 | 0.3539 | 49.32 | 0.47 | 0.95% | 0.960 | 0.59 | 138.36 | 1.94 | 1.23 | 109 | 0.201 | 0.421 | 0.99 | 0.000 | 0.388 | 704.69 | 4.175 | 1.189E+05 | 2.030E+06 | 17.07 | 0.1542 | 0.904 | 0.351 | | 1.20 | **1.65** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 5.99 | 134.39 | 0.3586 | 51.67 | 0.46 | 0.89% | 0.896 | 0.58 | 143.08 | 1.91 | 1.20 | 110 | 0.203 | 0.388 | 0.99 | 0.000 | 0.388 | 701.06 | 4.174 | 1.178E+05 | 2.030E+06 | 17.24 | 0.1542 | 0.904 | 0.351 | | 1.11 | **1.52** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.04 | 134.41 | 0.3620 | 53.33 | 0.46 | 0.86% | 0.868 | 0.58 | 146.33 | 1.89 | 1.18 | 111 | 0.206 | 0.397 | 0.99 | 0.000 | 0.388 | 701.06 | 4.174 | 1.177E+05 | 2.030E+06 | 17.24 | 0.1542 | 0.904 | 0.351 | | 1.13 | **1.56** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.13 | 134.54 | 0.3680 | 56.36 | 0.46 | 0.82% | 0.822 | 0.57 | 152.14 | 1.87 | 1.16 | 113 | 0.213 | 0.414 | 0.99 | 0.000 | 0.388 | 701.06 | 4.178 | 1.176E+05 | 2.030E+06 | 17.26 | 0.1542 | 0.904 | 0.351 | | 1.18 | **1.62** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.18 | 134.75 | 0.3714 | 58.60 | 0.47 | 0.80% | 0.807 | 0.56 | 156.78 | 1.85 | 1.15 | 115 | 0.220 | 0.390 | 0.99 | 0.000 | 0.388 | 704.69 | 4.185 | 1.187E+05 | 2.030E+06 | 17.11 | 0.1542 | 0.904 | 0.351 | | 1.11 | **1.53** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.26 | 135.68 | 0.3768 | 61.14 | 0.52 | 0.85% | 0.856 | 0.56 | 161.25 | 1.86 | 1.15 | 119 | 0.237 | 0.424 | 0.99 | 0.000 | 0.388 | 721.79 | 4.214 | 1.236E+05 | 2.030E+06 | 16.42 | 0.1542 | 0.906 | 0.352 | | 1.21 | **1.66** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.30 | 136.22 | 0.3796 | 62.90 | 0.56 | 0.89% | 0.896 | 0.57 | 164.72 | 1.86 | 1.15 | 123 | 0.251 | 0.406 | 0.99 | 0.000 | 0.388 | 734.33 | 4.230 | 1.275E+05 | 2.030E+06 | 15.93 | 0.1542 | 0.907 | 0.352 | | 1.15 | **1.59** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.40 | 137.27 | 0.3864 | 65.63 | 0.63 | 0.96% | 0.966 | 0.57 | 168.84 | 1.87 | 1.16 | 128 | 0.274 | 0.400 | 0.98 | 0.000 | 0.388 | 754.26 | 4.263 | 1.334E+05 | 2.030E+06 | 15.21 | 0.1542 | 0.909 | 0.353 | | 1.14 | **1.56** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.44 | 137.76 | 0.3892 | 66.02 | 0.68 | 1.03% | 1.036 | 0.57 | 168.64 | 1.89 | 1.18 | 130 | 0.286 | 0.421 | 0.98 | 0.000 | 0.388 | 767.17 | 4.278 | 1.376E+05 | 2.030E+06 | 14.76 | 0.1542 | 0.910 | 0.353 | | 1.19 | **1.64** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.52 | 137.66 | 0.3947 | 66.51 | 0.67 | 1.01% | 1.013 | 0.57 | 167.52 | 1.88 | 1.17 | 130 | 0.282 | 0.421 | 0.98 | 0.000 | 0.388 | 764.67 | 4.275 | 1.368E+05 | 2.030E+06 | 14.84 | 0.1542 | 0.910 | 0.353 | | 1.19 | **1.64** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.61 | 139.34 | 0.4009 | 66.71 | 0.84 | 1.26% | 1.267 | 0.59 | 165.38 | 1.94 | 1.23 | 138 | 0.323 | 0.489 | 0.98 | 0.000 | 0.388 | 802.92 | 4.327 | 1.490E+05 | 2.030E+06 | 13.63 | 0.1542 | 0.913 | 0.354 | | 1.38 | **1.90** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.63 | 139.75 | 0.4023 | 66.90 | 0.88 | 1.32% | 1.323 | 0.59 | 165.28 | 1.95 | 1.24 | 140 | 0.334 | 0.446 | 0.98 | 0.000 | 0.388 | 810.79 | 4.340 | 1.515E+05 | 2.030E+06 | 13.40 | 0.1542 | 0.914 | 0.354 | | 1.26 | **1.73** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.71 | 140.79 | 0.4080 | 66.51 | 1.02 | 1.53% | 1.543 | 0.61 | 162.02 | 2.00 | 1.30 | 146 | 0.369 | 0.502 | 0.98 | 0.000 | 0.388 | 835.76 | 4.372 | 1.598E+05 | 2.030E+06 | 12.71 | 0.1542 | 0.916 | 0.355 | | 1.41 | **1.94** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.79 | 141.45 | 0.4136 | 65.15 | 1.12 | 1.72% | 1.730 | 0.62 | 156.51 | 2.04 | 1.36 | 150 | 0.391 | 0.540 | 0.98 | 0.000 | 0.388 | 851.58 | 4.393 | 1.651E+05 | 2.030E+06 | 12.30 | 0.1542 | 0.917 | 0.355 | | 1.52 | **2.09** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.84 | 141.38 | 0.4172 | 55.67 | 1.17 | 2.10% | 2.118 | 0.65 | 132.45 | 2.14 | 1.54 | 148 | 0.384 | 0.602 | 0.98 | 0.000 | 0.388 | 858.97 | 4.391 | 1.680E+05 | 2.030E+06 | 12.08 | 0.1542 | 0.917 | 0.355 | | 1.70 | **2.33** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.90 | 141.98 | 0.4214 | 61.63 | 1.23 | 2.00% | 2.010 | 0.64 | 145.24 | 2.10 | 1.46 | 153 | 0.413 | 0.582 | 0.98 | 0.000 | 0.387 | 867.43 | 4.409 | 1.706E+05 | 2.030E+06 | 11.90 | 0.1542 | 0.918 | 0.356 | | 1.64 | **2.25** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 6.97 | 142.53 | 0.4264 | 58.80 | 1.35 | 2.30% | 2.313 | 0.66 | 136.89 | 2.16 | 1.57 | 158 | 0.449 | 0.641 | 0.98 | 0.000 | 0.387 | 883.18 | 4.426 | 1.762E+05 | 2.030E+06 | 11.52 | 0.1542 | 0.919 | 0.356 | | 1.80 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.03 | 142.94 | 0.4307 | 56.16 | 1.45 | 2.58% | 2.602 | 0.67 | 129.39 | 2.21 | 1.69 | 163 | 0.485 | 0.782 | 0.98 | 0.000 | 0.387 | 895.27 | 4.439 | 1.806E+05 | 2.030E+06 | 11.24 | 0.1542 | 0.919 | 0.356 | | 2.20 | **3.02** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.10 | 142.92 | 0.4357 | 51.57 | 1.49 | 2.89% | 2.914 | 0.69 | 117.36 | 2.27 | 1.85 | 165 | 0.501 | 0.816 | 0.98 | 0.000 | 0.387 | 899.87 | 4.439 | 1.824E+05 | 2.030E+06 | 11.13 | 0.1542 | 0.920 | 0.356 | | 2.29 | **3.15** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.17 | 142.60 | 0.4407 | 47.17 | 1.47 | 3.12% | 3.146 | 0.70 | 106.03 | 2.32 | 2.01 | 165 | 0.496 | 0.898 | 0.98 | 0.000 | 0.387 | 897.59 | 4.429 | 1.819E+05 | 2.030E+06 | 11.16 | 0.1542 | 0.919 | 0.356 | | 2.52 | **3.47** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.24 | 141.83 | 0.4457 | 43.07 | 1.36 | 3.16% | 3.191 | 0.71 | 95.64 | 2.35 | 2.11 | 159 | 0.451 | 0.900 | 0.98 | 0.000 | 0.387 | 884.43 | 4.405 | 1.776E+05 | 2.030E+06 | 11.43 | 0.1542 | 0.919 | 0.356 | | 2.53 | **3.48** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.30 | 141.28 | 0.4499 | 42.88 | 1.26 | 2.94% | 2.970 | 0.71 | 94.31 | 2.33 | 2.05 | 151 | 0.402 | 0.809 | 0.98 | 0.000 | 0.387 | 871.51 | 4.388 | 1.731E+05 | 2.030E+06 | 11.73 | 0.1542 | 0.918 | 0.355 | | 2.28 | **3.13** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.36 | 140.86 | 0.4541 | 42.88 | 1.19 | 2.78% | 2.805 | 0.70 | 93.42 | 2.32 | 2.00 | 146 | 0.370 | 0.817 | 0.98 | 0.000 | 0.387 | 861.84 | 4.375 | 1.698E+05 | 2.030E+06 | 11.96 | 0.1542 | 0.917 | 0.355 | | 2.30 | **3.16** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.44 | 140.42 | 0.4597 | 49.42 | 1.07 | 2.17% | 2.185 | 0.67 | 106.49 | 2.21 | 1.68 | 137 | 0.318 | 0.647 | 0.98 | 0.000 | 0.387 | 843.86 | 4.361 | 1.633E+05 | 2.030E+06 | 12.43 | 0.1542 | 0.916 | 0.355 | | 1.82 | **2.51** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.48 | 140.28 | 0.4625 | 55.28 | 1.01 | 1.83% | 1.842 | 0.65 | 118.51 | 2.13 | 1.50 | 134 | 0.302 | 0.566 | 0.98 | 0.000 | 0.387 | 834.10 | 4.357 | 1.597E+05 | 2.030E+06 | 12.71 | 0.1542 | 0.915 | 0.354 | | 1.60 | **2.20** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.57 | 139.68 | 0.4688 | 67.39 | 0.87 | 1.29% | 1.300 | 0.60 | 142.74 | 1.97 | 1.27 | 131 | 0.291 | 0.455 | 0.98 | 0.000 | 0.387 | 808.86 | 4.338 | 1.508E+05 | 2.030E+06 | 13.46 | 0.1542 | 0.914 | 0.353 | | 1.29 | **1.77** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.61 | 139.35 | 0.4716 | 69.93 | 0.83 | 1.19% | 1.195 | 0.59 | 147.28 | 1.94 | 1.23 | 131 | 0.289 | 0.453 | 0.98 | 0.000 | 0.387 | 800.89 | 4.328 | 1.482E+05 | 2.030E+06 | 13.70 | 0.1542 | 0.913 | 0.353 | | 1.28 | **1.77** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.69 | 139.19 | 0.4772 | 70.13 | 0.81 | 1.15% | 1.163 | 0.59 | 145.96 | 1.93 | 1.22 | 130 | 0.282 | 0.447 | 0.98 | 0.000 | 0.387 | 796.77 | 4.323 | 1.469E+05 | 2.030E+06 | 13.82 | 0.1542 | 0.913 | 0.353 | | 1.27 | **1.74** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.75 | 139.26 | 0.4814 | 67.39 | 0.83 | 1.23% | 1.240 | 0.60 | 139.00 | 1.97 | 1.26 | 128 | 0.276 | 0.441 | 0.98 | 0.000 | 0.387 | 800.89 | 4.325 | 1.483E+05 | 2.030E+06 | 13.69 | 0.1542 | 0.913 | 0.353 | | 1.25 | **1.72** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.83 | 139.40 | 0.4869 | 62.80 | 0.86 | 1.37% | 1.380 | 0.61 | 127.97 | 2.02 | 1.32 | 126 | 0.267 | 0.474 | 0.98 | 0.000 | 0.387 | 806.90 | 4.329 | 1.504E+05 | 2.030E+06 | 13.50 | 0.1542 | 0.913 | 0.353 | | 1.34 | **1.85** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.90 | 139.77 | 0.4918 | 56.94 | 0.94 | 1.65% | 1.665 | 0.64 | 114.77 | 2.10 | 1.46 | 127 | 0.272 | 0.486 | 0.98 | 0.000 | 0.387 | 821.95 | 4.341 | 1.556E+05 | 2.030E+06 | 13.04 | 0.1542 | 0.915 | 0.354 | | 1.38 | **1.89** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 7.97 | 140.37 | 0.4967 | 50.98 | 1.05 | 2.06% | 2.080 | 0.67 | 101.63 | 2.20 | 1.66 | 132 | 0.294 | 0.577 | 0.98 | 0.000 | 0.386 | 840.67 | 4.359 | 1.621E+05 | 2.030E+06 | 12.52 | 0.1542 | 0.916 | 0.354 | | 1.63 | **2.24** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.02 | 139.84 | 0.5002 | 44.24 | 1.03 | 2.33% | 2.355 | 0.69 | 87.44 | 2.28 | 1.87 | 131 | 0.288 | 0.670 | 0.98 | 0.000 | 0.386 | 837.41 | 4.343 | 1.615E+05 | 2.030E+06 | 12.57 | 0.1542 | 0.916 | 0.354 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.07 | 138.13 | 0.5037 | 41.12 | 0.83 | 2.02% | 2.044 | 0.69 | 80.64 | 2.26 | 1.83 | 117 | 0.230 | 0.585 | 0.98 | 0.000 | 0.386 | 800.89 | 4.290 | 1.495E+05 | 2.030E+06 | 13.58 | 0.1542 | 0.913 | 0.353 | | 1.66 | **2.28** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.15 | 138.25 | 0.5092 | 38.58 | 0.87 | 2.26% | 2.285 | 0.70 | 74.76 | 2.31 | 1.99 | 120 | 0.241 | 0.617 | 0.98 | 0.000 | 0.386 | 808.86 | 4.293 | 1.524E+05 | 2.030E+06 | 13.32 | 0.1542 | 0.914 | 0.353 | | 1.75 | **2.40** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.23 | 138.35 | 0.5148 | 34.28 | 0.91 | 2.65% | 2.695 | 0.73 | 65.59 | 2.40 | 2.30 | 124 | 0.258 | 0.724 | 0.98 | 0.000 | 0.386 | 816.46 | 4.297 | 1.551E+05 | 2.030E+06 | 13.08 | 0.1542 | 0.915 | 0.353 | | 2.05 | **2.82** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.30 | 138.27 | 0.5196 | 32.33 | 0.92 | 2.85% | 2.892 | 0.74 | 61.22 | 2.44 | 2.46 | 126 | 0.265 | 0.746 | 0.98 | 0.000 | 0.386 | 818.31 | 4.294 | 1.559E+05 | 2.030E+06 | 13.02 | 0.1542 | 0.915 | 0.353 | | 2.11 | **2.91** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.35 | 137.96 | 0.5230 | 28.91 | 0.92 | 3.18% | 3.241 | 0.76 | 54.27 | 2.50 | 2.78 | 128 | 0.274 | 0.348 | 0.98 | 0.000 | 0.386 | 818.31 | 4.284 | 1.563E+05 | 2.030E+06 | 12.99 | 0.1542 | 0.915 | 0.353 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.44 | 138.33 | 0.5293 | 36.53 | 0.89 | 2.44% | 2.472 | 0.72 | 68.02 | 2.36 | 2.15 | 121 | 0.244 | 0.636 | 0.98 | 0.000 | 0.386 | 812.70 | 4.296 | 1.537E+05 | 2.030E+06 | 13.20 | 0.1542 | 0.914 | 0.353 | | 1.80 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.48 | 138.33 | 0.5320 | 38.29 | 0.88 | 2.30% | 2.331 | 0.71 | 70.97 | 2.33 | 2.05 | 119 | 0.238 | 0.622 | 0.98 | 0.000 | 0.386 | 810.79 | 4.296 | 1.530E+05 | 2.030E+06 | 13.27 | 0.1542 | 0.914 | 0.353 | | 1.76 | **2.43** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.56 | 138.09 | 0.5376 | 39.95 | 0.84 | 2.10% | 2.131 | 0.70 | 73.32 | 2.29 | 1.93 | 116 | 0.224 | 0.589 | 0.98 | 0.000 | 0.386 | 802.92 | 4.289 | 1.503E+05 | 2.030E+06 | 13.50 | 0.1542 | 0.913 | 0.353 | | 1.67 | **2.30** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.61 | 137.81 | 0.5410 | 40.14 | 0.80 | 1.99% | 2.020 | 0.69 | 73.19 | 2.28 | 1.88 | 113 | 0.213 | 0.562 | 0.98 | 0.000 | 0.386 | 794.67 | 4.280 | 1.476E+05 | 2.030E+06 | 13.76 | 0.1542 | 0.913 | 0.352 | | 1.59 | **2.19** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.68 | 137.46 | 0.5458 | 39.95 | 0.77 | 1.93% | 1.954 | 0.69 | 72.19 | 2.27 | 1.87 | 110 | 0.205 | 0.542 | 0.98 | 0.000 | 0.386 | 788.20 | 4.269 | 1.455E+05 | 2.030E+06 | 13.95 | 0.1542 | 0.912 | 0.352 | | 1.54 | **2.12** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.74 | 137.26 | 0.5499 | 39.46 | 0.75 | 1.90% | 1.928 | 0.69 | 70.75 | 2.27 | 1.87 | 109 | 0.199 | 0.530 | 0.98 | 0.000 | 0.386 | 783.75 | 4.263 | 1.441E+05 | 2.030E+06 | 14.09 | 0.1542 | 0.912 | 0.352 | | 1.51 | **2.07** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.83 | 136.98 | 0.5561 | 37.99 | 0.73 | 1.92% | 1.950 | 0.70 | 67.31 | 2.29 | 1.92 | 107 | 0.194 | 0.519 | 0.98 | 0.000 | 0.386 | 779.18 | 4.254 | 1.427E+05 | 2.030E+06 | 14.22 | 0.1542 | 0.912 | 0.352 | | 1.48 | **2.03** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.86 | 136.89 | 0.5582 | 37.51 | 0.73 | 1.95% | 1.976 | 0.70 | 66.20 | 2.30 | 1.95 | 107 | 0.194 | 0.520 | 0.98 | 0.000 | 0.386 | 779.18 | 4.251 | 1.428E+05 | 2.030E+06 | 14.21 | 0.1542 | 0.912 | 0.352 | | 1.48 | **2.03** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.95 | 136.68 | 0.5643 | 36.63 | 0.71 | 1.94% | 1.969 | 0.70 | 63.91 | 2.31 | 1.98 | 105 | 0.189 | 0.553 | 0.98 | 0.000 | 0.386 | 774.48 | 4.245 | 1.413E+05 | 2.030E+06 | 14.37 | 0.1542 | 0.911 | 0.351 | | 1.57 | **2.17** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 8.99 | 136.68 | 0.5670 | 36.43 | 0.71 | 1.95% | 1.980 | 0.70 | 63.25 | 2.31 | 1.99 | 105 | 0.188 | 0.553 | 0.98 | 0.000 | 0.386 | 774.48 | 4.245 | 1.413E+05 | 2.030E+06 | 14.37 | 0.1542 | 0.911 | 0.351 | | 1.57 | **2.17** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 9.08 | 136.89 | 0.5732 | 36.43 | 0.73 | 2.00% | 2.036 | 0.71 | 62.56 | 2.32 | 2.03 | 106 | 0.192 | 0.566 | 0.98 | 0.000 | 0.385 | 779.18 | 4.251 | 1.428E+05 | 2.030E+06 | 14.21 | 0.1542 | 0.912 | 0.351 | | 1.61 | **2.22** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 9.14 | 137.16 | 0.5773 | 35.55 | 0.77 | 2.17% | 2.202 | 0.71 | 60.58 | 2.35 | 2.14 | 109 | 0.201 | 0.596 | 0.98 | 0.000 | 0.385 | 788.20 | 4.260 | 1.458E+05 | 2.030E+06 | 13.92 | 0.1542 | 0.912 | 0.352 | | 1.70 | **2.33** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 9.19 | 137.32 | 0.5807 | 33.60 | 0.80 | 2.38% | 2.423 | 0.73 | 56.86 | 2.40 | 2.31 | 112 | 0.211 | 0.626 | 0.98 | 0.000 | 0.385 | 794.67 | 4.265 | 1.481E+05 | 2.030E+06 | 13.71 | 0.1542 | 0.913 | 0.352 | | 1.78 | **2.45** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.01 | | |
| 9.28 | 137.72 | 0.5869 | 30.08 | 0.87 | 2.89% | 2.950 | 0.76 | 50.25 | 2.49 | 2.72 | 119 | 0.236 | 0.304 | 0.98 | 0.000 | 0.385 | 808.86 | 4.277 | 1.530E+05 | 2.030E+06 | 13.27 | 0.1542 | 0.914 | 0.352 | | 0.86 | **1.19** | <= | 0.48 | 0.000 | 0.01 | 3.40 | 0.01 | 9.19 | 9.28 |
| 9.33 | 137.82 | 0.5904 | 27.45 | 0.91 | 3.32% | 3.388 | 0.78 | 45.49 | 2.56 | 3.09 | 124 | 0.256 | 0.329 | 0.98 | 0.000 | 0.385 | 816.46 | 4.280 | 1.557E+05 | 2.030E+06 | 13.03 | 0.1542 | 0.915 | 0.352 | | 0.93 | **1.29** | <= | 0.33 | 0.000 | 0.00 | 3.40 | 0.00 | 9.28 | 9.33 |
| 9.39 | 137.85 | 0.5945 | 25.10 | 0.95 | 3.78% | 3.877 | 0.80 | 41.22 | 2.63 | 3.49 | 128 | 0.277 | 0.357 | 0.98 | 0.000 | 0.385 | 823.74 | 4.281 | 1.585E+05 | 2.030E+06 | 12.81 | 0.1542 | 0.915 | 0.352 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 9.46 | 137.08 | 0.5993 | 23.25 | 0.87 | 3.74% | 3.841 | 0.80 | 37.79 | 2.65 | 3.64 | 123 | 0.255 | 0.336 | 0.98 | 0.000 | 0.385 | 808.86 | 4.257 | 1.537E+05 | 2.030E+06 | 13.21 | 0.1542 | 0.914 | 0.352 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 9.55 | 137.41 | 0.6055 | 20.80 | 0.95 | 4.57% | 4.704 | 0.83 | 33.35 | 2.74 | 4.33 | 143 | 0.350 | 0.471 | 0.98 | 0.000 | 0.385 | 823.74 | 4.267 | 1.590E+05 | 2.030E+06 | 12.77 | 0.1542 | 0.915 | 0.352 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 9.60 | 137.19 | 0.6089 | 19.63 | 0.94 | 4.79% | 4.942 | 0.84 | 31.24 | 2.78 | 4.59 | 152 | 0.404 | 0.543 | 0.98 | 0.000 | 0.385 | 821.95 | 4.261 | 1.586E+05 | 2.030E+06 | 12.80 | 0.1542 | 0.915 | 0.352 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 9.68 | 137.00 | 0.6144 | 20.22 | 0.91 | 4.50% | 4.642 | 0.83 | 31.91 | 2.75 | 4.39 | 145 | 0.364 | 0.489 | 0.98 | 0.000 | 0.385 | 816.46 | 4.255 | 1.567E+05 | 2.030E+06 | 12.96 | 0.1542 | 0.915 | 0.352 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 9.73 | 136.91 | 0.6178 | 22.07 | 0.87 | 3.94% | 4.056 | 0.81 | 34.72 | 2.69 | 3.91 | 129 | 0.280 | 0.370 | 0.98 | 0.000 | 0.385 | 808.86 | 4.252 | 1.539E+05 | 2.030E+06 | 13.19 | 0.1542 | 0.914 | 0.352 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 9.81 | 136.17 | 0.6233 | 19.53 | 0.82 | 4.20% | 4.337 | 0.83 | 30.33 | 2.75 | 4.36 | 144 | 0.357 | 0.480 | 0.98 | 0.000 | 0.385 | 798.84 | 4.229 | 1.509E+05 | 2.030E+06 | 13.45 | 0.1542 | 0.914 | 0.351 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 9.90 | 135.51 | 0.6294 | 16.21 | 0.79 | 4.87% | 5.070 | 0.86 | 24.76 | 2.85 | 5.25 | 173 | 0.565 | 0.565 | 0.98 | 0.000 | 0.385 | 792.54 | 4.208 | 1.493E+05 | 2.030E+06 | 13.60 | 0.1542 | 0.913 | 0.351 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 9.94 | 135.64 | 0.6321 | 17.19 | 0.79 | 4.60% | 4.771 | 0.85 | 26.20 | 2.82 | 4.95 | 163 | 0.484 | 0.662 | 0.98 | 0.000 | 0.385 | 792.54 | 4.212 | 1.491E+05 | 2.030E+06 | 13.61 | 0.1542 | 0.913 | 0.351 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 9.99 | 135.55 | 0.6355 | 17.29 | 0.78 | 4.51% | 4.683 | 0.85 | 26.21 | 2.81 | 4.90 | 162 | 0.473 | 0.646 | 0.98 | 0.000 | 0.385 | 790.38 | 4.210 | 1.484E+05 | 2.030E+06 | 13.68 | 0.1542 | 0.913 | 0.351 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.08 | 135.15 | 0.6416 | 17.29 | 0.74 | 4.28% | 4.445 | 0.85 | 26.05 | 2.80 | 4.79 | 158 | 0.447 | 0.610 | 0.98 | 0.002 | 0.386 | 781.48 | 4.197 | 1.455E+05 | 2.030E+06 | 13.95 | 0.1542 | 0.912 | 0.352 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.12 | 135.25 | 0.6443 | 17.29 | 0.75 | 4.34% | 4.506 | 0.85 | 25.99 | 2.80 | 4.82 | 159 | 0.455 | 0.622 | 0.98 | 0.004 | 0.387 | 783.75 | 4.200 | 1.462E+05 | 2.030E+06 | 13.88 | 0.1542 | 0.912 | 0.353 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.17 | 135.30 | 0.6477 | 16.70 | 0.77 | 4.61% | 4.797 | 0.86 | 24.99 | 2.83 | 5.08 | 168 | 0.518 | 0.518 | 0.98 | 0.005 | 0.388 | 788.20 | 4.202 | 1.479E+05 | 2.030E+06 | 13.73 | 0.1542 | 0.913 | 0.354 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.26 | 135.45 | 0.6538 | 15.82 | 0.79 | 4.99% | 5.209 | 0.87 | 23.49 | 2.88 | 5.47 | 180 | 0.626 | 0.626 | 0.98 | 0.008 | 0.389 | 792.54 | 4.207 | 1.493E+05 | 2.030E+06 | 13.60 | 0.1542 | 0.913 | 0.355 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.32 | 135.55 | 0.6578 | 15.24 | 0.82 | 5.38% | 5.623 | 0.88 | 22.51 | 2.91 | 5.80 | 191 | 0.732 | 0.732 | 0.98 | 0.010 | 0.390 | 798.84 | 4.210 | 1.516E+05 | 2.030E+06 | 13.39 | 0.1542 | 0.914 | 0.357 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.40 | 135.81 | 0.6633 | 15.63 | 0.84 | 5.37% | 5.612 | 0.88 | 23.00 | 2.90 | 5.73 | 189 | 0.708 | 0.708 | 0.98 | 0.012 | 0.392 | 802.92 | 4.218 | 1.529E+05 | 2.030E+06 | 13.28 | 0.1542 | 0.914 | 0.358 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.44 | 135.90 | 0.6660 | 15.63 | 0.85 | 5.44% | 5.680 | 0.88 | 22.94 | 2.91 | 5.77 | 190 | 0.721 | 0.721 | 0.98 | 0.014 | 0.392 | 804.92 | 4.221 | 1.535E+05 | 2.030E+06 | 13.22 | 0.1542 | 0.914 | 0.359 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.53 | 136.07 | 0.6721 | 15.63 | 0.87 | 5.57% | 5.816 | 0.88 | 22.82 | 2.92 | 5.85 | 193 | 0.749 | 0.749 | 0.98 | 0.017 | 0.394 | 808.86 | 4.226 | 1.548E+05 | 2.030E+06 | 13.11 | 0.1542 | 0.914 | 0.360 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.57 | 136.14 | 0.6748 | 15.63 | 0.88 | 5.63% | 5.884 | 0.88 | 22.76 | 2.92 | 5.89 | 194 | 0.762 | 0.762 | 0.97 | 0.018 | 0.394 | 810.79 | 4.228 | 1.555E+05 | 2.030E+06 | 13.06 | 0.1542 | 0.915 | 0.361 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.65 | 132.42 | 0.6801 | 15.63 | 0.53 | 3.39% | 3.545 | 0.84 | 22.66 | 2.78 | 4.63 | 153 | 0.411 | 0.563 | 0.97 | 0.020 | 0.396 | 725.02 | 4.112 | 1.278E+05 | 2.030E+06 | 15.88 | 0.1542 | 0.907 | 0.359 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.70 | 133.22 | 0.6834 | 15.82 | 0.59 | 3.73% | 3.898 | 0.85 | 22.88 | 2.80 | 4.81 | 159 | 0.453 | 0.620 | 0.97 | 0.022 | 0.397 | 743.16 | 4.137 | 1.335E+05 | 2.030E+06 | 15.21 | 0.1542 | 0.909 | 0.361 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.76 | 134.00 | 0.6875 | 15.82 | 0.65 | 4.11% | 4.295 | 0.86 | 22.80 | 2.83 | 5.05 | 167 | 0.511 | 0.511 | 0.97 | 0.024 | 0.398 | 759.54 | 4.162 | 1.386E+05 | 2.030E+06 | 14.64 | 0.1542 | 0.911 | 0.362 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.84 | 135.04 | 0.6929 | 16.90 | 0.74 | 4.38% | 4.566 | 0.86 | 24.31 | 2.83 | 5.02 | 166 | 0.503 | 0.503 | 0.97 | 0.026 | 0.399 | 781.48 | 4.194 | 1.456E+05 | 2.030E+06 | 13.94 | 0.1542 | 0.912 | 0.364 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.93 | 136.30 | 0.6990 | 18.56 | 0.85 | 4.58% | 4.759 | 0.85 | 26.66 | 2.81 | 4.87 | 161 | 0.466 | 0.630 | 0.97 | 0.029 | 0.400 | 804.92 | 4.233 | 1.531E+05 | 2.030E+06 | 13.26 | 0.1542 | 0.914 | 0.366 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 10.97 | 136.61 | 0.7017 | 16.60 | 0.92 | 5.54% | 5.787 | 0.88 | 23.68 | 2.90 | 5.71 | 189 | 0.703 | 0.703 | 0.97 | 0.030 | 0.401 | 818.31 | 4.243 | 1.578E+05 | 2.030E+06 | 12.86 | 0.1542 | 0.915 | 0.367 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.04 | 137.91 | 0.7066 | 20.41 | 1.02 | 5.00% | 5.177 | 0.85 | 29.23 | 2.81 | 4.83 | 159 | 0.457 | 0.608 | 0.97 | 0.032 | 0.402 | 835.76 | 4.283 | 1.631E+05 | 2.030E+06 | 12.45 | 0.1542 | 0.916 | 0.368 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.12 | 138.90 | 0.7121 | 22.27 | 1.14 | 5.12% | 5.288 | 0.84 | 31.84 | 2.79 | 4.67 | 154 | 0.419 | 0.558 | 0.97 | 0.035 | 0.403 | 854.58 | 4.314 | 1.693E+05 | 2.030E+06 | 11.99 | 0.1542 | 0.917 | 0.370 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.18 | 139.39 | 0.7163 | 23.25 | 1.20 | 5.16% | 5.325 | 0.84 | 33.16 | 2.78 | 4.58 | 151 | 0.401 | 0.524 | 0.97 | 0.037 | 0.404 | 863.26 | 4.329 | 1.721E+05 | 2.030E+06 | 11.79 | 0.1542 | 0.918 | 0.371 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.25 | 140.21 | 0.7212 | 25.69 | 1.30 | 5.06% | 5.206 | 0.83 | 36.60 | 2.74 | 4.29 | 146 | 0.371 | 0.475 | 0.97 | 0.039 | 0.405 | 876.80 | 4.354 | 1.766E+05 | 2.030E+06 | 11.50 | 0.1542 | 0.919 | 0.372 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.32 | 140.90 | 0.7261 | 28.13 | 1.38 | 4.91% | 5.036 | 0.82 | 40.01 | 2.70 | 4.02 | 149 | 0.388 | 0.497 | 0.97 | 0.041 | 0.406 | 886.90 | 4.376 | 1.798E+05 | 2.030E+06 | 11.29 | 0.1542 | 0.919 | 0.374 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.35 | 141.18 | 0.7283 | 28.81 | 1.42 | 4.93% | 5.057 | 0.82 | 40.93 | 2.70 | 3.98 | 151 | 0.400 | 0.500 | 0.97 | 0.042 | 0.407 | 891.73 | 4.384 | 1.814E+05 | 2.030E+06 | 11.19 | 0.1542 | 0.919 | 0.374 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.44 | 141.73 | 0.7346 | 30.28 | 1.51 | 4.99% | 5.111 | 0.81 | 42.84 | 2.69 | 3.90 | 155 | 0.426 | 0.533 | 0.97 | 0.045 | 0.408 | 902.13 | 4.402 | 1.849E+05 | 2.030E+06 | 10.98 | 0.1542 | 0.920 | 0.376 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.49 | 141.89 | 0.7382 | 30.77 | 1.54 | 5.00% | 5.128 | 0.81 | 43.42 | 2.68 | 3.88 | 156 | 0.434 | 0.544 | 0.97 | 0.046 | 0.409 | 905.45 | 4.407 | 1.861E+05 | 2.030E+06 | 10.91 | 0.1542 | 0.920 | 0.376 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.57 | 142.42 | 0.7439 | 31.94 | 1.63 | 5.10% | 5.225 | 0.81 | 44.89 | 2.68 | 3.85 | 160 | 0.463 | 0.566 | 0.97 | 0.049 | 0.410 | 915.06 | 4.423 | 1.893E+05 | 2.030E+06 | 10.72 | 0.1542 | 0.921 | 0.378 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.62 | 142.65 | 0.7474 | 32.52 | 1.67 | 5.14% | 5.256 | 0.81 | 45.59 | 2.68 | 3.83 | 162 | 0.475 | 0.581 | 0.97 | 0.051 | 0.411 | 919.16 | 4.430 | 1.907E+05 | 2.030E+06 | 10.64 | 0.1542 | 0.921 | 0.378 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.71 | 142.52 | 0.7539 | 33.60 | 1.62 | 4.82% | 4.932 | 0.80 | 46.89 | 2.65 | 3.64 | 158 | 0.447 | 0.547 | 0.97 | 0.053 | 0.412 | 914.02 | 4.426 | 1.888E+05 | 2.030E+06 | 10.75 | 0.1542 | 0.921 | 0.379 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |

**LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA** TEST LOCATION: **CPT-2**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 Unit Tributary Area, A (ft$^2$): 45.83 Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 Magnitude: 6.62 Magnitude Scaling Factor: 1.38 Discrete Coumn Dia. (ft): 3.0 Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft$^2$): 7.07 $A_R = A_{sc}/A$: 0.154 Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet Accleration: 0.606 g's Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec$^2$)/ft$^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.76 | 142.09 | 0.7574 | 30.96 | 1.57 | 5.07% | 5.198 | 0.82 | 42.99 | 2.69 | 3.93 | 157 | 0.440 | 0.552 | 0.97 | 0.055 | 0.413 | 908.72 | 4.413 | 1.871E+05 | 2.030E+06 | 10.85 | 0.1542 | 0.920 | 0.380 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.84 | 142.24 | 0.7631 | 39.85 | 1.48 | 3.71% | 3.786 | 0.76 | 55.39 | 2.52 | 2.87 | 145 | 0.365 | 0.436 | 0.97 | 0.057 | 0.414 | 898.73 | 4.417 | 1.828E+05 | 2.030E+06 | 11.10 | 0.1542 | 0.920 | 0.381 | | 1.14 | **1.57** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.88 | 141.97 | 0.7659 | 42.19 | 1.40 | 3.32% | 3.380 | 0.75 | 58.57 | 2.47 | 2.62 | 139 | 0.332 | 0.384 | 0.97 | 0.059 | 0.415 | 889.33 | 4.409 | 1.794E+05 | 2.030E+06 | 11.32 | 0.1542 | 0.919 | 0.381 | | 1.01 | **1.39** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 11.96 | 141.67 | 0.7716 | 48.25 | 1.28 | 2.65% | 2.696 | 0.72 | 66.83 | 2.36 | 2.17 | 130 | 0.285 | 0.641 | 0.97 | 0.061 | 0.416 | 874.17 | 4.400 | 1.737E+05 | 2.030E+06 | 11.69 | 0.1542 | 0.918 | 0.382 | | 1.68 | **2.31** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.02 | 141.36 | 0.7758 | 53.23 | 1.19 | 2.24% | 2.269 | 0.69 | 73.59 | 2.28 | 1.90 | 124 | 0.259 | 0.584 | 0.97 | 0.063 | 0.417 | 861.84 | 4.390 | 1.692E+05 | 2.030E+06 | 12.00 | 0.1542 | 0.917 | 0.382 | | 1.53 | **2.10** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.08 | 140.90 | 0.7801 | 57.92 | 1.09 | 1.88% | 1.908 | 0.67 | 79.90 | 2.21 | 1.69 | 119 | 0.238 | 0.500 | 0.97 | 0.065 | 0.417 | 846.99 | 4.376 | 1.639E+05 | 2.030E+06 | 12.38 | 0.1542 | 0.916 | 0.382 | | 1.31 | **1.80** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.15 | 140.15 | 0.7850 | 62.31 | 0.96 | 1.54% | 1.560 | 0.65 | 85.70 | 2.13 | 1.51 | 114 | 0.217 | 0.457 | 0.97 | 0.067 | 0.418 | 825.51 | 4.353 | 1.566E+05 | 2.030E+06 | 12.97 | 0.1542 | 0.915 | 0.383 | | 1.19 | **1.64** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.23 | 139.68 | 0.7906 | 67.00 | 0.87 | 1.30% | 1.314 | 0.63 | 91.83 | 2.06 | 1.39 | 111 | 0.208 | 0.409 | 0.97 | 0.070 | 0.419 | 808.86 | 4.338 | 1.508E+05 | 2.030E+06 | 13.46 | 0.1542 | 0.914 | 0.383 | | 1.07 | **1.47** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.28 | 139.65 | 0.7941 | 68.95 | 0.86 | 1.25% | 1.262 | 0.62 | 94.28 | 2.04 | 1.36 | 111 | 0.209 | 0.412 | 0.97 | 0.071 | 0.420 | 806.90 | 4.337 | 1.501E+05 | 2.030E+06 | 13.52 | 0.1542 | 0.913 | 0.384 | | 1.07 | **1.48** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.37 | 139.63 | 0.8003 | 71.49 | 0.85 | 1.19% | 1.202 | 0.61 | 97.32 | 2.02 | 1.32 | 112 | 0.211 | 0.389 | 0.97 | 0.074 | 0.421 | 804.92 | 4.336 | 1.494E+05 | 2.030E+06 | 13.59 | 0.1542 | 0.913 | 0.385 | | 1.01 | **1.39** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.46 | 139.68 | 0.8066 | 73.15 | 0.85 | 1.16% | 1.175 | 0.61 | 99.12 | 2.00 | 1.31 | 113 | 0.213 | 0.394 | 0.97 | 0.077 | 0.422 | 804.92 | 4.338 | 1.494E+05 | 2.030E+06 | 13.59 | 0.1542 | 0.913 | 0.386 | | 1.02 | **1.41** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.48 | 139.71 | 0.8080 | 74.03 | 0.85 | 1.15% | 1.161 | 0.61 | 100.22 | 2.00 | 1.30 | 113 | 0.215 | 0.397 | 0.97 | 0.077 | 0.423 | 804.92 | 4.339 | 1.493E+05 | 2.030E+06 | 13.59 | 0.1542 | 0.913 | 0.386 | | 1.03 | **1.42** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.56 | 139.72 | 0.8136 | 75.01 | 0.85 | 1.13% | 1.146 | 0.61 | 101.12 | 1.99 | 1.29 | 113 | 0.216 | 0.401 | 0.97 | 0.080 | 0.424 | 804.92 | 4.339 | 1.493E+05 | 2.030E+06 | 13.60 | 0.1542 | 0.913 | 0.387 | | 1.04 | **1.42** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.60 | 139.68 | 0.8164 | 75.21 | 0.84 | 1.12% | 1.129 | 0.60 | 101.18 | 1.99 | 1.28 | 113 | 0.214 | 0.399 | 0.97 | 0.081 | 0.424 | 802.92 | 4.338 | 1.486E+05 | 2.030E+06 | 13.66 | 0.1542 | 0.913 | 0.387 | | 1.03 | **1.42** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.69 | 139.56 | 0.8227 | 75.30 | 0.83 | 1.10% | 1.114 | 0.60 | 100.82 | 1.98 | 1.28 | 113 | 0.212 | 0.396 | 0.97 | 0.084 | 0.425 | 800.89 | 4.334 | 1.480E+05 | 2.030E+06 | 13.72 | 0.1542 | 0.913 | 0.388 | | 1.02 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.73 | 139.48 | 0.8255 | 75.40 | 0.82 | 1.09% | 1.100 | 0.60 | 100.74 | 1.98 | 1.27 | 112 | 0.211 | 0.394 | 0.97 | 0.085 | 0.426 | 798.84 | 4.332 | 1.473E+05 | 2.030E+06 | 13.78 | 0.1542 | 0.913 | 0.389 | | 1.01 | **1.39** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.85 | 139.16 | 0.8338 | 73.94 | 0.79 | 1.07% | 1.081 | 0.60 | 98.14 | 1.98 | 1.28 | 110 | 0.203 | 0.381 | 0.97 | 0.089 | 0.427 | 792.54 | 4.322 | 1.453E+05 | 2.030E+06 | 13.97 | 0.1542 | 0.912 | 0.390 | | 0.98 | **1.34** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.89 | 139.04 | 0.8366 | 73.15 | 0.78 | 1.07% | 1.079 | 0.60 | 96.88 | 1.99 | 1.28 | 109 | 0.200 | 0.376 | 0.97 | 0.090 | 0.428 | 790.38 | 4.318 | 1.447E+05 | 2.030E+06 | 14.03 | 0.1542 | 0.912 | 0.390 | | 0.96 | **1.33** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 12.96 | 138.79 | 0.8415 | 70.91 | 0.76 | 1.07% | 1.085 | 0.61 | 93.54 | 2.00 | 1.30 | 107 | 0.193 | 0.390 | 0.97 | 0.092 | 0.429 | 785.99 | 4.310 | 1.433E+05 | 2.030E+06 | 14.16 | 0.1542 | 0.912 | 0.391 | | 1.00 | **1.37** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.00 | 138.80 | 0.8442 | 69.44 | 0.77 | 1.11% | 1.123 | 0.61 | 91.38 | 2.01 | 1.32 | 106 | 0.192 | 0.387 | 0.97 | 0.094 | 0.429 | 788.20 | 4.311 | 1.441E+05 | 2.030E+06 | 14.09 | 0.1542 | 0.912 | 0.392 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.13 | 139.31 | 0.8533 | 66.51 | 0.83 | 1.25% | 1.264 | 0.63 | 86.89 | 2.06 | 1.39 | 107 | 0.195 | 0.395 | 0.97 | 0.098 | 0.431 | 800.89 | 4.326 | 1.483E+05 | 2.030E+06 | 13.69 | 0.1542 | 0.913 | 0.393 | | 1.00 | **1.38** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.18 | 140.24 | 0.8568 | 66.90 | 0.95 | 1.42% | 1.438 | 0.64 | 87.18 | 2.10 | 1.45 | 112 | 0.212 | 0.432 | 0.97 | 0.099 | 0.432 | 823.74 | 4.355 | 1.558E+05 | 2.030E+06 | 13.03 | 0.1542 | 0.915 | 0.395 | | 1.09 | **1.50** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.22 | 141.05 | 0.8596 | 66.42 | 1.06 | 1.60% | 1.617 | 0.65 | 86.36 | 2.13 | 1.51 | 117 | 0.229 | 0.436 | 0.97 | 0.100 | 0.432 | 842.27 | 4.380 | 1.620E+05 | 2.030E+06 | 12.53 | 0.1542 | 0.916 | 0.396 | | 1.10 | **1.51** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.28 | 141.65 | 0.8639 | 64.95 | 1.16 | 1.79% | 1.810 | 0.66 | 84.15 | 2.17 | 1.60 | 121 | 0.245 | 0.466 | 0.97 | 0.102 | 0.433 | 857.52 | 4.399 | 1.672E+05 | 2.030E+06 | 12.14 | 0.1542 | 0.917 | 0.397 | | 1.18 | **1.62** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.32 | 141.07 | 0.8667 | 64.17 | 1.07 | 1.67% | 1.690 | 0.65 | 82.96 | 2.16 | 1.57 | 117 | 0.228 | 0.465 | 0.97 | 0.104 | 0.433 | 843.86 | 4.381 | 1.625E+05 | 2.030E+06 | 12.49 | 0.1542 | 0.916 | 0.397 | | 1.17 | **1.61** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.40 | 142.26 | 0.8724 | 62.12 | 1.28 | 2.06% | 2.090 | 0.68 | 79.93 | 2.23 | 1.74 | 126 | 0.266 | 0.508 | 0.97 | 0.106 | 0.434 | 874.17 | 4.418 | 1.730E+05 | 2.030E+06 | 11.74 | 0.1542 | 0.918 | 0.399 | | 1.27 | **1.75** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.49 | 143.07 | 0.8788 | 60.36 | 1.44 | 2.39% | 2.421 | 0.69 | 77.26 | 2.28 | 1.89 | 133 | 0.299 | 0.574 | 0.97 | 0.109 | 0.435 | 894.10 | 4.443 | 1.799E+05 | 2.030E+06 | 11.28 | 0.1542 | 0.919 | 0.400 | | 1.44 | **1.97** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.54 | 143.18 | 0.8824 | 60.36 | 1.46 | 2.42% | 2.455 | 0.69 | 77.05 | 2.29 | 1.90 | 134 | 0.304 | 0.583 | 0.97 | 0.110 | 0.436 | 896.43 | 4.447 | 1.807E+05 | 2.030E+06 | 11.23 | 0.1542 | 0.919 | 0.401 | | 1.46 | **2.00** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.62 | 142.95 | 0.8881 | 55.57 | 1.46 | 2.63% | 2.670 | 0.71 | 70.54 | 2.34 | 2.07 | 134 | 0.305 | 0.629 | 0.97 | 0.113 | 0.437 | 896.43 | 4.439 | 1.810E+05 | 2.030E+06 | 11.21 | 0.1542 | 0.919 | 0.401 | | 1.57 | **2.16** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.67 | 143.30 | 0.8917 | 71.30 | 1.41 | 1.98% | 2.003 | 0.66 | 90.59 | 2.18 | 1.61 | 132 | 0.295 | 0.493 | 0.97 | 0.115 | 0.437 | 890.54 | 4.450 | 1.782E+05 | 2.030E+06 | 11.39 | 0.1542 | 0.919 | 0.402 | | 1.23 | **1.69** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.72 | 143.15 | 0.8953 | 75.40 | 1.35 | 1.79% | 1.812 | 0.65 | 95.62 | 2.13 | 1.51 | 131 | 0.287 | 0.481 | 0.97 | 0.116 | 0.438 | 883.18 | 4.446 | 1.755E+05 | 2.030E+06 | 11.57 | 0.1542 | 0.918 | 0.402 | | 1.20 | **1.65** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.80 | 142.74 | 0.9010 | 87.80 | 1.22 | 1.39% | 1.404 | 0.61 | 111.06 | 2.01 | 1.31 | 130 | 0.287 | 0.410 | 0.97 | 0.119 | 0.439 | 866.05 | 4.433 | 1.692E+05 | 2.030E+06 | 12.00 | 0.1542 | 0.917 | 0.402 | | 1.02 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.86 | 142.20 | 0.9053 | 91.71 | 1.11 | 1.21% | 1.222 | 0.60 | 115.70 | 1.96 | 1.25 | 129 | 0.279 | 0.400 | 0.97 | 0.120 | 0.439 | 850.07 | 4.416 | 1.636E+05 | 2.030E+06 | 12.41 | 0.1542 | 0.916 | 0.403 | | 0.99 | **1.37** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.94 | 141.47 | 0.9109 | 95.42 | 0.99 | 1.04% | 1.048 | 0.58 | 119.94 | 1.90 | 1.19 | 127 | 0.271 | 0.390 | 0.97 | 0.123 | 0.440 | 830.71 | 4.393 | 1.571E+05 | 2.030E+06 | 12.92 | 0.1542 | 0.915 | 0.403 | | 0.97 | **1.33** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 13.98 | 141.20 | 0.9137 | 97.38 | 0.95 | 0.98% | 0.985 | 0.57 | 122.18 | 1.88 | 1.17 | 127 | 0.270 | 0.390 | 0.97 | 0.124 | 0.441 | 823.74 | 4.385 | 1.547E+05 | 2.030E+06 | 13.12 | 0.1542 | 0.914 | 0.403 | | 0.97 | **1.33** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.04 | 141.18 | 0.9180 | 100.60 | 0.94 | 0.93% | 0.943 | 0.57 | 125.87 | 1.86 | 1.15 | 129 | 0.278 | 0.366 | 0.97 | 0.126 | 0.441 | 821.95 | 4.384 | 1.541E+05 | 2.030E+06 | 13.17 | 0.1542 | 0.914 | 0.404 | | 0.91 | **1.25** | <= | 0.29 | 0.002 | 0.00 | 3.40 | 0.00 | 13.98 | 14.04 |
| 14.12 | 141.37 | 0.9236 | 104.21 | 0.95 | 0.91% | 0.920 | 0.56 | 129.91 | 1.84 | 1.14 | 131 | 0.290 | 0.384 | 0.97 | 0.129 | 0.442 | 823.74 | 4.390 | 1.546E+05 | 2.030E+06 | 13.13 | 0.1542 | 0.914 | 0.404 | | 0.95 | **1.31** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.19 | 141.70 | 0.9286 | 110.27 | 0.98 | 0.89% | 0.896 | 0.55 | 137.04 | 1.81 | 1.12 | 136 | 0.314 | 0.374 | 0.97 | 0.131 | 0.443 | 829.00 | 4.401 | 1.562E+05 | 2.030E+06 | 13.00 | 0.1542 | 0.915 | 0.405 | | 0.92 | **1.27** | <= | 0.29 | 0.002 | 0.00 | 3.40 | 0.00 | 14.12 | 14.19 |
| 14.25 | 142.01 | 0.9328 | 116.32 | 1.00 | 0.86% | 0.867 | 0.54 | 144.19 | 1.79 | 1.10 | 141 | 0.338 | 0.353 | 0.97 | 0.133 | 0.444 | 832.41 | 4.410 | 1.571E+05 | 2.030E+06 | 12.92 | 0.1542 | 0.915 | 0.406 | | 0.87 | **1.20** | <= | 0.44 | 0.003 | 0.00 | 3.40 | 0.00 | 14.19 | 14.25 |
| 14.33 | 142.62 | 0.9385 | 126.97 | 1.06 | 0.83% | 0.841 | 0.53 | 156.86 | 1.75 | 1.07 | 149 | 0.389 | 0.389 | 0.97 | 0.135 | 0.445 | 842.27 | 4.429 | 1.602E+05 | 2.030E+06 | 12.67 | 0.1542 | 0.916 | 0.407 | | 0.96 | **1.32** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.38 | 143.08 | 0.9421 | 137.23 | 1.10 | 0.80% | 0.807 | 0.52 | 169.20 | 1.72 | 1.05 | 157 | 0.441 | 0.441 | 0.97 | 0.137 | 0.445 | 848.54 | 4.443 | 1.620E+05 | 2.030E+06 | 12.53 | 0.1542 | 0.916 | 0.408 | | 1.08 | **1.49** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.44 | 143.51 | 0.9464 | 147.19 | 1.14 | 0.77% | 0.780 | 0.51 | 181.02 | 1.68 | 1.03 | 164 | 0.494 | 0.494 | 0.97 | 0.139 | 0.446 | 854.58 | 4.457 | 1.639E+05 | 2.030E+06 | 12.39 | 0.1542 | 0.916 | 0.408 | | 1.21 | **1.66** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.52 | 143.98 | 0.9522 | 155.98 | 1.19 | 0.76% | 0.768 | 0.51 | 191.12 | 1.66 | 1.01 | 171 | 0.546 | 0.546 | 0.97 | 0.141 | 0.446 | 861.84 | 4.471 | 1.661E+05 | 2.030E+06 | 12.22 | 0.1542 | 0.917 | 0.409 | | 1.33 | **1.84** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.60 | 144.54 | 0.9580 | 166.04 | 1.26 | 0.76% | 0.763 | 0.50 | 202.69 | 1.64 | 1.00 | 179 | 0.613 | 0.613 | 0.97 | 0.144 | 0.447 | 871.51 | 4.489 | 1.692E+05 | 2.030E+06 | 12.00 | 0.1542 | 0.917 | 0.410 | | 1.49 | **2.05** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.65 | 144.82 | 0.9616 | 169.46 | 1.30 | 0.77% | 0.772 | 0.50 | 206.36 | 1.64 | 1.00 | 183 | 0.649 | 0.649 | 0.97 | 0.145 | 0.448 | 876.80 | 4.498 | 1.709E+05 | 2.030E+06 | 11.88 | 0.1542 | 0.918 | 0.411 | | 1.58 | **2.17** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.71 | 145.13 | 0.9659 | 174.05 | 1.34 | 0.77% | 0.774 | 0.50 | 211.34 | 1.63 | 1.00 | 188 | 0.693 | 0.693 | 0.97 | 0.147 | 0.448 | 881.92 | 4.507 | 1.726E+05 | 2.030E+06 | 11.76 | 0.1542 | 0.918 | 0.412 | | 1.68 | **2.32** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.77 | 145.46 | 0.9703 | 178.05 | 1.39 | 0.78% | 0.785 | 0.50 | 215.56 | 1.63 | 1.00 | 192 | 0.734 | 0.734 | 0.96 | 0.149 | 0.449 | 888.12 | 4.517 | 1.746E+05 | 2.030E+06 | 11.63 | 0.1542 | 0.918 | 0.412 | | 1.78 | **2.45** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.83 | 145.74 | 0.9747 | 180.88 | 1.44 | 0.80% | 0.800 | 0.50 | 218.34 | 1.63 | 1.00 | 194 | 0.763 | 0.763 | 0.96 | 0.151 | 0.450 | 894.10 | 4.526 | 1.766E+05 | 2.030E+06 | 11.49 | 0.1542 | 0.919 | 0.413 | | 1.85 | **2.54** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.92 | 146.12 | 0.9813 | 187.52 | 1.50 | 0.80% | 0.804 | 0.50 | 225.36 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.154 | 0.450 | 901.00 | 4.538 | 1.789E+05 | 2.030E+06 | 11.35 | 0.1542 | 0.919 | 0.414 | | 1.99 | **2.74** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 14.96 | 146.30 | 0.9842 | 189.87 | 1.53 | 0.81% | 0.810 | 0.50 | 227.73 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.155 | 0.451 | 904.35 | 4.543 | 1.800E+05 | 2.030E+06 | 11.28 | 0.1542 | 0.919 | 0.414 | | 1.99 | **2.74** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.03 | 146.55 | 0.9893 | 192.02 | 1.57 | 0.82% | 0.822 | 0.50 | 229.50 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.157 | 0.451 | 908.72 | 4.551 | 1.814E+05 | 2.030E+06 | 11.19 | 0.1542 | 0.919 | 0.415 | | 1.99 | **2.73** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.10 | 146.66 | 0.9944 | 193.19 | 1.59 | 0.82% | 0.827 | 0.50 | 230.08 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.159 | 0.452 | 910.86 | 4.555 | 1.822E+05 | 2.030E+06 | 11.14 | 0.1542 | 0.920 | 0.416 | | 1.98 | **2.73** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.19 | 146.71 | 1.0010 | 195.83 | 1.60 | 0.82% | 0.821 | 0.50 | 232.18 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.162 | 0.453 | 911.92 | 4.556 | 1.825E+05 | 2.030E+06 | 11.12 | 0.1542 | 0.920 | 0.417 | | 1.98 | **2.72** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.23 | 146.79 | 1.0040 | 196.80 | 1.62 | 0.82% | 0.827 | 0.50 | 232.87 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.163 | 0.453 | 914.02 | 4.559 | 1.833E+05 | 2.030E+06 | 11.08 | 0.1542 | 0.920 | 0.417 | | 1.98 | **2.72** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.31 | 147.07 | 1.0099 | 197.19 | 1.68 | 0.85% | 0.856 | 0.50 | 232.39 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.166 | 0.454 | 920.17 | 4.567 | 1.854E+05 | 2.030E+06 | 10.95 | 0.1542 | 0.920 | 0.418 | | 1.97 | **2.71** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.40 | 147.08 | 1.0165 | 196.32 | 1.68 | 0.86% | 0.860 | 0.50 | 230.31 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.168 | 0.455 | 920.17 | 4.568 | 1.854E+05 | 2.030E+06 | 10.95 | 0.1542 | 0.920 | 0.419 | | 1.97 | **2.71** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.44 | 147.09 | 1.0194 | 195.92 | 1.68 | 0.86% | 0.862 | 0.50 | 229.38 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.170 | 0.455 | 920.17 | 4.568 | 1.854E+05 | 2.030E+06 | 10.95 | 0.1542 | 0.920 | 0.419 | | 1.97 | **2.71** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.53 | 147.13 | 1.0260 | 194.07 | 1.70 | 0.88% | 0.881 | 0.50 | 226.18 | 1.64 | 1.00 | 200 | 0.820 | 0.820 | 0.96 | 0.173 | 0.456 | 922.18 | 4.569 | 1.861E+05 | 2.030E+06 | 10.91 | 0.1542 | 0.920 | 0.420 | | 1.95 | **2.69** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.58 | 147.17 | 1.0297 | 192.90 | 1.71 | 0.89% | 0.891 | 0.50 | 224.24 | 1.65 | 1.00 | 200 | 0.829 | 0.829 | 0.96 | 0.174 | 0.457 | 923.17 | 4.571 | 1.865E+05 | 2.030E+06 | 10.89 | 0.1542 | 0.920 | 0.420 | | 1.97 | **2.72** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.63 | 146.43 | 1.0334 | 192.31 | 1.55 | 0.81% | 0.810 | 0.50 | 223.00 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.176 | 0.457 | 906.55 | 4.548 | 1.807E+05 | 2.030E+06 | 11.23 | 0.1542 | 0.919 | 0.420 | | 1.96 | **2.70** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.70 | 144.88 | 1.0385 | 190.65 | 1.26 | 0.66% | 0.665 | 0.50 | 220.32 | 1.57 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.178 | 0.458 | 871.51 | 4.499 | 1.688E+05 | 2.030E+06 | 12.03 | 0.1542 | 0.917 | 0.420 | | 1.96 | **2.70** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.75 | 145.26 | 1.0421 | 189.09 | 1.33 | 0.70% | 0.707 | 0.50 | 217.98 | 1.59 | 1.00 | 199 | 0.808 | 0.808 | 0.96 | 0.179 | 0.458 | 880.66 | 4.511 | 1.719E+05 | 2.030E+06 | 11.81 | 0.1542 | 0.918 | 0.420 | | 1.92 | **2.64** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.85 | 145.53 | 1.0494 | 187.62 | 1.38 | 0.74% | 0.740 | 0.50 | 215.23 | 1.60 | 1.00 | 196 | 0.786 | 0.786 | 0.96 | 0.183 | 0.459 | 886.90 | 4.520 | 1.740E+05 | 2.030E+06 | 11.66 | 0.1542 | 0.918 | 0.421 | | 1.86 | **2.57** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.89 | 145.50 | 1.0523 | 186.84 | 1.38 | 0.74% | 0.743 | 0.50 | 213.92 | 1.61 | 1.00 | 195 | 0.775 | 0.775 | 0.96 | 0.184 | 0.459 | 886.90 | 4.519 | 1.741E+05 | 2.030E+06 | 11.66 | 0.1542 | 0.918 | 0.422 | | 1.84 | **2.53** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 15.96 | 145.34 | 1.0574 | 180.69 | 1.36 | 0.75% | 0.757 | 0.50 | 206.14 | 1.62 | 1.00 | 189 | 0.705 | 0.705 | 0.96 | 0.186 | 0.460 | 884.43 | 4.514 | 1.733E+05 | 2.030E+06 | 11.71 | 0.1542 | 0.918 | 0.422 | | 1.67 | **2.30** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.03 | 145.29 | 1.0624 | 180.74 | 1.35 | 0.75% | 0.751 | 0.50 | 205.51 | 1.62 | 1.00 | 188 | 0.702 | 0.702 | 0.96 | 0.188 | 0.460 | 883.18 | 4.512 | 1.729E+05 | 2.030E+06 | 11.74 | 0.1542 | 0.918 | 0.423 | | 1.66 | **2.29** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.09 | 145.41 | 1.0668 | 180.74 | 1.38 | 0.76% | 0.768 | 0.50 | 204.92 | 1.63 | 1.00 | 188 | 0.699 | 0.699 | 0.96 | 0.190 | 0.461 | 886.90 | 4.516 | 1.742E+05 | 2.030E+06 | 11.65 | 0.1542 | 0.918 | 0.423 | | 1.65 | **2.27** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.16 | 145.69 | 1.0719 | 180.79 | 1.43 | 0.79% | 0.796 | 0.50 | 204.29 | 1.64 | 1.00 | 188 | 0.697 | 0.697 | 0.96 | 0.192 | 0.462 | 892.92 | 4.525 | 1.762E+05 | 2.030E+06 | 11.52 | 0.1542 | 0.919 | 0.424 | | 1.64 | **2.26** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.21 | 145.91 | 1.0756 | 181.57 | 1.47 | 0.81% | 0.814 | 0.50 | 204.69 | 1.64 | 1.00 | 188 | 0.703 | 0.703 | 0.96 | 0.194 | 0.462 | 897.59 | 4.531 | 1.778E+05 | 2.030E+06 | 11.42 | 0.1542 | 0.919 | 0.424 | | 1.66 | **2.28** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.28 | 146.17 | 1.0807 | 183.03 | 1.52 | 0.83% | 0.835 | 0.50 | 205.65 | 1.65 | 1.00 | 190 | 0.723 | 0.723 | 0.96 | 0.196 | 0.463 | 903.24 | 4.539 | 1.797E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.425 | | 1.70 | **2.34** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.36 | 146.39 | 1.0865 | 184.30 | 1.56 | 0.85% | 0.851 | 0.50 | 206.30 | 1.65 | 1.01 | 192 | 0.739 | 0.739 | 0.96 | 0.198 | 0.463 | 907.64 | 4.546 | 1.812E+05 | 2.030E+06 | 11.20 | 0.1542 | 0.919 | 0.426 | | 1.73 | **2.39** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.42 | 146.57 | 1.0909 | 185.57 | 1.60 | 0.86% | 0.867 | 0.51 | 207.14 | 1.66 | 1.01 | 194 | 0.755 | 0.755 | 0.96 | 0.200 | 0.464 | 911.92 | 4.552 | 1.827E+05 | 2.030E+06 | 11.11 | 0.1542 | 0.920 | 0.426 | | 1.77 | **2.44** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.47 | 146.79 | 1.0946 | 187.04 | 1.64 | 0.88% | 0.882 | 0.51 | 208.29 | 1.66 | 1.01 | 195 | 0.774 | 0.774 | 0.96 | 0.202 | 0.464 | 916.10 | 4.559 | 1.841E+05 | 2.030E+06 | 11.03 | 0.1542 | 0.920 | 0.427 | | 1.81 | **2.49** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.57 | 147.06 | 1.1019 | 189.87 | 1.69 | 0.89% | 0.895 | 0.51 | 210.45 | 1.66 | 1.01 | 198 | 0.801 | 0.801 | 0.96 | 0.205 | 0.465 | 921.18 | 4.567 | 1.858E+05 | 2.030E+06 | 10.93 | 0.1542 | 0.920 | 0.428 | | 1.87 | **2.58** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.61 | 147.23 | 1.1049 | 191.82 | 1.73 | 0.90% | 0.907 | 0.51 | 212.22 | 1.66 | 1.01 | 200 | 0.824 | 0.824 | 0.96 | 0.206 | 0.465 | 925.13 | 4.572 | 1.872E+05 | 2.030E+06 | 10.84 | 0.1542 | 0.920 | 0.428 | | 1.92 | **2.65** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.68 | 147.44 | 1.1101 | 194.85 | 1.77 | 0.91% | 0.914 | 0.51 | 214.88 | 1.66 | 1.01 | 202 | 0.849 | 0.849 | 0.96 | 0.208 | 0.466 | 929.00 | 4.579 | 1.885E+05 | 2.030E+06 | 10.77 | 0.1542 | 0.920 | 0.429 | | 1.98 | **2.73** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.74 | 147.54 | 1.1145 | 196.90 | 1.79 | 0.91% | 0.914 | 0.51 | 216.53 | 1.66 | 1.01 | 202 | 0.845 | 0.845 | 0.96 | 0.210 | 0.466 | 930.90 | 4.582 | 1.891E+05 | 2.030E+06 | 10.73 | 0.1542 | 0.921 | 0.429 | | 1.97 | **2.71** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.80 | 147.71 | 1.1189 | 199.25 | 1.82 | 0.91% | 0.919 | 0.51 | 218.51 | 1.66 | 1.01 | 202 | 0.843 | 0.843 | 0.96 | 0.212 | 0.467 | 933.71 | 4.587 | 1.901E+05 | 2.030E+06 | 10.68 | 0.1542 | 0.921 | 0.430 | | 1.96 | **2.70** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.88 | 147.91 | 1.1248 | 200.71 | 1.87 | 0.93% | 0.937 | 0.51 | 219.28 | 1.66 | 1.01 | 202 | 0.850 | 0.850 | 0.96 | 0.215 | 0.467 | 938.30 | 4.593 | 1.917E+05 | 2.030E+06 | 10.59 | 0.1542 | 0.921 | 0.430 | | 1.97 | **2.72** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 16.96 | 148.16 | 1.1308 | 202.76 | 1.93 | 0.95% | 0.957 | 0.51 | 220.70 | 1.67 | 1.01 | 203 | 0.856 | 0.856 | 0.96 | 0.217 | 0.468 | 943.64 | 4.601 | 1.935E+05 | 2.030E+06 | 10.49 | 0.1542 | 0.921 | 0.431 | | 1.99 | **2.73** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.01 | 148.30 | 1.1345 | 203.74 | 1.96 | 0.96% | 0.967 | 0.51 | 221.25 | 1.67 | 1.02 | 203 | 0.860 | 0.860 | 0.96 | 0.219 | 0.468 | 946.25 | 4.606 | 1.944E+05 | 2.030E+06 | 10.44 | 0.1542 | 0.921 | 0.431 | | 1.99 | **2.74** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.09 | 148.65 | 1.1404 | 204.52 | 2.05 | 1.00% | 1.008 | 0.51 | 221.26 | 1.68 | 1.02 | 205 | 0.879 | 0.879 | 0.96 | 0.221 | 0.469 | 953.84 | 4.616 | 1.971E+05 | 2.030E+06 | 10.30 | 0.1542 | 0.922 | 0.432 | | 2.03 | **2.80** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.15 | 148.87 | 1.1449 | 203.84 | 2.12 | 1.04% | 1.046 | 0.52 | 219.89 | 1.69 | 1.03 | 207 | 0.900 | 0.900 | 0.96 | 0.223 | 0.469 | 959.52 | 4.623 | 1.991E+05 | 2.030E+06 | 10.19 | 0.1542 | 0.922 | 0.433 | | 2.08 | **2.86** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.21 | 149.39 | 1.1494 | 203.84 | 2.27 | 1.11% | 1.120 | 0.52 | 219.27 | 1.72 | 1.05 | 210 | 0.936 | 0.936 | 0.96 | 0.225 | 0.470 | 971.09 | 4.639 | 2.033E+05 | 2.030E+06 | 9.99 | 0.1542 | 0.923 | 0.433 | | 2.16 | **2.97** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.26 | 149.73 | 1.1531 | 203.84 | 2.38 | 1.17% | 1.174 | 0.53 | 218.75 | 1.73 | 1.06 | 212 | 0.962 | 0.962 | 0.96 | 0.227 | 0.470 | 979.09 | 4.650 | 2.062E+05 | 2.030E+06 | 9.85 | 0.1542 | 0.923 | 0.434 | | 2.22 | **3.05** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.36 | 150.24 | 1.1606 | 205.98 | 2.55 | 1.24% | 1.245 | 0.53 | 220.00 | 1.75 | 1.07 | 214 | 0.990 | 0.990 | 0.96 | 0.230 | 0.471 | 990.76 | 4.666 | 2.104E+05 | 2.030E+06 | 9.65 | 0.1542 | 0.924 | 0.435 | | 2.28 | **3.13** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.41 | 150.46 | 1.1644 | 207.35 | 2.62 | 1.26% | 1.271 | 0.53 | 220.95 | 1.75 | 1.07 | 215 | 0.999 | 0.999 | 0.96 | 0.231 | 0.471 | 995.35 | 4.673 | 2.120E+05 | 2.030E+06 | 9.57 | 0.1542 | 0.925 | 0.436 | | 2.29 | **3.16** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.46 | 150.70 | 1.1681 | 208.72 | 2.70 | 1.29% | 1.301 | 0.54 | 221.89 | 1.76 | 1.08 | 215 | 1.010 | 1.010 | 0.96 | 0.233 | 0.472 | 1000.43 | 4.680 | 2.139E+05 | 2.030E+06 | 9.49 | 0.1542 | 0.925 | 0.436 | | 2.32 | **3.19** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.53 | 151.04 | 1.1734 | 210.09 | 2.82 | 1.34% | 1.350 | 0.54 | 222.61 | 1.77 | 1.08 | 217 | 1.030 | 1.030 | 0.96 | 0.235 | 0.472 | 1007.79 | 4.691 | 2.165E+05 | 2.030E+06 | 9.38 | 0.1542 | 0.926 | 0.437 | | 2.36 | **3.24** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.59 | 151.30 | 1.1780 | 211.65 | 2.92 | 1.38% | 1.387 | 0.54 | 223.63 | 1.78 | 1.09 | 218 | 1.043 | 1.043 | 0.96 | 0.237 | 0.472 | 1013.68 | 4.699 | 2.187E+05 | 2.030E+06 | 9.28 | 0.1542 | 0.926 | 0.438 | | 2.38 | **3.28** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.67 | 151.47 | 1.1840 | 211.94 | 2.98 | 1.41% | 1.414 | 0.54 | 223.09 | 1.78 | 1.09 | 219 | 1.055 | 1.055 | 0.96 | 0.239 | 0.473 | 1017.12 | 4.704 | 2.199E+05 | 2.030E+06 | 9.23 | 0.1542 | 0.926 | 0.438 | | 2.41 | **3.31** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.72 | 151.57 | 1.1878 | 211.94 | 3.03 | 1.43% | 1.438 | 0.54 | 222.56 | 1.79 | 1.10 | 220 | 1.067 | 1.067 | 0.96 | 0.241 | 0.473 | 1019.94 | 4.707 | 2.210E+05 | 2.030E+06 | 9.19 | 0.1542 | 0.926 | 0.439 | | 2.43 | **3.35** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.81 | 151.63 | 1.1946 | 210.38 | 3.06 | 1.45% | 1.463 | 0.55 | 219.97 | 1.80 | 1.10 | 221 | 1.083 | 1.083 | 0.96 | 0.244 | 0.474 | 1021.61 | 4.709 | 2.216E+05 | 2.030E+06 | 9.16 | 0.1542 | 0.927 | 0.439 | | 2.47 | **3.39** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.86 | 151.54 | 1.1984 | 208.04 | 3.03 | 1.46% | 1.465 | 0.55 | 217.00 | 1.80 | 1.11 | 222 | 1.091 | 1.091 | 0.96 | 0.245 | 0.474 | 1019.94 | 4.706 | 2.210E+05 | 2.030E+06 | 9.18 | 0.1542 | 0.927 | 0.439 | | 2.48 | **3.42** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.95 | 151.30 | 1.2052 | 202.47 | 2.96 | 1.46% | 1.471 | 0.55 | 210.27 | 1.81 | 1.11 | 223 | 1.110 | 1.110 | 0.96 | 0.248 | 0.475 | 1015.99 | 4.699 | 2.197E+05 | 2.030E+06 | 9.24 | 0.1542 | 0.926 | 0.440 | | 2.52 | **3.47** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 17.99 | 151.29 | 1.2083 | 207.79 | 2.93 | 1.41% | 1.418 | 0.55 | 215.42 | 1.79 | 1.10 | 220 | 1.072 | 1.072 | 0.96 | 0.249 | 0.475 | 1014.26 | 4.698 | 2.190E+05 | 2.030E+06 | 9.27 | 0.1542 | 0.926 | 0.440 | | 2.44 | **3.35** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.08 | 151.14 | 1.2151 | 201.88 | 2.90 | 1.44% | 1.445 | 0.55 | 208.38 | 1.81 | 1.11 | 222 | 1.102 | 1.102 | 0.96 | 0.252 | 0.476 | 1012.52 | 4.694 | 2.184E+05 | 2.030E+06 | 9.29 | 0.1542 | 0.926 | 0.440 | | 2.50 | **3.44** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.13 | 151.23 | 1.2188 | 207.55 | 2.91 | 1.40% | 1.410 | 0.55 | 213.77 | 1.79 | 1.10 | 220 | 1.071 | 1.071 | 0.96 | 0.254 | 0.476 | 1013.10 | 4.697 | 2.185E+05 | 2.030E+06 | 9.29 | 0.1542 | 0.926 | 0.441 | | 2.43 | **3.34** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.18 | 151.40 | 1.2226 | 213.70 | 2.95 | 1.38% | 1.388 | 0.54 | 219.64 | 1.78 | 1.09 | 218 | 1.046 | 1.046 | 0.96 | 0.255 | 0.476 | 1015.41 | 4.702 | 2.193E+05 | 2.030E+06 | 9.26 | 0.1542 | 0.926 | 0.441 | | 2.37 | **3.26** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.24 | 151.69 | 1.2272 | 216.53 | 3.05 | 1.41% | 1.417 | 0.54 | 221.94 | 1.78 | 1.09 | 219 | 1.053 | 1.053 | 0.96 | 0.257 | 0.477 | 1021.05 | 4.711 | 2.213E+05 | 2.030E+06 | 9.17 | 0.1542 | 0.927 | 0.442 | | 2.38 | **3.28** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.33 | 152.02 | 1.2340 | 219.07 | 3.18 | 1.45% | 1.460 | 0.54 | 223.62 | 1.79 | 1.10 | 220 | 1.067 | 1.067 | 0.96 | 0.260 | 0.477 | 1028.11 | 4.721 | 2.239E+05 | 2.030E+06 | 9.07 | 0.1542 | 0.927 | 0.443 | | 2.41 | **3.32** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.39 | 152.10 | 1.2386 | 220.44 | 3.21 | 1.46% | 1.464 | 0.54 | 224.40 | 1.79 | 1.10 | 220 | 1.067 | 1.067 | 0.96 | 0.262 | 0.478 | 1029.70 | 4.724 | 2.245E+05 | 2.030E+06 | 9.04 | 0.1542 | 0.927 | 0.443 | | 2.41 | **3.31** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.44 | 152.11 | 1.2424 | 221.22 | 3.21 | 1.45% | 1.459 | 0.54 | 224.68 | 1.79 | 1.10 | 219 | 1.063 | 1.063 | 0.96 | 0.263 | 0.478 | 1029.70 | 4.724 | 2.244E+05 | 2.030E+06 | 9.04 | 0.1542 | 0.927 | 0.443 | | 2.40 | **3.30** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.52 | 152.07 | 1.2485 | 223.08 | 3.19 | 1.43% | 1.438 | 0.54 | 225.75 | 1.78 | 1.09 | 219 | 1.050 | 1.050 | 0.96 | 0.266 | 0.478 | 1028.64 | 4.723 | 2.240E+05 | 2.030E+06 | 9.06 | 0.1542 | 0.927 | 0.444 | | 2.37 | **3.26** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.59 | 151.50 | 1.2538 | 225.23 | 2.94 | 1.31% | 1.313 | 0.53 | 227.21 | 1.75 | 1.07 | 214 | 0.992 | 0.992 | 0.96 | 0.268 | 0.479 | 1014.84 | 4.705 | 2.189E+05 | 2.030E+06 | 9.27 | 0.1542 | 0.926 | 0.444 | | 2.24 | **3.08** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.67 | 151.10 | 1.2598 | 226.49 | 2.77 | 1.22% | 1.230 | 0.53 | 227.66 | 1.73 | 1.05 | 211 | 0.953 | 0.953 | 0.96 | 0.271 | 0.479 | 1004.76 | 4.693 | 2.151E+05 | 2.030E+06 | 9.44 | 0.1542 | 0.925 | 0.444 | | 2.15 | **2.96** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.75 | 151.31 | 1.2659 | 227.96 | 2.85 | 1.25% | 1.257 | 0.53 | 228.32 | 1.73 | 1.06 | 212 | 0.963 | 0.963 | 0.96 | 0.273 | 0.480 | 1009.58 | 4.699 | 2.169E+05 | 2.030E+06 | 9.36 | 0.1542 | 0.926 | 0.444 | | 2.17 | **2.98** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.79 | 151.45 | 1.2689 | 228.55 | 2.90 | 1.27% | 1.276 | 0.53 | 228.50 | 1.74 | 1.06 | 212 | 0.971 | 0.971 | 0.96 | 0.274 | 0.480 | 1012.52 | 4.703 | 2.180E+05 | 2.030E+06 | 9.31 | 0.1542 | 0.926 | 0.445 | | 2.18 | **3.01** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.87 | 151.67 | 1.2750 | 229.91 | 2.98 | 1.30% | 1.303 | 0.53 | 229.04 | 1.74 | 1.07 | 213 | 0.981 | 0.981 | 0.96 | 0.277 | 0.481 | 1017.12 | 4.710 | 2.196E+05 | 2.030E+06 | 9.24 | 0.1542 | 0.926 | 0.445 | | 2.20 | **3.03** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.90 | 151.65 | 1.2772 | 223.37 | 3.01 | 1.35% | 1.355 | 0.54 | 222.19 | 1.76 | 1.08 | 216 | 1.018 | 1.018 | 0.96 | 0.278 | 0.481 | 1018.82 | 4.710 | 2.204E+05 | 2.030E+06 | 9.21 | 0.1542 | 0.926 | 0.445 | | 2.29 | **3.15** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 18.97 | 151.78 | 1.2825 | 222.78 | 3.06 | 1.37% | 1.382 | 0.54 | 220.90 | 1.77 | 1.09 | 217 | 1.032 | 1.032 | 0.96 | 0.280 | 0.481 | 1021.61 | 4.714 | 2.214E+05 | 2.030E+06 | 9.17 | 0.1542 | 0.927 | 0.446 | | 2.31 | **3.18** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.03 | 152.07 | 1.2871 | 225.52 | 3.17 | 1.41% | 1.414 | 0.54 | 223.03 | 1.78 | 1.09 | 218 | 1.041 | 1.041 | 0.95 | 0.282 | 0.482 | 1027.58 | 4.723 | 2.236E+05 | 2.030E+06 | 9.08 | 0.1542 | 0.927 | 0.446 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.10 | 152.38 | 1.2924 | 227.18 | 3.30 | 1.45% | 1.461 | 0.54 | 223.98 | 1.78 | 1.10 | 219 | 1.058 | 1.058 | 0.95 | 0.284 | 0.482 | 1034.38 | 4.732 | 2.261E+05 | 2.030E+06 | 8.98 | 0.1542 | 0.928 | 0.447 | | 2.37 | **3.26** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.16 | 152.67 | 1.2970 | 229.33 | 3.42 | 1.49% | 1.500 | 0.55 | 225.50 | 1.79 | 1.10 | 220 | 1.071 | 1.071 | 0.95 | 0.286 | 0.482 | 1040.42 | 4.741 | 2.283E+05 | 2.030E+06 | 8.89 | 0.1542 | 0.928 | 0.448 | | 2.39 | **3.29** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.24 | 152.97 | 1.3031 | 230.69 | 3.56 | 1.54% | 1.552 | 0.55 | 226.03 | 1.80 | 1.11 | 222 | 1.092 | 1.092 | 0.95 | 0.288 | 0.483 | 1047.21 | 4.751 | 2.308E+05 | 2.030E+06 | 8.79 | 0.1542 | 0.928 | 0.448 | | 2.44 | **3.35** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.32 | 153.21 | 1.3093 | 232.45 | 3.67 | 1.58% | 1.588 | 0.55 | 226.95 | 1.81 | 1.11 | 223 | 1.105 | 1.105 | 0.95 | 0.291 | 0.483 | 1052.36 | 4.758 | 2.328E+05 | 2.030E+06 | 8.72 | 0.1542 | 0.929 | 0.449 | | 2.46 | **3.39** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.36 | 153.31 | 1.3123 | 233.53 | 3.71 | 1.59% | 1.598 | 0.55 | 227.60 | 1.81 | 1.11 | 223 | 1.107 | 1.107 | 0.95 | 0.292 | 0.483 | 1054.19 | 4.761 | 2.334E+05 | 2.030E+06 | 8.70 | 0.1542 | 0.929 | 0.449 | | 2.46 | **3.39** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.43 | 153.43 | 1.3177 | 235.58 | 3.77 | 1.60% | 1.609 | 0.55 | 228.89 | 1.81 | 1.11 | 223 | 1.108 | 1.108 | 0.95 | 0.294 | 0.484 | 1056.90 | 4.765 | 2.344E+05 | 2.030E+06 | 8.66 | 0.1542 | 0.929 | 0.449 | | 2.47 | **3.39** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.50 | 153.52 | 1.3231 | 236.85 | 3.81 | 1.61% | 1.618 | 0.55 | 229.41 | 1.81 | 1.11 | 223 | 1.110 | 1.110 | 0.95 | 0.296 | 0.484 | 1058.69 | 4.768 | 2.351E+05 | 2.030E+06 | 8.64 | 0.1542 | 0.929 | 0.450 | | 2.47 | **3.39** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.56 | 153.57 | 1.3277 | 237.82 | 3.83 | 1.61% | 1.620 | 0.55 | 229.73 | 1.81 | 1.11 | 223 | 1.109 | 1.109 | 0.95 | 0.298 | 0.484 | 1059.57 | 4.769 | 2.354E+05 | 2.030E+06 | 8.62 | 0.1542 | 0.929 | 0.450 | | 2.46 | **3.39** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.63 | 153.57 | 1.3331 | 238.70 | 3.82 | 1.60% | 1.609 | 0.55 | 229.87 | 1.81 | 1.11 | 222 | 1.104 | 1.104 | 0.95 | 0.300 | 0.485 | 1059.13 | 4.769 | 2.352E+05 | 2.030E+06 | 8.63 | 0.1542 | 0.929 | 0.451 | | 2.45 | **3.37** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.69 | 153.60 | 1.3377 | 240.46 | 3.83 | 1.59% | 1.602 | 0.55 | 230.96 | 1.80 | 1.11 | 222 | 1.097 | 1.097 | 0.95 | 0.302 | 0.485 | 1059.57 | 4.770 | 2.354E+05 | 2.030E+06 | 8.63 | 0.1542 | 0.929 | 0.451 | | 2.43 | **3.35** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.77 | 153.65 | 1.3438 | 242.51 | 3.84 | 1.58% | 1.592 | 0.55 | 232.12 | 1.80 | 1.11 | 221 | 1.089 | 1.089 | 0.95 | 0.305 | 0.486 | 1060.02 | 4.772 | 2.355E+05 | 2.030E+06 | 8.62 | 0.1542 | 0.929 | 0.451 | | 2.41 | **3.32** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.86 | 153.82 | 1.3507 | 245.74 | 3.92 | 1.60% | 1.604 | 0.55 | 234.29 | 1.80 | 1.11 | 221 | 1.089 | 1.089 | 0.95 | 0.308 | 0.486 | 1063.50 | 4.777 | 2.368E+05 | 2.030E+06 | 8.57 | 0.1542 | 0.930 | 0.452 | | 2.41 | **3.32** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.90 | 153.96 | 1.3538 | 248.86 | 3.98 | 1.60% | 1.608 | 0.55 | 236.86 | 1.80 | 1.11 | 221 | 1.084 | 1.084 | 0.95 | 0.309 | 0.486 | 1066.07 | 4.781 | 2.377E+05 | 2.030E+06 | 8.54 | 0.1542 | 0.930 | 0.452 | | 2.40 | **3.30** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 19.95 | 154.10 | 1.3577 | 252.38 | 4.03 | 1.60% | 1.605 | 0.55 | 239.70 | 1.79 | 1.10 | 220 | 1.076 | 1.076 | 0.95 | 0.310 | 0.487 | 1068.19 | 4.786 | 2.384E+05 | 2.030E+06 | 8.51 | 0.1542 | 0.930 | 0.452 | | 2.38 | **3.27** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.03 | 152.41 | 1.3638 | 257.07 | 3.18 | 1.24% | 1.244 | 0.52 | 243.34 | 1.70 | 1.04 | 208 | 0.916 | 0.916 | 0.95 | 0.313 | 0.487 | 1028.11 | 4.733 | 2.233E+05 | 2.030E+06 | 9.09 | 0.1542 | 0.927 | 0.451 | | 2.03 | **2.79** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.08 | 150.96 | 1.3675 | 261.66 | 2.60 | 0.99% | 0.999 | 0.50 | 247.18 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.314 | 0.487 | 994.05 | 4.688 | 2.108E+05 | 2.030E+06 | 9.63 | 0.1542 | 0.924 | 0.450 | | 1.83 | **2.52** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.16 | 151.57 | 1.3736 | 265.76 | 2.81 | 1.06% | 1.063 | 0.50 | 250.22 | 1.64 | 1.00 | 199 | 0.818 | 0.818 | 0.95 | 0.317 | 0.488 | 1007.19 | 4.707 | 2.155E+05 | 2.030E+06 | 9.42 | 0.1542 | 0.925 | 0.451 | | 1.81 | **2.49** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.21 | 151.88 | 1.3774 | 269.76 | 2.91 | 1.08% | 1.084 | 0.50 | 253.47 | 1.64 | 1.00 | 200 | 0.822 | 0.822 | 0.95 | 0.319 | 0.488 | 1013.10 | 4.717 | 2.176E+05 | 2.030E+06 | 9.33 | 0.1542 | 0.926 | 0.452 | | 1.82 | **2.51** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.30 | 152.16 | 1.3842 | 276.70 | 3.00 | 1.08% | 1.090 | 0.50 | 259.03 | 1.64 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.321 | 0.488 | 1018.26 | 4.725 | 2.194E+05 | 2.030E+06 | 9.25 | 0.1542 | 0.926 | 0.452 | | 1.82 | **2.51** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.34 | 152.22 | 1.3873 | 279.92 | 3.01 | 1.08% | 1.081 | 0.50 | 261.61 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.323 | 0.489 | 1018.82 | 4.727 | 2.196E+05 | 2.030E+06 | 9.25 | 0.1542 | 0.926 | 0.452 | | 1.82 | **2.51** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.41 | 152.22 | 1.3926 | 280.60 | 3.01 | 1.07% | 1.078 | 0.50 | 261.47 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.325 | 0.489 | 1018.82 | 4.727 | 2.196E+05 | 2.030E+06 | 9.25 | 0.1542 | 0.926 | 0.453 | | 1.82 | **2.50** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.50 | 152.24 | 1.3995 | 281.29 | 3.02 | 1.07% | 1.079 | 0.50 | 261.12 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.328 | 0.489 | 1019.38 | 4.728 | 2.198E+05 | 2.030E+06 | 9.24 | 0.1542 | 0.926 | 0.453 | | 1.82 | **2.50** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.58 | 152.45 | 1.4056 | 285.39 | 3.09 | 1.08% | 1.088 | 0.50 | 264.06 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.330 | 0.490 | 1023.26 | 4.734 | 2.212E+05 | 2.030E+06 | 9.18 | 0.1542 | 0.927 | 0.454 | | 1.82 | **2.50** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.61 | 152.55 | 1.4079 | 286.46 | 3.13 | 1.09% | 1.098 | 0.50 | 264.72 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.331 | 0.490 | 1025.43 | 4.738 | 2.220E+05 | 2.030E+06 | 9.15 | 0.1542 | 0.927 | 0.454 | | 1.82 | **2.50** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.67 | 152.73 | 1.4124 | 286.56 | 3.21 | 1.12% | 1.126 | 0.50 | 264.14 | 1.64 | 1.00 | 200 | 0.820 | 0.820 | 0.95 | 0.333 | 0.490 | 1029.70 | 4.743 | 2.235E+05 | 2.030E+06 | 9.08 | 0.1542 | 0.927 | 0.454 | | 1.80 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.75 | 153.16 | 1.4186 | 286.07 | 3.40 | 1.19% | 1.194 | 0.51 | 262.80 | 1.66 | 1.01 | 203 | 0.853 | 0.853 | 0.95 | 0.335 | 0.491 | 1039.43 | 4.757 | 2.271E+05 | 2.030E+06 | 8.94 | 0.1542 | 0.928 | 0.455 | | 1.88 | **2.58** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.81 | 153.44 | 1.4232 | 288.91 | 3.52 | 1.22% | 1.224 | 0.51 | 264.75 | 1.67 | 1.02 | 203 | 0.863 | 0.863 | 0.95 | 0.337 | 0.491 | 1045.30 | 4.765 | 2.293E+05 | 2.030E+06 | 8.85 | 0.1542 | 0.928 | 0.456 | | 1.89 | **2.61** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.89 | 153.72 | 1.4293 | 294.18 | 3.64 | 1.24% | 1.243 | 0.51 | 268.69 | 1.67 | 1.02 | 204 | 0.864 | 0.864 | 0.95 | 0.340 | 0.491 | 1050.97 | 4.774 | 2.314E+05 | 2.030E+06 | 8.77 | 0.1542 | 0.929 | 0.456 | | 1.90 | **2.61** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 20.94 | 153.87 | 1.4332 | 298.18 | 3.70 | 1.24% | 1.247 | 0.51 | 271.79 | 1.67 | 1.02 | 203 | 0.861 | 0.861 | 0.95 | 0.341 | 0.491 | 1053.73 | 4.779 | 2.324E+05 | 2.030E+06 | 8.74 | 0.1542 | 0.929 | 0.456 | | 1.89 | **2.59** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.01 | 153.90 | 1.4386 | 297.70 | 3.72 | 1.25% | 1.256 | 0.51 | 270.55 | 1.67 | 1.02 | 204 | 0.866 | 0.866 | 0.95 | 0.344 | 0.492 | 1054.64 | 4.780 | 2.327E+05 | 2.030E+06 | 8.72 | 0.1542 | 0.929 | 0.457 | | 1.90 | **2.61** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.08 | 153.82 | 1.4439 | 293.89 | 3.69 | 1.26% | 1.262 | 0.51 | 266.29 | 1.68 | 1.02 | 204 | 0.875 | 0.875 | 0.95 | 0.346 | 0.492 | 1053.28 | 4.777 | 2.322E+05 | 2.030E+06 | 8.74 | 0.1542 | 0.929 | 0.457 | | 1.91 | **2.63** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.13 | 153.61 | 1.4478 | 290.27 | 3.60 | 1.24% | 1.246 | 0.51 | 262.44 | 1.68 | 1.02 | 204 | 0.874 | 0.874 | 0.95 | 0.347 | 0.492 | 1049.10 | 4.771 | 2.307E+05 | 2.030E+06 | 8.80 | 0.1542 | 0.928 | 0.457 | | 1.91 | **2.63** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.21 | 153.12 | 1.4539 | 286.46 | 3.38 | 1.18% | 1.186 | 0.51 | 258.12 | 1.66 | 1.01 | 203 | 0.853 | 0.853 | 0.95 | 0.350 | 0.493 | 1038.43 | 4.755 | 2.268E+05 | 2.030E+06 | 8.95 | 0.1542 | 0.928 | 0.457 | | 1.87 | **2.57** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.30 | 152.67 | 1.4608 | 286.46 | 3.18 | 1.11% | 1.116 | 0.50 | 257.17 | 1.64 | 1.00 | 200 | 0.821 | 0.821 | 0.95 | 0.353 | 0.493 | 1028.11 | 4.741 | 2.229E+05 | 2.030E+06 | 9.11 | 0.1542 | 0.927 | 0.457 | | 1.80 | **2.47** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.34 | 152.57 | 1.4638 | 284.90 | 3.14 | 1.10% | 1.108 | 0.50 | 255.34 | 1.64 | 1.00 | 200 | 0.820 | 0.820 | 0.95 | 0.354 | 0.493 | 1025.97 | 4.738 | 2.222E+05 | 2.030E+06 | 9.14 | 0.1542 | 0.927 | 0.457 | | 1.79 | **2.47** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.40 | 152.48 | 1.4684 | 283.14 | 3.11 | 1.10% | 1.104 | 0.50 | 253.14 | 1.64 | 1.00 | 200 | 0.821 | 0.821 | 0.95 | 0.356 | 0.493 | 1024.35 | 4.735 | 2.216E+05 | 2.030E+06 | 9.16 | 0.1542 | 0.927 | 0.457 | | 1.80 | **2.47** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.48 | 152.36 | 1.4745 | 281.09 | 3.07 | 1.09% | 1.098 | 0.50 | 250.48 | 1.64 | 1.00 | 200 | 0.822 | 0.822 | 0.95 | 0.358 | 0.494 | 1022.16 | 4.732 | 2.208E+05 | 2.030E+06 | 9.19 | 0.1542 | 0.926 | 0.457 | | 1.80 | **2.47** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.54 | 152.23 | 1.4791 | 277.28 | 3.03 | 1.09% | 1.099 | 0.50 | 246.47 | 1.65 | 1.00 | 200 | 0.830 | 0.830 | 0.95 | 0.360 | 0.494 | 1019.94 | 4.728 | 2.200E+05 | 2.030E+06 | 9.23 | 0.1542 | 0.926 | 0.458 | | 1.81 | **2.49** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.61 | 152.01 | 1.4844 | 269.86 | 2.96 | 1.10% | 1.103 | 0.51 | 239.16 | 1.66 | 1.01 | 202 | 0.845 | 0.845 | 0.95 | 0.362 | 0.494 | 1015.99 | 4.721 | 2.187E+05 | 2.030E+06 | 9.28 | 0.1542 | 0.926 | 0.458 | | 1.84 | **2.54** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.66 | 151.85 | 1.4882 | 260.09 | 2.93 | 1.13% | 1.133 | 0.51 | 229.99 | 1.68 | 1.02 | 205 | 0.876 | 0.876 | 0.95 | 0.364 | 0.495 | 1014.26 | 4.716 | 2.181E+05 | 2.030E+06 | 9.31 | 0.1542 | 0.926 | 0.458 | | 1.91 | **2.63** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.74 | 151.40 | 1.4942 | 245.25 | 2.81 | 1.15% | 1.153 | 0.52 | 216.11 | 1.70 | 1.04 | 208 | 0.913 | 0.913 | 0.95 | 0.366 | 0.495 | 1007.19 | 4.702 | 2.157E+05 | 2.030E+06 | 9.41 | 0.1542 | 0.925 | 0.458 | | 1.99 | **2.74** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.79 | 151.13 | 1.4980 | 236.85 | 2.74 | 1.16% | 1.164 | 0.52 | 208.25 | 1.71 | 1.05 | 210 | 0.936 | 0.936 | 0.95 | 0.368 | 0.495 | 1002.92 | 4.693 | 2.143E+05 | 2.030E+06 | 9.47 | 0.1542 | 0.925 | 0.458 | | 2.04 | **2.81** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.88 | 150.90 | 1.5048 | 231.18 | 2.68 | 1.16% | 1.167 | 0.52 | 202.51 | 1.72 | 1.05 | 211 | 0.950 | 0.950 | 0.95 | 0.371 | 0.496 | 999.18 | 4.686 | 2.130E+05 | 2.030E+06 | 9.53 | 0.1542 | 0.925 | 0.458 | | 2.07 | **2.85** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 21.93 | 151.07 | 1.5086 | 232.45 | 2.74 | 1.18% | 1.186 | 0.53 | 203.23 | 1.73 | 1.06 | 211 | 0.957 | 0.957 | 0.95 | 0.372 | 0.496 | 1002.92 | 4.692 | 2.144E+05 | 2.030E+06 | 9.47 | 0.1542 | 0.925 | 0.459 | | 2.09 | **2.87** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.00 | 151.07 | 1.5139 | 238.02 | 2.72 | 1.14% | 1.150 | 0.52 | 207.56 | 1.71 | 1.04 | 209 | 0.929 | 0.929 | 0.95 | 0.374 | 0.496 | 1001.68 | 4.692 | 2.139E+05 | 2.030E+06 | 9.49 | 0.1542 | 0.925 | 0.459 | | 2.02 | **2.79** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.06 | 151.29 | 1.5184 | 248.47 | 2.76 | 1.11% | 1.118 | 0.51 | 216.22 | 1.69 | 1.03 | 206 | 0.894 | 0.894 | 0.95 | 0.376 | 0.496 | 1004.15 | 4.698 | 2.146E+05 | 2.030E+06 | 9.46 | 0.1542 | 0.925 | 0.459 | | 1.95 | **2.68** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.14 | 151.86 | 1.5245 | 266.05 | 2.92 | 1.10% | 1.104 | 0.51 | 230.88 | 1.67 | 1.01 | 203 | 0.856 | 0.856 | 0.95 | 0.379 | 0.497 | 1013.68 | 4.716 | 2.179E+05 | 2.030E+06 | 9.32 | 0.1542 | 0.926 | 0.460 | | 1.86 | **2.56** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.23 | 152.32 | 1.5313 | 280.12 | 3.05 | 1.09% | 1.095 | 0.50 | 242.30 | 1.65 | 1.00 | 200 | 0.829 | 0.829 | 0.95 | 0.382 | 0.497 | 1021.05 | 4.730 | 2.204E+05 | 2.030E+06 | 9.21 | 0.1542 | 0.926 | 0.460 | | 1.80 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.26 | 152.39 | 1.5336 | 281.39 | 3.08 | 1.09% | 1.101 | 0.50 | 243.12 | 1.65 | 1.00 | 201 | 0.830 | 0.830 | 0.95 | 0.383 | 0.497 | 1022.71 | 4.733 | 2.210E+05 | 2.030E+06 | 9.19 | 0.1542 | 0.926 | 0.461 | | 1.80 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.35 | 152.32 | 1.5405 | 278.36 | 3.06 | 1.10% | 1.105 | 0.50 | 239.64 | 1.65 | 1.01 | 201 | 0.838 | 0.838 | 0.95 | 0.385 | 0.497 | 1021.61 | 4.730 | 2.206E+05 | 2.030E+06 | 9.20 | 0.1542 | 0.926 | 0.461 | | 1.82 | **2.50** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.41 | 151.98 | 1.5450 | 269.96 | 2.95 | 1.09% | 1.099 | 0.51 | 231.82 | 1.66 | 1.01 | 202 | 0.850 | 0.850 | 0.95 | 0.387 | 0.498 | 1015.41 | 4.720 | 2.185E+05 | 2.030E+06 | 9.29 | 0.1542 | 0.926 | 0.461 | | 1.84 | **2.54** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.46 | 151.66 | 1.5488 | 256.58 | 2.87 | 1.12% | 1.125 | 0.51 | 219.84 | 1.68 | 1.03 | 205 | 0.886 | 0.886 | 0.95 | 0.389 | 0.498 | 1010.76 | 4.710 | 2.169E+05 | 2.030E+06 | 9.36 | 0.1542 | 0.926 | 0.461 | | 1.92 | **2.65** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.52 | 149.80 | 1.5533 | 238.90 | 2.28 | 0.95% | 0.961 | 0.50 | 204.14 | 1.65 | 1.01 | 201 | 0.838 | 0.838 | 0.95 | 0.391 | 0.498 | 971.83 | 4.652 | 2.030E+05 | 2.030E+06 | 10.00 | 0.1542 | 0.922 | 0.460 | | 1.82 | **2.51** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.59 | 147.59 | 1.5585 | 221.90 | 1.73 | 0.78% | 0.785 | 0.50 | 189.03 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.393 | 0.498 | 925.13 | 4.584 | 1.867E+05 | 2.030E+06 | 10.87 | 0.1542 | 0.920 | 0.459 | | 1.80 | **2.47** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.64 | 147.41 | 1.5622 | 207.16 | 1.73 | 0.84% | 0.841 | 0.51 | 176.06 | 1.66 | 1.01 | 188 | 0.699 | 0.699 | 0.95 | 0.394 | 0.499 | 925.13 | 4.578 | 1.870E+05 | 2.030E+06 | 10.86 | 0.1542 | 0.920 | 0.459 | | 1.52 | **2.10** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.72 | 147.02 | 1.5680 | 193.39 | 1.67 | 0.86% | 0.871 | 0.52 | 163.78 | 1.69 | 1.03 | 179 | 0.614 | 0.614 | 0.95 | 0.397 | 0.499 | 919.16 | 4.566 | 1.850E+05 | 2.030E+06 | 10.97 | 0.1542 | 0.920 | 0.459 | | 1.34 | **1.84** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.78 | 146.83 | 1.5725 | 184.40 | 1.66 | 0.90% | 0.908 | 0.52 | 155.77 | 1.72 | 1.05 | 173 | 0.565 | 0.565 | 0.95 | 0.399 | 0.499 | 918.15 | 4.560 | 1.849E+05 | 2.030E+06 | 10.98 | 0.1542 | 0.920 | 0.459 | | 1.23 | **1.69** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.84 | 146.97 | 1.5769 | 185.03 | 1.69 | 0.91% | 0.921 | 0.52 | 155.96 | 1.72 | 1.05 | 174 | 0.572 | 0.572 | 0.95 | 0.401 | 0.499 | 921.18 | 4.564 | 1.859E+05 | 2.030E+06 | 10.92 | 0.1542 | 0.920 | 0.460 | | 1.24 | **1.71** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.91 | 147.07 | 1.5820 | 185.03 | 1.71 | 0.92% | 0.932 | 0.53 | 155.57 | 1.73 | 1.06 | 174 | 0.573 | 0.573 | 0.95 | 0.403 | 0.500 | 923.17 | 4.567 | 1.866E+05 | 2.030E+06 | 10.88 | 0.1542 | 0.920 | 0.460 | | 1.25 | **1.71** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 22.97 | 146.96 | 1.5864 | 185.67 | 1.69 | 0.91% | 0.918 | 0.52 | 155.77 | 1.72 | 1.05 | 174 | 0.572 | 0.572 | 0.95 | 0.405 | 0.500 | 921.18 | 4.564 | 1.859E+05 | 2.030E+06 | 10.92 | 0.1542 | 0.920 | 0.460 | | 1.24 | **1.71** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 23.04 | 146.98 | 1.5916 | 188.89 | 1.68 | 0.89% | 0.897 | 0.52 | 158.10 | 1.71 | 1.04 | 176 | 0.585 | 0.585 | 0.95 | 0.407 | 0.500 | 920.17 | 4.565 | 1.855E+05 | 2.030E+06 | 10.94 | 0.1542 | 0.920 | 0.460 | | 1.27 | **1.75** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 23.14 | 146.75 | 1.5989 | 191.14 | 1.62 | 0.85% | 0.855 | 0.52 | 159.42 | 1.69 | 1.03 | 176 | 0.584 | 0.584 | 0.95 | 0.410 | 0.501 | 914.02 | 4.557 | 1.833E+05 | 2.030E+06 | 11.07 | 0.1542 | 0.920 | 0.460 | | 1.27 | **1.74** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 23.18 | 146.54 | 1.6018 | 188.50 | 1.58 | 0.84% | 0.845 | 0.52 | 156.98 | 1.69 | 1.03 | 173 | 0.563 | 0.563 | 0.95 | 0.411 | 0.501 | 909.79 | 4.551 | 1.819E+05 | 2.030E+06 | 11.16 | 0.1542 | 0.919 | 0.461 | | 1.22 | **1.68** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 23.27 | 146.24 | 1.6084 | 175.51 | 1.56 | 0.89% | 0.897 | 0.53 | 145.60 | 1.73 | 1.06 | 165 | 0.497 | 0.497 | 0.94 | 0.414 | 0.501 | 907.64 | 4.542 | 1.814E+05 | 2.030E+06 | 11.19 | 0.1542 | 0.919 | 0.461 | | 1.08 | **1.49** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 23.32 | 146.15 | 1.6121 | 165.74 | 1.57 | 0.95% | 0.957 | 0.54 | 137.18 | 1.77 | 1.09 | 159 | 0.455 | 0.455 | 0.94 | 0.416 | 0.501 | 908.72 | 4.539 | 1.819E+05 | 2.030E+06 | 11.16 | 0.1542 | 0.919 | 0.461 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 3.40 | 0.00 | | |
| 23.36 | 146.02 | 1.6150 | 154.51 | 1.58 | 1.02% | 1.033 | 0.55 | 127.61 | 1.82 | 1.12 | 152 | 0.409 | 0.409 | 0.94 | 0.417 | 0.502 | 909.79 | 4.535 | 1.825E+05 | 2.030E+06 | 11.12 | 0.1542 | 0.920 | 0.461 | | 0.89 | **1.22** | <= | 0.23 | 0.001 | 0.00 | 3.40 | 0.00 | 23.32 | 23.36 |
| 23.45 | 146.62 | 1.6216 | 135.17 | 1.79 | 1.32% | 1.340 | 0.59 | 111.11 | 1.94 | 1.23 | 145 | 0.364 | 0.364 | 0.94 | 0.420 | 0.502 | 930.90 | 4.553 | 1.903E+05 | 2.030E+06 | 10.67 | 0.1542 | 0.921 | 0.462 | | 0.79 | **1.08** | <= | 0.59 | 0.006 | 0.00 | 3.39 | 0.00 | 23.36 | 23.45 |
| 23.50 | 146.87 | 1.6253 | 120.43 | 1.92 | 1.59% | 1.616 | 0.62 | 98.67 | 2.04 | 1.35 | 141 | 0.340 | 0.340 | 0.94 | 0.421 | 0.502 | 942.76 | 4.561 | 1.949E+05 | 2.030E+06 | 10.42 | 0.1542 | 0.921 | 0.463 | | 0.74 | **1.01** | <= | 0.46 | 0.003 | 0.00 | 3.39 | 0.00 | 23.45 | 23.50 |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-2

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

**D (ft):** 1 **Magnitude:** 6.62 **Accleration:** 0.606 g's **Magnitude Scaling Factor:** 1.38
**Groundwater Level:** 10 feet

**Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular):** 2
**Discrete Column Spacing (ft):** 8.0 **Unit Tributary Area, A ($ft^2$):** 45.83 **Discrete Column Shear Modulus, $G_G$ (psf):** 2,030,000
**Discrete Coumn Dia. (ft):** 3.0 **Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$):** 7.07 **$A_R = A_{sc}/A$:** 0.154 **Assumed Discrete Column Density (pcf):** 130.00
**Discrete Coumn Intalled Depth (ft):** from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | $V_s$ [b] (ft/sec) | $\rho$ (lb-$sec^2$)/$ft^4$ | $G_s$ (psf) | $G_g$ (psf) | $G_r$ ($G_G/G_S$) | $A_R$ | $R_{rd}$ ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.58 | 148.11 | 1.6312 | 107.34 | 2.37 | 2.21% | 2.242 | 0.66 | 87.54 | 2.18 | 1.61 | 148 | 0.383 | 0.396 | 0.94 | 0.424 | 0.502 | 978.38 | 4.600 | 2.081E+05 | 2.030E+06 | 9.75 | 0.1542 | 0.924 | 0.464 | | 0.85 | **1.18** | <= | 0.40 | 0.004 | 0.00 | 3.39 | 0.00 | 23.50 | 23.58 |
| 23.63 | 148.63 | 1.6349 | 98.55 | 2.62 | 2.66% | 2.703 | 0.69 | 80.12 | 2.26 | 1.83 | 154 | 0.420 | 0.489 | 0.94 | 0.425 | 0.503 | 995.35 | 4.616 | 2.146E+05 | 2.030E+06 | 9.46 | 0.1542 | 0.925 | 0.465 | | 1.05 | **1.45** | | 0.00 | 0.000 | 0.00 | 3.38 | 0.00 | | |
| 23.71 | 149.02 | 1.6409 | 93.76 | 2.80 | 2.99% | 3.040 | 0.70 | 75.94 | 2.32 | 2.00 | 159 | 0.454 | 0.532 | 0.94 | 0.428 | 0.503 | 1006.59 | 4.628 | 2.189E+05 | 2.030E+06 | 9.27 | 0.1542 | 0.926 | 0.466 | | 1.14 | **1.57** | | 0.00 | 0.000 | 0.00 | 3.38 | 0.00 | | |
| 23.77 | 148.97 | 1.6453 | 91.03 | 2.81 | 3.09% | 3.144 | 0.71 | 73.53 | 2.34 | 2.07 | 159 | 0.456 | 0.588 | 0.94 | 0.430 | 0.503 | 1007.19 | 4.626 | 2.193E+05 | 2.030E+06 | 9.26 | 0.1542 | 0.926 | 0.466 | | 1.26 | **1.74** | | 0.00 | 0.000 | 0.00 | 3.38 | 0.00 | | |
| 23.84 | 148.86 | 1.6505 | 85.36 | 2.83 | 3.32% | 3.381 | 0.72 | 68.69 | 2.38 | 2.23 | 160 | 0.463 | 0.647 | 0.94 | 0.432 | 0.503 | 1008.39 | 4.623 | 2.200E+05 | 2.030E+06 | 9.23 | 0.1542 | 0.926 | 0.466 | | 1.39 | **1.91** | | 0.00 | 0.000 | 0.00 | 3.38 | 0.00 | | |
| 23.89 | 148.70 | 1.6543 | 79.80 | 2.83 | 3.55% | 3.621 | 0.73 | 64.01 | 2.42 | 2.41 | 161 | 0.467 | 0.389 | 0.94 | 0.433 | 0.504 | 1008.39 | 4.618 | 2.202E+05 | 2.030E+06 | 9.22 | 0.1542 | 0.926 | 0.466 | | 0.83 | **1.15** | <= | 0.34 | 0.002 | 0.00 | 3.38 | 0.00 | 23.84 | 23.89 |
| 23.98 | 148.21 | 1.6609 | 81.55 | 2.63 | 3.23% | 3.292 | 0.72 | 65.23 | 2.39 | 2.26 | 154 | 0.420 | 0.634 | 0.94 | 0.436 | 0.504 | 995.99 | 4.603 | 2.155E+05 | 2.030E+06 | 9.42 | 0.1542 | 0.925 | 0.466 | | 1.36 | **1.87** | | 0.00 | 0.000 | 0.00 | 3.38 | 0.00 | | |
| 24.02 | 148.23 | 1.6639 | 94.25 | 2.51 | 2.66% | 2.711 | 0.69 | 75.49 | 2.28 | 1.89 | 150 | 0.392 | 0.511 | 0.94 | 0.437 | 0.504 | 988.09 | 4.603 | 2.121E+05 | 2.030E+06 | 9.57 | 0.1542 | 0.925 | 0.466 | | 1.10 | **1.51** | | 0.00 | 0.000 | 0.00 | 3.38 | 0.00 | | |
| 24.11 | 148.43 | 1.6706 | 133.03 | 2.30 | 1.73% | 1.751 | 0.62 | 106.77 | 2.03 | 1.35 | 153 | 0.416 | 0.416 | 0.94 | 0.440 | 0.504 | 973.31 | 4.610 | 2.055E+05 | 2.030E+06 | 9.88 | 0.1542 | 0.923 | 0.465 | | 0.89 | **1.23** | <= | 0.24 | 0.003 | 0.00 | 3.38 | 0.00 | 24.02 | 24.11 |
| 24.16 | 148.22 | 1.6743 | 149.04 | 2.15 | 1.44% | 1.459 | 0.59 | 119.57 | 1.94 | 1.23 | 158 | 0.445 | 0.445 | 0.94 | 0.442 | 0.504 | 961.90 | 4.603 | 2.010E+05 | 2.030E+06 | 10.10 | 0.1542 | 0.922 | 0.465 | | 0.96 | **1.32** | | 0.00 | 0.000 | 0.00 | 3.38 | 0.00 | | |
| 24.23 | 147.46 | 1.6794 | 169.07 | 1.86 | 1.10% | 1.111 | 0.55 | 135.49 | 1.82 | 1.12 | 164 | 0.489 | 0.489 | 0.94 | 0.444 | 0.505 | 937.39 | 4.580 | 1.919E+05 | 2.030E+06 | 10.58 | 0.1542 | 0.921 | 0.465 | | 1.05 | **1.45** | | 0.00 | 0.000 | 0.00 | 3.38 | 0.00 | | |
| 24.28 | 146.90 | 1.6831 | 171.90 | 1.71 | 0.99% | 1.005 | 0.54 | 137.54 | 1.78 | 1.09 | 163 | 0.482 | 0.482 | 0.94 | 0.446 | 0.505 | 923.17 | 4.562 | 1.868E+05 | 2.030E+06 | 10.87 | 0.1542 | 0.920 | 0.465 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 3.38 | 0.00 | | |
| 24.39 | 145.54 | 1.6911 | 166.14 | 1.44 | 0.87% | 0.876 | 0.53 | 132.39 | 1.75 | 1.07 | 154 | 0.422 | 0.422 | 0.94 | 0.449 | 0.505 | 894.10 | 4.520 | 1.769E+05 | 2.030E+06 | 11.48 | 0.1542 | 0.919 | 0.464 | | 0.91 | **1.25** | <= | 0.25 | 0.003 | 0.00 | 3.38 | 0.00 | 24.28 | 24.39 |
| 24.43 | 145.35 | 1.6940 | 163.30 | 1.41 | 0.86% | 0.872 | 0.54 | 129.93 | 1.76 | 1.08 | 152 | 0.407 | 0.407 | 0.94 | 0.450 | 0.505 | 890.54 | 4.514 | 1.757E+05 | 2.030E+06 | 11.55 | 0.1542 | 0.918 | 0.464 | | 0.88 | **1.21** | <= | 0.22 | 0.001 | 0.00 | 3.37 | 0.00 | 24.39 | 24.43 |
| 24.56 | 145.20 | 1.7035 | 146.41 | 1.43 | 0.98% | 0.988 | 0.56 | 115.84 | 1.83 | 1.13 | 142 | 0.346 | 0.346 | 0.94 | 0.454 | 0.506 | 892.92 | 4.509 | 1.768E+05 | 2.030E+06 | 11.48 | 0.1542 | 0.919 | 0.465 | | 0.75 | **1.03** | <= | 0.49 | 0.008 | 0.00 | 3.37 | 0.00 | 24.43 | 24.56 |
| 24.57 | 145.19 | 1.7042 | 141.82 | 1.45 | 1.02% | 1.035 | 0.56 | 112.13 | 1.86 | 1.15 | 140 | 0.333 | 0.333 | 0.94 | 0.455 | 0.506 | 895.27 | 4.509 | 1.778E+05 | 2.030E+06 | 11.42 | 0.1542 | 0.919 | 0.465 | | 0.72 | **0.99** | <= | 0.90 | 0.001 | 0.00 | 3.36 | 0.00 | 24.56 | 24.57 |
| 24.63 | 145.57 | 1.7085 | 130.68 | 1.57 | 1.20% | 1.217 | 0.59 | 103.00 | 1.93 | 1.22 | 136 | 0.312 | 0.312 | 0.94 | 0.456 | 0.506 | 908.72 | 4.521 | 1.827E+05 | 2.030E+06 | 11.11 | 0.1542 | 0.920 | 0.465 | | 0.67 | **0.92** | <= | 0.74 | 0.005 | 0.00 | 3.36 | 0.00 | 24.57 | 24.63 |
| 24.69 | 146.13 | 1.7129 | 117.69 | 1.75 | 1.49% | 1.509 | 0.62 | 92.44 | 2.03 | 1.34 | 133 | 0.301 | 0.335 | 0.94 | 0.458 | 0.506 | 927.08 | 4.538 | 1.894E+05 | 2.030E+06 | 10.72 | 0.1542 | 0.921 | 0.466 | | 0.72 | **0.99** | <= | 0.97 | 0.007 | 0.00 | 3.36 | 0.00 | 24.63 | 24.69 |
| 24.74 | 146.55 | 1.7166 | 104.60 | 1.93 | 1.85% | 1.876 | 0.65 | 81.87 | 2.14 | 1.52 | 133 | 0.301 | 0.371 | 0.94 | 0.460 | 0.506 | 943.64 | 4.551 | 1.957E+05 | 2.030E+06 | 10.38 | 0.1542 | 0.922 | 0.467 | | 0.80 | **1.09** | <= | 0.66 | 0.004 | 0.00 | 3.35 | 0.00 | 24.69 | 24.74 |
| 24.82 | 146.66 | 1.7225 | 82.43 | 2.12 | 2.57% | 2.627 | 0.70 | 64.05 | 2.32 | 2.01 | 136 | 0.315 | 0.518 | 0.94 | 0.462 | 0.507 | 959.52 | 4.555 | 2.021E+05 | 2.030E+06 | 10.04 | 0.1542 | 0.922 | 0.467 | | 1.11 | **1.53** | | 0.00 | 0.000 | 0.00 | 3.35 | 0.00 | | |
| 24.88 | 146.07 | 1.7268 | 66.81 | 2.10 | 3.14% | 3.227 | 0.74 | 51.55 | 2.45 | 2.53 | 137 | 0.319 | 0.328 | 0.94 | 0.464 | 0.507 | 957.92 | 4.536 | 2.023E+05 | 2.030E+06 | 10.04 | 0.1542 | 0.922 | 0.468 | | 0.70 | **0.96** | <= | 1.39 | 0.010 | 0.00 | 3.35 | 0.00 | 24.82 | 24.88 |
| 24.96 | 144.35 | 1.7326 | 52.74 | 1.80 | 3.41% | 3.529 | 0.77 | 40.29 | 2.56 | 3.06 | 129 | 0.280 | 0.324 | 0.94 | 0.467 | 0.507 | 931.84 | 4.483 | 1.937E+05 | 2.030E+06 | 10.48 | 0.1542 | 0.921 | 0.467 | | 0.69 | **0.96** | <= | 1.35 | 0.013 | 0.00 | 3.34 | 0.00 | 24.88 | 24.96 |
| 25.01 | 143.11 | 1.7362 | 43.66 | 1.61 | 3.69% | 3.840 | 0.80 | 33.07 | 2.64 | 3.61 | 124 | 0.258 | 0.313 | 0.94 | 0.468 | 0.507 | 912.97 | 4.444 | 1.875E+05 | 2.030E+06 | 10.82 | 0.1542 | 0.920 | 0.467 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.32 | 0.00 | | |
| 25.10 | 139.13 | 1.7425 | 52.01 | 0.88 | 1.69% | 1.751 | 0.72 | 39.54 | 2.36 | 2.15 | 90 | 0.147 | 0.397 | 0.94 | 0.471 | 0.508 | 810.79 | 4.321 | 1.521E+05 | 2.030E+06 | 13.34 | 0.1542 | 0.914 | 0.464 | | 0.86 | **1.18** | <= | 0.56 | 0.006 | 0.00 | 3.32 | 0.00 | 25.01 | 25.10 |
| 25.14 | 138.92 | 1.7452 | 34.09 | 0.99 | 2.90% | 3.061 | 0.81 | 25.41 | 2.67 | 3.75 | 124 | 0.256 | 0.334 | 0.94 | 0.472 | 0.508 | 830.71 | 4.314 | 1.600E+05 | 2.030E+06 | 12.69 | 0.1542 | 0.916 | 0.465 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.32 | 0.00 | | |
| 25.23 | 141.65 | 1.7516 | 51.28 | 1.25 | 2.44% | 2.524 | 0.75 | 38.80 | 2.47 | 2.61 | 107 | 0.192 | 0.228 | 0.94 | 0.475 | 0.508 | 870.16 | 4.399 | 1.721E+05 | 2.030E+06 | 11.79 | 0.1542 | 0.918 | 0.466 | | 0.49 | **0.67** | <= | 2.19 | 0.024 | 0.00 | 3.32 | 0.00 | 25.14 | 25.23 |
| 25.27 | 142.41 | 1.7545 | 61.34 | 1.31 | 2.14% | 2.199 | 0.72 | 46.62 | 2.37 | 2.18 | 108 | 0.196 | 0.451 | 0.94 | 0.476 | 0.508 | 878.09 | 4.423 | 1.743E+05 | 2.030E+06 | 11.64 | 0.1542 | 0.918 | 0.467 | | 0.97 | **1.33** | | 0.00 | 0.000 | 0.00 | 3.30 | 0.00 | | |
| 25.36 | 143.59 | 1.7609 | 77.26 | 1.42 | 1.84% | 1.881 | 0.68 | 58.91 | 2.24 | 1.77 | 112 | 0.210 | 0.414 | 0.94 | 0.479 | 0.509 | 891.73 | 4.459 | 1.783E+05 | 2.030E+06 | 11.38 | 0.1542 | 0.919 | 0.467 | | 0.88 | **1.22** | <= | 0.28 | 0.003 | 0.00 | 3.30 | 0.00 | 25.27 | 25.36 |
| 25.41 | 142.98 | 1.7645 | 54.11 | 1.48 | 2.74% | 2.827 | 0.75 | 40.78 | 2.48 | 2.69 | 115 | 0.223 | 0.259 | 0.94 | 0.481 | 0.509 | 898.73 | 4.440 | 1.819E+05 | 2.030E+06 | 11.16 | 0.1542 | 0.919 | 0.468 | | 0.55 | **0.76** | <= | 2.05 | 0.012 | 0.00 | 3.29 | 0.00 | 25.36 | 25.41 |
| 25.48 | 144.43 | 1.7695 | 84.00 | 1.55 | 1.85% | 1.885 | 0.67 | 63.91 | 2.22 | 1.70 | 117 | 0.228 | 0.405 | 0.94 | 0.483 | 0.509 | 906.55 | 4.485 | 1.832E+05 | 2.030E+06 | 11.08 | 0.1542 | 0.920 | 0.468 | | 0.86 | **1.19** | <= | 0.48 | 0.004 | 0.00 | 3.28 | 0.00 | 25.41 | 25.48 |
| 25.54 | 144.95 | 1.7739 | 96.50 | 1.59 | 1.65% | 1.679 | 0.65 | 73.49 | 2.13 | 1.52 | 121 | 0.243 | 0.384 | 0.94 | 0.485 | 0.509 | 910.86 | 4.502 | 1.843E+05 | 2.030E+06 | 11.01 | 0.1542 | 0.920 | 0.468 | | 0.82 | **1.13** | <= | 0.39 | 0.003 | 0.00 | 3.28 | 0.00 | 25.48 | 25.54 |
| 25.63 | 145.87 | 1.7805 | 123.16 | 1.66 | 1.35% | 1.368 | 0.61 | 93.89 | 1.99 | 1.29 | 132 | 0.294 | 0.309 | 0.94 | 0.488 | 0.510 | 918.15 | 4.530 | 1.861E+05 | 2.030E+06 | 10.91 | 0.1542 | 0.920 | 0.469 | | 0.66 | **0.91** | <= | 0.70 | 0.008 | 0.00 | 3.27 | 0.00 | 25.54 | 25.63 |
| 25.68 | 146.25 | 1.7841 | 139.08 | 1.68 | 1.21% | 1.224 | 0.58 | 106.03 | 1.92 | 1.21 | 140 | 0.337 | 0.337 | 0.94 | 0.489 | 0.510 | 920.17 | 4.542 | 1.864E+05 | 2.030E+06 | 10.89 | 0.1542 | 0.920 | 0.469 | | 0.72 | **0.99** | <= | 0.90 | 0.005 | 0.00 | 3.27 | 0.00 | 25.63 | 25.68 |
| 25.76 | 146.79 | 1.7900 | 165.94 | 1.71 | 1.03% | 1.042 | 0.55 | 126.44 | 1.81 | 1.12 | 156 | 0.432 | 0.432 | 0.94 | 0.492 | 0.510 | 923.17 | 4.559 | 1.869E+05 | 2.030E+06 | 10.86 | 0.1542 | 0.920 | 0.469 | | 0.92 | **1.27** | <= | 0.27 | 0.003 | 0.00 | 3.26 | 0.00 | 25.68 | 25.76 |
| 25.79 | 146.91 | 1.7922 | 174.44 | 1.71 | 0.98% | 0.990 | 0.54 | 132.85 | 1.78 | 1.09 | 161 | 0.467 | 0.467 | 0.94 | 0.493 | 0.510 | 923.17 | 4.562 | 1.868E+05 | 2.030E+06 | 10.87 | 0.1542 | 0.920 | 0.469 | | 1.00 | **1.37** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 25.85 | 147.05 | 1.7966 | 185.77 | 1.71 | 0.92% | 0.929 | 0.53 | 141.29 | 1.74 | 1.07 | 167 | 0.516 | 0.516 | 0.94 | 0.495 | 0.510 | 923.17 | 4.567 | 1.866E+05 | 2.030E+06 | 10.88 | 0.1542 | 0.920 | 0.469 | | 1.10 | **1.51** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 25.92 | 147.40 | 1.8018 | 195.44 | 1.76 | 0.90% | 0.909 | 0.52 | 148.37 | 1.72 | 1.05 | 174 | 0.567 | 0.567 | 0.94 | 0.497 | 0.510 | 928.04 | 4.578 | 1.881E+05 | 2.030E+06 | 10.79 | 0.1542 | 0.920 | 0.470 | | 1.21 | **1.66** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 25.99 | 147.92 | 1.8069 | 206.28 | 1.85 | 0.90% | 0.905 | 0.52 | 156.32 | 1.70 | 1.04 | 181 | 0.634 | 0.634 | 0.94 | 0.499 | 0.511 | 936.48 | 4.594 | 1.909E+05 | 2.030E+06 | 10.63 | 0.1542 | 0.921 | 0.470 | | 1.35 | **1.86** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.07 | 148.70 | 1.8129 | 210.67 | 2.05 | 0.97% | 0.982 | 0.52 | 159.25 | 1.72 | 1.05 | 187 | 0.687 | 0.687 | 0.94 | 0.501 | 0.511 | 953.84 | 4.618 | 1.970E+05 | 2.030E+06 | 10.30 | 0.1542 | 0.922 | 0.471 | | 1.46 | **2.01** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.12 | 149.10 | 1.8166 | 217.22 | 2.14 | 0.99% | 0.993 | 0.52 | 163.97 | 1.71 | 1.05 | 192 | 0.738 | 0.738 | 0.94 | 0.503 | 0.511 | 961.11 | 4.630 | 1.995E+05 | 2.030E+06 | 10.18 | 0.1542 | 0.922 | 0.471 | | 1.57 | **2.16** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.21 | 149.81 | 1.8234 | 225.03 | 2.33 | 1.04% | 1.044 | 0.52 | 169.40 | 1.72 | 1.05 | 199 | 0.815 | 0.815 | 0.94 | 0.506 | 0.511 | 975.50 | 4.653 | 2.045E+05 | 2.030E+06 | 9.92 | 0.1542 | 0.923 | 0.472 | | 1.73 | **2.38** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.25 | 150.15 | 1.8264 | 230.69 | 2.42 | 1.05% | 1.057 | 0.52 | 173.47 | 1.72 | 1.05 | 204 | 0.867 | 0.867 | 0.94 | 0.507 | 0.511 | 981.91 | 4.663 | 2.068E+05 | 2.030E+06 | 9.82 | 0.1542 | 0.923 | 0.472 | | 1.84 | **2.53** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.34 | 150.76 | 1.8331 | 236.56 | 2.61 | 1.10% | 1.112 | 0.53 | 177.37 | 1.72 | 1.05 | 210 | 0.938 | 0.938 | 0.94 | 0.510 | 0.512 | 994.70 | 4.682 | 2.113E+05 | 2.030E+06 | 9.61 | 0.1542 | 0.924 | 0.473 | | 1.98 | **2.73** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.39 | 151.01 | 1.8369 | 239.29 | 2.69 | 1.12% | 1.133 | 0.53 | 179.14 | 1.73 | 1.06 | 211 | 0.958 | 0.958 | 0.94 | 0.511 | 0.512 | 999.81 | 4.690 | 2.131E+05 | 2.030E+06 | 9.52 | 0.1542 | 0.925 | 0.473 | | 2.02 | **2.78** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.45 | 151.39 | 1.8415 | 241.34 | 2.83 | 1.17% | 1.182 | 0.53 | 180.32 | 1.74 | 1.06 | 213 | 0.977 | 0.977 | 0.94 | 0.513 | 0.512 | 1008.39 | 4.702 | 2.163E+05 | 2.030E+06 | 9.39 | 0.1542 | 0.926 | 0.474 | | 2.06 | **2.84** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.51 | 151.66 | 1.8460 | 242.51 | 2.93 | 1.21% | 1.217 | 0.53 | 180.83 | 1.75 | 1.07 | 214 | 0.992 | 0.992 | 0.94 | 0.515 | 0.512 | 1014.26 | 4.710 | 2.184E+05 | 2.030E+06 | 9.29 | 0.1542 | 0.926 | 0.474 | | 2.09 | **2.88** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.59 | 151.81 | 1.8521 | 243.29 | 2.98 | 1.22% | 1.234 | 0.53 | 180.92 | 1.75 | 1.07 | 215 | 0.999 | 0.999 | 0.94 | 0.518 | 0.512 | 1017.12 | 4.715 | 2.194E+05 | 2.030E+06 | 9.25 | 0.1542 | 0.926 | 0.474 | | 2.11 | **2.90** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.68 | 151.93 | 1.8589 | 241.24 | 3.04 | 1.26% | 1.270 | 0.54 | 178.84 | 1.76 | 1.08 | 216 | 1.021 | 1.021 | 0.94 | 0.520 | 0.512 | 1020.50 | 4.718 | 2.207E+05 | 2.030E+06 | 9.20 | 0.1542 | 0.926 | 0.475 | | 2.15 | **2.96** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.71 | 151.97 | 1.8612 | 241.05 | 3.06 | 1.27% | 1.279 | 0.54 | 178.52 | 1.77 | 1.08 | 217 | 1.027 | 1.027 | 0.94 | 0.521 | 0.513 | 1021.61 | 4.720 | 2.211E+05 | 2.030E+06 | 9.18 | 0.1542 | 0.927 | 0.475 | | 2.16 | **2.97** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.79 | 151.94 | 1.8673 | 235.87 | 3.07 | 1.30% | 1.312 | 0.54 | 174.18 | 1.78 | 1.09 | 214 | 0.995 | 0.995 | 0.94 | 0.524 | 0.513 | 1022.16 | 4.719 | 2.214E+05 | 2.030E+06 | 9.17 | 0.1542 | 0.927 | 0.475 | | 2.09 | **2.88** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.84 | 151.90 | 1.8711 | 232.84 | 3.07 | 1.32% | 1.329 | 0.55 | 171.64 | 1.79 | 1.10 | 212 | 0.970 | 0.970 | 0.94 | 0.525 | 0.513 | 1022.16 | 4.717 | 2.215E+05 | 2.030E+06 | 9.17 | 0.1542 | 0.927 | 0.475 | | 2.04 | **2.81** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.92 | 151.76 | 1.8771 | 232.16 | 3.01 | 1.30% | 1.307 | 0.54 | 170.68 | 1.79 | 1.10 | 211 | 0.952 | 0.952 | 0.94 | 0.528 | 0.513 | 1018.82 | 4.713 | 2.202E+05 | 2.030E+06 | 9.22 | 0.1542 | 0.926 | 0.475 | | 2.00 | **2.76** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.01 | 151.60 | 1.8840 | 230.01 | 2.96 | 1.29% | 1.298 | 0.54 | 168.58 | 1.79 | 1.10 | 209 | 0.925 | 0.925 | 0.94 | 0.531 | 0.513 | 1015.99 | 4.708 | 2.192E+05 | 2.030E+06 | 9.26 | 0.1542 | 0.926 | 0.475 | | 1.95 | **2.68** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.05 | 151.51 | 1.8870 | 228.35 | 2.93 | 1.28% | 1.294 | 0.54 | 167.13 | 1.79 | 1.10 | 207 | 0.907 | 0.907 | 0.94 | 0.532 | 0.513 | 1014.26 | 4.705 | 2.186E+05 | 2.030E+06 | 9.29 | 0.1542 | 0.926 | 0.475 | | 1.91 | **2.62** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.12 | 151.37 | 1.8923 | 226.20 | 2.88 | 1.27% | 1.284 | 0.54 | 165.16 | 1.79 | 1.10 | 205 | 0.881 | 0.881 | 0.94 | 0.534 | 0.514 | 1011.35 | 4.701 | 2.176E+05 | 2.030E+06 | 9.33 | 0.1542 | 0.926 | 0.475 | | 1.85 | **2.55** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.20 | 151.20 | 1.8983 | 226.20 | 2.81 | 1.24% | 1.253 | 0.54 | 164.72 | 1.78 | 1.09 | 204 | 0.867 | 0.867 | 0.94 | 0.537 | 0.514 | 1007.19 | 4.696 | 2.160E+05 | 2.030E+06 | 9.40 | 0.1542 | 0.925 | 0.475 | | 1.82 | **2.51** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.23 | 151.15 | 1.9006 | 227.28 | 2.79 | 1.23% | 1.238 | 0.54 | 165.35 | 1.78 | 1.09 | 204 | 0.871 | 0.871 | 0.94 | 0.538 | 0.514 | 1005.98 | 4.694 | 2.156E+05 | 2.030E+06 | 9.42 | 0.1542 | 0.925 | 0.475 | | 1.83 | **2.52** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.32 | 151.07 | 1.9074 | 229.82 | 2.75 | 1.20% | 1.207 | 0.54 | 166.72 | 1.77 | 1.08 | 205 | 0.878 | 0.878 | 0.94 | 0.540 | 0.514 | 1003.54 | 4.692 | 2.147E+05 | 2.030E+06 | 9.46 | 0.1542 | 0.925 | 0.476 | | 1.85 | **2.54** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.36 | 151.05 | 1.9104 | 230.60 | 2.74 | 1.19% | 1.198 | 0.54 | 167.07 | 1.76 | 1.08 | 205 | 0.881 | 0.881 | 0.94 | 0.542 | 0.514 | 1002.92 | 4.691 | 2.144E+05 | 2.030E+06 | 9.47 | 0.1542 | 0.925 | 0.476 | | 1.85 | **2.55** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.44 | 151.06 | 1.9165 | 231.38 | 2.74 | 1.18% | 1.194 | 0.54 | 167.21 | 1.76 | 1.08 | 205 | 0.883 | 0.883 | 0.93 | 0.544 | 0.514 | 1002.92 | 4.691 | 2.144E+05 | 2.030E+06 | 9.47 | 0.1542 | 0.925 | 0.476 | | 1.86 | **2.55** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.51 | 151.14 | 1.9218 | 232.36 | 2.77 | 1.19% | 1.202 | 0.54 | 167.54 | 1.76 | 1.08 | 206 | 0.892 | 0.892 | 0.93 | 0.546 | 0.514 | 1004.76 | 4.694 | 2.151E+05 | 2.030E+06 | 9.44 | 0.1542 | 0.925 | 0.476 | | 1.87 | **2.58** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.59 | 150.25 | 1.9278 | 233.04 | 2.45 | 1.05% | 1.060 | 0.52 | 167.60 | 1.72 | 1.05 | 202 | 0.842 | 0.842 | 0.93 | 0.549 | 0.515 | 984.00 | 4.666 | 2.075E+05 | 2.030E+06 | 9.78 | 0.1542 | 0.924 | 0.475 | | 1.77 | **2.44** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.63 | 148.34 | 1.9307 | 232.55 | 1.89 | 0.81% | 0.820 | 0.50 | 167.03 | 1.64 | 1.00 | 192 | 0.736 | 0.736 | 0.93 | 0.550 | 0.515 | 940.10 | 4.607 | 1.918E+05 | 2.030E+06 | 10.58 | 0.1542 | 0.921 | 0.474 | | 1.55 | **2.14** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.72 | 148.77 | 1.9374 | 228.84 | 2.01 | 0.88% | 0.886 | 0.51 | 163.88 | 1.67 | 1.02 | 192 | 0.737 | 0.737 | 0.93 | 0.553 | 0.515 | 950.51 | 4.620 | 1.955E+05 | 2.030E+06 | 10.38 | 0.1542 | 0.921 | 0.475 | | 1.55 | **2.14** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.77 | 148.98 | 1.9412 | 226.01 | 2.08 | 0.92% | 0.928 | 0.51 | 161.58 | 1.69 | 1.03 | 191 | 0.733 | 0.733 | 0.93 | 0.554 | 0.515 | 956.30 | 4.627 | 1.977E+05 | 2.030E+06 | 10.27 | 0.1542 | 0.922 | 0.475 | | 1.54 | **2.12** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.84 | 149.11 | 1.9464 | 218.29 | 2.14 | 0.98% | 0.989 | 0.52 | 155.67 | 1.72 | 1.05 | 188 | 0.697 | 0.697 | 0.93 | 0.557 | 0.515 | 961.11 | 4.631 | 1.995E+05 | 2.030E+06 | 10.18 | 0.1542 | 0.922 | 0.475 | | 1.47 | **2.02** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.92 | 148.88 | 1.9523 | 205.01 | 2.12 | 1.03% | 1.044 | 0.54 | 145.75 | 1.76 | 1.08 | 180 | 0.621 | 0.621 | 0.93 | 0.559 | 0.515 | 959.52 | 4.624 | 1.991E+05 | 2.030E+06 | 10.19 | 0.1542 | 0.922 | 0.475 | | 1.31 | **1.80** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 27.99 | 148.44 | 1.9575 | 190.06 | 2.05 | 1.08% | 1.090 | 0.55 | 134.72 | 1.80 | 1.10 | 170 | 0.536 | 0.536 | 0.93 | 0.561 | 0.516 | 953.84 | 4.610 | 1.974E+05 | 2.030E+06 | 10.29 | 0.1542 | 0.922 | 0.475 | | 1.13 | **1.55** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 28.03 | 148.24 | 1.9605 | 185.96 | 2.01 | 1.08% | 1.092 | 0.55 | 131.62 | 1.80 | 1.11 | 167 | 0.512 | 0.512 | 0.93 | 0.563 | 0.516 | 950.51 | 4.604 | 1.962E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.475 | | 1.08 | **1.48** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 28.10 | 147.97 | 1.9657 | 176.29 | 1.97 | 1.12% | 1.130 | 0.56 | 124.43 | 1.83 | 1.13 | 161 | 0.465 | 0.465 | 0.93 | 0.565 | 0.516 | 947.11 | 4.595 | 1.952E+05 | 2.030E+06 | 10.40 | 0.1542 | 0.921 | 0.475 | | 0.98 | **1.35** | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 28.16 | 147.62 | 1.9701 | 163.69 | 1.92 | 1.17% | 1.187 | 0.57 | 115.23 | 1.87 | 1.16 | 153 | 0.410 | 0.410 | 0.93 | 0.567 | 0.516 | 942.76 | 4.584 | 1.939E+05 | 2.030E+06 | 10.47 | 0.1542 | 0.921 | 0.475 | | 0.86 | **1.19** | <= | 0.40 | 0.003 | 0.00 | 3.26 | 0.00 | 28.10 | 28.16 |
| 28.22 | 147.20 | 1.9745 | 154.71 | 1.85 | 1.20% | 1.211 | 0.58 | 108.63 | 1.90 | 1.19 | 146 | 0.372 | 0.372 | 0.93 | 0.568 | 0.516 | 936.48 | 4.571 | 1.918E+05 | 2.030E+06 | 10.58 | 0.1542 | 0.921 | 0.475 | | 0.78 | **1.08** | <= | 0.57 | 0.004 | 0.00 | 3.25 | 0.00 | 28.16 | 28.22 |
| 28.28 | 146.58 | 1.9789 | 144.94 | 1.74 | 1.20% | 1.217 | 0.58 | 101.49 | 1.92 | 1.21 | 139 | 0.331 | 0.331 | 0.93 | 0.570 | 0.516 | 926.11 | 4.552 | 1.884E+05 | 2.030E+06 | 10.77 | 0.1542 | 0.920 | 0.475 | | 0.70 | **0.96** | <= | 0.82 | 0.006 | 0.00 | 3.25 | 0.00 | 28.22 | 28.28 |
| 28.36 | 145.76 | 1.9847 | 129.31 | 1.61 | 1.25% | 1.264 | 0.60 | 90.18 | 1.97 | 1.26 | 129 | 0.279 | 0.309 | 0.93 | 0.573 | 0.516 | 912.97 | 4.527 | 1.841E+05 | 2.030E+06 | 11.02 | 0.1542 | 0.920 | 0.475 | | 0.65 | **0.89** | <= | 1.39 | 0.013 | 0.00 | 3.24 | 0.00 | 28.28 | 28.36 |
| 28.43 | 145.51 | 1.9898 | 118.67 | 1.61 | 1.36% | 1.380 | 0.62 | 82.47 | 2.03 | 1.34 | 124 | 0.257 | 0.341 | 0.93 | 0.575 | 0.517 | 912.97 | 4.519 | 1.844E+05 | 2.030E+06 | 11.01 | 0.1542 | 0.920 | 0.475 | | 0.72 | **0.99** | <= | 1.07 | 0.009 | 0.00 | 3.23 | 0.00 | 28.36 | 28.43 |
| 28.48 | 145.33 | 1.9935 | 107.05 | 1.62 | 1.51% | 1.542 | 0.64 | 74.15 | 2.09 | 1.45 | 120 | 0.240 | 0.343 | 0.93 | 0.577 | 0.517 | 914.02 | 4.513 | 1.851E+05 | 2.030E+06 | 10.97 | 0.1542 | 0.920 | 0.475 | | 0.72 | **0.99** | <= | 1.14 | 0.007 | 0.00 | 3.22 | 0.00 | 28.43 | 28.48 |
| 28.56 | 144.87 | 1.9993 | 94.06 | 1.59 | 1.69% | 1.727 | 0.66 | 64.82 | 2.17 | 1.60 | 116 | 0.224 | 0.382 | 0.93 | 0.579 | 0.517 | 910.86 | 4.499 | 1.844E+05 | 2.030E+06 | 11.01 | 0.1542 | 0.920 | 0.476 | | 0.80 | **1.11** | <= | 0.37 | 0.004 | 0.00 | 3.22 | 0.00 | 28.48 | 28.56 |
| 28.61 | 144.70 | 2.0029 | 81.65 | 1.63 | 2.00% | 2.047 | 0.69 | 56.00 | 2.27 | 1.86 | 115 | 0.222 | 0.421 | 0.93 | 0.581 | 0.517 | 915.06 | 4.494 | 1.863E+05 | 2.030E+06 | 10.89 | 0.1542 | 0.920 | 0.476 | | 0.89 | **1.22** | <= | 0.28 | 0.002 | 0.00 | 3.21 | 0.00 | 28.56 | 28.61 |
| 28.70 | 143.99 | 2.0094 | 63.09 | 1.61 | 2.55% | 2.636 | 0.74 | 42.84 | 2.44 | 2.47 | 115 | 0.221 | 0.245 | 0.93 | 0.583 | 0.517 | 912.97 | 4.472 | 1.864E+05 | 2.030E+06 | 10.89 | 0.1542 | 0.920 | 0.476 | | 0.52 | **0.71** | <= | 2.06 | 0.022 | 0.00 | 3.21 | 0.00 | 28.61 | 28.70 |
| 28.74 | 143.58 | 2.0122 | 57.62 | 1.57 | 2.72% | 2.823 | 0.75 | 38.95 | 2.49 | 2.72 | 114 | 0.219 | 0.249 | 0.93 | 0.585 | 0.517 | 908.72 | 4.459 | 1.852E+05 | 2.030E+06 | 10.96 | 0.1542 | 0.920 | 0.476 | | 0.52 | **0.72** | <= | 2.07 | 0.010 | 0.00 | 3.19 | 0.00 | 28.70 | 28.74 |
| 28.84 | 143.15 | 2.0194 | 48.54 | 1.57 | 3.23% | 3.375 | 0.79 | 32.50 | 2.60 | 3.35 | 116 | 0.226 | 0.270 | 0.93 | 0.588 | 0.518 | 908.72 | 4.446 | 1.857E+05 | 2.030E+06 | 10.93 | 0.1542 | 0.920 | 0.476 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 28.88 | 143.17 | 2.0223 | 47.27 | 1.58 | 3.34% | 3.492 | 0.79 | 31.57 | 2.62 | 3.47 | 117 | 0.229 | 0.278 | 0.93 | 0.589 | 0.518 | 909.79 | 4.446 | 1.862E+05 | 2.030E+06 | 10.90 | 0.1542 | 0.920 | 0.476 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 28.97 | 143.01 | 2.0287 | 44.73 | 1.58 | 3.53% | 3.700 | 0.81 | 29.72 | 2.66 | 3.72 | 123 | 0.252 | 0.306 | 0.93 | 0.592 | 0.518 | 909.79 | 4.441 | 1.864E+05 | 2.030E+06 | 10.89 | 0.1542 | 0.920 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.01 | 142.78 | 2.0315 | 42.00 | 1.56 | 3.71% | 3.903 | 0.82 | 27.79 | 2.70 | 3.99 | 132 | 0.292 | 0.292 | 0.93 | 0.593 | 0.518 | 907.64 | 4.434 | 1.858E+05 | 2.030E+06 | 10.93 | 0.1542 | 0.920 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.10 | 142.02 | 2.0379 | 35.94 | 1.48 | 4.12% | 4.366 | 0.84 | 23.51 | 2.79 | 4.68 | 155 | 0.423 | 0.423 | 0.93 | 0.596 | 0.518 | 898.73 | 4.411 | 1.831E+05 | 2.030E+06 | 11.08 | 0.1542 | 0.920 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.14 | 141.70 | 2.0408 | 34.18 | 1.44 | 4.21% | 4.481 | 0.85 | 22.26 | 2.81 | 4.90 | 162 | 0.474 | 0.474 | 0.93 | 0.597 | 0.518 | 894.10 | 4.401 | 1.817E+05 | 2.030E+06 | 11.17 | 0.1542 | 0.919 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.23 | 141.02 | 2.0471 | 29.30 | 1.38 | 4.71% | 5.064 | 0.88 | 18.83 | 2.91 | 5.76 | 190 | 0.719 | 0.719 | 0.93 | 0.600 | 0.519 | 886.90 | 4.380 | 1.796E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.27 | 140.87 | 2.0499 | 28.62 | 1.37 | 4.79% | 5.156 | 0.88 | 18.34 | 2.92 | 5.90 | 195 | 0.767 | 0.767 | 0.93 | 0.601 | 0.519 | 885.67 | 4.375 | 1.793E+05 | 2.030E+06 | 11.32 | 0.1542 | 0.919 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.37 | 140.93 | 2.0570 | 28.32 | 1.38 | 4.87% | 5.255 | 0.89 | 18.08 | 2.93 | 6.01 | 198 | 0.804 | 0.804 | 0.93 | 0.604 | 0.519 | 886.90 | 4.377 | 1.797E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.41 | 141.00 | 2.0598 | 28.81 | 1.39 | 4.82% | 5.196 | 0.88 | 18.40 | 2.92 | 5.91 | 195 | 0.771 | 0.771 | 0.93 | 0.606 | 0.519 | 888.12 | 4.379 | 1.801E+05 | 2.030E+06 | 11.27 | 0.1542 | 0.919 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.47 | 141.17 | 2.0640 | 30.67 | 1.39 | 4.53% | 4.859 | 0.87 | 19.64 | 2.88 | 5.50 | 182 | 0.637 | 0.637 | 0.93 | 0.607 | 0.519 | 888.12 | 4.384 | 1.799E+05 | 2.030E+06 | 11.28 | 0.1542 | 0.919 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.54 | 141.01 | 2.0690 | 33.01 | 1.33 | 4.03% | 4.298 | 0.85 | 21.20 | 2.82 | 4.93 | 163 | 0.481 | 0.481 | 0.93 | 0.610 | 0.519 | 880.66 | 4.379 | 1.771E+05 | 2.030E+06 | 11.46 | 0.1542 | 0.919 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.63 | 140.74 | 2.0753 | 36.24 | 1.24 | 3.42% | 3.629 | 0.83 | 23.35 | 2.73 | 4.26 | 140 | 0.338 | 0.338 | 0.93 | 0.612 | 0.520 | 868.80 | 4.371 | 1.727E+05 | 2.030E+06 | 11.75 | 0.1542 | 0.918 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.67 | 140.68 | 2.0781 | 38.29 | 1.21 | 3.16% | 3.341 | 0.82 | 24.73 | 2.69 | 3.93 | 130 | 0.283 | 0.363 | 0.93 | 0.614 | 0.520 | 864.66 | 4.369 | 1.711E+05 | 2.030E+06 | 11.86 | 0.1542 | 0.918 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.18 | 0.00 | | |
| 29.73 | 140.65 | 2.0823 | 43.66 | 1.15 | 2.63% | 2.766 | 0.78 | 28.35 | 2.59 | 3.26 | 108 | 0.196 | 0.243 | 0.93 | 0.616 | 0.520 | 856.06 | 4.368 | 1.678E+05 | 2.030E+06 | 12.10 | 0.1542 | 0.917 | 0.477 | | 0.51 | **0.70** | <= | 2.17 | 0.016 | 0.00 | 3.18 | 0.00 | 29.67 | 29.73 |
| 29.81 | 140.35 | 2.0880 | 50.10 | 1.06 | 2.12% | 2.208 | 0.75 | 32.66 | 2.48 | 2.65 | 94 | 0.158 | 0.193 | 0.93 | 0.618 | 0.520 | 842.27 | 4.359 | 1.628E+05 | 2.030E+06 | 12.47 | 0.1542 | 0.916 | 0.476 | | 0.40 | **0.56** | <= | 2.42 | 0.023 | 0.00 | 3.16 | 0.00 | 29.73 | 29.81 |
| 29.88 | 140.18 | 2.0929 | 55.96 | 1.00 | 1.79% | 1.856 | 0.72 | 36.58 | 2.39 | 2.26 | 91 | 0.150 | 0.179 | 0.93 | 0.620 | 0.520 | 832.41 | 4.353 | 1.592E+05 | 2.030E+06 | 12.75 | 0.1542 | 0.915 | 0.476 | | 0.38 | **0.52** | <= | 2.49 | 0.021 | 0.00 | 3.14 | 0.00 | 29.81 | 29.88 |
| 29.94 | 140.07 | 2.0971 | 60.46 | 0.96 | 1.59% | 1.645 | 0.71 | 39.57 | 2.32 | 2.03 | 89 | 0.146 | 0.381 | 0.93 | 0.622 | 0.520 | 825.51 | 4.350 | 1.567E+05 | 2.030E+06 | 12.96 | 0.1542 | 0.915 | 0.476 | | 0.80 | **1.10** | <= | 0.43 | 0.003 | 0.00 | 3.12 | 0.00 | 29.88 | 29.94 |
| 29.99 | 139.64 | 2.1006 | 62.41 | 0.89 | 1.43% | 1.476 | 0.69 | 40.84 | 2.28 | 1.90 | 86 | 0.140 | 0.365 | 0.93 | 0.624 | 0.520 | 812.70 | 4.337 | 1.523E+05 | 2.030E+06 | 13.33 | 0.1542 | 0.914 | 0.476 | | 0.77 | **1.06** | <= | 0.83 | 0.005 | 0.00 | 3.11 | 0.00 | 29.94 | 29.99 |
| 30.08 | 115.70 | 2.1058 | 66.22 | 0.51 | 0.77% | 0.795 | 0.64 | 43.34 | 2.10 | 1.46 | 72 | 0.114 | 0.315 | 0.93 | 0.626 | 0.522 | 718.51 | 3.593 | 1.437E+05 | 1.437E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.61 | **0.84** | <= | 3.01 | 0.031 | 0.00 | 3.11 | 0.00 | 29.99 | 30.08 |
| 30.12 | 116.29 | 2.1081 | 67.49 | 0.55 | 0.81% | 0.841 | 0.64 | 44.17 | 2.11 | 1.47 | 74 | 0.117 | 0.307 | 0.93 | 0.628 | 0.522 | 731.28 | 3.611 | 1.481E+05 | 1.481E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.59 | **0.82** | <= | 2.95 | 0.013 | 0.00 | 3.08 | 0.00 | 30.08 | 30.12 |
| 30.21 | 117.33 | 2.1134 | 69.25 | 0.63 | 0.91% | 0.938 | 0.65 | 45.28 | 2.13 | 1.50 | 77 | 0.123 | 0.321 | 0.93 | 0.631 | 0.522 | 754.26 | 3.644 | 1.561E+05 | 1.561E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.62 | **0.86** | <= | 2.84 | 0.029 | 0.00 | 3.07 | 0.00 | 30.12 | 30.21 |
| 30.28 | 117.94 | 2.1175 | 69.93 | 0.69 | 0.99% | 1.018 | 0.65 | 45.67 | 2.14 | 1.54 | 80 | 0.127 | 0.316 | 0.93 | 0.633 | 0.522 | 769.64 | 3.663 | 1.617E+05 | 1.617E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.61 | **0.84** | <= | 2.77 | 0.022 | 0.00 | 3.04 | 0.00 | 30.21 | 30.28 |
| 30.33 | 118.35 | 2.1205 | 69.25 | 0.73 | 1.05% | 1.087 | 0.66 | 45.17 | 2.16 | 1.58 | 81 | 0.129 | 0.322 | 0.93 | 0.634 | 0.522 | 779.18 | 3.675 | 1.652E+05 | 1.652E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.62 | **0.86** | <= | 2.74 | 0.016 | 0.00 | 3.01 | 0.00 | 30.28 | 30.33 |
| 30.42 | 118.76 | 2.1258 | 67.49 | 0.78 | 1.16% | 1.193 | 0.67 | 43.91 | 2.20 | 1.66 | 82 | 0.132 | 0.329 | 0.93 | 0.637 | 0.522 | 790.38 | 3.688 | 1.694E+05 | 1.694E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.64 | **0.88** | <= | 2.70 | 0.028 | 0.00 | 3.00 | 0.00 | 30.33 | 30.42 |
| 30.46 | 119.07 | 2.1282 | 68.56 | 0.81 | 1.18% | 1.219 | 0.67 | 44.59 | 2.20 | 1.66 | 84 | 0.134 | 0.336 | 0.93 | 0.638 | 0.522 | 796.77 | 3.698 | 1.717E+05 | 1.717E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.65 | **0.89** | <= | 2.67 | 0.012 | 0.00 | 2.97 | 0.00 | 30.42 | 30.46 |
| 30.51 | 119.37 | 2.1312 | 68.56 | 0.84 | 1.23% | 1.265 | 0.67 | 44.55 | 2.21 | 1.69 | 85 | 0.137 | 0.341 | 0.93 | 0.640 | 0.522 | 802.92 | 3.707 | 1.739E+05 | 1.739E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.66 | **0.91** | <= | 1.18 | 0.007 | 0.00 | 2.96 | 0.00 | 30.46 | 30.51 |
| 30.60 | 119.92 | 2.1366 | 67.68 | 0.91 | 1.34% | 1.388 | 0.68 | 43.88 | 2.24 | 1.77 | 87 | 0.142 | 0.337 | 0.93 | 0.643 | 0.522 | 816.46 | 3.724 | 1.790E+05 | 1.790E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.65 | **0.90** | <= | 2.58 | 0.026 | 0.00 | 2.95 | 0.00 | 30.51 | 30.60 |
| 30.65 | 120.38 | 2.1396 | 67.49 | 0.97 | 1.44% | 1.484 | 0.69 | 43.70 | 2.26 | 1.82 | 89 | 0.146 | 0.349 | 0.93 | 0.644 | 0.522 | 827.26 | 3.739 | 1.831E+05 | 1.831E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.68 | **0.93** | <= | 1.45 | 0.009 | 0.00 | 2.93 | 0.00 | 30.60 | 30.65 |
| 30.71 | 121.04 | 2.1432 | 66.51 | 1.06 | 1.59% | 1.647 | 0.70 | 43.00 | 2.29 | 1.93 | 93 | 0.154 | 0.367 | 0.93 | 0.646 | 0.522 | 842.27 | 3.759 | 1.887E+05 | 1.887E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.71 | **0.98** | <= | 2.14 | 0.015 | 0.00 | 2.92 | 0.00 | 30.65 | 30.71 |
| 30.78 | 121.63 | 2.1475 | 65.73 | 1.16 | 1.76% | 1.824 | 0.71 | 42.41 | 2.33 | 2.04 | 96 | 0.163 | 0.390 | 0.92 | 0.648 | 0.522 | 857.52 | 3.777 | 1.947E+05 | 1.947E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.76 | **1.04** | <= | 0.70 | 0.006 | 0.00 | 2.90 | 0.00 | 30.71 | 30.78 |
| 30.87 | 122.06 | 2.1529 | 62.61 | 1.25 | 2.00% | 2.068 | 0.72 | 40.26 | 2.38 | 2.24 | 100 | 0.173 | 0.199 | 0.92 | 0.651 | 0.522 | 870.16 | 3.791 | 1.997E+05 | 1.997E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.39 | **0.53** | <= | 2.31 | 0.024 | 0.00 | 2.90 | 0.00 | 30.78 | 30.87 |
| 30.91 | 122.17 | 2.1554 | 62.51 | 1.27 | 2.03% | 2.104 | 0.72 | 40.16 | 2.39 | 2.26 | 101 | 0.175 | 0.201 | 0.92 | 0.652 | 0.522 | 872.85 | 3.794 | 2.008E+05 | 2.008E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.39 | **0.54** | <= | 2.30 | 0.011 | 0.00 | 2.87 | 0.00 | 30.87 | 30.91 |
| 31.00 | 122.43 | 2.1609 | 62.51 | 1.31 | 2.10% | 2.171 | 0.73 | 40.08 | 2.40 | 2.30 | 102 | 0.179 | 0.206 | 0.92 | 0.655 | 0.522 | 878.09 | 3.802 | 2.028E+05 | 2.028E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.40 | **0.55** | <= | 2.27 | 0.023 | 0.00 | 2.86 | 0.00 | 30.91 | 31.00 |
| 31.04 | 122.54 | 2.1634 | 62.41 | 1.33 | 2.13% | 2.208 | 0.73 | 39.98 | 2.40 | 2.32 | 103 | 0.181 | 0.209 | 0.92 | 0.656 | 0.522 | 880.66 | 3.806 | 2.038E+05 | 2.038E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.40 | **0.56** | <= | 2.26 | 0.010 | 0.00 | 2.84 | 0.00 | 31.00 | 31.04 |
| 31.13 | 122.91 | 2.1689 | 67.98 | 1.36 | 2.00% | 2.067 | 0.71 | 43.59 | 2.35 | 2.13 | 103 | 0.183 | 0.418 | 0.92 | 0.659 | 0.522 | 884.43 | 3.817 | 2.049E+05 | 2.049E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.81 | **1.11** | <= | 0.41 | 0.004 | 0.00 | 2.83 | 0.00 | 31.04 | 31.13 |
| 31.18 | 123.11 | 2.1720 | 71.20 | 1.38 | 1.94% | 1.999 | 0.71 | 45.68 | 2.33 | 2.04 | 104 | 0.185 | 0.403 | 0.92 | 0.661 | 0.522 | 886.90 | 3.823 | 2.057E+05 | 2.057E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.78 | **1.07** | <= | 0.76 | 0.005 | 0.00 | 2.82 | 0.00 | 31.13 | 31.18 |
| 31.24 | 123.22 | 2.1757 | 73.15 | 1.39 | 1.90% | 1.958 | 0.70 | 46.91 | 2.31 | 1.99 | 104 | 0.186 | 0.405 | 0.92 | 0.663 | 0.522 | 888.12 | 3.827 | 2.061E+05 | 2.061E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.78 | **1.08** | <= | 0.78 | 0.006 | 0.00 | 2.82 | 0.00 | 31.18 | 31.24 |
| 31.32 | 123.14 | 2.1806 | 74.42 | 1.37 | 1.84% | 1.896 | 0.70 | 47.67 | 2.30 | 1.94 | 104 | 0.184 | 0.382 | 0.92 | 0.665 | 0.522 | 885.67 | 3.824 | 2.051E+05 | 2.051E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.74 | **1.02** | <= | 0.59 | 0.006 | 0.00 | 2.81 | 0.00 | 31.24 | 31.32 |
| 31.36 | 123.18 | 2.1830 | 75.11 | 1.37 | 1.82% | 1.879 | 0.70 | 48.09 | 2.29 | 1.92 | 104 | 0.184 | 0.382 | 0.92 | 0.666 | 0.522 | 885.67 | 3.825 | 2.050E+05 | 2.050E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.74 | **1.02** | <= | 0.60 | 0.003 | 0.00 | 2.81 | 0.00 | 31.32 | 31.36 |
| 31.43 | 123.26 | 2.1874 | 75.69 | 1.38 | 1.82% | 1.877 | 0.69 | 48.40 | 2.29 | 1.91 | 104 | 0.185 | 0.384 | 0.92 | 0.669 | 0.522 | 886.90 | 3.828 | 2.055E+05 | 2.055E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.74 | **1.02** | <= | 0.61 | 0.005 | 0.00 | 2.80 | 0.00 | 31.36 | 31.43 |
| 31.52 | 123.37 | 2.1929 | 76.87 | 1.39 | 1.81% | 1.861 | 0.69 | 49.08 | 2.28 | 1.89 | 104 | 0.186 | 0.387 | 0.92 | 0.671 | 0.522 | 888.12 | 3.831 | 2.059E+05 | 2.059E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.75 | **1.03** | <= | 0.63 | 0.007 | 0.00 | 2.80 | 0.00 | 31.43 | 31.52 |
| 31.58 | 123.52 | 2.1966 | 77.65 | 1.42 | 1.83% | 1.882 | 0.69 | 49.53 | 2.28 | 1.89 | 105 | 0.189 | 0.394 | 0.92 | 0.673 | 0.522 | 891.73 | 3.836 | 2.073E+05 | 2.073E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.76 | **1.05** | <= | 0.68 | 0.005 | 0.00 | 2.79 | 0.00 | 31.52 | 31.58 |
| 31.64 | 123.64 | 2.2003 | 78.43 | 1.44 | 1.84% | 1.889 | 0.69 | 49.98 | 2.28 | 1.89 | 106 | 0.191 | 0.379 | 0.92 | 0.675 | 0.522 | 894.10 | 3.840 | 2.082E+05 | 2.082E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.74 | **1.01** | <= | 0.57 | 0.004 | 0.00 | 2.79 | 0.00 | 31.58 | 31.64 |
| 31.71 | 123.73 | 2.2047 | 78.82 | 1.45 | 1.84% | 1.893 | 0.69 | 50.16 | 2.28 | 1.88 | 106 | 0.192 | 0.382 | 0.92 | 0.677 | 0.521 | 895.27 | 3.843 | 2.086E+05 | 2.086E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.74 | **1.02** | <= | 0.58 | 0.005 | 0.00 | 2.78 | 0.00 | 31.64 | 31.71 |
| 31.77 | 123.74 | 2.2084 | 79.11 | 1.45 | 1.83% | 1.886 | 0.69 | 50.29 | 2.28 | 1.88 | 106 | 0.192 | 0.382 | 0.92 | 0.679 | 0.521 | 895.27 | 3.843 | 2.086E+05 | 2.086E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.74 | **1.02** | <= | 0.58 | 0.004 | 0.00 | 2.78 | 0.00 | 31.71 | 31.77 |
| 31.84 | 123.84 | 2.2127 | 79.60 | 1.47 | 1.85% | 1.900 | 0.69 | 50.54 | 2.28 | 1.88 | 107 | 0.194 | 0.386 | 0.92 | 0.681 | 0.521 | 897.59 | 3.846 | 2.095E+05 | 2.095E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.75 | **1.03** | <= | 0.62 | 0.005 | 0.00 | 2.77 | 0.00 | 31.77 | 31.84 |
| 31.90 | 123.88 | 2.2164 | 79.60 | 1.48 | 1.86% | 1.913 | 0.69 | 50.47 | 2.28 | 1.88 | 107 | 0.195 | 0.388 | 0.92 | 0.683 | 0.521 | 898.73 | 3.847 | 2.099E+05 | 2.099E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.75 | **1.04** | <= | 0.63 | 0.005 | 0.00 | 2.77 | 0.00 | 31.84 | 31.90 |
| 31.98 | 124.07 | 2.2214 | 80.09 | 1.51 | 1.89% | 1.939 | 0.69 | 50.71 | 2.28 | 1.89 | 108 | 0.198 | 0.395 | 0.91 | 0.686 | 0.521 | 902.13 | 3.853 | 2.112E+05 | 2.112E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.77 | **1.05** | <= | 0.68 | 0.007 | 0.00 | 2.76 | 0.00 | 31.90 | 31.98 |
| 32.03 | 124.24 | 2.2245 | 80.87 | 1.54 | 1.90% | 1.958 | 0.69 | 51.16 | 2.28 | 1.89 | 109 | 0.201 | 0.382 | 0.91 | 0.687 | 0.521 | 905.45 | 3.858 | 2.125E+05 | 2.125E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.74 | **1.02** | <= | 0.58 | 0.003 | 0.00 | 2.76 | 0.00 | 31.98 | 32.03 |
| 32.11 | 122.05 | 2.2294 | 82.14 | 1.14 | 1.39% | 1.427 | 0.66 | 51.91 | 2.18 | 1.63 | 96 | 0.163 | 0.343 | 0.91 | 0.690 | 0.521 | 854.58 | 3.790 | 1.927E+05 | 1.927E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.67 | **0.92** | <= | 1.02 | 0.010 | 0.00 | 2.75 | 0.00 | 32.03 | 32.11 |
| 32.21 | 120.72 | 2.2354 | 84.78 | 0.94 | 1.11% | 1.139 | 0.64 | 53.52 | 2.11 | 1.47 | 91 | 0.150 | 0.314 | 0.91 | 0.693 | 0.521 | 821.95 | 3.749 | 1.802E+05 | 1.802E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.61 | **0.84** | <= | 2.05 | 0.025 | 0.00 | 2.74 | 0.00 | 32.11 | 32.21 |
| 32.25 | 121.43 | 2.2378 | 86.14 | 1.03 | 1.20% | 1.228 | 0.65 | 54.35 | 2.13 | 1.50 | 94 | 0.157 | 0.315 | 0.91 | 0.694 | 0.521 | 837.41 | 3.771 | 1.860E+05 | 1.860E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.61 | **0.84** | <= | 1.98 | 0.010 | 0.00 | 2.72 | 0.00 | 32.21 | 32.25 |
| 32.29 | 122.08 | 2.2403 | 87.41 | 1.12 | 1.28% | 1.315 | 0.65 | 55.13 | 2.14 | 1.53 | 97 | 0.165 | 0.330 | 0.91 | 0.695 | 0.521 | 851.58 | 3.791 | 1.913E+05 | 1.913E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.64 | **0.88** | <= | 2.22 | 0.011 | 0.00 | 2.71 | 0.00 | 32.25 | 32.29 |
| 32.37 | 122.89 | 2.2452 | 89.95 | 1.24 | 1.38% | 1.414 | 0.65 | 56.68 | 2.15 | 1.55 | 101 | 0.176 | 0.336 | 0.91 | 0.698 | 0.521 | 868.80 | 3.816 | 1.978E+05 | 1.978E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.65 | **0.90** | <= | 2.27 | 0.021 | 0.00 | 2.70 | 0.00 | 32.29 | 32.37 |
| 32.42 | 123.20 | 2.2483 | 91.03 | 1.29 | 1.42% | 1.453 | 0.65 | 57.32 | 2.15 | 1.56 | 103 | 0.181 | 0.346 | 0.91 | 0.700 | 0.521 | 875.49 | 3.826 | 2.003E+05 | 2.003E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.67 | **0.92** | <= | 1.00 | 0.006 | 0.00 | 2.68 | 0.00 | 32.37 | 32.42 |
| 32.50 | 123.21 | 2.2532 | 92.20 | 1.28 | 1.39% | 1.423 | 0.65 | 57.99 | 2.14 | 1.54 | 103 | 0.181 | 0.329 | 0.91 | 0.702 | 0.521 | 874.17 | 3.826 | 1.997E+05 | 1.997E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.64 | **0.88** | <= | 2.09 | 0.020 | 0.00 | 2.67 | 0.00 | 32.42 | 32.50 |
| 32.55 | 123.06 | 2.2563 | 94.15 | 1.25 | 1.33% | 1.360 | 0.65 | 59.18 | 2.12 | 1.50 | 102 | 0.179 | 0.327 | 0.91 | 0.704 | 0.521 | 870.16 | 3.822 | 1.981E+05 | 1.981E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.63 | **0.87** | <= | 2.06 | 0.012 | 0.00 | 2.65 | 0.00 | 32.50 | 32.55 |
| 32.63 | 123.13 | 2.2612 | 93.37 | 1.26 | 1.35% | 1.383 | 0.65 | 58.59 | 2.13 | 1.51 | 102 | 0.179 | 0.328 | 0.91 | 0.706 | 0.521 | 871.51 | 3.824 | 1.986E+05 | 1.986E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.64 | **0.87** | <= | 2.07 | 0.020 | 0.00 | 2.64 | 0.00 | 32.55 | 32.63 |
| 32.72 | 123.42 | 2.2668 | 89.66 | 1.33 | 1.48% | 1.522 | 0.66 | 56.10 | 2.17 | 1.61 | 103 | 0.183 | 0.351 | 0.91 | 0.709 | 0.521 | 880.66 | 3.833 | 2.023E+05 | 2.023E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.68 | **0.94** | <= | 1.08 | 0.012 | 0.00 | 2.62 | 0.00 | 32.63 | 32.72 |
| 32.76 | 123.71 | 2.2692 | 84.00 | 1.42 | 1.69% | 1.737 | 0.68 | 52.42 | 2.24 | 1.76 | 105 | 0.188 | 0.361 | 0.91 | 0.710 | 0.521 | 891.73 | 3.842 | 2.070E+05 | 2.070E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.70 | **0.96** | <= | 1.22 | 0.006 | 0.00 | 2.61 | 0.00 | 32.72 | 32.76 |
| 32.85 | 124.12 | 2.2748 | 75.89 | 1.55 | 2.04% | 2.106 | 0.71 | 47.13 | 2.33 | 2.05 | 109 | 0.199 | 0.403 | 0.91 | 0.713 | 0.521 | 906.55 | 3.855 | 2.132E+05 | 2.132E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.78 | **1.07** | <= | 0.74 | 0.008 | 0.00 | 2.60 | 0.00 | 32.76 | 32.85 |
| 32.89 | 123.97 | 2.2773 | 70.42 | 1.56 | 2.22% | 2.289 | 0.72 | 43.59 | 2.38 | 2.24 | 109 | 0.201 | 0.217 | 0.91 | 0.714 | 0.521 | 907.64 | 3.850 | 2.140E+05 | 2.140E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.42 | **0.58** | <= | 2.15 | 0.010 | 0.00 | 2.60 | 0.00 | 32.85 | 32.89 |
| 32.94 | 123.70 | 2.2804 | 63.09 | 1.56 | 2.47% | 2.565 | 0.74 | 38.86 | 2.45 | 2.55 | 110 | 0.203 | 0.231 | 0.91 | 0.716 | 0.521 | 907.64 | 3.842 | 2.144E+05 | 2.144E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.45 | **0.62** | <= | 2.14 | 0.012 | 0.00 | 2.59 | 0.00 | 32.89 | 32.94 |
| 33.03 | 123.45 | 2.2859 | 57.14 | 1.56 | 2.73% | 2.844 | 0.76 | 35.00 | 2.52 | 2.87 | 111 | 0.206 | 0.240 | 0.91 | 0.719 | 0.521 | 907.64 | 3.834 | 2.149E+05 | 2.149E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.47 | **0.64** | <= | 2.12 | 0.022 | 0.00 | 2.57 | 0.00 | 32.94 | 33.03 |
| 33.07 | 123.29 | 2.2884 | 53.82 | 1.55 | 2.88% | 3.008 | 0.78 | 32.85 | 2.56 | 3.08 | 111 | 0.207 | 0.246 | 0.91 | 0.720 | 0.521 | 906.55 | 3.829 | 2.146E+05 | 2.146E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.48 | **0.66** | <= | 2.12 | 0.010 | 0.00 | 2.55 | 0.00 | 33.03 | 33.07 |
| 33.16 | 122.94 | 2.2939 | 50.40 | 1.51 | 3.00% | 3.139 | 0.79 | 30.61 | 2.59 | 3.30 | 110 | 0.204 | 0.243 | 0.91 | 0.723 | 0.521 | 902.13 | 3.818 | 2.132E+05 | 2.132E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.47 | **0.65** | <= | 2.13 | 0.022 | 0.00 | 2.54 | 0.00 | 33.07 | 33.16 |
| 33.21 | 122.71 | 2.2970 | 50.40 | 1.47 | 2.92% | 3.056 | 0.78 | 30.58 | 2.59 | 3.25 | 109 | 0.199 | 0.242 | 0.90 | 0.724 | 0.521 | 897.59 | 3.811 | 2.114E+05 | 2.114E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.47 | **0.65** | <= | 2.16 | 0.012 | 0.00 | 2.52 | 0.00 | 33.16 | 33.21 |
| 33.30 | 122.00 | 2.3025 | 50.40 | 1.33 | 2.64% | 2.765 | 0.78 | 30.53 | 2.56 | 3.08 | 103 | 0.182 | 0.221 | 0.90 | 0.727 | 0.521 | 880.66 | 3.789 | 2.047E+05 | 2.047E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.43 | **0.59** | <= | 2.25 | 0.023 | 0.00 | 2.51 | 0.00 | 33.21 | 33.30 |
| 33.34 | 121.76 | 2.3049 | 50.50 | 1.29 | 2.55% | 2.677 | 0.77 | 30.57 | 2.55 | 3.02 | 102 | 0.177 | 0.215 | 0.90 | 0.728 | 0.521 | 875.49 | 3.781 | 2.027E+05 | 2.027E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.42 | **0.58** | <= | 2.28 | 0.010 | 0.00 | 2.48 | 0.00 | 33.30 | 33.34 |
| 33.43 | 121.48 | 2.3104 | 51.67 | 1.23 | 2.38% | 2.492 | 0.76 | 31.25 | 2.52 | 2.87 | 99 | 0.170 | 0.206 | 0.90 | 0.731 | 0.520 | 867.43 | 3.773 | 1.994E+05 | 1.994E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.40 | **0.55** | <= | 2.33 | 0.024 | 0.00 | 2.47 | 0.00 | 33.34 | 33.43 |
| 33.48 | 121.44 | 2.3134 | 52.64 | 1.21 | 2.30% | 2.404 | 0.76 | 31.83 | 2.50 | 2.78 | 98 | 0.167 | 0.203 | 0.90 | 0.733 | 0.520 | 864.66 | 3.771 | 1.982E+05 | 1.982E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.39 | **0.54** | <= | 2.35 | 0.013 | 0.00 | 2.45 | 0.00 | 33.43 | 33.48 |
| 33.56 | 121.36 | 2.3183 | 53.03 | 1.20 | 2.26% | 2.366 | 0.76 | 32.03 | 2.50 | 2.75 | 97 | 0.166 | 0.202 | 0.90 | 0.735 | 0.520 | 863.26 | 3.769 | 1.977E+05 | 1.977E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.39 | **0.54** | <= | 2.36 | 0.022 | 0.00 | 2.44 | 0.00 | 33.48 | 33.56 |
| 33.61 | 121.30 | 2.3213 | 51.96 | 1.20 | 2.31% | 2.417 | 0.76 | 31.32 | 2.51 | 2.82 | 98 | 0.166 | 0.202 | 0.90 | 0.737 | 0.520 | 863.26 | 3.767 | 1.978E+05 | 1.978E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.39 | **0.54** | <= | 2.35 | 0.014 | 0.00 | 2.41 | 0.00 | 33.56 | 33.61 |
| 33.70 | 121.13 | 2.3268 | 48.35 | 1.20 | 2.48% | 2.607 | 0.78 | 28.99 | 2.56 | 3.08 | 102 | 0.178 | 0.220 | 0.90 | 0.739 | 0.520 | 863.26 | 3.762 | 1.981E+05 | 1.981E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.43 | **0.59** | <= | 2.28 | 0.024 | 0.00 | 2.40 | 0.00 | 33.61 | 33.70 |
| 33.74 | 121.20 | 2.3292 | 45.61 | 1.23 | 2.70% | 2.842 | 0.79 | 27.25 | 2.60 | 3.36 | 111 | 0.206 | 0.255 | 0.90 | 0.741 | 0.520 | 867.43 | 3.764 | 1.999E+05 | 1.999E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 33.82 | 121.35 | 2.3341 | 39.46 | 1.32 | 3.35% | 3.555 | 0.83 | 23.34 | 2.72 | 4.17 | 138 | 0.323 | 0.323 | 0.90 | 0.743 | 0.520 | 879.38 | 3.769 | 2.052E+05 | 2.052E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 33.88 | 120.76 | 2.3377 | 34.28 | 1.28 | 3.73% | 4.007 | 0.85 | 20.06 | 2.81 | 4.88 | 161 | 0.469 | 0.469 | 0.90 | 0.745 | 0.520 | 874.17 | 3.750 | 2.038E+05 | 2.038E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 33.97 | 119.64 | 2.3431 | 28.13 | 1.17 | 4.16% | 4.537 | 0.88 | 16.17 | 2.92 | 5.92 | 195 | 0.773 | 0.773 | 0.90 | 0.748 | 0.520 | 858.97 | 3.716 | 1.986E+05 | 1.986E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.01 | 119.63 | 2.3455 | 28.13 | 1.17 | 4.16% | 4.538 | 0.88 | 16.15 | 2.92 | 5.92 | 195 | 0.774 | 0.774 | 0.90 | 0.749 | 0.520 | 858.97 | 3.715 | 1.986E+05 | 1.986E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.06 | 119.65 | 2.3484 | 28.13 | 1.17 | 4.16% | 4.538 | 0.88 | 16.14 | 2.92 | 5.93 | 196 | 0.776 | 0.776 | 0.90 | 0.751 | 0.520 | 858.97 | 3.716 | 1.986E+05 | 1.986E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.13 | 119.42 | 2.3526 | 28.13 | 1.14 | 4.05% | 4.422 | 0.88 | 16.11 | 2.92 | 5.86 | 193 | 0.751 | 0.751 | 0.90 | 0.753 | 0.520 | 854.58 | 3.709 | 1.969E+05 | 1.969E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.19 | 119.34 | 2.3562 | 32.43 | 1.07 | 3.30% | 3.558 | 0.85 | 18.78 | 2.80 | 4.78 | 158 | 0.445 | 0.445 | 0.90 | 0.755 | 0.520 | 843.86 | 3.706 | 1.921E+05 | 1.921E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.29 | 119.68 | 2.3622 | 37.31 | 1.07 | 2.87% | 3.062 | 0.82 | 21.78 | 2.70 | 4.02 | 133 | 0.298 | 0.298 | 0.90 | 0.758 | 0.520 | 843.86 | 3.717 | 1.916E+05 | 1.916E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.33 | 119.64 | 2.3646 | 36.72 | 1.07 | 2.91% | 3.115 | 0.82 | 21.40 | 2.72 | 4.11 | 136 | 0.312 | 0.312 | 0.90 | 0.759 | 0.520 | 843.86 | 3.716 | 1.917E+05 | 1.917E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.40 | 119.47 | 2.3688 | 33.99 | 1.07 | 3.15% | 3.384 | 0.84 | 19.67 | 2.77 | 4.52 | 149 | 0.389 | 0.389 | 0.90 | 0.761 | 0.520 | 843.86 | 3.710 | 1.919E+05 | 1.919E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.45 | 119.47 | 2.3717 | 31.74 | 1.10 | 3.47% | 3.746 | 0.86 | 18.25 | 2.82 | 4.99 | 165 | 0.496 | 0.496 | 0.89 | 0.763 | 0.520 | 848.54 | 3.710 | 1.941E+05 | 1.941E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.54 | 119.69 | 2.3771 | 32.23 | 1.13 | 3.51% | 3.785 | 0.85 | 18.53 | 2.82 | 4.97 | 164 | 0.491 | 0.491 | 0.89 | 0.766 | 0.520 | 853.09 | 3.717 | 1.958E+05 | 1.958E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.60 | 119.81 | 2.3807 | 32.52 | 1.14 | 3.51% | 3.782 | 0.85 | 18.68 | 2.82 | 4.94 | 163 | 0.484 | 0.484 | 0.89 | 0.768 | 0.520 | 854.58 | 3.721 | 1.963E+05 | 1.963E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.68 | 119.99 | 2.3855 | 32.72 | 1.17 | 3.58% | 3.857 | 0.85 | 18.78 | 2.82 | 4.98 | 164 | 0.492 | 0.492 | 0.89 | 0.770 | 0.519 | 858.97 | 3.726 | 1.980E+05 | 1.980E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.71 | 119.91 | 2.3873 | 32.72 | 1.16 | 3.55% | 3.824 | 0.85 | 18.77 | 2.82 | 4.96 | 164 | 0.487 | 0.487 | 0.89 | 0.771 | 0.519 | 857.52 | 3.724 | 1.975E+05 | 1.975E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.81 | 119.72 | 2.3933 | 33.89 | 1.11 | 3.28% | 3.524 | 0.84 | 19.45 | 2.78 | 4.65 | 153 | 0.415 | 0.415 | 0.89 | 0.774 | 0.519 | 850.07 | 3.718 | 1.944E+05 | 1.944E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.85 | 119.71 | 2.3957 | 34.87 | 1.10 | 3.15% | 3.387 | 0.84 | 20.04 | 2.76 | 4.47 | 147 | 0.378 | 0.378 | 0.89 | 0.775 | 0.519 | 848.54 | 3.718 | 1.937E+05 | 1.937E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.95 | 120.05 | 2.4017 | 39.85 | 1.10 | 2.76% | 2.937 | 0.81 | 23.07 | 2.67 | 3.79 | 125 | 0.262 | 0.262 | 0.89 | 0.778 | 0.519 | 848.54 | 3.728 | 1.931E+05 | 1.931E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 34.99 | 119.92 | 2.4041 | 40.73 | 1.08 | 2.65% | 2.818 | 0.80 | 23.59 | 2.65 | 3.65 | 121 | 0.243 | 0.311 | 0.89 | 0.780 | 0.519 | 845.43 | 3.724 | 1.919E+05 | 1.919E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.05 | 120.44 | 2.4077 | 40.73 | 1.15 | 2.82% | 3.001 | 0.81 | 23.57 | 2.67 | 3.78 | 125 | 0.261 | 0.261 | 0.89 | 0.782 | 0.519 | 856.06 | 3.740 | 1.959E+05 | 1.959E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.11 | 120.32 | 2.4113 | 35.16 | 1.19 | 3.38% | 3.634 | 0.84 | 20.12 | 2.78 | 4.62 | 152 | 0.410 | 0.410 | 0.89 | 0.783 | 0.519 | 861.84 | 3.737 | 1.988E+05 | 1.988E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.21 | 120.46 | 2.4174 | 35.26 | 1.22 | 3.46% | 3.715 | 0.84 | 20.14 | 2.79 | 4.67 | 154 | 0.420 | 0.420 | 0.89 | 0.787 | 0.519 | 866.05 | 3.741 | 2.005E+05 | 2.005E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.26 | 120.20 | 2.4204 | 32.33 | 1.21 | 3.74% | 4.046 | 0.86 | 18.32 | 2.84 | 5.17 | 171 | 0.542 | 0.542 | 0.89 | 0.788 | 0.519 | 864.66 | 3.733 | 2.003E+05 | 2.003E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.34 | 119.73 | 2.4251 | 28.13 | 1.19 | 4.23% | 4.629 | 0.89 | 15.73 | 2.94 | 6.07 | 200 | 0.827 | 0.827 | 0.89 | 0.791 | 0.519 | 861.84 | 3.718 | 1.998E+05 | 1.998E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

TEST LOCATION: **CPT-2**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A (ft$^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft$^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | $\rho$ (lb-sec$^2$)/ft$^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35.39 | 119.41 | 2.4281 | 26.37 | 1.16 | 4.40% | 4.845 | 0.90 | 14.63 | 2.98 | 6.47 | 214 | 0.986 | 0.986 | 0.89 | 0.792 | 0.519 | 857.52 | 3.708 | 1.983E+05 | 1.983E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.44 | 119.10 | 2.4311 | 24.91 | 1.13 | 4.54% | 5.027 | 0.91 | 13.73 | 3.01 | 6.84 | 226 | 1.148 | 1.148 | 0.89 | 0.794 | 0.519 | 853.09 | 3.699 | 1.968E+05 | 1.968E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.52 | 118.34 | 2.4358 | 22.76 | 1.05 | 4.61% | 5.166 | 0.92 | 12.40 | 3.05 | 7.34 | 242 | 1.402 | 1.402 | 0.89 | 0.796 | 0.519 | 840.67 | 3.675 | 1.923E+05 | 1.923E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.57 | 117.90 | 2.4388 | 21.10 | 1.02 | 4.83% | 5.466 | 0.94 | 11.37 | 3.10 | 7.91 | 261 | 1.733 | 1.733 | 0.89 | 0.798 | 0.519 | 835.76 | 3.661 | 1.908E+05 | 1.908E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.63 | 117.25 | 2.4423 | 19.63 | 0.95 | 4.84% | 5.527 | 0.95 | 10.46 | 3.13 | 8.32 | 275 | 2.008 | 2.008 | 0.89 | 0.800 | 0.519 | 823.74 | 3.641 | 1.863E+05 | 1.863E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.70 | 116.04 | 2.4464 | 17.09 | 0.85 | 4.97% | 5.805 | 0.97 | 8.90 | 3.20 | 9.29 | 306 | 2.755 | 2.755 | 0.88 | 0.802 | 0.518 | 804.92 | 3.604 | 1.798E+05 | 1.798E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.83 | 114.77 | 2.4538 | 17.24 | 0.71 | 4.12% | 4.802 | 0.95 | 8.97 | 3.15 | 8.53 | 281 | 2.154 | 2.154 | 0.88 | 0.806 | 0.518 | 774.48 | 3.564 | 1.683E+05 | 1.683E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.84 | 114.73 | 2.4544 | 17.24 | 0.71 | 4.12% | 4.802 | 0.95 | 8.97 | 3.15 | 8.53 | 281 | 2.154 | 2.154 | 0.88 | 0.806 | 0.518 | 774.48 | 3.563 | 1.683E+05 | 1.683E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.91 | 114.60 | 2.4584 | 17.39 | 0.69 | 3.97% | 4.621 | 0.95 | 9.05 | 3.13 | 8.35 | 276 | 2.026 | 2.026 | 0.88 | 0.808 | 0.518 | 769.64 | 3.559 | 1.664E+05 | 1.664E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 35.97 | 114.96 | 2.4619 | 20.22 | 0.69 | 3.41% | 3.886 | 0.91 | 10.75 | 3.02 | 7.00 | 231 | 1.227 | 1.227 | 0.88 | 0.810 | 0.518 | 769.64 | 3.570 | 1.659E+05 | 1.659E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.05 | 115.13 | 2.4665 | 21.78 | 0.69 | 3.17% | 3.573 | 0.90 | 11.68 | 2.97 | 6.41 | 212 | 0.961 | 0.961 | 0.88 | 0.813 | 0.518 | 769.64 | 3.575 | 1.657E+05 | 1.657E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.10 | 115.43 | 2.4694 | 22.27 | 0.71 | 3.19% | 3.586 | 0.90 | 11.96 | 2.96 | 6.33 | 209 | 0.927 | 0.927 | 0.88 | 0.814 | 0.518 | 774.48 | 3.585 | 1.673E+05 | 1.673E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.16 | 115.79 | 2.4728 | 21.98 | 0.75 | 3.41% | 3.845 | 0.90 | 11.78 | 2.99 | 6.60 | 218 | 1.039 | 1.039 | 0.88 | 0.816 | 0.518 | 783.75 | 3.596 | 1.708E+05 | 1.708E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.24 | 116.46 | 2.4775 | 24.42 | 0.80 | 3.28% | 3.646 | 0.89 | 13.23 | 2.93 | 5.99 | 198 | 0.800 | 0.800 | 0.88 | 0.819 | 0.518 | 794.67 | 3.617 | 1.746E+05 | 1.746E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.32 | 117.49 | 2.4822 | 31.74 | 0.84 | 2.65% | 2.871 | 0.84 | 17.61 | 2.76 | 4.45 | 147 | 0.375 | 0.375 | 0.88 | 0.821 | 0.518 | 802.92 | 3.649 | 1.767E+05 | 1.767E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.37 | 118.46 | 2.4851 | 35.45 | 0.92 | 2.60% | 2.791 | 0.82 | 19.83 | 2.71 | 4.06 | 134 | 0.304 | 0.304 | 0.88 | 0.823 | 0.518 | 818.31 | 3.679 | 1.820E+05 | 1.820E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.42 | 119.16 | 2.4881 | 35.45 | 1.02 | 2.88% | 3.094 | 0.83 | 19.81 | 2.74 | 4.28 | 141 | 0.343 | 0.343 | 0.88 | 0.824 | 0.518 | 835.76 | 3.701 | 1.888E+05 | 1.888E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.50 | 120.11 | 2.4929 | 33.99 | 1.17 | 3.44% | 3.715 | 0.85 | 18.90 | 2.81 | 4.85 | 160 | 0.461 | 0.461 | 0.88 | 0.827 | 0.518 | 858.97 | 3.730 | 1.978E+05 | 1.978E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.55 | 120.43 | 2.4959 | 32.91 | 1.24 | 3.77% | 4.077 | 0.86 | 18.24 | 2.85 | 5.20 | 172 | 0.550 | 0.550 | 0.88 | 0.828 | 0.518 | 868.80 | 3.740 | 2.018E+05 | 2.018E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.63 | 120.36 | 2.5008 | 33.21 | 1.22 | 3.67% | 3.973 | 0.86 | 18.39 | 2.84 | 5.10 | 168 | 0.524 | 0.524 | 0.88 | 0.831 | 0.518 | 866.05 | 3.738 | 2.007E+05 | 2.007E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.68 | 119.42 | 2.5037 | 34.48 | 1.06 | 3.07% | 3.315 | 0.84 | 19.13 | 2.77 | 4.54 | 150 | 0.392 | 0.392 | 0.88 | 0.832 | 0.517 | 842.27 | 3.709 | 1.913E+05 | 1.913E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.77 | 117.86 | 2.5090 | 37.60 | 0.83 | 2.21% | 2.365 | 0.80 | 20.96 | 2.64 | 3.60 | 119 | 0.235 | 0.306 | 0.88 | 0.835 | 0.517 | 800.89 | 3.660 | 1.752E+05 | 1.752E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.81 | 118.26 | 2.5114 | 36.72 | 0.89 | 2.42% | 2.602 | 0.81 | 20.42 | 2.68 | 3.84 | 127 | 0.269 | 0.269 | 0.88 | 0.836 | 0.517 | 812.70 | 3.673 | 1.798E+05 | 1.798E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.89 | 118.69 | 2.5162 | 35.26 | 0.95 | 2.69% | 2.901 | 0.83 | 19.52 | 2.72 | 4.18 | 138 | 0.324 | 0.324 | 0.88 | 0.839 | 0.517 | 823.74 | 3.686 | 1.841E+05 | 1.841E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 36.95 | 119.65 | 2.5197 | 43.07 | 1.02 | 2.37% | 2.515 | 0.79 | 24.15 | 2.61 | 3.38 | 111 | 0.209 | 0.264 | 0.87 | 0.841 | 0.517 | 835.76 | 3.716 | 1.880E+05 | 1.880E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.38 | 0.00 | | |
| 37.01 | 120.50 | 2.5234 | 57.92 | 1.03 | 1.78% | 1.859 | 0.73 | 32.96 | 2.41 | 2.36 | 88 | 0.144 | 0.174 | 0.87 | 0.843 | 0.517 | 837.41 | 3.742 | 1.874E+05 | 1.874E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.34 | 0.47 | <= | 2.55 | 0.018 | 0.00 | 2.38 | 0.00 | 36.95 | 37.01 |
| 37.08 | 121.33 | 2.5276 | 78.33 | 1.05 | 1.34% | 1.385 | 0.67 | 45.05 | 2.22 | 1.71 | 90 | 0.148 | 0.326 | 0.87 | 0.845 | 0.517 | 840.67 | 3.768 | 1.876E+05 | 1.876E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.64 | 0.88 | <= | 2.51 | 0.020 | 0.00 | 2.36 | 0.00 | 37.01 | 37.08 |
| 37.17 | 121.52 | 2.5331 | 87.51 | 1.04 | 1.19% | 1.224 | 0.65 | 50.42 | 2.14 | 1.53 | 91 | 0.151 | 0.305 | 0.87 | 0.848 | 0.517 | 839.05 | 3.774 | 1.865E+05 | 1.865E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.60 | 0.82 | <= | 1.91 | 0.021 | 0.00 | 2.34 | 0.00 | 37.08 | 37.17 |
| 37.21 | 121.48 | 2.5355 | 85.85 | 1.04 | 1.21% | 1.248 | 0.65 | 49.40 | 2.15 | 1.56 | 91 | 0.150 | 0.317 | 0.87 | 0.849 | 0.517 | 839.05 | 3.773 | 1.866E+05 | 1.866E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.62 | 0.85 | <= | 2.16 | 0.010 | 0.00 | 2.32 | 0.00 | 37.17 | 37.21 |
| 37.29 | 121.24 | 2.5404 | 77.55 | 1.04 | 1.34% | 1.386 | 0.67 | 44.41 | 2.22 | 1.72 | 89 | 0.146 | 0.324 | 0.87 | 0.851 | 0.517 | 839.05 | 3.765 | 1.870E+05 | 1.870E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.63 | 0.87 | <= | 2.53 | 0.023 | 0.00 | 2.31 | 0.00 | 37.21 | 37.29 |
| 37.35 | 121.15 | 2.5440 | 69.54 | 1.06 | 1.52% | 1.582 | 0.70 | 39.63 | 2.30 | 1.94 | 89 | 0.146 | 0.339 | 0.87 | 0.853 | 0.517 | 842.27 | 3.762 | 1.886E+05 | 1.886E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.66 | 0.91 | <= | 1.17 | 0.008 | 0.00 | 2.28 | 0.00 | 37.29 | 37.35 |
| 37.42 | 121.75 | 2.5483 | 62.80 | 1.20 | 1.91% | 1.992 | 0.73 | 35.59 | 2.40 | 2.32 | 94 | 0.158 | 0.184 | 0.87 | 0.856 | 0.516 | 863.26 | 3.781 | 1.971E+05 | 1.971E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.36 | 0.49 | <= | 2.42 | 0.020 | 0.00 | 2.28 | 0.00 | 37.35 | 37.42 |
| 37.48 | 121.98 | 2.5519 | 53.91 | 1.30 | 2.41% | 2.531 | 0.77 | 30.31 | 2.53 | 2.92 | 99 | 0.171 | 0.206 | 0.87 | 0.857 | 0.516 | 876.80 | 3.788 | 2.029E+05 | 2.029E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | | 0.40 | 0.55 | <= | 2.32 | 0.016 | 0.00 | 2.26 | 0.00 | 37.42 | 37.48 |
| 37.54 | 121.87 | 2.5556 | 45.51 | 1.35 | 2.97% | 3.143 | 0.80 | 25.32 | 2.66 | 3.68 | 121 | 0.247 | 0.247 | 0.87 | 0.859 | 0.516 | 883.18 | 3.785 | 2.061E+05 | 2.061E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 37.61 | 121.67 | 2.5598 | 38.97 | 1.39 | 3.57% | 3.818 | 0.84 | 21.44 | 2.77 | 4.54 | 150 | 0.393 | 0.393 | 0.87 | 0.861 | 0.516 | 888.12 | 3.779 | 2.087E+05 | 2.087E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 37.70 | 121.20 | 2.5653 | 30.77 | 1.41 | 4.58% | 4.999 | 0.89 | 16.58 | 2.94 | 6.10 | 201 | 0.837 | 0.837 | 0.87 | 0.864 | 0.516 | 890.54 | 3.764 | 2.107E+05 | 2.107E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 37.75 | 120.64 | 2.5683 | 26.57 | 1.37 | 5.16% | 5.708 | 0.92 | 14.10 | 3.04 | 7.14 | 236 | 1.298 | 1.298 | 0.87 | 0.866 | 0.516 | 885.67 | 3.747 | 2.094E+05 | 2.094E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 37.80 | 119.97 | 2.5713 | 23.34 | 1.30 | 5.57% | 6.259 | 0.94 | 12.19 | 3.11 | 8.09 | 267 | 1.850 | 1.850 | 0.87 | 0.867 | 0.516 | 876.80 | 3.726 | 2.063E+05 | 2.063E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 37.86 | 118.40 | 2.5748 | 16.60 | 1.18 | 7.11% | 8.413 | 1.00 | 8.22 | 3.34 | 11.28 | 372 | 4.876 | 4.876 | 0.87 | 0.869 | 0.516 | 860.41 | 3.677 | 2.013E+05 | 2.013E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 37.93 | 118.19 | 2.5790 | 21.49 | 1.05 | 4.89% | 5.552 | 0.94 | 11.07 | 3.11 | 8.07 | 266 | 1.838 | 1.838 | 0.87 | 0.871 | 0.516 | 840.67 | 3.670 | 1.925E+05 | 1.925E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.01 | 117.04 | 2.5837 | 20.71 | 0.91 | 4.39% | 5.020 | 0.94 | 10.60 | 3.10 | 7.91 | 261 | 1.731 | 1.731 | 0.87 | 0.874 | 0.516 | 816.46 | 3.635 | 1.834E+05 | 1.834E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.06 | 116.52 | 2.5866 | 20.32 | 0.85 | 4.18% | 4.793 | 0.94 | 10.36 | 3.09 | 7.84 | 259 | 1.693 | 1.693 | 0.87 | 0.875 | 0.515 | 804.92 | 3.619 | 1.790E+05 | 1.790E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.14 | 115.93 | 2.5912 | 19.73 | 0.79 | 4.00% | 4.609 | 0.94 | 10.00 | 3.10 | 7.87 | 260 | 1.707 | 1.707 | 0.87 | 0.878 | 0.515 | 792.54 | 3.600 | 1.745E+05 | 1.745E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.19 | 115.37 | 2.5941 | 18.85 | 0.75 | 3.98% | 4.614 | 0.94 | 9.48 | 3.12 | 8.12 | 268 | 1.867 | 1.867 | 0.86 | 0.880 | 0.515 | 783.75 | 3.583 | 1.714E+05 | 1.714E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.28 | 114.32 | 2.5992 | 16.90 | 0.67 | 3.96% | 4.685 | 0.96 | 8.33 | 3.17 | 8.79 | 290 | 2.352 | 2.352 | 0.86 | 0.882 | 0.515 | 764.67 | 3.550 | 1.647E+05 | 1.647E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.33 | 113.70 | 2.6021 | 15.04 | 0.64 | 4.26% | 5.146 | 0.98 | 7.24 | 3.24 | 9.88 | 326 | 3.299 | 3.299 | 0.86 | 0.884 | 0.515 | 756.92 | 3.531 | 1.623E+05 | 1.623E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.41 | 112.72 | 2.6066 | 13.87 | 0.58 | 4.18% | 5.149 | 0.99 | 6.55 | 3.28 | 10.43 | 344 | 3.871 | 3.871 | 0.86 | 0.886 | 0.515 | 740.27 | 3.501 | 1.565E+05 | 1.565E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.46 | 112.04 | 2.6094 | 13.28 | 0.53 | 3.99% | 4.967 | 1.00 | 6.20 | 3.29 | 10.59 | 350 | 4.051 | 4.051 | 0.86 | 0.888 | 0.515 | 725.02 | 3.480 | 1.511E+05 | 1.511E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.55 | 110.70 | 2.6144 | 12.11 | 0.46 | 3.80% | 4.844 | 1.00 | 5.51 | 3.33 | 11.16 | 368 | 4.720 | 4.720 | 0.86 | 0.891 | 0.515 | 701.06 | 3.438 | 1.430E+05 | 1.430E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.59 | 110.33 | 2.6166 | 12.01 | 0.44 | 3.66% | 4.684 | 1.00 | 5.45 | 3.32 | 11.09 | 366 | 4.637 | 4.637 | 0.86 | 0.892 | 0.515 | 693.54 | 3.426 | 1.404E+05 | 1.404E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.65 | 110.65 | 2.6199 | 11.92 | 0.46 | 3.86% | 4.946 | 1.00 | 5.39 | 3.34 | 11.36 | 375 | 4.985 | 4.985 | 0.86 | 0.894 | 0.515 | 701.06 | 3.436 | 1.430E+05 | 1.430E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.73 | 110.41 | 2.6243 | 12.70 | 0.43 | 3.39% | 4.268 | 0.99 | 5.83 | 3.27 | 10.33 | 341 | 3.768 | 3.768 | 0.86 | 0.896 | 0.515 | 689.65 | 3.429 | 1.387E+05 | 1.387E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.79 | 111.85 | 2.6277 | 13.38 | 0.52 | 3.89% | 4.836 | 0.99 | 6.22 | 3.28 | 10.47 | 345 | 3.911 | 3.911 | 0.86 | 0.898 | 0.515 | 721.79 | 3.474 | 1.500E+05 | 1.500E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.86 | 113.85 | 2.6317 | 14.16 | 0.67 | 4.73% | 5.812 | 1.00 | 6.66 | 3.31 | 10.84 | 358 | 4.334 | 4.334 | 0.86 | 0.900 | 0.514 | 764.67 | 3.536 | 1.654E+05 | 1.654E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.95 | 117.73 | 2.6370 | 17.78 | 1.05 | 5.91% | 6.934 | 0.99 | 8.73 | 3.26 | 10.11 | 334 | 3.533 | 3.533 | 0.86 | 0.903 | 0.514 | 840.67 | 3.656 | 1.933E+05 | 1.933E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 38.98 | 118.79 | 2.6387 | 20.32 | 1.16 | 5.71% | 6.561 | 0.96 | 10.19 | 3.19 | 9.10 | 300 | 2.597 | 2.597 | 0.86 | 0.904 | 0.514 | 857.52 | 3.689 | 1.993E+05 | 1.993E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.06 | 121.50 | 2.6436 | 28.81 | 1.50 | 5.21% | 5.733 | 0.91 | 15.06 | 3.01 | 6.89 | 227 | 1.173 | 1.173 | 0.86 | 0.907 | 0.514 | 901.00 | 3.773 | 2.151E+05 | 2.151E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.13 | 123.41 | 2.6479 | 36.92 | 1.79 | 4.85% | 5.223 | 0.88 | 19.71 | 2.89 | 5.63 | 186 | 0.676 | 0.676 | 0.86 | 0.909 | 0.514 | 930.90 | 3.833 | 2.261E+05 | 2.261E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.21 | 125.00 | 2.6529 | 41.12 | 2.14 | 5.20% | 5.563 | 0.87 | 22.09 | 2.87 | 5.45 | 180 | 0.620 | 0.620 | 0.86 | 0.911 | 0.514 | 961.11 | 3.882 | 2.380E+05 | 2.380E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.27 | 125.69 | 2.6567 | 40.73 | 2.36 | 5.79% | 6.199 | 0.88 | 21.84 | 2.91 | 5.81 | 192 | 0.736 | 0.736 | 0.86 | 0.913 | 0.514 | 977.67 | 3.903 | 2.449E+05 | 2.449E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.32 | 125.77 | 2.6598 | 39.26 | 2.42 | 6.16% | 6.612 | 0.89 | 20.97 | 2.95 | 6.15 | 203 | 0.859 | 0.859 | 0.86 | 0.915 | 0.514 | 981.91 | 3.906 | 2.468E+05 | 2.468E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.40 | 125.81 | 2.6649 | 40.58 | 2.41 | 5.94% | 6.356 | 0.88 | 21.70 | 2.92 | 5.91 | 195 | 0.771 | 0.771 | 0.85 | 0.917 | 0.513 | 981.21 | 3.907 | 2.464E+05 | 2.464E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.44 | 125.53 | 2.6674 | 38.38 | 2.36 | 6.15% | 6.608 | 0.89 | 20.42 | 2.95 | 6.24 | 206 | 0.893 | 0.893 | 0.85 | 0.919 | 0.513 | 977.67 | 3.898 | 2.452E+05 | 2.452E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.53 | 125.06 | 2.6730 | 40.44 | 2.17 | 5.37% | 5.746 | 0.88 | 21.56 | 2.89 | 5.62 | 185 | 0.673 | 0.673 | 0.85 | 0.921 | 0.513 | 963.47 | 3.884 | 2.390E+05 | 2.390E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.57 | 124.72 | 2.6755 | 40.24 | 2.08 | 5.17% | 5.537 | 0.87 | 21.43 | 2.88 | 5.53 | 182 | 0.644 | 0.644 | 0.85 | 0.923 | 0.513 | 956.30 | 3.873 | 2.361E+05 | 2.361E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.63 | 123.75 | 2.6792 | 34.67 | 1.92 | 5.54% | 6.002 | 0.90 | 18.23 | 2.96 | 6.33 | 209 | 0.926 | 0.926 | 0.85 | 0.924 | 0.513 | 942.76 | 3.843 | 2.313E+05 | 2.313E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.71 | 122.17 | 2.6841 | 27.25 | 1.67 | 6.13% | 6.798 | 0.93 | 13.98 | 3.09 | 7.80 | 257 | 1.666 | 1.666 | 0.85 | 0.927 | 0.513 | 919.16 | 3.794 | 2.227E+05 | 2.227E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.79 | 120.32 | 2.6889 | 22.46 | 1.39 | 6.19% | 7.030 | 0.96 | 11.24 | 3.18 | 8.91 | 294 | 2.443 | 2.443 | 0.85 | 0.929 | 0.513 | 888.12 | 3.737 | 2.111E+05 | 2.111E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.84 | 119.52 | 2.6919 | 20.41 | 1.28 | 6.27% | 7.224 | 0.97 | 10.06 | 3.22 | 9.56 | 315 | 2.998 | 2.998 | 0.85 | 0.931 | 0.513 | 874.17 | 3.712 | 2.059E+05 | 2.059E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.92 | 117.89 | 2.6966 | 18.17 | 1.07 | 5.89% | 6.915 | 0.99 | 8.78 | 3.26 | 10.07 | 332 | 3.494 | 3.494 | 0.85 | 0.934 | 0.512 | 843.86 | 3.661 | 1.945E+05 | 1.945E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 39.96 | 117.39 | 2.6990 | 17.78 | 1.00 | 5.62% | 6.631 | 0.98 | 8.55 | 3.25 | 10.03 | 331 | 3.453 | 3.453 | 0.85 | 0.935 | 0.512 | 832.41 | 3.646 | 1.901E+05 | 1.901E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.05 | 109.35 | 2.7039 | 17.78 | 0.33 | 1.86% | 2.189 | 0.90 | 8.54 | 2.96 | 6.30 | 208 | 0.917 | 0.917 | 0.85 | 0.938 | 0.512 | 644.87 | 3.396 | 1.225E+05 | 1.225E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.11 | 110.56 | 2.7072 | 17.29 | 0.40 | 2.31% | 2.743 | 0.92 | 8.25 | 3.03 | 7.07 | 233 | 1.260 | 1.260 | 0.85 | 0.939 | 0.512 | 677.41 | 3.434 | 1.336E+05 | 1.336E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.20 | 111.77 | 2.7122 | 17.48 | 0.47 | 2.69% | 3.183 | 0.93 | 8.34 | 3.06 | 7.46 | 246 | 1.470 | 1.470 | 0.85 | 0.942 | 0.512 | 704.69 | 3.471 | 1.431E+05 | 1.431E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.24 | 112.17 | 2.7145 | 17.09 | 0.50 | 2.93% | 3.478 | 0.94 | 8.12 | 3.10 | 7.87 | 260 | 1.712 | 1.712 | 0.85 | 0.943 | 0.512 | 715.16 | 3.484 | 1.468E+05 | 1.468E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.32 | 112.93 | 2.7190 | 16.60 | 0.56 | 3.37% | 4.034 | 0.95 | 7.83 | 3.15 | 8.55 | 282 | 2.171 | 2.171 | 0.85 | 0.946 | 0.512 | 734.33 | 3.507 | 1.538E+05 | 1.538E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.37 | 113.31 | 2.7218 | 15.43 | 0.60 | 3.89% | 4.721 | 0.98 | 7.16 | 3.22 | 9.59 | 317 | 3.029 | 3.029 | 0.85 | 0.948 | 0.512 | 746.00 | 3.519 | 1.581E+05 | 1.581E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.42 | 113.71 | 2.7247 | 15.14 | 0.64 | 4.23% | 5.155 | 0.99 | 6.99 | 3.26 | 10.07 | 332 | 3.490 | 3.490 | 0.85 | 0.949 | 0.512 | 756.92 | 3.531 | 1.622E+05 | 1.622E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.51 | 114.02 | 2.7298 | 15.53 | 0.66 | 4.25% | 5.156 | 0.98 | 7.20 | 3.25 | 9.91 | 327 | 3.332 | 3.332 | 0.85 | 0.952 | 0.512 | 762.12 | 3.541 | 1.640E+05 | 1.640E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.55 | 114.04 | 2.7321 | 15.72 | 0.66 | 4.20% | 5.082 | 0.98 | 7.30 | 3.24 | 9.78 | 323 | 3.203 | 3.203 | 0.85 | 0.953 | 0.512 | 762.12 | 3.542 | 1.640E+05 | 1.640E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.62 | 114.20 | 2.7361 | 16.12 | 0.67 | 4.16% | 5.006 | 0.97 | 7.52 | 3.22 | 9.56 | 316 | 3.003 | 3.003 | 0.84 | 0.955 | 0.511 | 764.67 | 3.547 | 1.649E+05 | 1.649E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.71 | 113.90 | 2.7412 | 16.41 | 0.64 | 3.90% | 4.682 | 0.97 | 7.67 | 3.20 | 9.20 | 304 | 2.684 | 2.684 | 0.84 | 0.958 | 0.511 | 756.92 | 3.537 | 1.620E+05 | 1.620E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.80 | 113.99 | 2.7463 | 16.60 | 0.65 | 3.92% | 4.692 | 0.97 | 7.76 | 3.19 | 9.15 | 302 | 2.638 | 2.638 | 0.84 | 0.961 | 0.511 | 759.54 | 3.540 | 1.630E+05 | 1.630E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.82 | 114.03 | 2.7475 | 16.51 | 0.65 | 3.94% | 4.723 | 0.97 | 7.71 | 3.20 | 9.21 | 304 | 2.689 | 2.689 | 0.84 | 0.962 | 0.511 | 759.54 | 3.541 | 1.629E+05 | 1.629E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.91 | 114.17 | 2.7526 | 16.51 | 0.66 | 4.00% | 4.797 | 0.97 | 7.69 | 3.20 | 9.28 | 306 | 2.747 | 2.747 | 0.84 | 0.964 | 0.511 | 762.12 | 3.546 | 1.638E+05 | 1.638E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 40.95 | 114.24 | 2.7549 | 16.41 | 0.67 | 4.08% | 4.907 | 0.97 | 7.63 | 3.21 | 9.40 | 310 | 2.859 | 2.859 | 0.84 | 0.966 | 0.511 | 764.67 | 3.548 | 1.648E+05 | 1.648E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.04 | 114.93 | 2.7601 | 17.29 | 0.72 | 4.16% | 4.955 | 0.97 | 8.11 | 3.19 | 9.13 | 301 | 2.622 | 2.622 | 0.84 | 0.968 | 0.511 | 776.84 | 3.569 | 1.691E+05 | 1.691E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.10 | 115.71 | 2.7635 | 17.87 | 0.80 | 4.48% | 5.296 | 0.97 | 8.42 | 3.20 | 9.19 | 303 | 2.675 | 2.675 | 0.84 | 0.970 | 0.511 | 794.67 | 3.593 | 1.757E+05 | 1.757E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.16 | 116.41 | 2.7670 | 18.75 | 0.86 | 4.59% | 5.381 | 0.96 | 8.90 | 3.18 | 8.97 | 296 | 2.495 | 2.495 | 0.84 | 0.972 | 0.510 | 806.90 | 3.615 | 1.801E+05 | 1.801E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.22 | 116.64 | 2.7705 | 19.63 | 0.88 | 4.48% | 5.220 | 0.95 | 9.38 | 3.15 | 8.60 | 284 | 2.207 | 2.207 | 0.84 | 0.974 | 0.510 | 810.79 | 3.622 | 1.815E+05 | 1.815E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.31 | 117.18 | 2.7758 | 21.68 | 0.91 | 4.20% | 4.814 | 0.93 | 10.51 | 3.09 | 7.78 | 257 | 1.655 | 1.655 | 0.84 | 0.977 | 0.510 | 816.46 | 3.639 | 1.832E+05 | 1.832E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.35 | 117.51 | 2.7782 | 22.95 | 0.94 | 4.10% | 4.660 | 0.92 | 11.21 | 3.06 | 7.39 | 244 | 1.428 | 1.428 | 0.84 | 0.978 | 0.510 | 821.95 | 3.649 | 1.851E+05 | 1.851E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.41 | 117.81 | 2.7817 | 23.73 | 0.96 | 4.05% | 4.583 | 0.92 | 11.63 | 3.04 | 7.17 | 237 | 1.314 | 1.314 | 0.84 | 0.980 | 0.510 | 825.51 | 3.659 | 1.863E+05 | 1.863E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.49 | 117.62 | 2.7864 | 22.66 | 0.96 | 4.24% | 4.831 | 0.93 | 11.02 | 3.07 | 7.58 | 250 | 1.538 | 1.538 | 0.84 | 0.982 | 0.510 | 825.51 | 3.653 | 1.866E+05 | 1.866E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.55 | 117.31 | 2.7899 | 20.90 | 0.94 | 4.50% | 5.190 | 0.95 | 10.03 | 3.13 | 8.26 | 273 | 1.967 | 1.967 | 0.84 | 0.984 | 0.510 | 821.95 | 3.643 | 1.854E+05 | 1.854E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.60 | 117.05 | 2.7928 | 20.12 | 0.92 | 4.57% | 5.310 | 0.95 | 9.59 | 3.15 | 8.56 | 283 | 2.177 | 2.177 | 0.84 | 0.986 | 0.510 | 818.31 | 3.635 | 1.842E+05 | 1.842E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.68 | 116.57 | 2.7975 | 18.95 | 0.88 | 4.64% | 5.448 | 0.96 | 8.93 | 3.18 | 9.01 | 297 | 2.523 | 2.523 | 0.84 | 0.988 | 0.509 | 810.79 | 3.620 | 1.816E+05 | 1.816E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.76 | 116.08 | 2.8021 | 17.58 | 0.84 | 4.78% | 5.684 | 0.98 | 8.16 | 3.23 | 9.63 | 318 | 3.069 | 3.069 | 0.84 | 0.991 | 0.509 | 802.92 | 3.605 | 1.788E+05 | 1.788E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.80 | 115.99 | 2.8045 | 17.29 | 0.84 | 4.86% | 5.799 | 0.98 | 7.99 | 3.24 | 9.82 | 324 | 3.249 | 3.249 | 0.84 | 0.992 | 0.509 | 802.92 | 3.602 | 1.790E+05 | 1.790E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.92 | 115.92 | 2.8114 | 17.29 | 0.83 | 4.80% | 5.733 | 0.98 | 7.97 | 3.24 | 9.79 | 323 | 3.215 | 3.215 | 0.83 | 0.996 | 0.509 | 800.89 | 3.600 | 1.782E+05 | 1.782E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 41.93 | 115.91 | 2.8120 | 17.48 | 0.82 | 4.69% | 5.590 | 0.98 | 8.08 | 3.23 | 9.62 | 317 | 3.055 | 3.055 | 0.83 | 0.996 | 0.509 | 798.84 | 3.600 | 1.773E+05 | 1.773E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.02 | 116.46 | 2.8172 | 18.36 | 0.87 | 4.74% | 5.597 | 0.97 | 8.55 | 3.21 | 9.33 | 308 | 2.796 | 2.796 | 0.83 | 0.999 | 0.509 | 808.86 | 3.617 | 1.809E+05 | 1.809E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.07 | 116.77 | 2.8202 | 18.85 | 0.90 | 4.77% | 5.615 | 0.97 | 8.81 | 3.20 | 9.19 | 303 | 2.675 | 2.675 | 0.83 | 1.001 | 0.509 | 814.59 | 3.626 | 1.830E+05 | 1.830E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.14 | 116.87 | 2.8242 | 18.95 | 0.91 | 4.80% | 5.643 | 0.97 | 8.85 | 3.20 | 9.19 | 303 | 2.671 | 2.671 | 0.83 | 1.003 | 0.509 | 816.46 | 3.630 | 1.837E+05 | 1.837E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.20 | 116.99 | 2.8278 | 19.24 | 0.92 | 4.78% | 5.606 | 0.96 | 9.00 | 3.19 | 9.08 | 300 | 2.579 | 2.579 | 0.83 | 1.005 | 0.508 | 818.31 | 3.633 | 1.843E+05 | 1.843E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.29 | 117.22 | 2.8330 | 19.14 | 0.96 | 5.02% | 5.887 | 0.97 | 8.93 | 3.20 | 9.31 | 307 | 2.776 | 2.776 | 0.83 | 1.007 | 0.508 | 825.51 | 3.640 | 1.872E+05 | 1.872E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.33 | 117.58 | 2.8354 | 18.85 | 1.01 | 5.36% | 6.307 | 0.98 | 8.77 | 3.23 | 9.69 | 320 | 3.117 | 3.117 | 0.83 | 1.009 | 0.508 | 834.10 | 3.652 | 1.905E+05 | 1.905E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.43 | 118.83 | 2.8413 | 18.66 | 1.20 | 6.43% | 7.586 | 0.99 | 8.65 | 3.29 | 10.55 | 348 | 4.010 | 4.010 | 0.83 | 1.012 | 0.508 | 863.26 | 3.690 | 2.019E+05 | 2.019E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.47 | 119.48 | 2.8437 | 19.05 | 1.30 | 6.82% | 8.022 | 1.00 | 8.85 | 3.30 | 10.68 | 352 | 4.151 | 4.151 | 0.83 | 1.013 | 0.508 | 876.80 | 3.711 | 2.072E+05 | 2.072E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.52 | 119.94 | 2.8467 | 20.51 | 1.35 | 6.58% | 7.643 | 0.98 | 9.64 | 3.25 | 10.01 | 330 | 3.435 | 3.435 | 0.83 | 1.015 | 0.508 | 883.18 | 3.725 | 2.094E+05 | 2.094E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.60 | 120.56 | 2.8515 | 25.78 | 1.37 | 5.31% | 5.975 | 0.93 | 12.50 | 3.09 | 7.79 | 257 | 1.658 | 1.658 | 0.83 | 1.017 | 0.508 | 885.67 | 3.744 | 2.095E+05 | 2.095E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.66 | 121.28 | 2.8552 | 34.18 | 1.37 | 4.01% | 4.374 | 0.87 | 17.06 | 2.89 | 5.57 | 184 | 0.657 | 0.657 | 0.83 | 1.019 | 0.507 | 885.67 | 3.766 | 2.083E+05 | 2.083E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.73 | 122.21 | 2.8595 | 47.47 | 1.40 | 2.95% | 3.138 | 0.81 | 24.27 | 2.66 | 3.74 | 124 | 0.255 | 0.255 | 0.83 | 1.021 | 0.507 | 889.33 | 3.795 | 2.084E+05 | 2.084E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.24 | 0.00 | | |
| 42.82 | 123.45 | 2.8650 | 76.08 | 1.41 | 1.85% | 1.926 | 0.71 | 39.77 | 2.35 | 2.10 | 99 | 0.169 | 0.183 | 0.83 | 1.024 | 0.507 | 890.54 | 3.834 | 2.069E+05 | 2.069E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | | 0.37 | 0.50 | <= | 2.33 | 0.024 | 0.00 | 2.24 | 0.00 | 42.73 | 42.82 |
| 42.87 | 123.22 | 2.8681 | 94.84 | 1.27 | 1.34% | 1.381 | 0.66 | 49.92 | 2.17 | 1.59 | 96 | 0.164 | 0.305 | 0.83 | 1.026 | 0.507 | 872.85 | 3.827 | 1.991E+05 | 1.991E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | | 0.61 | 0.84 | <= | 1.90 | 0.011 | 0.00 | 2.22 | 0.00 | 42.82 | 42.87 |
| 42.93 | 121.60 | 2.8717 | 110.95 | 0.97 | 0.87% | 0.897 | 0.60 | 58.60 | 1.99 | 1.28 | 94 | 0.158 | 0.282 | 0.83 | 1.027 | 0.507 | 827.26 | 3.776 | 1.812E+05 | 1.812E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.56 | 0.77 | <= | 2.42 | 0.017 | 0.00 | 2.21 | 0.00 | 42.87 | 42.93 |
| 43.00 | 118.83 | 2.8759 | 127.07 | 0.63 | 0.50% | 0.507 | 0.54 | 67.27 | 1.79 | 1.10 | 96 | 0.162 | 0.289 | 0.83 | 1.030 | 0.507 | 754.26 | 3.690 | 1.542E+05 | 1.542E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.58 | 0.79 | <= | 2.37 | 0.019 | 0.00 | 2.19 | 0.00 | 42.93 | 43.00 |
| 43.05 | 120.27 | 2.8789 | 135.17 | 0.76 | 0.56% | 0.574 | 0.55 | 71.60 | 1.79 | 1.10 | 102 | 0.180 | 0.292 | 0.83 | 1.031 | 0.507 | 785.99 | 3.735 | 1.654E+05 | 1.654E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.58 | 0.80 | <= | 1.49 | 0.009 | 0.00 | 2.17 | 0.00 | 43.00 | 43.05 |
| 43.13 | 121.81 | 2.8838 | 149.14 | 0.90 | 0.60% | 0.615 | 0.54 | 79.05 | 1.77 | 1.09 | 112 | 0.211 | 0.290 | 0.82 | 1.034 | 0.506 | 814.59 | 3.783 | 1.754E+05 | 1.754E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.58 | 0.80 | <= | 2.09 | 0.018 | 0.00 | 2.16 | 0.00 | 43.05 | 43.13 |
| 43.18 | 122.56 | 2.8868 | 155.68 | 0.99 | 0.64% | 0.648 | 0.54 | 82.52 | 1.77 | 1.09 | 117 | 0.228 | 0.295 | 0.82 | 1.035 | 0.506 | 830.71 | 3.806 | 1.813E+05 | 1.813E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.59 | 0.81 | <= | 1.26 | 0.008 | 0.00 | 2.14 | 0.00 | 43.13 | 43.18 |
| 43.27 | 123.57 | 2.8924 | 156.17 | 1.13 | 0.72% | 0.737 | 0.55 | 82.66 | 1.80 | 1.11 | 119 | 0.237 | 0.285 | 0.82 | 1.038 | 0.506 | 853.09 | 3.838 | 1.896E+05 | 1.896E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.57 | 0.78 | <= | 1.93 | 0.020 | 0.00 | 2.13 | 0.00 | 43.18 | 43.27 |
| 43.32 | 124.07 | 2.8955 | 172.00 | 1.17 | 0.68% | 0.692 | 0.53 | 91.12 | 1.75 | 1.07 | 128 | 0.275 | 0.275 | 0.82 | 1.040 | 0.506 | 858.97 | 3.853 | 1.915E+05 | 1.915E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | | 0.55 | 0.76 | <= | 1.59 | 0.006 | 0.00 | 2.11 | 0.00 | 43.27 | 43.32 |
| 43.38 | 124.50 | 2.8992 | 180.69 | 1.22 | 0.68% | 0.686 | 0.53 | 95.70 | 1.73 | 1.06 | 133 | 0.300 | 0.300 | 0.82 | 1.041 | 0.506 | 866.05 | 3.866 | 1.940E+05 | 1.940E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | | 0.60 | 0.82 | <= | 1.09 | 0.008 | 0.00 | 2.11 | 0.00 | 43.32 | 43.38 |
| 43.45 | 124.95 | 2.9036 | 186.84 | 1.29 | 0.69% | 0.701 | 0.53 | 98.89 | 1.72 | 1.05 | 137 | 0.321 | 0.321 | 0.82 | 1.044 | 0.505 | 875.49 | 3.880 | 1.975E+05 | 1.975E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | | 0.64 | 0.88 | <= | 1.23 | 0.006 | 0.00 | 2.10 | 0.00 | 43.38 | 43.45 |
| 43.54 | 125.60 | 2.9093 | 194.46 | 1.39 | 0.71% | 0.726 | 0.52 | 102.83 | 1.72 | 1.05 | 143 | 0.350 | 0.350 | 0.82 | 1.046 | 0.505 | 888.12 | 3.901 | 2.022E+05 | 2.022E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | | 0.70 | 0.96 | <= | 0.81 | 0.005 | 0.00 | 2.09 | 0.00 | 43.45 | 43.54 |
| 43.58 | 125.86 | 2.9118 | 198.56 | 1.43 | 0.72% | 0.731 | 0.52 | 104.96 | 1.71 | 1.05 | 145 | 0.365 | 0.365 | 0.82 | 1.048 | 0.505 | 892.92 | 3.909 | 2.040E+05 | 2.040E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | | 0.73 | 1.01 | <= | 0.44 | 0.002 | 0.00 | 2.09 | 0.00 | 43.54 | 43.58 |
| 43.65 | 126.28 | 2.9162 | 201.69 | 1.50 | 0.74% | 0.755 | 0.52 | 106.51 | 1.72 | 1.05 | 148 | 0.380 | 0.380 | 0.82 | 1.050 | 0.505 | 901.00 | 3.922 | 2.070E+05 | 2.070E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | | 0.76 | 1.05 | <= | 0.51 | 0.003 | 0.00 | 2.09 | 0.00 | 43.58 | 43.65 |
| 43.71 | 126.62 | 2.9200 | 204.03 | 1.57 | 0.77% | 0.781 | 0.53 | 107.65 | 1.72 | 1.05 | 150 | 0.393 | 0.393 | 0.82 | 1.052 | 0.505 | 908.72 | 3.932 | 2.100E+05 | 2.100E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | | 0.79 | 1.08 | <= | 0.57 | 0.003 | 0.00 | 2.08 | 0.00 | 43.65 | 43.71 |
| 43.80 | 126.95 | 2.9257 | 204.91 | 1.64 | 0.80% | 0.812 | 0.53 | 107.95 | 1.73 | 1.06 | 151 | 0.401 | 0.401 | 0.82 | 1.055 | 0.505 | 916.10 | 3.943 | 2.129E+05 | 2.129E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | | 0.80 | 1.10 | <= | 0.31 | 0.002 | 0.00 | 2.08 | 0.00 | 43.71 | 43.80 |
| 43.85 | 127.00 | 2.9289 | 204.72 | 1.65 | 0.81% | 0.818 | 0.53 | 107.75 | 1.74 | 1.06 | 151 | 0.401 | 0.401 | 0.82 | 1.056 | 0.504 | 917.13 | 3.944 | 2.133E+05 | 2.133E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | | 0.80 | 1.10 | <= | 0.31 | 0.001 | 0.00 | 2.08 | 0.00 | 43.80 | 43.85 |
| 43.94 | 126.99 | 2.9346 | 202.66 | 1.65 | 0.81% | 0.826 | 0.53 | 106.48 | 1.74 | 1.07 | 150 | 0.393 | 0.393 | 0.82 | 1.059 | 0.504 | 917.13 | 3.944 | 2.133E+05 | 2.133E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | | 0.79 | 1.08 | <= | 0.58 | 0.004 | 0.00 | 2.08 | 0.00 | 43.85 | 43.94 |
| 43.97 | 126.97 | 2.9365 | 201.00 | 1.65 | 0.82% | 0.833 | 0.53 | 105.54 | 1.75 | 1.07 | 149 | 0.388 | 0.388 | 0.82 | 1.060 | 0.504 | 917.13 | 3.943 | 2.133E+05 | 2.133E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | | 0.78 | 1.07 | <= | 0.55 | 0.001 | 0.00 | 2.07 | 0.00 | 43.94 | 43.97 |
| 44.06 | 126.72 | 2.9422 | 194.66 | 1.62 | 0.83% | 0.845 | 0.54 | 102.00 | 1.77 | 1.08 | 145 | 0.364 | 0.364 | 0.82 | 1.063 | 0.504 | 914.02 | 3.935 | 2.123E+05 | 2.123E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | | 0.73 | 1.01 | <= | 0.44 | 0.003 | 0.00 | 2.07 | 0.00 | 43.97 | 44.06 |
| 44.12 | 126.53 | 2.9460 | 188.89 | 1.59 | 0.84% | 0.855 | 0.54 | 98.83 | 1.78 | 1.09 | 142 | 0.344 | 0.344 | 0.82 | 1.065 | 0.504 | 910.86 | 3.930 | 2.111E+05 | 2.111E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | | 0.69 | 0.95 | <= | 0.78 | 0.004 | 0.00 | 2.07 | 0.00 | 44.06 | 44.12 |
| 44.18 | 126.34 | 2.9498 | 181.96 | 1.57 | 0.86% | 0.877 | 0.55 | 95.05 | 1.80 | 1.11 | 138 | 0.323 | 0.323 | 0.82 | 1.066 | 0.504 | 908.72 | 3.924 | 2.105E+05 | 2.105E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | | 0.65 | 0.89 | <= | 1.25 | 0.006 | 0.00 | 2.06 | 0.00 | 44.12 | 44.18 |
| 44.25 | 126.21 | 2.9542 | 173.66 | 1.56 | 0.90% | 0.914 | 0.56 | 90.53 | 1.83 | 1.13 | 133 | 0.299 | 0.299 | 0.82 | 1.069 | 0.503 | 907.64 | 3.920 | 2.102E+05 | 2.102E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | | 0.60 | 0.83 | <= | 1.10 | 0.009 | 0.00 | 2.06 | 0.00 | 44.18 | 44.25 |
| 44.34 | 126.06 | 2.9599 | 157.93 | 1.58 | 1.00% | 1.020 | 0.58 | 82.06 | 1.90 | 1.19 | 125 | 0.263 | 0.263 | 0.81 | 1.071 | 0.503 | 909.79 | 3.915 | 2.114E+05 | 2.114E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | | 0.53 | 0.73 | <= | 1.59 | 0.017 | 0.00 | 2.05 | 0.00 | 44.25 | 44.34 |
| 44.36 | 126.07 | 2.9611 | 151.00 | 1.61 | 1.07% | 1.088 | 0.59 | 78.36 | 1.93 | 1.22 | 122 | 0.251 | 0.251 | 0.81 | 1.072 | 0.503 | 912.97 | 3.915 | 2.129E+05 | 2.129E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | | 0.50 | 0.69 | <= | 1.96 | 0.004 | 0.00 | 2.03 | 0.00 | 44.34 | 44.36 |
| 44.42 | 126.12 | 2.9649 | 134.78 | 1.68 | 1.25% | 1.275 | 0.61 | 69.71 | 2.02 | 1.33 | 117 | 0.228 | 0.260 | 0.81 | 1.074 | 0.503 | 920.17 | 3.917 | 2.162E+05 | 2.162E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | | 0.52 | 0.72 | <= | 1.71 | 0.012 | 0.00 | 2.03 | 0.00 | 44.36 | 44.42 |
| 44.52 | 126.01 | 2.9712 | 104.02 | 1.81 | 1.74% | 1.791 | 0.67 | 53.35 | 2.22 | 1.71 | 111 | 0.207 | 0.327 | 0.81 | 1.077 | 0.503 | 932.78 | 3.913 | 2.223E+05 | 2.223E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | | 0.66 | 0.90 | <= | 0.82 | 0.010 | 0.00 | 2.02 | 0.00 | 44.42 | 44.52 |
| 44.56 | 125.94 | 2.9737 | 91.81 | 1.87 | 2.04% | 2.105 | 0.70 | 46.87 | 2.31 | 1.99 | 111 | 0.209 | 0.197 | 0.81 | 1.078 | 0.502 | 938.30 | 3.911 | 2.251E+05 | 2.251E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | | 0.40 | 0.54 | <= | 2.11 | 0.010 | 0.00 | 2.01 | 0.00 | 44.52 | 44.56 |
| 44.65 | 124.70 | 2.9794 | 59.77 | 1.82 | 3.05% | 3.205 | 0.79 | 29.92 | 2.60 | 3.30 | 112 | 0.211 | 0.242 | 0.81 | 1.081 | 0.502 | 933.71 | 3.873 | 2.251E+05 | 2.251E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | | 0.49 | 0.67 | <= | 2.10 | 0.022 | 0.00 | 2.00 | 0.00 | 44.56 | 44.65 |
| 44.69 | 124.11 | 2.9818 | 51.96 | 1.76 | 3.39% | 3.593 | 0.81 | 25.78 | 2.68 | 3.86 | 128 | 0.273 | 0.273 | 0.81 | 1.082 | 0.502 | 928.04 | 3.854 | 2.235E+05 | 2.235E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 44.78 | 122.23 | 2.9873 | 35.45 | 1.54 | 4.34% | 4.744 | 0.88 | 17.07 | 2.91 | 5.79 | 191 | 0.729 | 0.729 | 0.81 | 1.085 | 0.502 | 905.45 | 3.796 | 2.160E+05 | 2.160E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 44.82 | 121.40 | 2.9898 | 32.52 | 1.42 | 4.37% | 4.809 | 0.89 | 15.51 | 2.95 | 6.17 | 204 | 0.866 | 0.866 | 0.81 | 1.086 | 0.502 | 891.73 | 3.770 | 2.109E+05 | 2.109E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 44.91 | 119.68 | 2.9952 | 27.54 | 1.19 | 4.32% | 4.848 | 0.91 | 12.88 | 3.02 | 6.92 | 228 | 1.187 | 1.187 | 0.81 | 1.089 | 0.502 | 861.84 | 3.717 | 1.998E+05 | 1.998E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 44.96 | 118.55 | 2.9981 | 24.61 | 1.05 | 4.27% | 4.858 | 0.93 | 11.33 | 3.06 | 7.46 | 246 | 1.470 | 1.470 | 0.81 | 1.091 | 0.501 | 840.67 | 3.682 | 1.920E+05 | 1.920E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.05 | 117.07 | 3.0034 | 23.05 | 0.88 | 3.82% | 4.390 | 0.93 | 10.50 | 3.06 | 7.45 | 246 | 1.463 | 1.463 | 0.81 | 1.094 | 0.501 | 810.79 | 3.636 | 1.808E+05 | 1.808E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.09 | 116.56 | 3.0057 | 24.76 | 0.80 | 3.23% | 3.677 | 0.90 | 11.38 | 2.98 | 6.54 | 216 | 1.016 | 1.016 | 0.81 | 1.095 | 0.501 | 794.67 | 3.620 | 1.745E+05 | 1.745E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.18 | 115.58 | 3.0109 | 24.03 | 0.71 | 2.95% | 3.378 | 0.90 | 10.99 | 2.97 | 6.43 | 212 | 0.970 | 0.970 | 0.81 | 1.098 | 0.501 | 774.48 | 3.589 | 1.671E+05 | 1.671E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.22 | 115.34 | 3.0132 | 24.91 | 0.68 | 2.73% | 3.105 | 0.89 | 11.44 | 2.93 | 6.03 | 199 | 0.814 | 0.814 | 0.81 | 1.099 | 0.501 | 767.17 | 3.582 | 1.643E+05 | 1.643E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.31 | 115.27 | 3.0184 | 28.32 | 0.64 | 2.26% | 2.529 | 0.86 | 13.20 | 2.82 | 4.99 | 165 | 0.496 | 0.496 | 0.81 | 1.102 | 0.501 | 756.92 | 3.580 | 1.600E+05 | 1.600E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.37 | 115.63 | 3.0219 | 27.74 | 0.68 | 2.45% | 2.751 | 0.86 | 12.89 | 2.86 | 5.28 | 174 | 0.571 | 0.571 | 0.81 | 1.104 | 0.500 | 767.17 | 3.591 | 1.639E+05 | 1.639E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.45 | 118.72 | 3.0266 | 28.42 | 1.03 | 3.62% | 4.056 | 0.89 | 13.22 | 2.95 | 6.25 | 206 | 0.895 | 0.895 | 0.81 | 1.106 | 0.500 | 837.41 | 3.687 | 1.902E+05 | 1.902E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.47 | 119.41 | 3.0278 | 29.79 | 1.11 | 3.73% | 4.148 | 0.89 | 13.93 | 2.94 | 6.12 | 202 | 0.845 | 0.845 | 0.81 | 1.107 | 0.500 | 850.07 | 3.708 | 1.949E+05 | 1.949E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.59 | 122.63 | 3.0352 | 37.11 | 1.60 | 4.31% | 4.696 | 0.88 | 17.70 | 2.89 | 5.63 | 186 | 0.676 | 0.676 | 0.80 | 1.110 | 0.500 | 911.92 | 3.808 | 2.184E+05 | 2.184E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.61 | 122.65 | 3.0364 | 32.72 | 1.67 | 5.10% | 5.626 | 0.91 | 15.42 | 3.00 | 6.70 | 221 | 1.085 | 1.085 | 0.80 | 1.111 | 0.500 | 919.16 | 3.809 | 2.218E+05 | 2.218E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.71 | 124.78 | 3.0426 | 50.01 | 1.95 | 3.90% | 4.152 | 0.83 | 24.35 | 2.74 | 4.33 | 143 | 0.352 | 0.352 | 0.80 | 1.114 | 0.500 | 945.38 | 3.875 | 2.306E+05 | 2.306E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.75 | 125.22 | 3.0452 | 53.33 | 2.02 | 3.79% | 4.017 | 0.82 | 26.06 | 2.71 | 4.08 | 135 | 0.307 | 0.307 | 0.80 | 1.115 | 0.499 | 951.35 | 3.889 | 2.327E+05 | 2.327E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.84 | 125.77 | 3.0508 | 58.31 | 2.12 | 3.64% | 3.836 | 0.81 | 28.59 | 2.67 | 3.75 | 124 | 0.256 | 0.256 | 0.80 | 1.118 | 0.499 | 959.52 | 3.906 | 2.357E+05 | 2.357E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.89 | 125.83 | 3.0540 | 61.63 | 2.10 | 3.41% | 3.585 | 0.80 | 30.28 | 2.62 | 3.48 | 120 | 0.239 | 0.264 | 0.80 | 1.120 | 0.499 | 957.92 | 3.908 | 2.348E+05 | 2.348E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.98 | 0.00 | | |
| 45.97 | 126.10 | 3.0590 | 67.59 | 2.11 | 3.12% | 3.270 | 0.78 | 33.32 | 2.56 | 3.11 | 119 | 0.237 | 0.255 | 0.80 | 1.122 | 0.499 | 958.72 | 3.916 | 2.347E+05 | 2.347E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | | 0.52 | 0.71 | <= | 2.01 | 0.019 | 0.00 | 1.98 | 0.00 | 45.89 | 45.97 |
| 46.00 | 126.14 | 3.0609 | 69.54 | 2.10 | 3.02% | 3.159 | 0.77 | 34.31 | 2.54 | 2.99 | 118 | 0.234 | 0.246 | 0.80 | 1.123 | 0.499 | 957.92 | 3.917 | 2.342E+05 | 2.342E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | | 0.50 | 0.69 | <= | 2.01 | 0.007 | 0.00 | 1.96 | 0.00 | 45.97 | 46.00 |
| 46.06 | 126.20 | 3.0647 | 73.74 | 2.08 | 2.82% | 2.943 | 0.76 | 36.44 | 2.50 | 2.77 | 117 | 0.230 | 0.241 | 0.80 | 1.125 | 0.498 | 956.30 | 3.919 | 2.333E+05 | 2.333E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | | 0.49 | 0.67 | <= | 2.03 | 0.014 | 0.00 | 1.95 | 0.00 | 46.00 | 46.06 |
| 46.15 | 126.55 | 3.0704 | 77.94 | 2.14 | 2.75% | 2.858 | 0.75 | 38.54 | 2.47 | 2.63 | 118 | 0.235 | 0.239 | 0.80 | 1.128 | 0.498 | 961.11 | 3.930 | 2.350E+05 | 2.350E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | | 0.49 | 0.67 | <= | 2.01 | 0.021 | 0.00 | 1.94 | 0.00 | 46.06 | 46.15 |
| 46.20 | 126.56 | 3.0735 | 75.69 | 2.16 | 2.85% | 2.975 | 0.76 | 37.35 | 2.49 | 2.74 | 119 | 0.238 | 0.242 | 0.80 | 1.129 | 0.498 | 962.69 | 3.930 | 2.358E+05 | 2.358E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | | 0.49 | 0.68 | <= | 2.00 | 0.012 | 0.00 | 1.91 | 0.00 | 46.15 | 46.20 |
| 46.29 | 125.37 | 3.0792 | 63.97 | 1.95 | 3.05% | 3.202 | 0.78 | 31.28 | 2.58 | 3.19 | 115 | 0.220 | 0.243 | 0.80 | 1.132 | 0.498 | 945.38 | 3.893 | 2.296E+05 | 2.296E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | | 0.49 | 0.68 | <= | 2.07 | 0.022 | 0.00 | 1.90 | 0.00 | 46.20 | 46.29 |
| 46.33 | 124.24 | 3.0817 | 53.62 | 1.77 | 3.30% | 3.502 | 0.81 | 25.94 | 2.67 | 3.78 | 125 | 0.261 | 0.261 | 0.80 | 1.133 | 0.498 | 929.00 | 3.858 | 2.237E+05 | 2.237E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 46.46 | 120.97 | 3.0895 | 36.72 | 1.28 | 3.49% | 3.806 | 0.86 | 17.23 | 2.84 | 5.13 | 169 | 0.531 | 0.531 | 0.80 | 1.138 | 0.497 | 874.17 | 3.757 | 2.034E+05 | 2.034E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 46.47 | 120.65 | 3.0901 | 33.21 | 1.27 | 3.82% | 4.216 | 0.88 | 15.43 | 2.91 | 5.79 | 191 | 0.728 | 0.728 | 0.80 | 1.138 | 0.497 | 872.85 | 3.747 | 2.033E+05 | 2.033E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 46.54 | 119.63 | 3.0943 | 26.86 | 1.19 | 4.43% | 5.007 | 0.92 | 12.16 | 3.04 | 7.26 | 239 | 1.357 | 1.357 | 0.80 | 1.140 | 0.497 | 861.84 | 3.715 | 1.999E+05 | 1.999E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 46.60 | 119.06 | 3.0979 | 22.46 | 1.17 | 5.21% | 6.043 | 0.96 | 9.90 | 3.17 | 8.89 | 293 | 2.429 | 2.429 | 0.80 | 1.142 | 0.497 | 858.97 | 3.698 | 1.995E+05 | 1.995E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 46.69 | 118.13 | 3.1032 | 20.22 | 1.06 | 5.24% | 6.193 | 0.98 | 8.74 | 3.23 | 9.62 | 317 | 3.053 | 3.053 | 0.80 | 1.145 | 0.497 | 842.27 | 3.669 | 1.934E+05 | 1.934E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 46.74 | 117.45 | 3.1061 | 20.22 | 0.97 | 4.80% | 5.668 | 0.97 | 8.73 | 3.20 | 9.26 | 306 | 2.735 | 2.735 | 0.80 | 1.146 | 0.497 | 827.26 | 3.648 | 1.876E+05 | 1.876E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 46.82 | 117.10 | 3.1108 | 20.80 | 0.91 | 4.38% | 5.144 | 0.96 | 9.02 | 3.16 | 8.72 | 288 | 2.298 | 2.298 | 0.79 | 1.149 | 0.496 | 816.46 | 3.637 | 1.833E+05 | 1.833E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 46.87 | 117.35 | 3.1138 | 20.90 | 0.95 | 4.55% | 5.341 | 0.96 | 9.06 | 3.17 | 8.84 | 292 | 2.391 | 2.391 | 0.79 | 1.150 | 0.496 | 823.74 | 3.644 | 1.862E+05 | 1.862E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 46.92 | 117.92 | 3.1167 | 21.78 | 1.01 | 4.64% | 5.412 | 0.96 | 9.50 | 3.16 | 8.66 | 286 | 2.251 | 2.251 | 0.79 | 1.152 | 0.496 | 834.10 | 3.662 | 1.900E+05 | 1.900E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.00 | 118.83 | 3.1215 | 23.05 | 1.12 | 4.86% | 5.620 | 0.95 | 10.13 | 3.14 | 8.49 | 280 | 2.129 | 2.129 | 0.79 | 1.154 | 0.496 | 851.58 | 3.690 | 1.965E+05 | 1.965E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.09 | 117.04 | 3.1267 | 24.52 | 0.86 | 3.51% | 4.020 | 0.91 | 10.86 | 3.02 | 7.00 | 231 | 1.228 | 1.228 | 0.79 | 1.157 | 0.496 | 806.90 | 3.635 | 1.791E+05 | 1.791E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.13 | 118.20 | 3.1291 | 25.49 | 0.99 | 3.88% | 4.427 | 0.92 | 11.35 | 3.03 | 7.13 | 235 | 1.293 | 1.293 | 0.79 | 1.158 | 0.496 | 830.71 | 3.671 | 1.880E+05 | 1.880E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-2

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

**Project No.:** 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2

Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A ($ft^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47.18 | 119.97 | 3.1321 | 29.01 | 1.21 | 4.17% | 4.676 | 0.91 | 13.12 | 3.00 | 6.71 | 221 | 1.091 | 1.091 | 0.79 | 1.160 | 0.495 | 864.66 | 3.726 | 2.007E+05 | 2.007E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.26 | 121.10 | 3.1369 | 32.33 | 1.36 | 4.21% | 4.659 | 0.89 | 14.79 | 2.95 | 6.24 | 206 | 0.891 | 0.891 | 0.79 | 1.163 | 0.495 | 884.43 | 3.761 | 2.080E+05 | 2.080E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.34 | 121.39 | 3.1418 | 33.40 | 1.40 | 4.19% | 4.627 | 0.89 | 15.31 | 2.94 | 6.09 | 201 | 0.834 | 0.834 | 0.79 | 1.165 | 0.495 | 889.33 | 3.770 | 2.098E+05 | 2.098E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.38 | 121.46 | 3.1442 | 37.80 | 1.36 | 3.60% | 3.924 | 0.86 | 17.52 | 2.84 | 5.15 | 170 | 0.536 | 0.536 | 0.79 | 1.166 | 0.495 | 884.43 | 3.772 | 2.074E+05 | 2.074E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.45 | 121.19 | 3.1485 | 41.51 | 1.27 | 3.06% | 3.311 | 0.83 | 19.37 | 2.76 | 4.42 | 146 | 0.368 | 0.368 | 0.79 | 1.168 | 0.495 | 872.85 | 3.764 | 2.024E+05 | 2.024E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.53 | 120.47 | 3.1533 | 41.80 | 1.15 | 2.75% | 2.976 | 0.82 | 19.50 | 2.72 | 4.16 | 137 | 0.320 | 0.320 | 0.79 | 1.171 | 0.494 | 856.06 | 3.741 | 1.959E+05 | 1.959E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.58 | 120.11 | 3.1563 | 41.70 | 1.09 | 2.61% | 2.828 | 0.82 | 19.43 | 2.71 | 4.06 | 134 | 0.303 | 0.303 | 0.79 | 1.172 | 0.494 | 846.99 | 3.730 | 1.923E+05 | 1.923E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.65 | 120.00 | 3.1605 | 40.73 | 1.09 | 2.68% | 2.901 | 0.83 | 18.92 | 2.73 | 4.19 | 138 | 0.325 | 0.325 | 0.79 | 1.175 | 0.494 | 846.99 | 3.727 | 1.925E+05 | 1.925E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.71 | 119.75 | 3.1641 | 37.90 | 1.07 | 2.82% | 3.080 | 0.84 | 17.48 | 2.77 | 4.55 | 150 | 0.395 | 0.395 | 0.79 | 1.177 | 0.494 | 843.86 | 3.719 | 1.915E+05 | 1.915E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.80 | 118.85 | 3.1694 | 30.57 | 1.02 | 3.34% | 3.723 | 0.88 | 13.77 | 2.91 | 5.83 | 192 | 0.742 | 0.742 | 0.79 | 1.179 | 0.494 | 835.76 | 3.691 | 1.892E+05 | 1.892E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.84 | 118.68 | 3.1718 | 28.62 | 1.02 | 3.56% | 4.008 | 0.90 | 12.78 | 2.96 | 6.33 | 209 | 0.927 | 0.927 | 0.79 | 1.181 | 0.493 | 835.76 | 3.686 | 1.895E+05 | 1.895E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.94 | 118.15 | 3.1777 | 24.42 | 1.00 | 4.10% | 4.708 | 0.93 | 10.65 | 3.07 | 7.61 | 251 | 1.554 | 1.554 | 0.79 | 1.184 | 0.493 | 832.41 | 3.669 | 1.888E+05 | 1.888E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 47.98 | 117.59 | 3.1801 | 22.76 | 0.95 | 4.17% | 4.852 | 0.94 | 9.81 | 3.11 | 8.09 | 267 | 1.852 | 1.852 | 0.79 | 1.185 | 0.493 | 823.74 | 3.652 | 1.858E+05 | 1.858E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.04 | 116.98 | 3.1836 | 21.88 | 0.88 | 4.02% | 4.707 | 0.94 | 9.36 | 3.12 | 8.21 | 271 | 1.926 | 1.926 | 0.78 | 1.187 | 0.493 | 810.79 | 3.633 | 1.810E+05 | 1.810E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.11 | 116.15 | 3.1876 | 21.00 | 0.80 | 3.81% | 4.491 | 0.95 | 8.91 | 3.13 | 8.27 | 273 | 1.972 | 1.972 | 0.78 | 1.189 | 0.493 | 794.67 | 3.607 | 1.751E+05 | 1.751E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.16 | 115.43 | 3.1905 | 20.12 | 0.74 | 3.68% | 4.371 | 0.95 | 8.47 | 3.14 | 8.42 | 278 | 2.078 | 2.078 | 0.78 | 1.191 | 0.493 | 781.48 | 3.585 | 1.704E+05 | 1.704E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.24 | 115.29 | 3.1951 | 18.95 | 0.74 | 3.91% | 4.697 | 0.96 | 7.87 | 3.19 | 9.06 | 299 | 2.564 | 2.564 | 0.78 | 1.193 | 0.492 | 781.48 | 3.580 | 1.706E+05 | 1.706E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.30 | 115.15 | 3.1986 | 17.97 | 0.73 | 4.06% | 4.942 | 0.98 | 7.37 | 3.22 | 9.60 | 317 | 3.036 | 3.036 | 0.78 | 1.195 | 0.492 | 779.18 | 3.576 | 1.698E+05 | 1.698E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.38 | 115.20 | 3.2032 | 17.78 | 0.74 | 4.16% | 5.077 | 0.98 | 7.27 | 3.24 | 9.78 | 323 | 3.210 | 3.210 | 0.78 | 1.197 | 0.492 | 781.48 | 3.578 | 1.707E+05 | 1.707E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.47 | 115.37 | 3.2084 | 18.66 | 0.75 | 4.02% | 4.854 | 0.97 | 7.69 | 3.20 | 9.30 | 307 | 2.769 | 2.769 | 0.78 | 1.200 | 0.492 | 783.75 | 3.583 | 1.714E+05 | 1.714E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.51 | 115.33 | 3.2107 | 18.66 | 0.74 | 3.97% | 4.790 | 0.97 | 7.69 | 3.20 | 9.25 | 305 | 2.728 | 2.728 | 0.78 | 1.202 | 0.492 | 781.48 | 3.582 | 1.705E+05 | 1.705E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.59 | 115.33 | 3.2153 | 18.75 | 0.74 | 3.95% | 4.764 | 0.97 | 7.72 | 3.20 | 9.21 | 304 | 2.690 | 2.690 | 0.78 | 1.204 | 0.491 | 781.48 | 3.582 | 1.705E+05 | 1.705E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.65 | 115.45 | 3.2188 | 18.85 | 0.75 | 3.98% | 4.798 | 0.97 | 7.77 | 3.20 | 9.21 | 304 | 2.689 | 2.689 | 0.78 | 1.206 | 0.491 | 783.75 | 3.585 | 1.713E+05 | 1.713E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.69 | 115.51 | 3.2211 | 18.66 | 0.76 | 4.07% | 4.923 | 0.97 | 7.67 | 3.21 | 9.38 | 309 | 2.834 | 2.834 | 0.78 | 1.207 | 0.491 | 785.99 | 3.587 | 1.722E+05 | 1.722E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.78 | 115.47 | 3.2263 | 18.26 | 0.76 | 4.16% | 5.055 | 0.98 | 7.46 | 3.23 | 9.63 | 318 | 3.063 | 3.063 | 0.78 | 1.210 | 0.491 | 785.99 | 3.586 | 1.723E+05 | 1.723E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.82 | 115.47 | 3.2286 | 18.26 | 0.76 | 4.16% | 5.056 | 0.98 | 7.45 | 3.23 | 9.63 | 318 | 3.067 | 3.067 | 0.78 | 1.211 | 0.491 | 785.99 | 3.586 | 1.723E+05 | 1.723E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.91 | 115.59 | 3.2338 | 18.17 | 0.78 | 4.29% | 5.222 | 0.98 | 7.39 | 3.24 | 9.80 | 323 | 3.228 | 3.228 | 0.78 | 1.214 | 0.491 | 790.38 | 3.590 | 1.740E+05 | 1.740E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 48.95 | 115.74 | 3.2361 | 18.17 | 0.79 | 4.35% | 5.290 | 0.98 | 7.39 | 3.24 | 9.86 | 325 | 3.282 | 3.282 | 0.78 | 1.215 | 0.490 | 792.54 | 3.594 | 1.747E+05 | 1.747E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.05 | 115.95 | 3.2419 | 18.56 | 0.81 | 4.36% | 5.288 | 0.98 | 7.57 | 3.23 | 9.73 | 321 | 3.155 | 3.155 | 0.78 | 1.218 | 0.490 | 796.77 | 3.601 | 1.763E+05 | 1.763E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.09 | 114.29 | 3.2442 | 18.66 | 0.65 | 3.48% | 4.216 | 0.96 | 7.61 | 3.17 | 8.82 | 291 | 2.375 | 2.375 | 0.78 | 1.220 | 0.490 | 759.54 | 3.549 | 1.625E+05 | 1.625E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.15 | 110.76 | 3.2475 | 19.05 | 0.40 | 2.10% | 2.531 | 0.92 | 7.80 | 3.03 | 7.04 | 232 | 1.244 | 1.244 | 0.78 | 1.221 | 0.490 | 677.41 | 3.440 | 1.334E+05 | 1.334E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.22 | 112.57 | 3.2514 | 19.05 | 0.51 | 2.68% | 3.228 | 0.93 | 7.79 | 3.09 | 7.79 | 257 | 1.657 | 1.657 | 0.78 | 1.224 | 0.490 | 718.51 | 3.496 | 1.477E+05 | 1.477E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.29 | 113.80 | 3.2554 | 19.34 | 0.60 | 3.10% | 3.730 | 0.94 | 7.93 | 3.12 | 8.19 | 270 | 1.913 | 1.913 | 0.77 | 1.226 | 0.489 | 746.00 | 3.534 | 1.575E+05 | 1.575E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.36 | 114.83 | 3.2594 | 19.14 | 0.69 | 3.61% | 4.345 | 0.96 | 7.82 | 3.17 | 8.80 | 290 | 2.356 | 2.356 | 0.77 | 1.228 | 0.489 | 769.64 | 3.566 | 1.661E+05 | 1.661E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.43 | 115.72 | 3.2635 | 19.14 | 0.78 | 4.08% | 4.913 | 0.97 | 7.81 | 3.20 | 9.27 | 306 | 2.742 | 2.742 | 0.77 | 1.230 | 0.489 | 790.38 | 3.594 | 1.738E+05 | 1.738E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.48 | 116.34 | 3.2664 | 19.24 | 0.85 | 4.42% | 5.321 | 0.97 | 7.85 | 3.22 | 9.56 | 315 | 2.997 | 2.997 | 0.77 | 1.232 | 0.489 | 804.92 | 3.613 | 1.793E+05 | 1.793E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.54 | 116.85 | 3.2699 | 19.73 | 0.90 | 4.56% | 5.468 | 0.97 | 8.08 | 3.22 | 9.51 | 314 | 2.956 | 2.956 | 0.77 | 1.234 | 0.489 | 814.59 | 3.629 | 1.829E+05 | 1.829E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.61 | 117.14 | 3.2740 | 20.51 | 0.92 | 4.49% | 5.338 | 0.97 | 8.46 | 3.20 | 9.18 | 303 | 2.666 | 2.666 | 0.77 | 1.236 | 0.489 | 818.31 | 3.638 | 1.841E+05 | 1.841E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.70 | 117.66 | 3.2793 | 21.19 | 0.98 | 4.62% | 5.472 | 0.96 | 8.78 | 3.19 | 9.09 | 300 | 2.589 | 2.589 | 0.77 | 1.239 | 0.488 | 829.00 | 3.654 | 1.881E+05 | 1.881E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.77 | 118.10 | 3.2834 | 21.78 | 1.03 | 4.73% | 5.569 | 0.96 | 9.06 | 3.18 | 9.00 | 297 | 2.516 | 2.516 | 0.77 | 1.241 | 0.488 | 837.41 | 3.668 | 1.912E+05 | 1.912E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.82 | 118.48 | 3.2864 | 22.27 | 1.08 | 4.85% | 5.689 | 0.96 | 9.29 | 3.18 | 8.96 | 296 | 2.482 | 2.482 | 0.77 | 1.242 | 0.488 | 845.43 | 3.680 | 1.943E+05 | 1.943E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.89 | 119.09 | 3.2906 | 23.05 | 1.16 | 5.03% | 5.871 | 0.96 | 9.66 | 3.17 | 8.89 | 293 | 2.427 | 2.427 | 0.77 | 1.245 | 0.488 | 857.52 | 3.698 | 1.988E+05 | 1.988E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 49.95 | 119.51 | 3.2942 | 23.93 | 1.21 | 5.06% | 5.864 | 0.96 | 10.08 | 3.16 | 8.68 | 286 | 2.262 | 2.262 | 0.77 | 1.246 | 0.488 | 864.66 | 3.711 | 2.014E+05 | 2.014E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 50.04 | 120.58 | 3.2996 | 24.91 | 1.38 | 5.54% | 6.386 | 0.96 | 10.54 | 3.17 | 8.80 | 290 | 2.355 | 2.355 | 0.77 | 1.249 | 0.487 | 886.90 | 3.745 | 2.101E+05 | 2.101E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 50.08 | 121.02 | 3.3020 | 25.69 | 1.45 | 5.64% | 6.477 | 0.96 | 10.91 | 3.16 | 8.69 | 287 | 2.271 | 2.271 | 0.77 | 1.250 | 0.487 | 895.27 | 3.758 | 2.133E+05 | 2.133E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 50.16 | 121.76 | 3.3069 | 26.86 | 1.58 | 5.88% | 6.708 | 0.95 | 11.47 | 3.15 | 8.59 | 284 | 2.200 | 2.200 | 0.77 | 1.253 | 0.487 | 909.79 | 3.781 | 2.189E+05 | 2.189E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 50.23 | 122.63 | 3.3112 | 29.20 | 1.74 | 5.96% | 6.721 | 0.94 | 12.59 | 3.12 | 8.17 | 270 | 1.903 | 1.903 | 0.77 | 1.255 | 0.487 | 926.11 | 3.808 | 2.252E+05 | 2.252E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 50.30 | 123.57 | 3.3155 | 31.55 | 1.92 | 6.09% | 6.800 | 0.94 | 13.72 | 3.09 | 7.84 | 259 | 1.689 | 1.689 | 0.77 | 1.257 | 0.486 | 942.76 | 3.838 | 2.316E+05 | 2.316E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 50.38 | 124.12 | 3.3205 | 35.26 | 2.00 | 5.67% | 6.262 | 0.92 | 15.50 | 3.02 | 7.03 | 232 | 1.239 | 1.239 | 0.77 | 1.260 | 0.486 | 949.67 | 3.855 | 2.340E+05 | 2.340E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 50.44 | 124.59 | 3.3242 | 39.17 | 2.06 | 5.26% | 5.747 | 0.90 | 17.38 | 2.96 | 6.29 | 208 | 0.914 | 0.914 | 0.77 | 1.262 | 0.486 | 954.67 | 3.869 | 2.355E+05 | 2.355E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 50.49 | 124.81 | 3.3273 | 42.10 | 2.07 | 4.92% | 5.339 | 0.88 | 18.79 | 2.91 | 5.78 | 191 | 0.727 | 0.727 | 0.77 | 1.263 | 0.486 | 955.49 | 3.876 | 2.355E+05 | 2.355E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 50.57 | 125.39 | 3.3323 | 51.96 | 2.09 | 4.02% | 4.298 | 0.84 | 23.53 | 2.76 | 4.48 | 148 | 0.381 | 0.381 | 0.76 | 1.266 | 0.486 | 957.11 | 3.894 | 2.352E+05 | 2.352E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 50.60 | 125.73 | 3.3342 | 58.21 | 2.11 | 3.62% | 3.845 | 0.81 | 26.54 | 2.69 | 3.90 | 129 | 0.279 | 0.279 | 0.76 | 1.267 | 0.485 | 958.72 | 3.905 | 2.354E+05 | 2.354E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.88 | 0.00 | | |
| 50.67 | 126.36 | 3.3386 | 70.81 | 2.15 | 3.04% | 3.187 | 0.78 | 32.60 | 2.56 | 3.08 | 117 | 0.229 | 0.240 | 0.76 | 1.269 | 0.485 | 961.90 | 3.924 | 2.358E+05 | 2.358E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.50 | **0.69** | <= | 2.03 | 0.016 | 0.00 | 1.88 | 0.00 | 50.60 | 50.67 |
| 50.75 | 126.82 | 3.3437 | 79.89 | 2.20 | 2.75% | 2.874 | 0.75 | 36.94 | 2.48 | 2.68 | 117 | 0.230 | 0.228 | 0.76 | 1.271 | 0.485 | 965.79 | 3.939 | 2.368E+05 | 2.368E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.48 | **0.65** | <= | 2.03 | 0.019 | 0.00 | 1.87 | 0.00 | 50.67 | 50.75 |
| 50.79 | 126.96 | 3.3462 | 82.63 | 2.22 | 2.69% | 2.800 | 0.75 | 38.23 | 2.46 | 2.58 | 118 | 0.231 | 0.222 | 0.76 | 1.273 | 0.485 | 967.32 | 3.943 | 2.373E+05 | 2.373E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.46 | **0.64** | <= | 2.02 | 0.009 | 0.00 | 1.85 | 0.00 | 50.75 | 50.79 |
| 50.87 | 126.86 | 3.3513 | 82.04 | 2.20 | 2.68% | 2.796 | 0.75 | 37.90 | 2.46 | 2.59 | 117 | 0.229 | 0.227 | 0.76 | 1.275 | 0.484 | 965.79 | 3.940 | 2.368E+05 | 2.368E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.47 | **0.65** | <= | 2.03 | 0.019 | 0.00 | 1.84 | 0.00 | 50.79 | 50.87 |
| 50.93 | 126.68 | 3.3551 | 78.92 | 2.17 | 2.75% | 2.872 | 0.75 | 36.36 | 2.49 | 2.70 | 117 | 0.227 | 0.225 | 0.76 | 1.277 | 0.484 | 963.47 | 3.934 | 2.360E+05 | 2.360E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.47 | **0.65** | <= | 2.04 | 0.014 | 0.00 | 1.82 | 0.00 | 50.87 | 50.93 |
| 51.02 | 126.49 | 3.3608 | 75.60 | 2.15 | 2.84% | 2.976 | 0.76 | 34.71 | 2.51 | 2.84 | 116 | 0.226 | 0.231 | 0.76 | 1.280 | 0.484 | 961.90 | 3.928 | 2.355E+05 | 2.355E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.48 | **0.66** | <= | 2.04 | 0.021 | 0.00 | 1.80 | 0.00 | 50.93 | 51.02 |
| 51.06 | 126.46 | 3.3633 | 74.72 | 2.15 | 2.88% | 3.013 | 0.76 | 34.27 | 2.52 | 2.88 | 116 | 0.226 | 0.231 | 0.76 | 1.281 | 0.484 | 961.90 | 3.927 | 2.356E+05 | 2.356E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.48 | **0.67** | <= | 2.04 | 0.009 | 0.00 | 1.78 | 0.00 | 51.02 | 51.06 |
| 51.15 | 126.42 | 3.3690 | 73.45 | 2.15 | 2.93% | 3.068 | 0.77 | 33.61 | 2.53 | 2.95 | 116 | 0.227 | 0.238 | 0.76 | 1.284 | 0.483 | 961.90 | 3.926 | 2.357E+05 | 2.357E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.50 | **0.69** | <= | 2.04 | 0.021 | 0.00 | 1.77 | 0.00 | 51.06 | 51.15 |
| 51.23 | 126.68 | 3.3741 | 74.42 | 2.21 | 2.97% | 3.111 | 0.77 | 34.03 | 2.53 | 2.95 | 118 | 0.233 | 0.238 | 0.76 | 1.286 | 0.483 | 966.56 | 3.934 | 2.375E+05 | 2.375E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.50 | **0.68** | <= | 2.02 | 0.019 | 0.00 | 1.75 | 0.00 | 51.15 | 51.23 |
| 51.26 | 125.11 | 3.3760 | 76.57 | 1.77 | 2.31% | 2.418 | 0.74 | 35.04 | 2.45 | 2.51 | 105 | 0.189 | 0.198 | 0.76 | 1.287 | 0.483 | 929.00 | 3.885 | 2.221E+05 | 2.221E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.42 | **0.57** | <= | 2.21 | 0.008 | 0.00 | 1.73 | 0.00 | 51.23 | 51.26 |
| 51.33 | 121.36 | 3.3802 | 82.73 | 1.03 | 1.25% | 1.298 | 0.68 | 37.95 | 2.23 | 1.76 | 83 | 0.134 | 0.294 | 0.76 | 1.289 | 0.483 | 837.41 | 3.769 | 1.861E+05 | 1.861E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.62 | **0.85** | <= | 2.67 | 0.022 | 0.00 | 1.73 | 0.00 | 51.26 | 51.33 |
| 51.41 | 123.64 | 3.3852 | 88.88 | 1.38 | 1.55% | 1.614 | 0.69 | 40.84 | 2.27 | 1.86 | 94 | 0.158 | 0.162 | 0.76 | 1.292 | 0.483 | 886.90 | 3.840 | 2.049E+05 | 2.049E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.34 | **0.47** | <= | 2.42 | 0.022 | 0.00 | 1.70 | 0.00 | 51.33 | 51.41 |
| 51.51 | 125.61 | 3.3914 | 94.25 | 1.77 | 1.88% | 1.948 | 0.70 | 43.34 | 2.30 | 1.96 | 105 | 0.188 | 0.181 | 0.76 | 1.295 | 0.482 | 929.00 | 3.901 | 2.212E+05 | 2.212E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.38 | **0.52** | <= | 2.22 | 0.026 | 0.00 | 1.68 | 0.00 | 51.41 | 51.51 |
| 51.55 | 126.14 | 3.3940 | 97.18 | 1.88 | 1.93% | 2.005 | 0.70 | 44.71 | 2.30 | 1.96 | 108 | 0.197 | 0.184 | 0.76 | 1.296 | 0.482 | 939.20 | 3.917 | 2.252E+05 | 2.252E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.39 | **0.53** | <= | 2.17 | 0.010 | 0.00 | 1.66 | 0.00 | 51.51 | 51.55 |
| 51.59 | 126.70 | 3.3965 | 100.11 | 2.01 | 2.01% | 2.078 | 0.70 | 46.08 | 2.30 | 1.96 | 112 | 0.209 | 0.187 | 0.76 | 1.298 | 0.482 | 950.51 | 3.935 | 2.296E+05 | 2.296E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.39 | **0.54** | <= | 2.11 | 0.010 | 0.00 | 1.65 | 0.00 | 51.55 | 51.59 |
| 51.67 | 127.50 | 3.4016 | 107.34 | 2.19 | 2.04% | 2.107 | 0.69 | 49.46 | 2.28 | 1.90 | 116 | 0.226 | 0.186 | 0.76 | 1.300 | 0.482 | 965.02 | 3.960 | 2.352E+05 | 2.352E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.39 | **0.54** | <= | 2.04 | 0.019 | 0.00 | 1.64 | 0.00 | 51.59 | 51.67 |
| 51.71 | 127.87 | 3.4042 | 114.76 | 2.25 | 1.96% | 2.021 | 0.68 | 52.96 | 2.25 | 1.79 | 118 | 0.235 | 0.311 | 0.76 | 1.301 | 0.482 | 969.59 | 3.971 | 2.367E+05 | 2.367E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.65 | **0.90** | <= | 2.00 | 0.009 | 0.00 | 1.62 | 0.00 | 51.67 | 51.71 |
| 51.80 | 128.08 | 3.4099 | 119.74 | 2.29 | 1.91% | 1.969 | 0.68 | 55.24 | 2.22 | 1.73 | 120 | 0.240 | 0.299 | 0.75 | 1.304 | 0.481 | 972.57 | 3.978 | 2.378E+05 | 2.378E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.63 | **0.87** | <= | 1.71 | 0.018 | 0.00 | 1.61 | 0.00 | 51.71 | 51.80 |
| 51.85 | 127.98 | 3.4131 | 121.99 | 2.24 | 1.84% | 1.889 | 0.67 | 56.27 | 2.20 | 1.68 | 119 | 0.237 | 0.296 | 0.75 | 1.306 | 0.481 | 968.84 | 3.975 | 2.362E+05 | 2.362E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.62 | **0.86** | <= | 1.64 | 0.010 | 0.00 | 1.59 | 0.00 | 51.80 | 51.85 |
| 51.93 | 127.63 | 3.4182 | 123.45 | 2.13 | 1.73% | 1.775 | 0.66 | 56.89 | 2.18 | 1.62 | 117 | 0.229 | 0.286 | 0.75 | 1.308 | 0.481 | 960.32 | 3.964 | 2.327E+05 | 2.327E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.60 | **0.83** | <= | 1.44 | 0.014 | 0.00 | 1.58 | 0.00 | 51.85 | 51.93 |
| 51.98 | 127.31 | 3.4214 | 123.84 | 2.04 | 1.65% | 1.694 | 0.66 | 57.03 | 2.16 | 1.59 | 115 | 0.222 | 0.278 | 0.75 | 1.310 | 0.481 | 953.02 | 3.954 | 2.297E+05 | 2.297E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.58 | **0.80** | <= | 1.28 | 0.008 | 0.00 | 1.57 | 0.00 | 51.93 | 51.98 |
| 52.07 | 126.51 | 3.4271 | 121.11 | 1.84 | 1.52% | 1.564 | 0.65 | 55.65 | 2.15 | 1.55 | 110 | 0.205 | 0.274 | 0.75 | 1.313 | 0.480 | 935.56 | 3.929 | 2.228E+05 | 2.228E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.58 | **0.79** | <= | 2.13 | 0.022 | 0.00 | 1.56 | 0.00 | 51.98 | 52.07 |
| 52.12 | 126.16 | 3.4303 | 118.38 | 1.77 | 1.50% | 1.540 | 0.65 | 54.32 | 2.15 | 1.56 | 108 | 0.198 | 0.280 | 0.75 | 1.314 | 0.480 | 929.00 | 3.918 | 2.203E+05 | 2.203E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.59 | **0.81** | <= | 1.46 | 0.009 | 0.00 | 1.54 | 0.00 | 52.07 | 52.12 |
| 52.18 | 125.98 | 3.4340 | 111.34 | 1.76 | 1.58% | 1.631 | 0.67 | 50.95 | 2.19 | 1.65 | 107 | 0.192 | 0.288 | 0.75 | 1.316 | 0.480 | 928.04 | 3.912 | 2.201E+05 | 2.201E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.61 | **0.83** | <= | 1.67 | 0.012 | 0.00 | 1.53 | 0.00 | 52.12 | 52.18 |
| 52.25 | 126.40 | 3.4385 | 101.87 | 1.92 | 1.88% | 1.951 | 0.69 | 46.42 | 2.28 | 1.89 | 109 | 0.201 | 0.174 | 0.75 | 1.318 | 0.480 | 942.76 | 3.925 | 2.264E+05 | 2.264E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.37 | **0.50** | <= | 2.15 | 0.017 | 0.00 | 1.52 | 0.00 | 52.18 | 52.25 |
| 52.34 | 126.84 | 3.4442 | 90.34 | 2.12 | 2.35% | 2.440 | 0.73 | 40.93 | 2.39 | 2.28 | 114 | 0.217 | 0.203 | 0.75 | 1.321 | 0.479 | 959.52 | 3.939 | 2.337E+05 | 2.337E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.43 | **0.59** | <= | 2.08 | 0.022 | 0.00 | 1.50 | 0.00 | 52.25 | 52.34 |
| 52.38 | 126.78 | 3.4467 | 83.12 | 2.16 | 2.60% | 2.711 | 0.74 | 37.50 | 2.46 | 2.56 | 115 | 0.222 | 0.215 | 0.75 | 1.322 | 0.479 | 962.69 | 3.937 | 2.354E+05 | 2.354E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.45 | **0.62** | <= | 2.06 | 0.010 | 0.00 | 1.48 | 0.00 | 52.34 | 52.38 |
| 52.45 | 126.59 | 3.4511 | 70.61 | 2.22 | 3.14% | 3.306 | 0.78 | 31.58 | 2.58 | 3.19 | 118 | 0.233 | 0.246 | 0.75 | 1.324 | 0.479 | 967.32 | 3.931 | 2.380E+05 | 2.380E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.52 | **0.72** | <= | 2.02 | 0.016 | 0.00 | 1.47 | 0.00 | 52.38 | 52.45 |
| 52.53 | 126.21 | 3.4562 | 63.29 | 2.19 | 3.46% | 3.660 | 0.80 | 28.10 | 2.65 | 3.65 | 120 | 0.242 | 0.242 | 0.75 | 1.327 | 0.479 | 965.02 | 3.920 | 2.376E+05 | 2.376E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.45 | 0.00 | | |
| 52.56 | 126.06 | 3.4581 | 61.73 | 2.17 | 3.52% | 3.724 | 0.81 | 27.36 | 2.66 | 3.75 | 124 | 0.256 | 0.256 | 0.75 | 1.328 | 0.478 | 963.47 | 3.915 | 2.371E+05 | 2.371E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.45 | 0.00 | | |
| 52.65 | 125.93 | 3.4637 | 62.61 | 2.12 | 3.39% | 3.584 | 0.80 | 27.73 | 2.65 | 3.63 | 120 | 0.240 | 0.240 | 0.75 | 1.331 | 0.478 | 959.52 | 3.911 | 2.354E+05 | 2.354E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.45 | 0.00 | | |
| 52.70 | 125.92 | 3.4669 | 65.24 | 2.09 | 3.20% | 3.383 | 0.79 | 28.94 | 2.62 | 3.42 | 115 | 0.221 | 0.221 | 0.75 | 1.332 | 0.478 | 957.11 | 3.911 | 2.343E+05 | 2.343E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.45 | 0.00 | | |
| 52.78 | 125.35 | 3.4719 | 71.20 | 1.87 | 2.63% | 2.761 | 0.76 | 31.69 | 2.52 | 2.87 | 108 | 0.197 | 0.214 | 0.75 | 1.335 | 0.478 | 938.30 | 3.893 | 2.262E+05 | 2.262E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.45 | **0.62** | <= | 2.17 | 0.020 | 0.00 | 1.45 | 0.00 | 52.70 | 52.78 |
| 52.85 | 125.11 | 3.4763 | 78.04 | 1.76 | 2.26% | 2.360 | 0.74 | 34.85 | 2.44 | 2.48 | 104 | 0.185 | 0.196 | 0.75 | 1.337 | 0.477 | 928.04 | 3.885 | 2.217E+05 | 2.217E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.42 | **0.57** | <= | 2.23 | 0.018 | 0.00 | 1.43 | 0.00 | 52.78 | 52.85 |
| 52.92 | 125.13 | 3.4807 | 79.21 | 1.75 | 2.21% | 2.311 | 0.74 | 35.36 | 2.43 | 2.42 | 104 | 0.184 | 0.190 | 0.75 | 1.339 | 0.477 | 927.08 | 3.886 | 2.212E+05 | 2.212E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.40 | **0.55** | <= | 2.24 | 0.018 | 0.00 | 1.41 | 0.00 | 52.85 | 52.92 |
| 52.96 | 125.27 | 3.4832 | 77.65 | 1.80 | 2.32% | 2.427 | 0.74 | 34.61 | 2.45 | 2.52 | 105 | 0.188 | 0.195 | 0.75 | 1.340 | 0.477 | 931.84 | 3.890 | 2.232E+05 | 2.232E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.41 | **0.57** | <= | 2.21 | 0.010 | 0.00 | 1.39 | 0.00 | 52.92 | 52.96 |
| 53.05 | 125.62 | 3.4888 | 72.76 | 1.93 | 2.65% | 2.786 | 0.76 | 32.28 | 2.52 | 2.85 | 109 | 0.201 | 0.214 | 0.74 | 1.343 | 0.477 | 943.64 | 3.901 | 2.282E+05 | 2.282E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.45 | **0.62** | <= | 2.15 | 0.022 | 0.00 | 1.38 | 0.00 | 52.96 | 53.05 |
| 53.09 | 125.80 | 3.4913 | 70.32 | 2.00 | 2.84% | 2.993 | 0.77 | 31.13 | 2.55 | 3.04 | 112 | 0.209 | 0.228 | 0.74 | 1.344 | 0.477 | 949.67 | 3.907 | 2.308E+05 | 2.308E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.48 | **0.66** | <= | 2.11 | 0.010 | 0.00 | 1.36 | 0.00 | 53.05 | 53.09 |
| 53.17 | 125.96 | 3.4964 | 65.05 | 2.10 | 3.23% | 3.412 | 0.79 | 28.64 | 2.62 | 3.46 | 115 | 0.221 | 0.221 | 0.74 | 1.347 | 0.476 | 957.92 | 3.912 | 2.346E+05 | 2.346E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.35 | 0.00 | | |
| 53.29 | 125.66 | 3.5039 | 65.54 | 2.01 | 3.07% | 3.240 | 0.79 | 28.81 | 2.60 | 3.34 | 112 | 0.212 | 0.212 | 0.74 | 1.351 | 0.476 | 950.51 | 3.902 | 2.315E+05 | 2.315E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.35 | 0.00 | | |
| 53.32 | 125.24 | 3.5058 | 66.90 | 1.88 | 2.81% | 2.966 | 0.78 | 29.43 | 2.57 | 3.13 | 108 | 0.198 | 0.221 | 0.74 | 1.352 | 0.476 | 939.20 | 3.889 | 2.268E+05 | 2.268E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.47 | **0.65** | <= | 2.16 | 0.008 | 0.00 | 1.35 | 0.00 | 53.29 | 53.32 |
| 53.36 | 124.57 | 3.5083 | 67.78 | 1.71 | 2.52% | 2.661 | 0.77 | 29.82 | 2.53 | 2.92 | 103 | 0.182 | 0.203 | 0.74 | 1.353 | 0.476 | 923.17 | 3.869 | 2.203E+05 | 2.203E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.43 | **0.59** | <= | 2.25 | 0.010 | 0.00 | 1.34 | 0.00 | 53.32 | 53.36 |
| 53.42 | 121.06 | 3.5119 | 68.08 | 1.06 | 1.56% | 1.642 | 0.72 | 29.93 | 2.39 | 2.26 | 83 | 0.132 | 0.154 | 0.74 | 1.355 | 0.475 | 842.27 | 3.760 | 1.887E+05 | 1.887E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.33 | **0.45** | <= | 2.69 | 0.019 | 0.00 | 1.33 | 0.00 | 53.36 | 53.42 |
| 53.54 | 119.36 | 3.5191 | 65.83 | 0.85 | 1.29% | 1.364 | 0.71 | 28.84 | 2.35 | 2.12 | 75 | 0.120 | 0.141 | 0.74 | 1.358 | 0.475 | 804.92 | 3.707 | 1.748E+05 | 1.748E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.30 | **0.41** | <= | 2.90 | 0.041 | 0.00 | 1.31 | 0.00 | 53.42 | 53.54 |
| 53.59 | 119.71 | 3.5221 | 64.46 | 0.90 | 1.40% | 1.477 | 0.72 | 28.19 | 2.38 | 2.23 | 77 | 0.123 | 0.145 | 0.74 | 1.360 | 0.475 | 814.59 | 3.718 | 1.785E+05 | 1.785E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.31 | **0.42** | <= | 2.85 | 0.017 | 0.00 | 1.27 | 0.00 | 53.54 | 53.59 |
| 53.63 | 120.30 | 3.5245 | 63.29 | 0.98 | 1.55% | 1.640 | 0.73 | 27.63 | 2.42 | 2.38 | 80 | 0.127 | 0.151 | 0.74 | 1.361 | 0.475 | 829.00 | 3.736 | 1.839E+05 | 1.839E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.32 | **0.44** | <= | 2.76 | 0.013 | 0.00 | 1.26 | 0.00 | 53.59 | 53.63 |
| 53.73 | 122.12 | 3.5306 | 54.50 | 1.32 | 2.42% | 2.590 | 0.79 | 23.53 | 2.61 | 3.37 | 111 | 0.208 | 0.208 | 0.74 | 1.364 | 0.474 | 879.38 | 3.793 | 2.039E+05 | 2.039E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.24 | 0.00 | | |
| 53.75 | 122.01 | 3.5318 | 48.74 | 1.35 | 2.77% | 2.986 | 0.82 | 20.86 | 2.69 | 3.94 | 130 | 0.285 | 0.285 | 0.74 | 1.365 | 0.474 | 883.18 | 3.789 | 2.059E+05 | 2.059E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.24 | 0.00 | | |
| 53.81 | 122.87 | 3.5355 | 52.35 | 1.48 | 2.83% | 3.032 | 0.81 | 22.51 | 2.67 | 3.78 | 125 | 0.260 | 0.260 | 0.74 | 1.367 | 0.474 | 898.73 | 3.816 | 2.117E+05 | 2.117E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.24 | 0.00 | | |
| 53.90 | 122.60 | 3.5410 | 46.49 | 1.48 | 3.18% | 3.446 | 0.83 | 19.78 | 2.75 | 4.41 | 145 | 0.366 | 0.366 | 0.74 | 1.370 | 0.474 | 898.73 | 3.807 | 2.121E+05 | 2.121E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.24 | 0.00 | | |
| 53.94 | 122.25 | 3.5435 | 42.78 | 1.45 | 3.39% | 3.696 | 0.85 | 18.06 | 2.81 | 4.85 | 160 | 0.462 | 0.462 | 0.74 | 1.371 | 0.474 | 895.27 | 3.797 | 2.111E+05 | 2.111E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.24 | 0.00 | | |
| 54.03 | 121.38 | 3.5489 | 41.22 | 1.31 | 3.18% | 3.477 | 0.85 | 17.32 | 2.81 | 4.83 | 159 | 0.456 | 0.456 | 0.74 | 1.374 | 0.473 | 878.09 | 3.770 | 2.045E+05 | 2.045E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.24 | 0.00 | | |
| 54.07 | 121.34 | 3.5513 | 48.15 | 1.23 | 2.55% | 2.758 | 0.81 | 20.49 | 2.68 | 3.82 | 126 | 0.266 | 0.266 | 0.74 | 1.375 | 0.473 | 867.43 | 3.768 | 1.997E+05 | 1.997E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.24 | 0.00 | | |
| 54.16 | 121.89 | 3.5568 | 66.51 | 1.19 | 1.79% | 1.890 | 0.74 | 28.89 | 2.44 | 2.48 | 87 | 0.141 | 0.164 | 0.74 | 1.378 | 0.473 | 861.84 | 3.785 | 1.962E+05 | 1.962E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.35 | **0.48** | <= | 2.59 | 0.027 | 0.00 | 1.24 | 0.00 | 54.07 | 54.16 |
| 54.21 | 122.10 | 3.5599 | 76.77 | 1.17 | 1.52% | 1.598 | 0.71 | 33.57 | 2.33 | 2.06 | 86 | 0.139 | 0.156 | 0.73 | 1.379 | 0.473 | 858.97 | 3.792 | 1.946E+05 | 1.946E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.33 | **0.46** | <= | 2.60 | 0.015 | 0.00 | 1.22 | 0.00 | 54.16 | 54.21 |
| 54.28 | 122.06 | 3.5642 | 79.41 | 1.15 | 1.45% | 1.516 | 0.70 | 34.75 | 2.31 | 1.97 | 86 | 0.138 | 0.151 | 0.73 | 1.382 | 0.472 | 856.06 | 3.791 | 1.933E+05 | 1.933E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.32 | **0.45** | <= | 2.62 | 0.021 | 0.00 | 1.20 | 0.00 | 54.21 | 54.28 |
| 54.34 | 122.31 | 3.5678 | 77.45 | 1.20 | 1.55% | 1.624 | 0.71 | 33.82 | 2.34 | 2.07 | 87 | 0.141 | 0.154 | 0.73 | 1.383 | 0.472 | 863.26 | 3.798 | 1.962E+05 | 1.962E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.33 | **0.46** | <= | 2.58 | 0.018 | 0.00 | 1.18 | 0.00 | 54.28 | 54.34 |
| 54.45 | 123.28 | 3.5746 | 64.76 | 1.46 | 2.25% | 2.386 | 0.76 | 27.97 | 2.52 | 2.86 | 96 | 0.161 | 0.184 | 0.73 | 1.387 | 0.472 | 896.43 | 3.829 | 2.099E+05 | 2.099E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.39 | **0.54** | <= | 2.39 | 0.031 | 0.00 | 1.16 | 0.00 | 54.34 | 54.45 |
| 54.48 | 123.23 | 3.5764 | 59.38 | 1.49 | 2.51% | 2.670 | 0.78 | 25.50 | 2.59 | 3.24 | 107 | 0.194 | 0.230 | 0.73 | 1.388 | 0.472 | 899.87 | 3.827 | 2.116E+05 | 2.116E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.49 | **0.68** | <= | 2.19 | 0.008 | 0.00 | 1.13 | 0.00 | 54.45 | 54.48 |
| 54.54 | 123.23 | 3.5801 | 50.69 | 1.57 | 3.10% | 3.333 | 0.82 | 21.51 | 2.71 | 4.10 | 135 | 0.310 | 0.310 | 0.73 | 1.390 | 0.471 | 908.72 | 3.827 | 2.158E+05 | 2.158E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 54.61 | 123.08 | 3.5845 | 43.37 | 1.62 | 3.74% | 4.072 | 0.86 | 18.15 | 2.83 | 5.09 | 168 | 0.521 | 0.521 | 0.73 | 1.392 | 0.471 | 914.02 | 3.822 | 2.186E+05 | 2.186E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 54.69 | 122.07 | 3.5893 | 33.50 | 1.54 | 4.60% | 5.149 | 0.91 | 13.63 | 3.01 | 6.84 | 226 | 1.150 | 1.150 | 0.73 | 1.394 | 0.471 | 905.45 | 3.791 | 2.163E+05 | 2.163E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 54.73 | 121.72 | 3.5918 | 31.65 | 1.50 | 4.74% | 5.346 | 0.92 | 12.78 | 3.04 | 7.24 | 239 | 1.347 | 1.347 | 0.73 | 1.396 | 0.471 | 901.00 | 3.780 | 2.148E+05 | 2.148E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 54.80 | 121.05 | 3.5960 | 28.71 | 1.41 | 4.91% | 5.614 | 0.94 | 11.42 | 3.10 | 7.90 | 261 | 1.730 | 1.730 | 0.73 | 1.398 | 0.470 | 890.54 | 3.759 | 2.110E+05 | 2.110E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 54.87 | 119.83 | 3.6002 | 26.66 | 1.22 | 4.58% | 5.291 | 0.94 | 10.48 | 3.11 | 8.08 | 267 | 1.842 | 1.842 | 0.73 | 1.400 | 0.470 | 866.05 | 3.721 | 2.015E+05 | 2.015E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 54.95 | 118.85 | 3.6050 | 23.64 | 1.11 | 4.70% | 5.540 | 0.96 | 9.10 | 3.18 | 8.94 | 295 | 2.470 | 2.470 | 0.73 | 1.402 | 0.470 | 850.07 | 3.691 | 1.958E+05 | 1.958E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 55.01 | 118.70 | 3.6085 | 23.34 | 1.10 | 4.71% | 5.575 | 0.96 | 8.95 | 3.19 | 9.05 | 299 | 2.556 | 2.556 | 0.73 | 1.404 | 0.470 | 848.54 | 3.686 | 1.953E+05 | 1.953E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 55.07 | 118.68 | 3.6121 | 22.95 | 1.10 | 4.79% | 5.688 | 0.97 | 8.77 | 3.20 | 9.24 | 305 | 2.713 | 2.713 | 0.73 | 1.406 | 0.470 | 848.54 | 3.686 | 1.954E+05 | 1.954E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 55.14 | 118.67 | 3.6162 | 22.66 | 1.10 | 4.85% | 5.776 | 0.97 | 8.63 | 3.21 | 9.38 | 310 | 2.841 | 2.841 | 0.73 | 1.408 | 0.469 | 848.54 | 3.685 | 1.954E+05 | 1.954E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 55.19 | 118.74 | 3.6192 | 23.05 | 1.11 | 4.82% | 5.713 | 0.97 | 8.80 | 3.20 | 9.24 | 305 | 2.714 | 2.714 | 0.73 | 1.410 | 0.469 | 850.07 | 3.688 | 1.960E+05 | 1.960E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 55.27 | 120.20 | 3.6240 | 25.78 | 1.30 | 5.04% | 5.867 | 0.96 | 10.02 | 3.16 | 8.69 | 287 | 2.273 | 2.273 | 0.73 | 1.412 | 0.469 | 876.80 | 3.733 | 2.059E+05 | 2.059E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 55.32 | 120.84 | 3.6270 | 30.86 | 1.34 | 4.34% | 4.921 | 0.92 | 12.31 | 3.03 | 7.10 | 234 | 1.279 | 1.279 | 0.73 | 1.414 | 0.469 | 881.92 | 3.753 | 2.073E+05 | 2.073E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 55.40 | 119.42 | 3.6318 | 36.82 | 1.04 | 2.82% | 3.134 | 0.86 | 14.98 | 2.83 | 5.02 | 166 | 0.504 | 0.504 | 0.73 | 1.416 | 0.468 | 839.05 | 3.709 | 1.898E+05 | 1.898E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 55.45 | 119.13 | 3.6348 | 44.93 | 0.93 | 2.07% | 2.252 | 0.80 | 18.63 | 2.65 | 3.66 | 121 | 0.244 | 0.244 | 0.72 | 1.418 | 0.468 | 820.14 | 3.700 | 1.818E+05 | 1.818E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 1.12 | 0.00 | | |
| 55.54 | 120.61 | 3.6402 | 53.62 | 1.08 | 2.01% | 2.161 | 0.78 | 22.52 | 2.57 | 3.14 | 104 | 0.183 | 0.225 | 0.72 | 1.421 | 0.468 | 845.43 | 3.746 | 1.908E+05 | 1.908E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 0.49 | **0.67** | <= | 2.24 | 0.024 | 0.00 | 1.12 | 0.00 | 55.45 | 55.54 |
| 55.58 | 120.92 | 3.6426 | 57.72 | 1.10 | 1.91% | 2.034 | 0.76 | 24.35 | 2.52 | 2.88 | 95 | 0.160 | 0.193 | 0.72 | 1.422 | 0.468 | 848.54 | 3.755 | 1.917E+05 | 1.917E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 0.42 | **0.57** | <= | 2.40 | 0.012 | 0.00 | 1.10 | 0.00 | 55.54 | 55.58 |
| 55.65 | 121.30 | 3.6469 | 66.32 | 1.10 | 1.66% | 1.755 | 0.74 | 28.20 | 2.42 | 2.42 | 83 | 0.134 | 0.156 | 0.72 | 1.424 | 0.467 | 848.54 | 3.767 | 1.911E+05 | 1.911E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 0.34 | **0.46** | <= | 2.67 | 0.022 | 0.00 | 1.09 | 0.00 | 55.58 | 55.65 |
| 55.71 | 121.31 | 3.6505 | 66.71 | 1.10 | 1.65% | 1.744 | 0.73 | 28.35 | 2.42 | 2.40 | 83 | 0.134 | 0.156 | 0.72 | 1.426 | 0.467 | 848.54 | 3.767 | 1.911E+05 | 1.911E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 0.34 | **0.47** | <= | 2.67 | 0.019 | 0.00 | 1.07 | 0.00 | 55.65 | 55.71 |
| 55.78 | 121.78 | 3.6548 | 79.89 | 1.11 | 1.39% | 1.456 | 0.70 | 34.24 | 2.30 | 1.94 | 84 | 0.135 | 0.148 | 0.72 | 1.428 | 0.467 | 850.07 | 3.782 | 1.911E+05 | 1.911E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 0.32 | **0.44** | <= | 2.66 | 0.022 | 0.00 | 1.05 | 0.00 | 55.71 | 55.78 |
| 55.86 | 121.93 | 3.6597 | 79.50 | 1.13 | 1.42% | 1.490 | 0.70 | 34.03 | 2.31 | 1.97 | 84 | 0.136 | 0.150 | 0.72 | 1.431 | 0.467 | 853.09 | 3.787 | 1.922E+05 | 1.922E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 0.32 | **0.45** | <= | 2.65 | 0.025 | 0.00 | 1.03 | 0.00 | 55.78 | 55.86 |
| 55.94 | 123.53 | 3.6646 | 74.62 | 1.44 | 1.93% | 2.029 | 0.73 | 31.80 | 2.42 | 2.40 | 94 | 0.156 | 0.172 | 0.72 | 1.433 | 0.466 | 894.10 | 3.836 | 2.084E+05 | 2.084E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 0.37 | **0.51** | <= | 2.43 | 0.023 | 0.00 | 1.00 | 0.00 | 55.86 | 55.94 |
| 55.99 | 124.06 | 3.6677 | 65.34 | 1.62 | 2.48% | 2.627 | 0.77 | 27.62 | 2.55 | 3.04 | 100 | 0.173 | 0.199 | 0.72 | 1.435 | 0.466 | 914.02 | 3.853 | 2.168E+05 | 2.168E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 0.43 | **0.59** | <= | 2.30 | 0.014 | 0.00 | 0.98 | 0.00 | 55.94 | 55.99 |
| 56.06 | 124.31 | 3.6720 | 54.99 | 1.77 | 3.22% | 3.449 | 0.82 | 22.96 | 2.70 | 3.99 | 132 | 0.292 | 0.292 | 0.72 | 1.437 | 0.466 | 929.00 | 3.861 | 2.236E+05 | 2.236E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 0.97 | 0.00 | | |
| 56.12 | 124.10 | 3.6758 | 46.20 | 1.83 | 3.96% | 4.303 | 0.86 | 19.01 | 2.83 | 5.08 | 168 | 0.519 | 0.519 | 0.72 | 1.439 | 0.466 | 934.64 | 3.854 | 2.267E+05 | 2.267E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 0.97 | 0.00 | | |
| 56.20 | 124.46 | 3.6807 | 46.88 | 1.91 | 4.07% | 4.421 | 0.86 | 19.29 | 2.84 | 5.11 | 169 | 0.526 | 0.526 | 0.72 | 1.441 | 0.465 | 941.88 | 3.865 | 2.295E+05 | 2.295E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 0.97 | 0.00 | | |
| 56.25 | 124.25 | 3.6839 | 39.95 | 1.96 | 4.91% | 5.404 | 0.90 | 16.18 | 2.96 | 6.32 | 209 | 0.926 | 0.926 | 0.72 | 1.443 | 0.465 | 946.25 | 3.859 | 2.320E+05 | 2.320E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 0.97 | 0.00 | | |
| 56.32 | 124.56 | 3.6882 | 47.57 | 1.92 | 4.04% | 4.375 | 0.86 | 19.56 | 2.83 | 5.04 | 166 | 0.507 | 0.507 | 0.72 | 1.445 | 0.465 | 942.76 | 3.868 | 2.298E+05 | 2.298E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 0.97 | 0.00 | | |
| 56.38 | 125.17 | 3.6920 | 58.80 | 1.95 | 3.32% | 3.539 | 0.81 | 24.55 | 2.68 | 3.87 | 128 | 0.274 | 0.274 | 0.72 | 1.447 | 0.465 | 945.38 | 3.887 | 2.299E+05 | 2.299E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 0.97 | 0.00 | | |
| 56.47 | 126.01 | 3.6976 | 76.87 | 2.00 | 2.60% | 2.733 | 0.76 | 32.55 | 2.50 | 2.79 | 109 | 0.201 | 0.212 | 0.72 | 1.450 | 0.464 | 949.67 | 3.913 | 2.305E+05 | 2.305E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 0.46 | **0.64** | <= | 2.15 | 0.022 | 0.00 | 0.97 | 0.00 | 56.38 | 56.47 |
| 56.51 | 126.14 | 3.7002 | 80.77 | 2.00 | 2.48% | 2.595 | 0.75 | 34.27 | 2.47 | 2.62 | 109 | 0.200 | 0.206 | 0.72 | 1.451 | 0.464 | 949.67 | 3.917 | 2.302E+05 | 2.302E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 0.45 | **0.62** | <= | 2.15 | 0.010 | 0.00 | 0.94 | 0.00 | 56.47 | 56.51 |
| 56.60 | 126.30 | 3.7058 | 82.04 | 2.04 | 2.49% | 2.604 | 0.75 | 34.79 | 2.46 | 2.60 | 110 | 0.203 | 0.203 | 0.72 | 1.454 | 0.464 | 953.02 | 3.922 | 2.316E+05 | 2.316E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 0.44 | **0.61** | <= | 2.14 | 0.022 | 0.00 | 0.93 | 0.00 | 56.51 | 56.60 |
| 56.69 | 126.76 | 3.7116 | 80.48 | 2.18 | 2.71% | 2.840 | 0.76 | 34.05 | 2.50 | 2.76 | 114 | 0.216 | 0.216 | 0.71 | 1.457 | 0.463 | 964.25 | 3.937 | 2.362E+05 | 2.362E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 0.47 | **0.65** | <= | 2.08 | 0.022 | 0.00 | 0.91 | 0.00 | 56.60 | 56.69 |
| 56.71 | 126.76 | 3.7128 | 78.23 | 2.20 | 2.81% | 2.952 | 0.76 | 33.04 | 2.52 | 2.88 | 114 | 0.219 | 0.225 | 0.71 | 1.457 | 0.463 | 965.79 | 3.937 | 2.369E+05 | 2.369E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 0.49 | **0.68** | <= | 2.07 | 0.005 | 0.00 | 0.89 | 0.00 | 56.69 | 56.71 |
| 56.79 | 126.86 | 3.7179 | 71.79 | 2.29 | 3.19% | 3.364 | 0.79 | 30.15 | 2.59 | 3.30 | 117 | 0.230 | 0.230 | 0.71 | 1.460 | 0.463 | 972.57 | 3.940 | 2.401E+05 | 2.401E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 0.50 | **0.69** | <= | 2.03 | 0.019 | 0.00 | 0.88 | 0.00 | 56.71 | 56.79 |
| 56.83 | 126.76 | 3.7204 | 70.91 | 2.28 | 3.22% | 3.393 | 0.79 | 29.74 | 2.60 | 3.34 | 117 | 0.229 | 0.229 | 0.71 | 1.461 | 0.463 | 971.83 | 3.937 | 2.399E+05 | 2.399E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 0.86 | 0.00 | | |
| 56.92 | 126.14 | 3.7261 | 85.95 | 1.96 | 2.28% | 2.384 | 0.73 | 36.35 | 2.42 | 2.40 | 107 | 0.195 | 0.195 | 0.71 | 1.464 | 0.463 | 946.25 | 3.917 | 2.286E+05 | 2.286E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 0.43 | **0.59** | <= | 2.18 | 0.023 | 0.00 | 0.86 | 0.00 | 56.83 | 56.92 |
| 56.96 | 125.35 | 3.7286 | 91.71 | 1.72 | 1.88% | 1.955 | 0.71 | 38.87 | 2.34 | 2.07 | 101 | 0.176 | 0.171 | 0.71 | 1.465 | 0.462 | 924.15 | 3.893 | 2.194E+05 | 2.194E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 0.37 | **0.51** | <= | 2.29 | 0.011 | 0.00 | 0.84 | 0.00 | 56.92 | 56.96 |
| 57.03 | 124.82 | 3.7330 | 101.09 | 1.55 | 1.53% | 1.592 | 0.68 | 42.97 | 2.24 | 1.77 | 97 | 0.166 | 0.288 | 0.71 | 1.467 | 0.462 | 906.55 | 3.876 | 2.120E+05 | 2.120E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 0.63 | **0.87** | <= | 2.11 | 0.018 | 0.00 | 0.83 | 0.00 | 56.96 | 57.03 |
| 57.10 | 125.96 | 3.7374 | 103.24 | 1.80 | 1.74% | 1.809 | 0.69 | 43.87 | 2.27 | 1.85 | 104 | 0.184 | 0.167 | 0.71 | 1.470 | 0.462 | 931.84 | 3.912 | 2.220E+05 | 2.220E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 0.37 | **0.50** | <= | 2.24 | 0.018 | 0.00 | 0.81 | 0.00 | 57.03 | 57.10 |
| 57.16 | 124.52 | 3.7411 | 99.33 | 1.50 | 1.51% | 1.569 | 0.68 | 42.11 | 2.24 | 1.77 | 96 | 0.162 | 0.294 | 0.71 | 1.471 | 0.462 | 901.00 | 3.867 | 2.099E+05 | 2.099E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 0.64 | **0.88** | <= | 2.39 | 0.017 | 0.00 | 0.80 | 0.00 | 57.10 | 57.16 |
| 57.23 | 126.07 | 3.7455 | 86.24 | 1.94 | 2.25% | 2.352 | 0.73 | 36.31 | 2.42 | 2.38 | 107 | 0.193 | 0.188 | 0.71 | 1.474 | 0.461 | 944.51 | 3.915 | 2.279E+05 | 2.279E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 0.41 | **0.57** | <= | 2.19 | 0.018 | 0.00 | 0.78 | 0.00 | 57.16 | 57.23 |
| 57.29 | 126.36 | 3.7493 | 72.08 | 2.14 | 2.97% | 3.132 | 0.78 | 30.05 | 2.57 | 3.17 | 113 | 0.214 | 0.227 | 0.71 | 1.475 | 0.461 | 961.11 | 3.924 | 2.354E+05 | 2.354E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 0.50 | **0.68** | <= | 2.09 | 0.014 | 0.00 | 0.76 | 0.00 | 57.23 | 57.29 |
| 57.36 | 125.67 | 3.7537 | 61.43 | 2.05 | 3.34% | 3.554 | 0.81 | 25.34 | 2.67 | 3.80 | 125 | 0.263 | 0.263 | 0.71 | 1.478 | 0.461 | 953.84 | 3.903 | 2.331E+05 | 2.331E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 0.75 | 0.00 | | |
| 57.46 | 125.92 | 3.7600 | 72.37 | 2.01 | 2.78% | 2.930 | 0.77 | 30.10 | 2.55 | 3.04 | 109 | 0.202 | 0.219 | 0.71 | 1.481 | 0.460 | 950.51 | 3.911 | 2.310E+05 | 2.310E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 0.48 | **0.66** | <= | 2.15 | 0.025 | 0.00 | 0.75 | 0.00 | 57.36 | 57.46 |
| 57.50 | 125.25 | 3.7625 | 54.69 | 2.02 | 3.69% | 3.966 | 0.83 | 22.33 | 2.75 | 4.38 | 145 | 0.361 | 0.361 | 0.71 | 1.482 | 0.460 | 951.35 | 3.890 | 2.327E+05 | 2.327E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 0.72 | 0.00 | | |
| 57.56 | 126.34 | 3.7663 | 72.67 | 2.13 | 2.93% | 3.091 | 0.78 | 30.19 | 2.57 | 3.13 | 113 | 0.212 | 0.225 | 0.71 | 1.484 | 0.460 | 960.32 | 3.924 | 2.350E+05 | 2.350E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 0.50 | **0.68** | <= | 2.10 | 0.014 | 0.00 | 0.72 | 0.00 | 57.50 | 57.56 |
| 57.63 | 128.10 | 3.7708 | 115.35 | 2.32 | 2.01% | 2.079 | 0.69 | 48.84 | 2.27 | 1.87 | 116 | 0.227 | 0.163 | 0.71 | 1.486 | 0.460 | 974.77 | 3.978 | 2.388E+05 | 2.388E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 0.36 | **0.49** | <= | 2.04 | 0.016 | 0.00 | 0.71 | 0.00 | 57.56 | 57.63 |
| 57.68 | 128.79 | 3.7740 | 140.64 | 2.39 | 1.70% | 1.746 | 0.65 | 59.86 | 2.15 | 1.55 | 122 | 0.249 | 0.249 | 0.71 | 1.488 | 0.460 | 979.80 | 4.000 | 2.400E+05 | 2.400E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 0.55 | **0.75** | <= | 1.97 | 0.011 | 0.00 | 0.69 | 0.00 | 57.63 | 57.68 |
| 57.77 | 129.53 | 3.7798 | 171.12 | 2.48 | 1.45% | 1.482 | 0.62 | 73.09 | 2.03 | 1.34 | 132 | 0.295 | 0.295 | 0.71 | 1.490 | 0.459 | 986.06 | 4.023 | 2.417E+05 | 2.417E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 0.65 | **0.89** | <= | 1.33 | 0.009 | 0.00 | 0.68 | 0.00 | 57.68 | 57.77 |
| 57.83 | 130.08 | 3.7838 | 215.56 | 2.47 | 1.15% | 1.166 | 0.57 | 92.42 | 1.87 | 1.16 | 151 | 0.400 | 0.400 | 0.71 | 1.492 | 0.459 | 985.37 | 4.040 | 2.404E+05 | 2.404E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 0.88 | **1.21** | <= | 0.22 | 0.000 | 0.00 | 0.67 | 0.00 | 57.77 | 57.83 |
| 57.88 | 130.23 | 3.7870 | 233.23 | 2.46 | 1.05% | 1.072 | 0.55 | 100.06 | 1.82 | 1.12 | 159 | 0.456 | 0.456 | 0.71 | 1.494 | 0.459 | 984.69 | 4.044 | 2.397E+05 | 2.397E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.01 | **1.38** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 57.96 | 130.61 | 3.7922 | 251.21 | 2.53 | 1.01% | 1.023 | 0.54 | 107.77 | 1.77 | 1.09 | 169 | 0.527 | 0.527 | 0.70 | 1.496 | 0.458 | 989.43 | 4.056 | 2.414E+05 | 2.414E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.16 | **1.60** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.01 | 130.85 | 3.7955 | 255.99 | 2.59 | 1.01% | 1.027 | 0.54 | 109.76 | 1.77 | 1.09 | 172 | 0.550 | 0.550 | 0.70 | 1.498 | 0.458 | 993.40 | 4.064 | 2.428E+05 | 2.428E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.21 | **1.67** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.09 | 131.53 | 3.8008 | 268.00 | 2.80 | 1.04% | 1.060 | 0.54 | 114.85 | 1.76 | 1.08 | 179 | 0.617 | 0.617 | 0.70 | 1.500 | 0.458 | 1006.59 | 4.085 | 2.480E+05 | 2.480E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.36 | **1.87** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.14 | 131.91 | 3.8041 | 275.43 | 2.92 | 1.06% | 1.075 | 0.54 | 117.99 | 1.76 | 1.08 | 184 | 0.659 | 0.659 | 0.70 | 1.502 | 0.458 | 1013.68 | 4.097 | 2.508E+05 | 2.508E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.46 | **2.00** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.23 | 132.69 | 3.8100 | 286.85 | 3.21 | 1.12% | 1.134 | 0.54 | 122.78 | 1.77 | 1.08 | 192 | 0.738 | 0.738 | 0.70 | 1.505 | 0.457 | 1029.70 | 4.121 | 2.573E+05 | 2.573E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.63 | **2.24** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.27 | 133.01 | 3.8127 | 291.05 | 3.34 | 1.15% | 1.163 | 0.54 | 124.52 | 1.77 | 1.08 | 195 | 0.770 | 0.770 | 0.70 | 1.506 | 0.457 | 1036.42 | 4.131 | 2.600E+05 | 2.600E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.70 | **2.34** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.36 | 133.80 | 3.8187 | 305.90 | 3.66 | 1.20% | 1.212 | 0.54 | 130.78 | 1.77 | 1.08 | 205 | 0.879 | 0.879 | 0.70 | 1.509 | 0.457 | 1051.89 | 4.155 | 2.663E+05 | 2.663E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.95 | **2.68** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.41 | 134.05 | 3.8221 | 317.72 | 3.73 | 1.17% | 1.188 | 0.53 | 135.79 | 1.75 | 1.07 | 211 | 0.956 | 0.956 | 0.70 | 1.510 | 0.456 | 1055.10 | 4.163 | 2.674E+05 | 2.674E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 2.12 | **2.91** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.48 | 134.25 | 3.8268 | 331.10 | 3.79 | 1.14% | 1.158 | 0.53 | 141.42 | 1.73 | 1.06 | 211 | 0.956 | 0.956 | 0.70 | 1.513 | 0.456 | 1057.80 | 4.169 | 2.684E+05 | 2.684E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 2.12 | **2.91** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.55 | 134.36 | 3.8315 | 346.82 | 3.78 | 1.09% | 1.102 | 0.52 | 148.05 | 1.70 | 1.03 | 207 | 0.904 | 0.904 | 0.70 | 1.515 | 0.456 | 1057.35 | 4.173 | 2.679E+05 | 2.679E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 2.00 | **2.76** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.63 | 134.28 | 3.8368 | 352.68 | 3.72 | 1.05% | 1.066 | 0.51 | 150.39 | 1.68 | 1.02 | 205 | 0.877 | 0.877 | 0.70 | 1.517 | 0.455 | 1054.64 | 4.170 | 2.667E+05 | 2.667E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 1.95 | **2.68** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.68 | 134.14 | 3.8402 | 354.83 | 3.65 | 1.03% | 1.040 | 0.51 | 151.20 | 1.67 | 1.02 | 203 | 0.860 | 0.860 | 0.70 | 1.519 | 0.455 | 1051.43 | 4.166 | 2.654E+05 | 2.654E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.91 | **2.63** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.73 | 133.97 | 3.8435 | 354.44 | 3.56 | 1.00% | 1.015 | 0.51 | 150.91 | 1.66 | 1.01 | 202 | 0.848 | 0.848 | 0.70 | 1.520 | 0.455 | 1047.21 | 4.161 | 2.636E+05 | 2.636E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.81 | 133.73 | 3.8489 | 354.54 | 3.45 | 0.97% | 0.984 | 0.50 | 150.77 | 1.65 | 1.00 | 201 | 0.831 | 0.831 | 0.70 | 1.523 | 0.455 | 1041.90 | 4.153 | 2.614E+05 | 2.614E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.85 | **2.54** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.89 | 133.33 | 3.8542 | 362.45 | 3.24 | 0.89% | 0.904 | 0.50 | 153.98 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.525 | 0.454 | 1031.28 | 4.141 | 2.568E+05 | 2.568E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.83 | **2.52** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 58.97 | 132.99 | 3.8595 | 376.32 | 3.05 | 0.81% | 0.819 | 0.50 | 159.74 | 1.57 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.528 | 0.454 | 1021.05 | 4.130 | 2.524E+05 | 2.524E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 1.83 | **2.52** | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

TEST LOCATION: **CPT-2**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

Project No.: 7109.23

Groundwater Level: 10 feet

D (ft): 1

Magnitude: 6.62

Accleration: 0.606 g's

Magnitude Scaling Factor: 1.38

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2

Discrete Column Spacing (ft): 8.0

Unit Tributary Area, A ($ft^2$): 45.83

Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

Discrete Coumn Dia. (ft): 3.0

Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07

$A_R = A_{sc}/A$: 0.154

Assumed Discrete Column Density (pcf): 130.00

Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | $\rho$ (lb-sec$^2$)/ft$^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.02 | 132.83 | 3.8629 | 384.82 | 2.97 | 0.77% | 0.780 | 0.50 | 163.26 | 1.55 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.529 | 0.454 | 1016.56 | 4.125 | 2.505E+05 | 2.505E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.07 | 132.77 | 3.8662 | 388.63 | 2.93 | 0.75% | 0.762 | 0.50 | 164.77 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.531 | 0.454 | 1014.26 | 4.123 | 2.495E+05 | 2.495E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.16 | 132.80 | 3.8722 | 390.38 | 2.94 | 0.75% | 0.761 | 0.50 | 165.29 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.534 | 0.453 | 1014.84 | 4.124 | 2.497E+05 | 2.497E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.21 | 132.82 | 3.8755 | 391.36 | 2.95 | 0.75% | 0.761 | 0.50 | 165.58 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.535 | 0.453 | 1015.41 | 4.125 | 2.500E+05 | 2.500E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.26 | 132.85 | 3.8788 | 391.75 | 2.96 | 0.76% | 0.763 | 0.50 | 165.62 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.537 | 0.453 | 1015.99 | 4.126 | 2.502E+05 | 2.502E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.33 | 133.03 | 3.8835 | 390.97 | 3.03 | 0.77% | 0.783 | 0.50 | 165.11 | 1.55 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.539 | 0.452 | 1019.94 | 4.131 | 2.518E+05 | 2.518E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.39 | 133.16 | 3.8875 | 386.77 | 3.10 | 0.80% | 0.810 | 0.50 | 163.17 | 1.56 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.541 | 0.452 | 1023.80 | 4.135 | 2.535E+05 | 2.535E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.47 | 133.43 | 3.8928 | 376.03 | 3.24 | 0.86% | 0.871 | 0.50 | 158.40 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.543 | 0.452 | 1031.28 | 4.144 | 2.567E+05 | 2.567E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 1.84 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.52 | 133.55 | 3.8961 | 374.27 | 3.30 | 0.88% | 0.891 | 0.50 | 157.53 | 1.60 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.545 | 0.452 | 1034.38 | 4.148 | 2.580E+05 | 2.580E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 1.84 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.60 | 133.54 | 3.9015 | 367.24 | 3.32 | 0.90% | 0.914 | 0.50 | 154.35 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.548 | 0.451 | 1035.40 | 4.147 | 2.585E+05 | 2.585E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 1.85 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.66 | 133.48 | 3.9055 | 367.92 | 3.29 | 0.89% | 0.904 | 0.50 | 154.50 | 1.61 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.549 | 0.451 | 1033.87 | 4.145 | 2.579E+05 | 2.579E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 1.85 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.74 | 132.53 | 3.9108 | 368.80 | 2.89 | 0.78% | 0.792 | 0.50 | 154.69 | 1.57 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.552 | 0.451 | 1011.94 | 4.116 | 2.488E+05 | 2.488E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 1.85 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.79 | 131.45 | 3.9141 | 370.85 | 2.49 | 0.67% | 0.679 | 0.50 | 155.44 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.553 | 0.450 | 986.74 | 4.082 | 2.385E+05 | 2.385E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 1.85 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.87 | 131.42 | 3.9193 | 374.17 | 2.47 | 0.66% | 0.667 | 0.50 | 156.66 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.556 | 0.450 | 985.37 | 4.081 | 2.379E+05 | 2.379E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 1.85 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 59.91 | 131.41 | 3.9219 | 373.19 | 2.47 | 0.66% | 0.669 | 0.50 | 156.16 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.557 | 0.450 | 985.37 | 4.081 | 2.379E+05 | 2.379E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 1.85 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.01 | 131.52 | 3.9285 | 371.83 | 2.51 | 0.68% | 0.682 | 0.50 | 155.35 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.560 | 0.450 | 988.09 | 4.084 | 2.390E+05 | 2.390E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 1.85 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.05 | 131.21 | 3.9311 | 337.06 | 2.48 | 0.74% | 0.744 | 0.50 | 140.59 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.562 | 0.449 | 986.06 | 4.075 | 2.386E+05 | 2.386E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 1.85 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.14 | 131.47 | 3.9371 | 359.62 | 2.52 | 0.70% | 0.708 | 0.50 | 149.91 | 1.55 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.564 | 0.449 | 988.76 | 4.083 | 2.394E+05 | 2.394E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 1.86 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.19 | 131.76 | 3.9404 | 359.13 | 2.62 | 0.73% | 0.738 | 0.50 | 149.59 | 1.56 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.566 | 0.449 | 995.35 | 4.092 | 2.421E+05 | 2.421E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 1.86 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.26 | 132.22 | 3.9450 | 357.66 | 2.80 | 0.78% | 0.792 | 0.50 | 148.82 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.568 | 0.448 | 1006.59 | 4.106 | 2.468E+05 | 2.468E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.32 | 132.47 | 3.9490 | 358.15 | 2.89 | 0.81% | 0.816 | 0.50 | 148.89 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.570 | 0.448 | 1011.94 | 4.114 | 2.489E+05 | 2.489E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.37 | 132.67 | 3.9523 | 360.30 | 2.96 | 0.82% | 0.831 | 0.50 | 149.68 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.572 | 0.448 | 1015.99 | 4.120 | 2.505E+05 | 2.505E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.45 | 132.81 | 3.9576 | 364.21 | 3.01 | 0.83% | 0.836 | 0.50 | 151.14 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.574 | 0.448 | 1018.82 | 4.125 | 2.517E+05 | 2.517E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.57 | 132.97 | 3.9656 | 373.19 | 3.05 | 0.82% | 0.826 | 0.50 | 154.63 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.578 | 0.447 | 1021.05 | 4.130 | 2.525E+05 | 2.525E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.59 | 133.00 | 3.9669 | 372.90 | 3.07 | 0.82% | 0.832 | 0.50 | 154.46 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.578 | 0.447 | 1022.16 | 4.130 | 2.530E+05 | 2.530E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.63 | 133.06 | 3.9696 | 371.73 | 3.10 | 0.83% | 0.843 | 0.50 | 153.88 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.580 | 0.447 | 1023.80 | 4.132 | 2.537E+05 | 2.537E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.72 | 133.05 | 3.9755 | 368.70 | 3.10 | 0.84% | 0.850 | 0.50 | 152.41 | 1.60 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.582 | 0.446 | 1023.80 | 4.132 | 2.537E+05 | 2.537E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 1.87 | 2.57 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.77 | 132.93 | 3.9789 | 367.14 | 3.05 | 0.83% | 0.840 | 0.50 | 151.64 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.584 | 0.446 | 1021.05 | 4.128 | 2.525E+05 | 2.525E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 1.87 | 2.57 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.85 | 132.51 | 3.9842 | 355.81 | 2.91 | 0.82% | 0.827 | 0.50 | 146.74 | 1.60 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.587 | 0.446 | 1013.10 | 4.115 | 2.494E+05 | 2.494E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 1.87 | 2.57 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.89 | 132.25 | 3.9868 | 351.02 | 2.82 | 0.80% | 0.813 | 0.50 | 144.65 | 1.60 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.588 | 0.446 | 1007.79 | 4.107 | 2.473E+05 | 2.473E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 1.87 | 2.57 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 60.98 | 131.46 | 3.9927 | 334.52 | 2.58 | 0.77% | 0.781 | 0.50 | 137.60 | 1.60 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.591 | 0.445 | 992.74 | 4.083 | 2.414E+05 | 2.414E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 1.87 | 2.57 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.04 | 131.07 | 3.9967 | 324.46 | 2.47 | 0.76% | 0.771 | 0.50 | 133.29 | 1.61 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.592 | 0.445 | 985.37 | 4.070 | 2.385E+05 | 2.385E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 1.87 | 2.58 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.12 | 130.53 | 4.0019 | 315.18 | 2.32 | 0.74% | 0.746 | 0.50 | 129.28 | 1.61 | 1.00 | 197 | 0.788 | 0.788 | 0.68 | 1.595 | 0.445 | 974.77 | 4.054 | 2.344E+05 | 2.344E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.16 | 130.32 | 4.0045 | 310.78 | 2.26 | 0.73% | 0.737 | 0.50 | 127.38 | 1.61 | 1.00 | 194 | 0.757 | 0.757 | 0.68 | 1.596 | 0.444 | 970.34 | 4.047 | 2.326E+05 | 2.326E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 1.72 | 2.37 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.24 | 129.81 | 4.0097 | 302.68 | 2.13 | 0.70% | 0.713 | 0.50 | 123.88 | 1.61 | 1.00 | 189 | 0.704 | 0.704 | 0.68 | 1.599 | 0.444 | 960.32 | 4.031 | 2.288E+05 | 2.288E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | | 1.60 | 2.20 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.30 | 129.33 | 4.0136 | 298.67 | 2.00 | 0.67% | 0.679 | 0.50 | 122.11 | 1.60 | 1.00 | 186 | 0.678 | 0.678 | 0.68 | 1.601 | 0.444 | 949.67 | 4.016 | 2.245E+05 | 2.245E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | | 1.54 | 2.13 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.38 | 128.84 | 4.0187 | 295.74 | 1.88 | 0.64% | 0.644 | 0.50 | 120.76 | 1.58 | 1.00 | 184 | 0.660 | 0.660 | 0.68 | 1.603 | 0.444 | 939.20 | 4.001 | 2.205E+05 | 2.205E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | | 1.50 | 2.07 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.44 | 128.64 | 4.0226 | 296.62 | 1.83 | 0.62% | 0.625 | 0.50 | 121.03 | 1.58 | 1.00 | 185 | 0.664 | 0.664 | 0.68 | 1.605 | 0.443 | 934.64 | 3.995 | 2.187E+05 | 2.187E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | | 1.51 | 2.08 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.52 | 128.65 | 4.0277 | 299.75 | 1.82 | 0.61% | 0.615 | 0.50 | 122.18 | 1.57 | 1.00 | 186 | 0.682 | 0.682 | 0.68 | 1.607 | 0.443 | 933.71 | 3.995 | 2.182E+05 | 2.182E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | | 1.56 | 2.14 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.59 | 126.53 | 4.0321 | 304.24 | 1.36 | 0.45% | 0.453 | 0.50 | 123.92 | 1.48 | 1.00 | 189 | 0.709 | 0.709 | 0.68 | 1.610 | 0.443 | 884.43 | 3.930 | 1.991E+05 | 1.991E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | | 1.62 | 2.23 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.62 | 126.16 | 4.0340 | 307.85 | 1.29 | 0.42% | 0.425 | 0.50 | 125.36 | 1.46 | 1.00 | 191 | 0.732 | 0.732 | 0.67 | 1.611 | 0.442 | 875.49 | 3.918 | 1.956E+05 | 1.956E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | | 1.67 | 2.30 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.74 | 126.59 | 4.0416 | 317.72 | 1.35 | 0.42% | 0.430 | 0.50 | 129.23 | 1.45 | 1.00 | 197 | 0.796 | 0.796 | 0.67 | 1.614 | 0.442 | 883.18 | 3.931 | 1.984E+05 | 1.984E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 1.82 | 2.50 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.78 | 126.85 | 4.0442 | 318.30 | 1.40 | 0.44% | 0.445 | 0.50 | 129.40 | 1.46 | 1.00 | 198 | 0.799 | 0.799 | 0.67 | 1.616 | 0.442 | 889.33 | 3.939 | 2.008E+05 | 2.008E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 1.83 | 2.51 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.82 | 127.13 | 4.0467 | 318.89 | 1.45 | 0.45% | 0.461 | 0.50 | 129.57 | 1.47 | 1.00 | 198 | 0.802 | 0.802 | 0.67 | 1.617 | 0.442 | 895.27 | 3.948 | 2.030E+05 | 2.030E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.90 | 127.34 | 4.0518 | 314.79 | 1.50 | 0.48% | 0.483 | 0.50 | 127.74 | 1.49 | 1.00 | 195 | 0.773 | 0.773 | 0.67 | 1.619 | 0.441 | 901.00 | 3.955 | 2.053E+05 | 2.053E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 1.77 | 2.44 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 61.96 | 127.28 | 4.0556 | 313.66 | 1.49 | 0.48% | 0.481 | 0.50 | 127.18 | 1.49 | 1.00 | 195 | 0.765 | 0.765 | 0.67 | 1.621 | 0.441 | 899.87 | 3.953 | 2.049E+05 | 2.049E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 1.75 | 2.41 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.02 | 127.54 | 4.0595 | 314.93 | 1.54 | 0.49% | 0.495 | 0.50 | 127.59 | 1.49 | 1.00 | 195 | 0.773 | 0.773 | 0.67 | 1.623 | 0.441 | 905.45 | 3.961 | 2.070E+05 | 2.070E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 1.77 | 2.44 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.09 | 128.01 | 4.0639 | 312.54 | 1.64 | 0.52% | 0.532 | 0.50 | 126.49 | 1.51 | 1.00 | 194 | 0.756 | 0.756 | 0.67 | 1.625 | 0.440 | 916.10 | 3.975 | 2.111E+05 | 2.111E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 1.73 | 2.39 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.16 | 128.69 | 4.0684 | 315.08 | 1.80 | 0.57% | 0.579 | 0.50 | 127.41 | 1.54 | 1.00 | 195 | 0.772 | 0.772 | 0.67 | 1.627 | 0.440 | 931.84 | 3.997 | 2.173E+05 | 2.173E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 1.77 | 2.44 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.22 | 129.06 | 4.0723 | 319.18 | 1.89 | 0.59% | 0.600 | 0.50 | 128.98 | 1.54 | 1.00 | 198 | 0.798 | 0.798 | 0.67 | 1.629 | 0.440 | 940.10 | 4.008 | 2.205E+05 | 2.205E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 1.83 | 2.52 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.31 | 129.35 | 4.0781 | 320.26 | 1.96 | 0.61% | 0.620 | 0.50 | 129.26 | 1.55 | 1.00 | 198 | 0.805 | 0.805 | 0.67 | 1.632 | 0.440 | 946.25 | 4.017 | 2.229E+05 | 2.229E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 1.85 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.36 | 129.35 | 4.0814 | 320.55 | 1.96 | 0.61% | 0.619 | 0.50 | 129.29 | 1.55 | 1.00 | 198 | 0.806 | 0.806 | 0.67 | 1.634 | 0.439 | 946.25 | 4.017 | 2.229E+05 | 2.229E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 1.85 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.44 | 129.42 | 4.0865 | 318.50 | 1.98 | 0.62% | 0.630 | 0.50 | 128.31 | 1.56 | 1.00 | 197 | 0.791 | 0.791 | 0.67 | 1.636 | 0.439 | 947.97 | 4.019 | 2.236E+05 | 2.236E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 1.82 | 2.50 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.49 | 129.58 | 4.0898 | 314.20 | 2.03 | 0.65% | 0.655 | 0.50 | 126.47 | 1.57 | 1.00 | 194 | 0.761 | 0.761 | 0.67 | 1.638 | 0.439 | 952.19 | 4.024 | 2.253E+05 | 2.253E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 1.75 | 2.41 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.55 | 130.31 | 4.0937 | 307.46 | 2.26 | 0.74% | 0.745 | 0.50 | 123.61 | 1.62 | 1.00 | 190 | 0.717 | 0.717 | 0.67 | 1.640 | 0.438 | 970.34 | 4.047 | 2.327E+05 | 2.327E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 1.65 | 2.27 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.61 | 130.32 | 4.0976 | 298.09 | 2.29 | 0.77% | 0.779 | 0.50 | 119.70 | 1.64 | 1.00 | 184 | 0.659 | 0.659 | 0.67 | 1.641 | 0.438 | 972.57 | 4.047 | 2.337E+05 | 2.337E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 1.52 | 2.09 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.67 | 130.12 | 4.1015 | 284.32 | 2.27 | 0.80% | 0.810 | 0.51 | 113.99 | 1.67 | 1.02 | 177 | 0.594 | 0.594 | 0.67 | 1.643 | 0.438 | 971.09 | 4.041 | 2.334E+05 | 2.334E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 1.37 | 1.89 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.75 | 129.58 | 4.1067 | 258.82 | 2.17 | 0.84% | 0.852 | 0.52 | 103.50 | 1.72 | 1.05 | 164 | 0.489 | 0.489 | 0.67 | 1.646 | 0.438 | 963.47 | 4.024 | 2.307E+05 | 2.307E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 1.13 | 1.55 | | 0.00 | 0.000 | 0.00 | 0.67 | 0.00 | | |
| 62.84 | 128.62 | 4.1125 | 212.14 | 2.03 | 0.96% | 0.976 | 0.56 | 84.43 | 1.83 | 1.13 | 140 | 0.335 | 0.335 | 0.66 | 1.649 | 0.437 | 952.19 | 3.994 | 2.270E+05 | 2.270E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.77 | 1.06 | <= | 0.57 | 0.000 | 0.00 | 0.67 | 0.00 | 62.75 | 62.84 |
| 62.89 | 127.86 | 4.1157 | 177.76 | 1.95 | 1.10% | 1.123 | 0.59 | 70.43 | 1.94 | 1.23 | 123 | 0.255 | 0.255 | 0.66 | 1.650 | 0.437 | 945.38 | 3.971 | 2.251E+05 | 2.251E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.59 | 0.81 | <= | 1.17 | 0.005 | 0.00 | 0.67 | 0.00 | 62.84 | 62.89 |
| 62.93 | 127.49 | 4.1182 | 169.46 | 1.88 | 1.11% | 1.137 | 0.60 | 67.03 | 1.96 | 1.26 | 119 | 0.237 | 0.237 | 0.66 | 1.651 | 0.437 | 939.20 | 3.959 | 2.228E+05 | 2.228E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.55 | 0.76 | <= | 1.81 | 0.006 | 0.00 | 0.67 | 0.00 | 62.89 | 62.93 |
| 63.02 | 127.37 | 4.1240 | 147.29 | 1.94 | 1.32% | 1.355 | 0.63 | 57.97 | 2.07 | 1.40 | 112 | 0.211 | 0.214 | 0.66 | 1.654 | 0.436 | 944.51 | 3.956 | 2.255E+05 | 2.255E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.50 | 0.68 | <= | 2.10 | 0.018 | 0.00 | 0.66 | 0.00 | 62.93 | 63.02 |
| 63.06 | 127.03 | 4.1265 | 140.84 | 1.88 | 1.33% | 1.375 | 0.64 | 55.33 | 2.09 | 1.44 | 109 | 0.201 | 0.222 | 0.66 | 1.655 | 0.436 | 939.20 | 3.945 | 2.236E+05 | 2.236E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.52 | 0.71 | <= | 2.15 | 0.007 | 0.00 | 0.64 | 0.00 | 63.02 | 63.06 |
| 63.13 | 127.16 | 4.1309 | 133.42 | 1.95 | 1.46% | 1.508 | 0.65 | 52.27 | 2.14 | 1.53 | 108 | 0.199 | 0.237 | 0.66 | 1.658 | 0.436 | 945.38 | 3.949 | 2.263E+05 | 2.263E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.55 | 0.76 | <= | 2.16 | 0.013 | 0.00 | 0.63 | 0.00 | 63.06 | 63.13 |
| 63.24 | 125.09 | 4.1378 | 132.64 | 1.47 | 1.11% | 1.144 | 0.63 | 51.88 | 2.06 | 1.38 | 99 | 0.171 | 0.244 | 0.66 | 1.661 | 0.435 | 897.59 | 3.885 | 2.074E+05 | 2.074E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.57 | 0.78 | <= | 2.32 | 0.027 | 0.00 | 0.62 | 0.00 | 63.13 | 63.24 |
| 63.29 | 124.74 | 4.1409 | 135.86 | 1.39 | 1.02% | 1.055 | 0.62 | 53.15 | 2.03 | 1.34 | 99 | 0.170 | 0.243 | 0.66 | 1.663 | 0.435 | 888.12 | 3.874 | 2.036E+05 | 2.036E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.56 | 0.78 | <= | 2.32 | 0.012 | 0.00 | 0.59 | 0.00 | 63.24 | 63.29 |
| 63.37 | 125.24 | 4.1460 | 149.24 | 1.44 | 0.96% | 0.992 | 0.60 | 58.49 | 1.97 | 1.26 | 105 | 0.187 | 0.224 | 0.66 | 1.665 | 0.435 | 894.10 | 3.889 | 2.055E+05 | 2.055E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.52 | 0.72 | <= | 1.96 | 0.019 | 0.00 | 0.58 | 0.00 | 63.29 | 63.37 |
| 63.39 | 125.37 | 4.1472 | 155.10 | 1.45 | 0.93% | 0.961 | 0.59 | 60.83 | 1.95 | 1.24 | 107 | 0.195 | 0.217 | 0.66 | 1.666 | 0.435 | 895.27 | 3.893 | 2.059E+05 | 2.059E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.50 | 0.69 | <= | 2.18 | 0.004 | 0.00 | 0.56 | 0.00 | 63.37 | 63.39 |
| 63.47 | 125.57 | 4.1522 | 164.96 | 1.46 | 0.89% | 0.908 | 0.58 | 64.74 | 1.91 | 1.20 | 112 | 0.209 | 0.215 | 0.66 | 1.668 | 0.435 | 896.43 | 3.900 | 2.061E+05 | 2.061E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.50 | 0.69 | <= | 2.11 | 0.016 | 0.00 | 0.56 | 0.00 | 63.39 | 63.47 |
| 63.53 | 127.26 | 4.1560 | 175.41 | 1.80 | 1.03% | 1.051 | 0.59 | 68.89 | 1.93 | 1.22 | 120 | 0.241 | 0.241 | 0.66 | 1.670 | 0.434 | 931.84 | 3.952 | 2.197E+05 | 2.197E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.56 | 0.77 | <= | 1.87 | 0.005 | 0.00 | 0.54 | 0.00 | 63.47 | 63.53 |
| 63.60 | 130.07 | 4.1606 | 190.94 | 2.57 | 1.35% | 1.376 | 0.60 | 75.06 | 1.98 | 1.28 | 136 | 0.312 | 0.312 | 0.66 | 1.672 | 0.434 | 992.09 | 4.039 | 2.437E+05 | 2.437E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.73 | 1.00 | <= | 0.45 | 0.002 | 0.00 | 0.54 | 0.00 | 63.53 | 63.60 |
| 63.66 | 130.50 | 4.1645 | 202.86 | 2.67 | 1.32% | 1.344 | 0.59 | 79.79 | 1.95 | 1.24 | 141 | 0.343 | 0.343 | 0.66 | 1.674 | 0.434 | 998.54 | 4.053 | 2.460E+05 | 2.460E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.80 | 1.10 | <= | 0.31 | 0.000 | 0.00 | 0.54 | 0.00 | 63.60 | 63.66 |
| 63.73 | 130.94 | 4.1691 | 226.40 | 2.73 | 1.21% | 1.228 | 0.57 | 89.15 | 1.89 | 1.18 | 152 | 0.408 | 0.408 | 0.66 | 1.676 | 0.433 | 1002.30 | 4.066 | 2.470E+05 | 2.470E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.95 | 1.31 | | 0.00 | 0.000 | 0.00 | 0.54 | 0.00 | | |
| 63.80 | 130.92 | 4.1737 | 225.23 | 2.73 | 1.21% | 1.235 | 0.58 | 88.60 | 1.89 | 1.18 | 152 | 0.404 | 0.404 | 0.66 | 1.679 | 0.433 | 1002.30 | 4.066 | 2.471E+05 | 2.471E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.94 | 1.30 | <= | 0.30 | 0.000 | 0.00 | 0.54 | 0.00 | 63.73 | 63.80 |
| 63.85 | 130.45 | 4.1769 | 215.46 | 2.60 | 1.21% | 1.231 | 0.58 | 84.62 | 1.90 | 1.19 | 146 | 0.369 | 0.369 | 0.66 | 1.680 | 0.433 | 994.05 | 4.051 | 2.439E+05 | 2.439E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.86 | 1.19 | <= | 0.41 | 0.000 | 0.00 | 0.54 | 0.00 | 63.80 | 63.85 |
| 63.95 | 129.87 | 4.1834 | 194.46 | 2.48 | 1.28% | 1.303 | 0.60 | 76.10 | 1.96 | 1.25 | 136 | 0.312 | 0.312 | 0.66 | 1.683 | 0.432 | 986.06 | 4.033 | 2.411E+05 | 2.411E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.73 | 1.00 | <= | 0.46 | 0.003 | 0.00 | 0.54 | 0.00 | 63.85 | 63.95 |
| 64.00 | 130.00 | 4.1867 | 193.39 | 2.53 | 1.31% | 1.337 | 0.60 | 75.62 | 1.97 | 1.26 | 136 | 0.313 | 0.313 | 0.66 | 1.685 | 0.432 | 989.43 | 4.037 | 2.425E+05 | 2.425E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.73 | 1.01 | <= | 0.47 | 0.001 | 0.00 | 0.53 | 0.00 | 63.95 | 64.00 |
| 64.05 | 130.06 | 4.1899 | 193.58 | 2.55 | 1.32% | 1.346 | 0.60 | 75.65 | 1.97 | 1.27 | 136 | 0.314 | 0.314 | 0.66 | 1.686 | 0.432 | 990.76 | 4.039 | 2.430E+05 | 2.430E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.74 | 1.01 | <= | 0.48 | 0.002 | 0.00 | 0.53 | 0.00 | 64.00 | 64.05 |
| 64.13 | 129.37 | 4.1951 | 174.44 | 2.41 | 1.38% | 1.416 | 0.62 | 67.93 | 2.03 | 1.33 | 127 | 0.271 | 0.271 | 0.65 | 1.689 | 0.432 | 981.21 | 4.018 | 2.396E+05 | 2.396E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.64 | 0.87 | <= | 1.34 | 0.005 | 0.00 | 0.53 | 0.00 | 64.05 | 64.13 |
| 64.17 | 128.81 | 4.1977 | 170.63 | 2.25 | 1.32% | 1.352 | 0.61 | 66.37 | 2.02 | 1.33 | 124 | 0.256 | 0.256 | 0.65 | 1.690 | 0.431 | 969.59 | 4.000 | 2.350E+05 | 2.350E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.60 | 0.82 | <= | 1.22 | 0.004 | 0.00 | 0.53 | 0.00 | 64.13 | 64.17 |
| 64.26 | 128.02 | 4.2034 | 164.38 | 2.04 | 1.24% | 1.274 | 0.61 | 63.80 | 2.01 | 1.32 | 118 | 0.234 | 0.234 | 0.65 | 1.693 | 0.431 | 953.02 | 3.976 | 2.284E+05 | 2.284E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.55 | 0.76 | <= | 1.83 | 0.007 | 0.00 | 0.52 | 0.00 | 64.17 | 64.26 |
| 64.31 | 127.63 | 4.2066 | 155.68 | 1.97 | 1.27% | 1.301 | 0.62 | 60.30 | 2.04 | 1.36 | 114 | 0.219 | 0.219 | 0.65 | 1.694 | 0.431 | 947.11 | 3.964 | 2.263E+05 | 2.263E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.51 | 0.71 | <= | 1.71 | 0.007 | 0.00 | 0.51 | 0.00 | 64.26 | 64.31 |
| 64.37 | 127.50 | 4.2105 | 150.22 | 1.96 | 1.30% | 1.342 | 0.63 | 58.08 | 2.06 | 1.39 | 112 | 0.212 | 0.212 | 0.65 | 1.696 | 0.431 | 946.25 | 3.960 | 2.261E+05 | 2.261E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.50 | 0.69 | <= | 2.10 | 0.013 | 0.00 | 0.51 | 0.00 | 64.31 | 64.37 |
| 64.44 | 127.36 | 4.2149 | 143.67 | 1.95 | 1.36% | 1.398 | 0.64 | 55.42 | 2.09 | 1.44 | 110 | 0.205 | 0.216 | 0.65 | 1.699 | 0.430 | 945.38 | 3.955 | 2.260E+05 | 2.260E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.51 | 0.70 | <= | 2.13 | 0.014 | 0.00 | 0.49 | 0.00 | 64.37 | 64.44 |
| 64.53 | 127.53 | 4.2207 | 131.66 | 2.06 | 1.56% | 1.616 | 0.66 | 50.58 | 2.17 | 1.60 | 109 | 0.202 | 0.247 | 0.65 | 1.701 | 0.430 | 954.67 | 3.961 | 2.301E+05 | 2.301E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.58 | 0.80 | <= | 2.15 | 0.017 | 0.00 | 0.48 | 0.00 | 64.44 | 64.53 |
| 64.58 | 127.79 | 4.2239 | 122.58 | 2.18 | 1.78% | 1.842 | 0.68 | 46.95 | 2.24 | 1.77 | 110 | 0.204 | 0.148 | 0.65 | 1.703 | 0.430 | 964.25 | 3.969 | 2.343E+05 | 2.343E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.35 | 0.48 | <= | 2.13 | 0.011 | 0.00 | 0.46 | 0.00 | 64.53 | 64.58 |
| 64.65 | 128.20 | 4.2283 | 112.71 | 2.37 | 2.10% | 2.185 | 0.71 | 42.99 | 2.32 | 2.03 | 113 | 0.215 | 0.164 | 0.65 | 1.705 | 0.429 | 978.38 | 3.981 | 2.404E+05 | 2.404E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.39 | 0.53 | <= | 2.09 | 0.016 | 0.00 | 0.45 | 0.00 | 64.58 | 64.65 |
| 64.71 | 128.83 | 4.2322 | 104.12 | 2.66 | 2.55% | 2.663 | 0.73 | 39.56 | 2.42 | 2.38 | 119 | 0.238 | 0.192 | 0.65 | 1.707 | 0.429 | 997.91 | 4.001 | 2.489E+05 | 2.489E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.45 | 0.62 | <= | 2.00 | 0.010 | 0.00 | 0.44 | 0.00 | 64.65 | 64.71 |
| 64.82 | 129.27 | 4.2393 | 90.05 | 2.96 | 3.29% | 3.449 | 0.77 | 33.93 | 2.55 | 3.05 | 127 | 0.269 | 0.245 | 0.65 | 1.710 | 0.429 | 1015.99 | 4.015 | 2.571E+05 | 2.571E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.58 | 0.79 | <= | 1.91 | 0.011 | 0.00 | 0.43 | 0.00 | 64.71 | 64.82 |
| 64.84 | 129.69 | 4.2406 | 105.29 | 2.97 | 2.82% | 2.939 | 0.74 | 39.95 | 2.45 | 2.51 | 126 | 0.266 | 0.204 | 0.65 | 1.711 | 0.428 | 1016.56 | 4.028 | 2.566E+05 | 2.566E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.48 | 0.66 | <= | 1.91 | 0.002 | 0.00 | 0.42 | 0.00 | 64.82 | 64.84 |
| 64.93 | 128.77 | 4.2464 | 91.52 | 2.75 | 3.00% | 3.151 | 0.76 | 34.46 | 2.52 | 2.86 | 122 | 0.248 | 0.226 | 0.65 | 1.714 | 0.428 | 1003.54 | 3.999 | 2.518E+05 | 2.518E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.53 | 0.73 | <= | 1.97 | 0.019 | 0.00 | 0.41 | 0.00 | 64.84 | 64.93 |
| 64.98 | 128.68 | 4.2496 | 106.46 | 2.58 | 2.42% | 2.524 | 0.73 | 40.33 | 2.39 | 2.28 | 117 | 0.231 | 0.186 | 0.65 | 1.715 | 0.428 | 992.74 | 3.996 | 2.466E+05 | 2.466E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.44 | 0.61 | <= | 2.03 | 0.007 | 0.00 | 0.39 | 0.00 | 64.93 | 64.98 |
| 65.04 | 128.78 | 4.2535 | 130.29 | 2.45 | 1.88% | 1.944 | 0.68 | 49.69 | 2.24 | 1.76 | 116 | 0.226 | 0.133 | 0.65 | 1.717 | 0.428 | 984.00 | 3.999 | 2.421E+05 | 2.421E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.31 | 0.43 | <= | 2.04 | 0.008 | 0.00 | 0.39 | 0.00 | 64.98 | 65.04 |
| 65.11 | 129.03 | 4.2580 | 156.37 | 2.38 | 1.52% | 1.565 | 0.64 | 59.92 | 2.10 | 1.45 | 120 | 0.242 | 0.242 | 0.65 | 1.719 | 0.427 | 979.09 | 4.007 | 2.392E+05 | 2.392E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.57 | 0.79 | <= | 1.94 | 0.006 | 0.00 | 0.38 | 0.00 | 65.04 | 65.11 |
| 65.20 | 128.76 | 4.2638 | 173.95 | 2.22 | 1.28% | 1.308 | 0.61 | 66.76 | 2.00 | 1.31 | 124 | 0.256 | 0.256 | 0.65 | 1.722 | 0.427 | 967.32 | 3.999 | 2.340E+05 | 2.340E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.61 | 0.83 | <= | 1.25 | 0.005 | 0.00 | 0.37 | 0.00 | 65.11 | 65.20 |
| 65.24 | 128.29 | 4.2664 | 176.49 | 2.07 | 1.17% | 1.202 | 0.60 | 67.73 | 1.97 | 1.27 | 123 | 0.251 | 0.251 | 0.65 | 1.723 | 0.427 | 955.49 | 3.984 | 2.291E+05 | 2.291E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.60 | 0.82 | <= | 1.21 | 0.002 | 0.00 | 0.37 | 0.00 | 65.20 | 65.24 |
| 65.29 | 127.62 | 4.2696 | 175.12 | 1.89 | 1.08% | 1.106 | 0.59 | 67.14 | 1.95 | 1.24 | 120 | 0.240 | 0.240 | 0.65 | 1.725 | 0.426 | 940.10 | 3.963 | 2.230E+05 | 2.230E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.57 | 0.78 | <= | 1.92 | 0.005 | 0.00 | 0.37 | 0.00 | 65.24 | 65.29 |
| 65.37 | 127.44 | 4.2747 | 170.14 | 1.86 | 1.09% | 1.121 | 0.60 | 65.12 | 1.97 | 1.26 | 117 | 0.230 | 0.230 | 0.64 | 1.728 | 0.426 | 937.39 | 3.958 | 2.220E+05 | 2.220E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.55 | 0.75 | <= | 1.83 | 0.007 | 0.00 | 0.36 | 0.00 | 65.29 | 65.37 |
| 65.46 | 127.56 | 4.2804 | 161.25 | 1.93 | 1.20% | 1.230 | 0.61 | 61.56 | 2.01 | 1.32 | 115 | 0.221 | 0.221 | 0.64 | 1.730 | 0.426 | 943.64 | 3.961 | 2.248E+05 | 2.248E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.53 | 0.72 | <= | 1.75 | 0.013 | 0.00 | 0.35 | 0.00 | 65.37 | 65.46 |
| 65.51 | 127.72 | 4.2836 | 155.68 | 2.00 | 1.28% | 1.321 | 0.62 | 59.33 | 2.05 | 1.37 | 114 | 0.218 | 0.218 | 0.64 | 1.732 | 0.425 | 949.67 | 3.966 | 2.274E+05 | 2.274E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.52 | 0.71 | <= | 1.73 | 0.007 | 0.00 | 0.34 | 0.00 | 65.46 | 65.51 |
| 65.55 | 127.96 | 4.2861 | 153.24 | 2.07 | 1.35% | 1.390 | 0.63 | 58.35 | 2.07 | 1.40 | 114 | 0.219 | 0.219 | 0.64 | 1.733 | 0.425 | 955.49 | 3.974 | 2.297E+05 | 2.297E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.52 | 0.72 | <= | 2.07 | 0.005 | 0.00 | 0.33 | 0.00 | 65.51 | 65.55 |
| 65.64 | 128.12 | 4.2919 | 147.77 | 2.14 | 1.45% | 1.492 | 0.64 | 56.14 | 2.11 | 1.47 | 114 | 0.217 | 0.217 | 0.64 | 1.736 | 0.425 | 961.11 | 3.979 | 2.322E+05 | 2.322E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.52 | 0.71 | <= | 2.08 | 0.012 | 0.00 | 0.33 | 0.00 | 65.55 | 65.64 |
| 65.68 | 128.16 | 4.2945 | 146.70 | 2.16 | 1.47% | 1.517 | 0.64 | 55.69 | 2.12 | 1.48 | 114 | 0.217 | 0.217 | 0.64 | 1.737 | 0.425 | 962.69 | 3.980 | 2.328E+05 | 2.328E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.52 | 0.71 | <= | 2.08 | 0.005 | 0.00 | 0.32 | 0.00 | 65.64 | 65.68 |
| 65.78 | 128.48 | 4.3009 | 147.72 | 2.25 | 1.52% | 1.569 | 0.65 | 56.01 | 2.12 | 1.50 | 116 | 0.224 | 0.224 | 0.64 | 1.740 | 0.424 | 969.59 | 3.990 | 2.356E+05 | 2.356E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.53 | 0.73 | <= | 2.05 | 0.014 | 0.00 | 0.31 | 0.00 | 65.68 | 65.78 |
| 65.84 | 128.68 | 4.3048 | 145.62 | 2.33 | 1.60% | 1.649 | 0.65 | 55.15 | 2.14 | 1.54 | 116 | 0.227 | 0.227 | 0.64 | 1.742 | 0.424 | 975.50 | 3.996 | 2.381E+05 | 2.381E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 0.54 | 0.74 | <= | 2.04 | 0.009 | 0.00 | 0.30 | 0.00 | 65.78 | 65.84 |
| 65.90 | 128.85 | 4.3086 | 147.68 | 2.37 | 1.60% | 1.653 | 0.65 | 55.91 | 2.14 | 1.53 | 118 | 0.231 | 0.231 | 0.64 | 1.744 | 0.424 | 978.38 | 4.002 | 2.392E+05 | 2.392E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 0.55 | 0.76 | <= | 2.02 | 0.009 | 0.00 | 0.29 | 0.00 | 65.84 | 65.90 |
| 65.95 | 128.47 | 4.3118 | 149.73 | 2.24 | 1.50% | 1.540 | 0.64 | 56.67 | 2.11 | 1.48 | 116 | 0.225 | 0.225 | 0.64 | 1.746 | 0.423 | 968.84 | 3.990 | 2.353E+05 | 2.353E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 0.54 | 0.74 | <= | 2.05 | 0.007 | 0.00 | 0.28 | 0.00 | 65.90 | 65.95 |
| 66.04 | 127.56 | 4.3176 | 153.54 | 1.96 | 1.28% | 1.313 | 0.62 | 58.08 | 2.05 | 1.38 | 112 | 0.212 | 0.212 | 0.64 | 1.748 | 0.423 | 946.25 | 3.961 | 2.260E+05 | 2.260E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 0.51 | 0.70 | <= | 2.10 | 0.012 | 0.00 | 0.27 | 0.00 | 65.95 | 66.04 |
| 66.08 | 127.29 | 4.3201 | 153.54 | 1.89 | 1.23% | 1.267 | 0.62 | 58.05 | 2.04 | 1.36 | 111 | 0.208 | 0.210 | 0.64 | 1.750 | 0.423 | 940.10 | 3.953 | 2.236E+05 | 2.236E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 0.50 | 0.69 | <= | 2.12 | 0.005 | 0.00 | 0.26 | 0.00 | 66.04 | 66.08 |
| 66.21 | 126.98 | 4.3284 | 151.58 | 1.82 | 1.20% | 1.236 | 0.62 | 57.19 | 2.04 | 1.36 | 110 | 0.202 | 0.204 | 0.64 | 1.754 | 0.422 | 933.71 | 3.943 | 2.211E+05 | 2.211E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 0.49 | 0.67 | <= | 2.14 | 0.028 | 0.00 | 0.26 | 0.00 | 66.08 | 66.21 |
| 66.23 | 127.22 | 4.3296 | 150.31 | 1.89 | 1.26% | 1.295 | 0.63 | 56.69 | 2.06 | 1.38 | 110 | 0.204 | 0.207 | 0.64 | 1.754 | 0.422 | 940.10 | 3.951 | 2.237E+05 | 2.237E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 0.49 | 0.68 | <= | 2.13 | 0.004 | 0.00 | 0.23 | 0.00 | 66.21 | 66.23 |
| 66.28 | 127.28 | 4.3328 | 149.43 | 1.90 | 1.27% | 1.309 | 0.63 | 56.31 | 2.06 | 1.39 | 110 | 0.204 | 0.206 | 0.64 | 1.756 | 0.422 | 940.99 | 3.953 | 2.240E+05 | 2.240E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 0.49 | 0.68 | <= | 2.14 | 0.011 | 0.00 | 0.22 | 0.00 | 66.23 | 66.28 |
| 66.35 | 126.92 | 4.3373 | 145.33 | 1.83 | 1.26% | 1.298 | 0.63 | 54.67 | 2.07 | 1.41 | 108 | 0.196 | 0.216 | 0.64 | 1.758 | 0.422 | 934.64 | 3.942 | 2.216E+05 | 2.216E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | | 0.52 | 0.71 | <= | 2.17 | 0.014 | 0.00 | 0.21 | 0.00 | 66.28 | 66.35 |
| 66.44 | 127.29 | 4.3430 | 138.10 | 1.96 | 1.42% | 1.465 | 0.65 | 51.80 | 2.13 | 1.51 | 108 | 0.197 | 0.234 | 0.64 | 1.761 | 0.421 | 946.25 | 3.953 | 2.265E+05 | 2.265E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | | 0.56 | 0.77 | <= | 2.17 | 0.018 | 0.00 | 0.20 | 0.00 | 66.35 | 66.44 |
| 66.48 | 127.67 | 4.3456 | 133.42 | 2.09 | 1.57% | 1.619 | 0.66 | 49.96 | 2.17 | 1.60 | 109 | 0.201 | 0.239 | 0.64 | 1.762 | 0.421 | 957.11 | 3.965 | 2.310E+05 | 2.310E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | | 0.57 | 0.79 | <= | 2.15 | 0.008 | 0.00 | 0.18 | 0.00 | 66.44 | 66.48 |
| 66.56 | 128.37 | 4.3507 | 121.11 | 2.37 | 1.96% | 2.030 | 0.69 | 45.15 | 2.28 | 1.89 | 113 | 0.214 | 0.150 | 0.63 | 1.765 | 0.421 | 978.38 | 3.987 | 2.401E+05 | 2.401E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | | 0.36 | 0.50 | <= | 2.09 | 0.018 | 0.00 | 0.17 | 0.00 | 66.48 | 66.56 |
| 66.61 | 128.41 | 4.3539 | 100.21 | 2.54 | 2.53% | 2.650 | 0.74 | 37.04 | 2.44 | 2.46 | 116 | 0.224 | 0.193 | 0.63 | 1.766 | 0.420 | 990.10 | 3.988 | 2.458E+05 | 2.458E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | | 0.46 | 0.64 | <= | 2.05 | 0.007 | 0.00 | 0.16 | 0.00 | 66.56 | 66.61 |
| 66.69 | 129.22 | 4.3591 | 94.93 | 2.89 | 3.04% | 3.191 | 0.76 | 34.96 | 2.52 | 2.85 | 124 | 0.256 | 0.220 | 0.63 | 1.769 | 0.420 | 1011.94 | 4.013 | 2.552E+05 | 2.552E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | | 0.53 | 0.73 | <= | 1.94 | 0.008 | 0.00 | 0.15 | 0.00 | 66.61 | 66.69 |
| 66.76 | 129.17 | 4.3636 | 80.48 | 3.03 | 3.76% | 3.981 | 0.80 | 29.36 | 2.65 | 3.64 | 128 | 0.274 | 0.274 | 0.63 | 1.771 | 0.420 | 1019.94 | 4.011 | 2.593E+05 | 2.593E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 66.82 | 128.59 | 4.3674 | 66.61 | 2.98 | 4.47% | 4.788 | 0.84 | 23.99 | 2.78 | 4.60 | 152 | 0.406 | 0.406 | 0.63 | 1.773 | 0.420 | 1017.12 | 3.993 | 2.591E+05 | 2.591E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 66.89 | 127.71 | 4.3719 | 53.72 | 2.84 | 5.29% | 5.755 | 0.88 | 19.00 | 2.92 | 5.89 | 194 | 0.762 | 0.762 | 0.63 | 1.775 | 0.419 | 1008.99 | 3.966 | 2.567E+05 | 2.567E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 66.95 | 126.92 | 4.3757 | 48.74 | 2.63 | 5.40% | 5.928 | 0.90 | 17.07 | 2.97 | 6.38 | 210 | 0.947 | 0.947 | 0.63 | 1.777 | 0.419 | 995.99 | 3.942 | 2.517E+05 | 2.517E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.00 | 126.33 | 4.3789 | 45.61 | 2.48 | 5.44% | 6.015 | 0.91 | 15.86 | 3.00 | 6.71 | 221 | 1.090 | 1.090 | 0.63 | 1.778 | 0.419 | 986.06 | 3.923 | 2.478E+05 | 2.478E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.09 | 127.03 | 4.3846 | 48.64 | 2.68 | 5.51% | 6.056 | 0.90 | 17.00 | 2.97 | 6.47 | 213 | 0.983 | 0.983 | 0.63 | 1.781 | 0.418 | 999.18 | 3.945 | 2.531E+05 | 2.531E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.13 | 126.50 | 4.3871 | 42.19 | 2.61 | 6.19% | 6.904 | 0.93 | 14.51 | 3.07 | 7.59 | 250 | 1.539 | 1.539 | 0.63 | 1.782 | 0.418 | 994.70 | 3.929 | 2.519E+05 | 2.519E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.22 | 127.56 | 4.3929 | 48.54 | 2.88 | 5.93% | 6.524 | 0.91 | 16.93 | 3.00 | 6.74 | 223 | 1.105 | 1.105 | 0.63 | 1.785 | 0.418 | 1011.35 | 3.961 | 2.582E+05 | 2.582E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.27 | 128.04 | 4.3961 | 52.06 | 3.00 | 5.76% | 6.294 | 0.90 | 18.27 | 2.96 | 6.33 | 209 | 0.927 | 0.927 | 0.63 | 1.787 | 0.418 | 1018.26 | 3.976 | 2.608E+05 | 2.608E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.35 | 129.21 | 4.4012 | 63.78 | 3.29 | 5.16% | 5.541 | 0.86 | 22.73 | 2.84 | 5.17 | 171 | 0.543 | 0.543 | 0.63 | 1.789 | 0.417 | 1033.87 | 4.013 | 2.664E+05 | 2.664E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.40 | 129.71 | 4.4045 | 71.40 | 3.39 | 4.75% | 5.060 | 0.84 | 25.63 | 2.77 | 4.56 | 151 | 0.397 | 0.397 | 0.63 | 1.791 | 0.417 | 1038.93 | 4.028 | 2.680E+05 | 2.680E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.48 | 130.03 | 4.4097 | 74.52 | 3.49 | 4.68% | 4.978 | 0.83 | 26.80 | 2.75 | 4.40 | 145 | 0.364 | 0.364 | 0.63 | 1.793 | 0.417 | 1043.85 | 4.038 | 2.698E+05 | 2.698E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.53 | 130.07 | 4.4129 | 74.52 | 3.52 | 4.72% | 5.021 | 0.83 | 26.78 | 2.76 | 4.42 | 146 | 0.369 | 0.369 | 0.63 | 1.795 | 0.416 | 1045.30 | 4.039 | 2.705E+05 | 2.705E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.61 | 130.00 | 4.4181 | 71.98 | 3.52 | 4.89% | 5.210 | 0.84 | 25.78 | 2.78 | 4.62 | 153 | 0.410 | 0.410 | 0.63 | 1.797 | 0.416 | 1045.30 | 4.037 | 2.706E+05 | 2.706E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.66 | 129.80 | 4.4214 | 68.27 | 3.49 | 5.11% | 5.466 | 0.85 | 24.35 | 2.82 | 4.92 | 162 | 0.479 | 0.479 | 0.63 | 1.799 | 0.416 | 1043.85 | 4.031 | 2.703E+05 | 2.703E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.73 | 127.93 | 4.4259 | 65.93 | 2.73 | 4.14% | 4.439 | 0.84 | 23.43 | 2.76 | 4.47 | 147 | 0.378 | 0.378 | 0.63 | 1.801 | 0.415 | 1002.30 | 3.973 | 2.529E+05 | 2.529E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.80 | 126.08 | 4.4303 | 65.15 | 2.13 | 3.27% | 3.508 | 0.82 | 23.11 | 2.69 | 3.93 | 130 | 0.284 | 0.284 | 0.62 | 1.803 | 0.415 | 960.32 | 3.916 | 2.355E+05 | 2.355E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.86 | 126.86 | 4.4341 | 66.32 | 2.36 | 3.56% | 3.813 | 0.82 | 23.54 | 2.71 | 4.08 | 135 | 0.307 | 0.307 | 0.62 | 1.805 | 0.415 | 977.67 | 3.940 | 2.426E+05 | 2.426E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 67.93 | 127.29 | 4.4385 | 65.54 | 2.51 | 3.83% | 4.108 | 0.83 | 23.22 | 2.74 | 4.29 | 142 | 0.345 | 0.345 | 0.62 | 1.807 | 0.414 | 988.09 | 3.953 | 2.470E+05 | 2.470E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 68.02 | 127.04 | 4.4442 | 63.19 | 2.46 | 3.89% | 4.188 | 0.84 | 22.30 | 2.76 | 4.45 | 147 | 0.375 | 0.375 | 0.62 | 1.810 | 0.414 | 984.69 | 3.945 | 2.458E+05 | 2.458E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 68.05 | 126.65 | 4.4461 | 56.84 | 2.41 | 4.24% | 4.600 | 0.86 | 19.88 | 2.83 | 5.05 | 167 | 0.511 | 0.511 | 0.62 | 1.811 | 0.414 | 981.21 | 3.933 | 2.448E+05 | 2.448E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 68.14 | 126.63 | 4.4518 | 68.95 | 2.25 | 3.26% | 3.488 | 0.81 | 24.45 | 2.67 | 3.78 | 125 | 0.260 | 0.260 | 0.62 | 1.814 | 0.414 | 969.59 | 3.933 | 2.391E+05 | 2.391E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 68.19 | 126.59 | 4.4550 | 68.47 | 2.25 | 3.29% | 3.515 | 0.81 | 24.25 | 2.67 | 3.81 | 126 | 0.265 | 0.265 | 0.62 | 1.816 | 0.413 | 969.59 | 3.931 | 2.391E+05 | 2.391E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 68.27 | 126.59 | 4.4601 | 69.25 | 2.24 | 3.23% | 3.457 | 0.81 | 24.52 | 2.67 | 3.75 | 124 | 0.256 | 0.256 | 0.62 | 1.818 | 0.413 | 968.84 | 3.931 | 2.388E+05 | 2.388E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 68.31 | 126.87 | 4.4626 | 70.52 | 2.31 | 3.28% | 3.497 | 0.81 | 24.99 | 2.66 | 3.73 | 123 | 0.253 | 0.253 | 0.62 | 1.819 | 0.413 | 974.04 | 3.940 | 2.408E+05 | 2.408E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 68.41 | 127.41 | 4.4690 | 73.74 | 2.45 | 3.32% | 3.537 | 0.80 | 26.17 | 2.65 | 3.64 | 120 | 0.241 | 0.241 | 0.62 | 1.822 | 0.412 | 984.00 | 3.957 | 2.447E+05 | 2.447E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 68.44 | 127.47 | 4.4709 | 75.11 | 2.46 | 3.28% | 3.482 | 0.80 | 26.68 | 2.64 | 3.56 | 118 | 0.231 | 0.231 | 0.62 | 1.823 | 0.412 | 984.69 | 3.959 | 2.449E+05 | 2.449E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.14 | 0.00 | | |
| 68.54 | 128.50 | 4.4773 | 89.27 | 2.67 | 2.99% | 3.149 | 0.77 | 31.99 | 2.54 | 2.98 | 118 | 0.234 | 0.219 | 0.62 | 1.826 | 0.412 | 998.54 | 3.991 | 2.499E+05 | 2.499E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | | 0.54 | 0.74 | <= | 2.01 | 0.020 | 0.00 | 0.14 | 0.00 | 68.44 | 68.54 |
| 68.58 | 128.96 | 4.4799 | 96.69 | 2.77 | 2.86% | 3.004 | 0.76 | 34.77 | 2.50 | 2.75 | 120 | 0.241 | 0.211 | 0.62 | 1.828 | 0.412 | 1004.76 | 4.005 | 2.521E+05 | 2.521E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | | 0.52 | 0.71 | <= | 1.99 | 0.003 | 0.00 | 0.12 | 0.00 | 68.54 | 68.58 |
| 68.64 | 130.19 | 4.4838 | 131.95 | 2.95 | 2.24% | 2.314 | 0.70 | 48.02 | 2.30 | 1.94 | 124 | 0.257 | 0.257 | 0.62 | 1.830 | 0.411 | 1015.41 | 4.043 | 2.550E+05 | 2.550E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | | 0.63 | 0.87 | <= | 1.69 | 0.004 | 0.00 | 0.12 | 0.00 | 68.58 | 68.64 |
| 68.73 | 131.10 | 4.4897 | 169.07 | 3.08 | 1.82% | 1.871 | 0.65 | 61.93 | 2.14 | 1.53 | 132 | 0.294 | 0.294 | 0.62 | 1.832 | 0.411 | 1022.71 | 4.071 | 2.569E+05 | 2.569E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | | 0.72 | 0.99 | <= | 1.00 | 0.003 | 0.00 | 0.11 | 0.00 | 68.64 | 68.73 |
| 68.80 | 131.20 | 4.4943 | 183.33 | 3.04 | 1.66% | 1.700 | 0.63 | 67.24 | 2.08 | 1.42 | 135 | 0.309 | 0.309 | 0.62 | 1.835 | 0.410 | 1020.50 | 4.075 | 2.556E+05 | 2.556E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | | 0.76 | 1.05 | <= | 0.55 | 0.000 | 0.00 | 0.11 | 0.00 | 68.73 | 68.80 |
| 68.85 | 131.17 | 4.4976 | 191.63 | 2.98 | 1.56% | 1.592 | 0.62 | 70.31 | 2.04 | 1.36 | 137 | 0.318 | 0.318 | 0.62 | 1.836 | 0.410 | 1017.12 | 4.074 | 2.540E+05 | 2.540E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | | 0.78 | 1.08 | <= | 0.61 | 0.000 | 0.00 | 0.11 | 0.00 | 68.80 | 68.85 |
| 68.91 | 130.94 | 4.5015 | 198.46 | 2.86 | 1.44% | 1.475 | 0.61 | 72.82 | 2.01 | 1.31 | 138 | 0.322 | 0.322 | 0.62 | 1.838 | 0.410 | 1010.17 | 4.066 | 2.509E+05 | 2.509E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | | 0.79 | 1.09 | <= | 0.64 | 0.000 | 0.00 | 0.11 | 0.00 | 68.85 | 68.91 |
| 68.98 | 130.31 | 4.5061 | 200.81 | 2.61 | 1.30% | 1.330 | 0.60 | 73.64 | 1.97 | 1.26 | 136 | 0.311 | 0.311 | 0.62 | 1.840 | 0.410 | 994.70 | 4.047 | 2.445E+05 | 2.445E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | | 0.77 | 1.06 | <= | 0.57 | 0.000 | 0.00 | 0.11 | 0.00 | 68.91 | 68.98 |
| 69.03 | 129.75 | 4.5093 | 197.68 | 2.43 | 1.23% | 1.258 | 0.59 | 72.41 | 1.96 | 1.25 | 132 | 0.295 | 0.295 | 0.61 | 1.842 | 0.409 | 982.61 | 4.030 | 2.396E+05 | 2.396E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | | 0.73 | 1.00 | <= | 0.46 | 0.000 | 0.00 | 0.11 | 0.00 | 68.98 | 69.03 |
| 69.11 | 129.02 | 4.5145 | 193.09 | 2.22 | 1.15% | 1.177 | 0.59 | 70.62 | 1.94 | 1.23 | 128 | 0.275 | 0.275 | 0.61 | 1.844 | 0.409 | 967.32 | 4.007 | 2.335E+05 | 2.335E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | | 0.68 | 0.94 | <= | 0.83 | 0.003 | 0.00 | 0.11 | 0.00 | 69.03 | 69.11 |
| 69.16 | 128.85 | 4.5177 | 187.62 | 2.19 | 1.17% | 1.196 | 0.60 | 68.53 | 1.96 | 1.25 | 126 | 0.264 | 0.264 | 0.61 | 1.846 | 0.409 | 965.02 | 4.002 | 2.327E+05 | 2.327E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | | 0.65 | 0.90 | <= | 1.45 | 0.001 | 0.00 | 0.11 | 0.00 | 69.11 | 69.16 |
| 69.24 | 128.58 | 4.5228 | 179.91 | 2.14 | 1.19% | 1.220 | 0.60 | 65.58 | 1.98 | 1.28 | 122 | 0.248 | 0.248 | 0.61 | 1.848 | 0.408 | 961.11 | 3.993 | 2.313E+05 | 2.313E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | | 0.61 | 0.85 | <= | 1.32 | 0.003 | 0.00 | 0.11 | 0.00 | 69.16 | 69.24 |
| 69.29 | 128.33 | 4.5260 | 169.46 | 2.11 | 1.25% | 1.279 | 0.61 | 61.63 | 2.02 | 1.33 | 118 | 0.232 | 0.232 | 0.61 | 1.850 | 0.408 | 958.72 | 3.985 | 2.306E+05 | 2.306E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | | 0.57 | 0.79 | <= | 1.98 | 0.003 | 0.00 | 0.10 | 0.00 | 69.24 | 69.29 |
| 69.42 | 127.19 | 4.5343 | 146.80 | 1.89 | 1.29% | 1.329 | 0.63 | 53.08 | 2.08 | 1.43 | 107 | 0.195 | 0.213 | 0.61 | 1.854 | 0.408 | 940.10 | 3.950 | 2.237E+05 | 2.237E+05 | 1.00 | 0.1542 | 0.989 | 0.403 | | 0.53 | 0.73 | <= | 2.18 | 0.016 | 0.00 | 0.10 | 0.00 | 69.29 | 69.42 |
| 69.45 | 127.52 | 4.5362 | 137.32 | 2.03 | 1.48% | 1.529 | 0.65 | 49.52 | 2.15 | 1.56 | 107 | 0.195 | 0.229 | 0.61 | 1.855 | 0.407 | 952.19 | 3.960 | 2.289E+05 | 2.289E+05 | 1.00 | 0.1542 | 0.989 | 0.403 | | 0.57 | 0.78 | <= | 2.18 | 0.006 | 0.00 | 0.08 | 0.00 | 69.42 | 69.45 |
| 69.52 | 128.58 | 4.5407 | 121.50 | 2.44 | 2.01% | 2.086 | 0.70 | 43.58 | 2.30 | 1.94 | 113 | 0.213 | 0.148 | 0.61 | 1.857 | 0.407 | 983.31 | 3.993 | 2.421E+05 | 2.421E+05 | 1.00 | 0.1542 | 0.989 | 0.403 | | 0.37 | 0.51 | <= | 2.09 | 0.009 | 0.00 | 0.08 | 0.00 | 69.45 | 69.52 |
| 69.56 | 128.99 | 4.5433 | 114.57 | 2.63 | 2.30% | 2.390 | 0.72 | 40.98 | 2.36 | 2.17 | 116 | 0.226 | 0.167 | 0.61 | 1.858 | 0.407 | 995.99 | 4.006 | 2.476E+05 | 2.476E+05 | 1.00 | 0.1542 | 0.989 | 0.403 | | 0.41 | 0.57 | <= | 2.04 | 0.008 | 0.00 | 0.07 | 0.00 | 69.52 | 69.56 |
| 69.64 | 129.26 | 4.5485 | 97.47 | 2.88 | 2.95% | 3.099 | 0.76 | 34.57 | 2.51 | 2.81 | 122 | 0.248 | 0.211 | 0.61 | 1.861 | 0.407 | 1011.35 | 4.014 | 2.548E+05 | 2.548E+05 | 1.00 | 0.1542 | 0.989 | 0.402 | | 0.52 | 0.72 | <= | 1.97 | 0.008 | 0.00 | 0.06 | 0.00 | 69.56 | 69.64 |
| 69.71 | 129.83 | 4.5530 | 105.58 | 3.03 | 2.87% | 2.999 | 0.75 | 37.56 | 2.47 | 2.61 | 125 | 0.260 | 0.202 | 0.61 | 1.863 | 0.406 | 1019.94 | 4.032 | 2.580E+05 | 2.580E+05 | 1.00 | 0.1542 | 0.989 | 0.402 | | 0.50 | 0.69 | <= | 1.93 | 0.004 | 0.00 | 0.05 | 0.00 | 69.64 | 69.71 |
| 69.77 | 130.00 | 4.5569 | 101.38 | 3.14 | 3.10% | 3.243 | 0.76 | 35.97 | 2.51 | 2.81 | 127 | 0.270 | 0.221 | 0.61 | 1.865 | 0.406 | 1025.97 | 4.037 | 2.607E+05 | 2.607E+05 | 1.00 | 0.1542 | 0.989 | 0.402 | | 0.55 | 0.76 | <= | 1.90 | 0.004 | 0.00 | 0.05 | 0.00 | 69.71 | 69.77 |
| 69.84 | 129.95 | 4.5615 | 98.94 | 3.15 | 3.18% | 3.338 | 0.77 | 35.03 | 2.53 | 2.91 | 127 | 0.272 | 0.222 | 0.61 | 1.867 | 0.406 | 1026.51 | 4.036 | 2.611E+05 | 2.611E+05 | 1.00 | 0.1542 | 0.989 | 0.401 | | 0.55 | 0.76 | <= | 1.90 | 0.002 | 0.00 | 0.04 | 0.00 | 69.77 | 69.84 |
| 69.89 | 129.96 | 4.5647 | 103.14 | 3.11 | 3.02% | 3.155 | 0.76 | 36.56 | 2.49 | 2.73 | 126 | 0.267 | 0.208 | 0.61 | 1.869 | 0.405 | 1024.35 | 4.036 | 2.600E+05 | 2.600E+05 | 1.00 | 0.1542 | 0.989 | 0.401 | | 0.52 | 0.71 | <= | 1.91 | 0.003 | 0.00 | 0.04 | 0.00 | 69.84 | 69.89 |
| 69.95 | 87.42 | 4.5673 | 111.05 | 0.00 | 0.00% | 0.001 | 0.77 | 39.48 | 2.54 | 2.95 | 145 | 0.365 | 0.324 | 0.61 | 1.870 | 0.405 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.401 | | 0.81 | 1.11 | <= | 0.32 | 0.000 | 0.00 | 0.04 | 0.00 | 69.89 | 69.95 |
| 70.02 | 87.42 | 4.5704 | 107.53 | 0.00 | 0.00% | 0.001 | 0.77 | 38.16 | 2.54 | 2.95 | 140 | 0.338 | 0.299 | 0.61 | 1.873 | 0.405 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.401 | | 0.75 | 1.03 | <= | 0.50 | 0.000 | 0.00 | 0.04 | 0.00 | 69.95 | 70.02 |
| 70.11 | 87.42 | 4.5743 | 86.05 | 0.00 | 0.00% | 0.001 | 0.77 | 30.19 | 2.54 | 2.98 | 112 | 0.210 | 0.187 | 0.61 | 1.875 | 0.405 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.400 | | 0.47 | 0.64 | <= | 2.11 | 0.013 | 0.00 | 0.04 | 0.00 | 70.02 | 70.11 |
| 70.16 | 87.42 | 4.5765 | 75.89 | 0.00 | 0.00% | 0.001 | 0.77 | 26.42 | 2.55 | 3.01 | 99 | 0.172 | 0.152 | 0.61 | 1.877 | 0.404 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.400 | | 0.38 | 0.52 | <= | 2.32 | 0.012 | 0.00 | 0.02 | 0.00 | 70.11 | 70.16 |
| 70.24 | 87.42 | 4.5800 | 67.78 | 0.00 | 0.00% | 0.002 | 0.77 | 23.40 | 2.55 | 3.06 | 101 | 0.176 | 0.156 | 0.61 | 1.879 | 0.404 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.400 | | 0.39 | 0.54 | <= | 2.29 | 0.021 | 0.00 | #REF! | #REF! | 70.16 | 70.24 |
| 70.29 | 87.42 | 4.5811 | 63.39 | 0.00 | 0.00% | 0.002 | 0.78 | 21.78 | 2.56 | 3.10 | 102 | 0.179 | 0.159 | 0.60 | 1.881 | 0.404 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.400 | | 0.40 | 0.55 | <= | 2.27 | 0.013 | 0.00 | 0.01 | 0.00 | 70.24 | 70.29 |

a. Per $(N1)_{60CS}$ improvement correlation stipulated in Shenthan et.al (2006).

b. Vs = 118.8 $\log_{10}$ (fs) + 18.5; Vs in m/sec and fs in kilopascals.

c. Per the Rrd - Ar correlation stipulated in Rayamajhi et.al (2012)

d. CSR*= CSR x Rrd

| | | | |
|---|---|---|---|
| Total Wet Settlement (in) | 3.42 | Total Wet Settlement with Vibro Stone Columns within 50' Depth (in) | 1.52 |
| | | Total Dry Settlement with Vibro Stone Columns (in) * | 0.01 |

* Based on 5 ft OX

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

TEST LOCATION: **CPT-3**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A (ft$^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft$^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec$^2$)/ft$^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.09 | 109.34 | 0.0049 | 10.54 | 0.4 | 3.80% | 3.797 | 0.63 | 2141.15 | 2.06 | 1.39 | ######### | # | # | 1.00 | 0.000 | 0.394 | 677.41 | 3.396 | 1.351E+05 | 1.351E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 31.44 | 43.26 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.14 | 110.34 | 0.0077 | 9.47 | 0.47 | 4.96% | 4.967 | 0.67 | 1225.08 | 2.20 | 1.68 | 335 | 3.582 | 7.394 | 1.00 | 0.000 | 0.394 | 704.69 | 3.427 | 1.449E+05 | 1.449E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 18.98 | 26.11 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.21 | 111.88 | 0.0116 | 10.35 | 0.57 | 5.51% | 5.513 | 0.69 | 888.21 | 2.26 | 1.84 | 368 | 4.723 | 9.756 | 1.00 | 0.000 | 0.394 | 737.33 | 3.475 | 1.565E+05 | 1.565E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 25.04 | 34.46 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.28 | 113.38 | 0.0156 | 12.20 | 0.66 | 5.41% | 5.417 | 0.69 | 780.66 | 2.27 | 1.84 | 369 | 4.747 | 10.574 | 1.00 | 0.000 | 0.394 | 762.12 | 3.521 | 1.650E+05 | 1.650E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 27.15 | 37.36 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.36 | 114.64 | 0.0202 | 14.64 | 0.73 | 4.99% | 4.993 | 0.68 | 723.99 | 2.24 | 1.77 | 355 | 4.227 | 9.416 | 1.00 | 0.000 | 0.394 | 779.18 | 3.560 | 1.705E+05 | 1.705E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 24.18 | 33.27 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.41 | 115.10 | 0.0231 | 15.52 | 0.77 | 4.96% | 4.969 | 0.68 | 671.71 | 2.25 | 1.78 | 357 | 4.296 | 10.314 | 1.00 | 0.000 | 0.394 | 788.20 | 3.575 | 1.738E+05 | 1.738E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 26.49 | 36.45 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.46 | 115.39 | 0.0260 | 16.30 | 0.79 | 4.85% | 4.854 | 0.68 | 626.99 | 2.24 | 1.78 | 344 | 3.881 | 9.317 | 1.00 | 0.000 | 0.393 | 792.54 | 3.584 | 1.753E+05 | 1.753E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 23.93 | 32.93 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.54 | 115.40 | 0.0306 | 17.57 | 0.77 | 4.38% | 4.390 | 0.67 | 573.71 | 2.22 | 1.72 | 313 | 2.934 | 7.043 | 1.00 | 0.000 | 0.393 | 788.20 | 3.584 | 1.734E+05 | 1.734E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 18.09 | 24.90 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.62 | 115.11 | 0.0352 | 18.74 | 0.72 | 3.84% | 3.849 | 0.66 | 531.75 | 2.19 | 1.64 | 280 | 2.126 | 5.105 | 1.00 | 0.000 | 0.393 | 776.84 | 3.575 | 1.688E+05 | 1.688E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 13.12 | 18.05 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.67 | 114.98 | 0.0381 | 20.11 | 0.69 | 3.43% | 3.438 | 0.65 | 527.51 | 2.15 | 1.56 | 262 | 1.749 | 4.726 | 1.00 | 0.000 | 0.393 | 769.64 | 3.571 | 1.659E+05 | 1.659E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 12.15 | 16.71 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.76 | 114.56 | 0.0432 | 22.36 | 0.63 | 2.82% | 2.823 | 0.64 | 516.52 | 2.09 | 1.44 | 234 | 1.270 | 4.527 | 1.00 | 0.000 | 0.393 | 754.26 | 3.558 | 1.599E+05 | 1.599E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 11.64 | 16.01 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.81 | 114.29 | 0.0461 | 23.33 | 0.60 | 2.57% | 2.577 | 0.63 | 505.48 | 2.07 | 1.40 | 222 | 1.095 | 3.905 | 1.00 | 0.000 | 0.393 | 746.00 | 3.549 | 1.568E+05 | 1.568E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 10.04 | 13.81 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.86 | 114.45 | 0.0489 | 24.89 | 0.60 | 2.41% | 2.415 | 0.62 | 507.74 | 2.04 | 1.36 | 217 | 1.032 | 3.214 | 1.00 | 0.000 | 0.393 | 746.00 | 3.554 | 1.566E+05 | 1.566E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 8.26 | 11.37 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.92 | 114.92 | 0.0524 | 26.06 | 0.63 | 2.42% | 2.422 | 0.62 | 496.59 | 2.04 | 1.36 | 218 | 1.042 | 3.245 | 1.00 | 0.000 | 0.393 | 754.26 | 3.569 | 1.594E+05 | 1.594E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 8.35 | 11.48 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 0.98 | 115.76 | 0.0558 | 27.24 | 0.70 | 2.57% | 2.575 | 0.63 | 486.78 | 2.06 | 1.39 | 226 | 1.153 | 3.591 | 1.00 | 0.000 | 0.393 | 772.08 | 3.595 | 1.658E+05 | 1.658E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 9.24 | 12.71 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.07 | 117.27 | 0.0611 | 27.92 | 0.85 | 3.04% | 3.051 | 0.64 | 455.79 | 2.11 | 1.48 | 245 | 1.450 | 3.983 | 1.00 | 0.000 | 0.393 | 804.92 | 3.642 | 1.779E+05 | 1.779E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 10.25 | 14.10 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.16 | 118.42 | 0.0665 | 28.60 | 0.98 | 3.43% | 3.435 | 0.65 | 429.39 | 2.16 | 1.56 | 260 | 1.710 | 4.695 | 1.00 | 0.000 | 0.393 | 829.00 | 3.678 | 1.869E+05 | 1.869E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 12.08 | 16.62 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.21 | 118.56 | 0.0694 | 28.99 | 1.00 | 3.45% | 3.458 | 0.66 | 416.63 | 2.16 | 1.58 | 259 | 1.691 | 4.644 | 1.00 | 0.000 | 0.393 | 832.41 | 3.682 | 1.882E+05 | 1.882E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 11.95 | 16.44 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.25 | 118.92 | 0.0718 | 29.29 | 1.05 | 3.58% | 3.594 | 0.66 | 406.98 | 2.17 | 1.61 | 264 | 1.783 | 4.898 | 1.00 | 0.000 | 0.393 | 840.67 | 3.693 | 1.914E+05 | 1.914E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 12.60 | 17.34 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.35 | 119.82 | 0.0778 | 33.29 | 1.13 | 3.39% | 3.402 | 0.65 | 426.98 | 2.14 | 1.54 | 265 | 1.815 | 4.424 | 1.00 | 0.000 | 0.393 | 853.09 | 3.721 | 1.956E+05 | 1.956E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 11.39 | 15.67 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.39 | 119.98 | 0.0802 | 35.92 | 1.13 | 3.15% | 3.153 | 0.64 | 446.97 | 2.11 | 1.47 | 261 | 1.738 | 3.773 | 1.00 | 0.000 | 0.393 | 853.09 | 3.726 | 1.953E+05 | 1.953E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 9.71 | 13.36 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.48 | 119.95 | 0.0856 | 44.61 | 1.05 | 2.35% | 2.358 | 0.60 | 520.26 | 1.98 | 1.28 | 247 | 1.488 | 2.875 | 1.00 | 0.000 | 0.393 | 840.67 | 3.725 | 1.897E+05 | 1.897E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 7.40 | 10.18 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.52 | 119.92 | 0.0880 | 49.98 | 1.00 | 2.00% | 2.004 | 0.58 | 567.08 | 1.92 | 1.20 | 241 | 1.380 | 2.360 | 1.00 | 0.000 | 0.392 | 832.41 | 3.724 | 1.861E+05 | 1.861E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 6.08 | 8.36 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.59 | 119.66 | 0.0922 | 52.32 | 0.95 | 1.82% | 1.819 | 0.57 | 566.66 | 1.88 | 1.17 | 235 | 1.284 | 1.918 | 1.00 | 0.000 | 0.392 | 823.74 | 3.716 | 1.826E+05 | 1.826E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 4.94 | 6.80 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.65 | 119.21 | 0.0957 | 48.61 | 0.92 | 1.89% | 1.896 | 0.58 | 506.71 | 1.92 | 1.21 | 226 | 1.155 | 1.976 | 1.00 | 0.000 | 0.392 | 818.31 | 3.702 | 1.809E+05 | 1.809E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 5.09 | 7.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.75 | 115.28 | 0.1015 | 47.25 | 0.54 | 1.14% | 1.145 | 0.55 | 464.48 | 1.80 | 1.10 | 179 | 0.610 | 1.179 | 1.00 | 0.000 | 0.392 | 728.18 | 3.580 | 1.481E+05 | 1.481E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 3.04 | 4.18 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.78 | 114.83 | 0.1032 | 46.47 | 0.51 | 1.10% | 1.100 | 0.55 | 449.16 | 1.79 | 1.10 | 173 | 0.563 | 1.088 | 1.00 | 0.000 | 0.392 | 718.51 | 3.566 | 1.448E+05 | 1.448E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.80 | 3.86 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.89 | 113.33 | 0.1095 | 43.83 | 0.43 | 0.98% | 0.984 | 0.54 | 399.41 | 1.79 | 1.10 | 157 | 0.442 | 0.959 | 1.00 | 0.000 | 0.392 | 689.65 | 3.520 | 1.351E+05 | 1.351E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.47 | 3.40 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 1.92 | 113.13 | 0.1112 | 42.85 | 0.42 | 0.98% | 0.983 | 0.55 | 384.48 | 1.80 | 1.10 | 154 | 0.420 | 0.912 | 1.00 | 0.000 | 0.392 | 685.67 | 3.513 | 1.338E+05 | 1.338E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.35 | 3.24 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.01 | 112.84 | 0.1162 | 42.37 | 0.40 | 0.94% | 0.947 | 0.55 | 363.51 | 1.80 | 1.10 | 149 | 0.386 | 0.838 | 1.00 | 0.000 | 0.392 | 677.41 | 3.504 | 1.309E+05 | 1.309E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.16 | 2.97 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.04 | 112.68 | 0.1179 | 42.22 | 0.40 | 0.95% | 0.950 | 0.55 | 357.01 | 1.80 | 1.11 | 148 | 0.380 | 0.826 | 1.00 | 0.000 | 0.392 | 677.41 | 3.499 | 1.311E+05 | 1.311E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.11 | 111.99 | 0.1218 | 42.07 | 0.36 | 0.86% | 0.858 | 0.54 | 344.26 | 1.78 | 1.09 | 141 | 0.342 | 0.835 | 0.99 | 0.000 | 0.392 | 659.59 | 3.478 | 1.251E+05 | 1.251E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.15 | 2.96 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.20 | 111.32 | 0.1269 | 43.44 | 0.32 | 0.74% | 0.739 | 0.53 | 341.43 | 1.75 | 1.07 | 136 | 0.315 | 0.684 | 0.99 | 0.000 | 0.392 | 639.67 | 3.457 | 1.184E+05 | 1.184E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 1.76 | 2.43 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.24 | 110.99 | 0.1291 | 43.34 | 0.31 | 0.72% | 0.717 | 0.53 | 334.77 | 1.74 | 1.07 | 134 | 0.304 | 0.660 | 0.99 | 0.000 | 0.392 | 634.30 | 3.447 | 1.167E+05 | 1.167E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 1.70 | 2.34 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.31 | 110.33 | 0.1329 | 42.37 | 0.29 | 0.68% | 0.687 | 0.53 | 317.72 | 1.74 | 1.07 | 129 | 0.281 | 0.684 | 0.99 | 0.000 | 0.392 | 623.01 | 3.426 | 1.133E+05 | 1.133E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 1.77 | 2.43 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.38 | 109.49 | 0.1368 | 40.90 | 0.26 | 0.64% | 0.638 | 0.53 | 298.04 | 1.74 | 1.07 | 123 | 0.252 | 0.614 | 0.99 | 0.000 | 0.392 | 604.54 | 3.400 | 1.075E+05 | 1.075E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 1.58 | 2.18 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.43 | 108.84 | 0.1395 | 38.27 | 0.24 | 0.63% | 0.629 | 0.54 | 273.35 | 1.76 | 1.08 | 116 | 0.227 | 0.552 | 0.99 | 0.000 | 0.392 | 591.00 | 3.380 | 1.033E+05 | 1.033E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.43 | 1.96 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.51 | 107.78 | 0.1438 | 35.53 | 0.21 | 0.59% | 0.593 | 0.54 | 246.07 | 1.78 | 1.09 | 108 | 0.198 | 0.543 | 0.99 | 0.000 | 0.392 | 568.41 | 3.347 | 9.653E+04 | 9.653E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.40 | 1.93 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.59 | 107.06 | 0.1481 | 32.90 | 0.20 | 0.61% | 0.611 | 0.55 | 221.17 | 1.81 | 1.11 | 103 | 0.181 | 0.497 | 0.99 | 0.000 | 0.391 | 560.16 | 3.325 | 9.437E+04 | 9.437E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.28 | 1.76 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.65 | 106.77 | 0.1513 | 31.34 | 0.19 | 0.61% | 0.609 | 0.56 | 206.15 | 1.83 | 1.13 | 99 | 0.170 | 0.529 | 0.99 | 0.000 | 0.391 | 551.48 | 3.316 | 9.172E+04 | 9.172E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.37 | 1.88 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.69 | 106.65 | 0.1534 | 30.26 | 0.19 | 0.63% | 0.631 | 0.56 | 196.23 | 1.85 | 1.14 | 97 | 0.165 | 0.514 | 0.99 | 0.000 | 0.391 | 551.48 | 3.312 | 9.182E+04 | 9.182E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.33 | 1.83 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.77 | 106.45 | 0.1577 | 28.90 | 0.19 | 0.66% | 0.661 | 0.57 | 182.28 | 1.88 | 1.17 | 95 | 0.159 | 0.495 | 0.99 | 0.000 | 0.391 | 551.48 | 3.306 | 9.200E+04 | 9.200E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.28 | 1.76 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.82 | 106.24 | 0.1603 | 28.11 | 0.19 | 0.68% | 0.680 | 0.58 | 174.32 | 1.89 | 1.18 | 93 | 0.155 | 0.484 | 0.99 | 0.000 | 0.391 | 551.48 | 3.299 | 9.218E+04 | 9.218E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.25 | 1.72 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.90 | 105.72 | 0.1646 | 26.75 | 0.18 | 0.67% | 0.677 | 0.58 | 161.55 | 1.91 | 1.20 | 90 | 0.147 | 0.458 | 0.99 | 0.000 | 0.391 | 542.34 | 3.283 | 8.959E+04 | 8.959E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.18 | 1.63 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 2.97 | 105.07 | 0.1682 | 24.99 | 0.17 | 0.68% | 0.685 | 0.59 | 147.54 | 1.94 | 1.23 | 86 | 0.139 | 0.494 | 0.99 | 0.000 | 0.391 | 532.67 | 3.263 | 8.695E+04 | 8.695E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.28 | 1.76 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.03 | 104.08 | 0.1714 | 23.23 | 0.15 | 0.65% | 0.651 | 0.59 | 134.56 | 1.95 | 1.24 | 81 | 0.129 | 0.459 | 0.99 | 0.000 | 0.391 | 511.49 | 3.232 | 8.094E+04 | 8.094E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.19 | 1.63 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.09 | 103.18 | 0.1745 | 21.48 | 0.14 | 0.65% | 0.657 | 0.60 | 122.12 | 1.98 | 1.28 | 77 | 0.122 | 0.506 | 0.99 | 0.000 | 0.391 | 499.82 | 3.204 | 7.796E+04 | 7.796E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.31 | 1.80 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.17 | 102.00 | 0.1785 | 18.94 | 0.12 | 0.63% | 0.640 | 0.61 | 105.08 | 2.02 | 1.33 | 71 | 0.113 | 0.468 | 0.99 | 0.000 | 0.391 | 473.75 | 3.168 | 7.085E+04 | 7.085E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.21 | 1.66 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.23 | 101.08 | 0.1816 | 17.18 | 0.11 | 0.64% | 0.647 | 0.63 | 93.62 | 2.06 | 1.39 | 67 | 0.109 | 0.449 | 0.99 | 0.000 | 0.391 | 459.03 | 3.139 | 6.712E+04 | 6.712E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.16 | 1.60 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.32 | 98.77 | 0.1860 | 14.74 | 0.08 | 0.54% | 0.550 | 0.63 | 78.24 | 2.08 | 1.43 | 59 | 0.100 | 0.485 | 0.99 | 0.000 | 0.391 | 405.16 | 3.067 | 5.352E+04 | 5.352E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.26 | 1.73 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.37 | 97.23 | 0.1884 | 13.08 | 0.07 | 0.54% | 0.543 | 0.65 | 68.41 | 2.12 | 1.50 | 56 | 0.096 | 0.470 | 0.99 | 0.000 | 0.391 | 382.57 | 3.020 | 4.847E+04 | 4.847E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.22 | 1.67 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.41 | 95.66 | 0.1904 | 11.62 | 0.06 | 0.52% | 0.525 | 0.66 | 60.04 | 2.16 | 1.58 | 53 | 0.094 | 0.193 | 0.99 | 0.000 | 0.391 | 356.49 | 2.971 | 4.278E+04 | 4.278E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 0.50 | 0.69 | <= | 3.86 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.49 | 93.17 | 0.1941 | 9.57 | 0.05 | 0.52% | 0.533 | 0.68 | 48.31 | 2.23 | 1.75 | 58 | 0.098 | 0.202 | 0.99 | 0.000 | 0.391 | 325.65 | 2.893 | 3.665E+04 | 3.665E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 0.52 | 0.72 | <= | 3.59 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.58 | 89.88 | 0.1981 | 6.83 | 0.03 | 0.44% | 0.452 | 0.71 | 33.47 | 2.33 | 2.04 | 67 | 0.108 | 0.199 | 0.99 | 0.000 | 0.391 | 239.24 | 2.791 | 2.051E+04 | 2.051E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 0.51 | 0.71 | <= | 3.17 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.62 | 88.70 | 0.1999 | 6.15 | 0.03 | 0.49% | 0.504 | 0.72 | 29.76 | 2.38 | 2.24 | 74 | 0.117 | 0.215 | 0.99 | 0.000 | 0.391 | 239.24 | 2.755 | 2.078E+04 | 2.078E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 0.56 | 0.77 | <= | 2.95 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.71 | 87.42 | 0.2038 | 0.98 | 0.02 | 2.04% | 2.577 | 1.00 | 3.81 | 3.32 | 10.99 | 363 | 4.522 | 4.522 | 0.99 | 0.000 | 0.390 | 170.65 | 2.715 | 1.073E+04 | 1.073E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.76 | 87.42 | 0.2060 | 1.07 | 0.01 | 0.93% | 1.157 | 0.95 | 4.19 | 3.15 | 8.61 | 284 | 2.212 | 2.212 | 0.99 | 0.000 | 0.390 | 53.40 | 2.715 | 1.050E+03 | 1.050E+03 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.84 | 87.42 | 0.2095 | 0.88 | 0.00 | 0.11% | 0.149 | 0.92 | 3.20 | 3.05 | 7.26 | 240 | 1.359 | 1.359 | 0.99 | 0.000 | 0.390 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.90 | 87.42 | 0.2121 | 0.88 | 0.00 | 0.11% | 0.150 | 0.92 | 3.15 | 3.05 | 7.33 | 242 | 1.394 | 1.394 | 0.99 | 0.000 | 0.390 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 3.94 | 87.42 | 0.2139 | 0.88 | 0.00 | 0.11% | 0.150 | 0.92 | 3.11 | 3.05 | 7.37 | 243 | 1.418 | 1.418 | 0.99 | 0.000 | 0.390 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.03 | 87.42 | 0.2178 | 0.68 | 0.01 | 1.47% | 2.164 | 1.00 | 2.12 | 3.51 | 14.22 | 469 | 9.682 | 9.682 | 0.99 | 0.000 | 0.390 | 53.40 | 2.715 | 1.050E+03 | 1.050E+03 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.08 | 87.42 | 0.2200 | 0.59 | 0.02 | 3.39% | 5.406 | 1.00 | 1.68 | 3.79 | 19.94 | 658 | 26.583 | 26.583 | 0.99 | 0.000 | 0.390 | 170.65 | 2.715 | 1.073E+04 | 1.073E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.16 | 87.58 | 0.2235 | 0.59 | 0.05 | 8.47% | 13.643 | 1.00 | 1.64 | 4.02 | 25.51 | 842 | 55.559 | 55.559 | 0.99 | 0.000 | 0.390 | 325.65 | 2.720 | 3.899E+04 | 3.899E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.21 | 89.28 | 0.2257 | 0.78 | 0.06 | 7.69% | 10.825 | 1.00 | 2.46 | 3.82 | 20.63 | 681 | 29.410 | 29.410 | 0.99 | 0.000 | 0.390 | 356.49 | 2.773 | 4.584E+04 | 4.584E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.29 | 91.79 | 0.2294 | 1.27 | 0.07 | 5.51% | 6.727 | 1.00 | 4.54 | 3.48 | 13.72 | 453 | 8.710 | 8.710 | 0.99 | 0.000 | 0.390 | 382.57 | 2.851 | 5.134E+04 | 5.134E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.34 | 94.96 | 0.2318 | 3.03 | 0.08 | 2.64% | 2.859 | 0.90 | 12.07 | 2.97 | 6.43 | 212 | 0.970 | 0.970 | 0.99 | 0.000 | 0.390 | 405.16 | 2.949 | 5.566E+04 | 5.566E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.43 | 97.13 | 0.2362 | 7.03 | 0.09 | 1.28% | 1.325 | 0.77 | 28.77 | 2.54 | 2.99 | 99 | 0.169 | 0.234 | 0.99 | 0.000 | 0.390 | 425.08 | 3.016 | 5.990E+04 | 5.990E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 0.61 | 0.84 | <= | 2.33 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.47 | 98.12 | 0.2381 | 10.54 | 0.09 | 0.85% | 0.874 | 0.71 | 43.26 | 2.33 | 2.05 | 68 | 0.109 | 0.225 | 0.99 | 0.000 | 0.390 | 425.08 | 3.047 | 5.930E+04 | 5.930E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 0.58 | 0.80 | <= | 3.16 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.53 | 99.00 | 0.2411 | 13.37 | 0.09 | 0.67% | 0.686 | 0.67 | 54.45 | 2.21 | 1.69 | 57 | 0.097 | 0.217 | 0.99 | 0.000 | 0.390 | 425.08 | 3.075 | 5.877E+04 | 5.877E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 0.56 | 0.77 | <= | 3.63 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.61 | 100.53 | 0.2451 | 16.20 | 0.10 | 0.62% | 0.627 | 0.65 | 65.09 | 2.13 | 1.52 | 60 | 0.100 | 0.239 | 0.99 | 0.000 | 0.390 | 442.91 | 3.122 | 6.283E+04 | 6.283E+04 | 1.00 | 0.1542 | 0.989 | 0.385 | | 0.62 | 0.85 | <= | 3.50 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.70 | 101.97 | 0.2497 | 18.84 | 0.12 | 0.64% | 0.645 | 0.64 | 74.45 | 2.09 | 1.44 | 64 | 0.104 | 0.432 | 0.99 | 0.000 | 0.390 | 473.75 | 3.167 | 7.087E+04 | 7.087E+04 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.12 | 1.54 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.74 | 102.43 | 0.2518 | 19.18 | 0.13 | 0.68% | 0.687 | 0.64 | 75.18 | 2.10 | 1.46 | 66 | 0.106 | 0.439 | 0.99 | 0.000 | 0.389 | 487.29 | 3.181 | 7.464E+04 | 7.464E+04 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.14 | 1.57 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.81 | 102.82 | 0.2554 | 19.43 | 0.13 | 0.67% | 0.678 | 0.64 | 75.09 | 2.10 | 1.45 | 65 | 0.106 | 0.439 | 0.99 | 0.000 | 0.389 | 487.29 | 3.193 | 7.436E+04 | 7.436E+04 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.14 | 1.57 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.86 | 103.11 | 0.2579 | 19.52 | 0.14 | 0.72% | 0.727 | 0.64 | 74.68 | 2.11 | 1.48 | 67 | 0.108 | 0.446 | 0.99 | 0.000 | 0.389 | 499.82 | 3.202 | 7.802E+04 | 7.802E+04 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.16 | 1.59 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 4.92 | 103.38 | 0.2610 | 19.33 | 0.14 | 0.72% | 0.734 | 0.64 | 73.05 | 2.12 | 1.49 | 67 | 0.107 | 0.444 | 0.99 | 0.000 | 0.389 | 499.82 | 3.211 | 7.781E+04 | 7.781E+04 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.15 | 1.59 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.32 | | |
| 5.01 | 123.05 | 0.2666 | 17.96 | 0.14 | 0.78% | 0.791 | 0.66 | 66.37 | 2.16 | 1.58 | 66 | 0.106 | 0.254 | 0.99 | 0.000 | 0.389 | 499.82 | 3.821 | 6.537E+04 | 2.030E+06 | 31.05 | 0.1542 | 0.868 | 0.338 | | 0.75 | 1.04 | <= | 0.93 | 0.000 | 0.01 | 4.16 | 0.32 | | |
| 5.07 | 122.66 | 0.2703 | 17.08 | 0.14 | 0.82% | 0.833 | 0.67 | 62.20 | 2.19 | 1.65 | 65 | 0.106 | 0.252 | 0.99 | 0.000 | 0.389 | 499.82 | 3.809 | 6.558E+04 | 2.030E+06 | 30.95 | 0.1542 | 0.869 | 0.338 | | 0.75 | 1.03 | <= | 0.89 | 0.000 | 0.01 | 4.16 | 0.31 | | |
| 5.13 | 122.26 | 0.2739 | 16.50 | 0.13 | 0.79% | 0.801 | 0.67 | 59.24 | 2.20 | 1.66 | 63 | 0.104 | 0.246 | 0.99 | 0.000 | 0.389 | 487.29 | 3.797 | 6.254E+04 | 2.030E+06 | 32.46 | 0.1542 | 0.865 | 0.336 | | 0.73 | 1.01 | <= | 0.78 | 0.000 | 0.01 | 4.16 | 0.30 | | |
| 5.19 | 121.71 | 0.2776 | 15.52 | 0.12 | 0.77% | 0.787 | 0.67 | 54.91 | 2.22 | 1.71 | 61 | 0.101 | 0.240 | 0.99 | 0.000 | 0.389 | 473.75 | 3.780 | 5.938E+04 | 2.030E+06 | 34.19 | 0.1542 | 0.860 | 0.335 | | 0.72 | 0.99 | <= | 3.16 | 0.000 | 0.02 | 4.16 | 0.29 | | |
| 5.25 | 120.97 | 0.2812 | 14.64 | 0.11 | 0.75% | 0.766 | 0.68 | 51.06 | 2.24 | 1.76 | 59 | 0.099 | 0.219 | 0.99 | 0.000 | 0.389 | 459.03 | 3.757 | 5.609E+04 | 2.030E+06 | 36.19 | 0.1542 | 0.855 | 0.333 | | 0.66 | 0.90 | <= | 1.52 | 0.000 | 0.01 | 4.16 | 0.27 | | |
| 5.33 | 120.27 | 0.2860 | 14.64 | 0.10 | 0.68% | 0.697 | 0.67 | 50.19 | 2.22 | 1.72 | 57 | 0.097 | 0.214 | 0.99 | 0.000 | 0.389 | 442.91 | 3.735 | 5.252E+04 | 2.030E+06 | 38.65 | 0.1542 | 0.849 | 0.330 | | 0.65 | 0.89 | <= | 3.64 | 0.000 | 0.03 | 4.16 | 0.26 | | |
| 5.39 | 119.93 | 0.2896 | 14.64 | 0.10 | 0.68% | 0.697 | 0.68 | 49.55 | 2.23 | 1.73 | 57 | 0.097 | 0.214 | 0.99 | 0.000 | 0.389 | 442.91 | 3.725 | 5.267E+04 | 2.030E+06 | 38.54 | 0.1542 | 0.849 | 0.330 | | 0.65 | 0.89 | <= | 3.62 | 0.000 | 0.03 | 4.16 | 0.23 | | |
| 5.46 | 120.06 | 0.2938 | 15.52 | 0.10 | 0.64% | 0.657 | 0.67 | 51.82 | 2.20 | 1.66 | 57 | 0.097 | 0.212 | 0.99 | 0.000 | 0.389 | 442.91 | 3.729 | 5.261E+04 | 2.030E+06 | 38.58 | 0.1542 | 0.849 | 0.330 | | 0.64 | 0.88 | <= | 3.65 | 0.000 | 0.03 | 4.16 | 0.20 | | |
| 5.53 | 120.03 | 0.2980 | 16.20 | 0.10 | 0.62% | 0.629 | 0.66 | 53.36 | 2.18 | 1.62 | 57 | 0.097 | 0.226 | 0.99 | 0.000 | 0.389 | 442.91 | 3.728 | 5.262E+04 | 2.030E+06 | 38.58 | 0.1542 | 0.849 | 0.330 | | 0.69 | 0.94 | <= | 2.44 | 0.000 | 0.02 | 4.16 | 0.17 | | |
| 5.59 | 120.05 | 0.3016 | 16.40 | 0.10 | 0.61% | 0.621 | 0.66 | 53.37 | 2.18 | 1.61 | 56 | 0.097 | 0.226 | 0.99 | 0.000 | 0.389 | 442.91 | 3.728 | 5.262E+04 | 2.030E+06 | 38.58 | 0.1542 | 0.849 | 0.330 | | 0.68 | 0.94 | <= | 2.38 | 0.000 | 0.02 | 4.16 | 0.15 | | |
| 5.67 | 120.94 | 0.3064 | 17.18 | 0.11 | 0.64% | 0.652 | 0.66 | 55.06 | 2.17 | 1.60 | 58 | 0.098 | 0.229 | 0.99 | 0.000 | 0.389 | 459.03 | 3.756 | 5.610E+04 | 2.030E+06 | 36.19 | 0.1542 | 0.855 | 0.332 | | 0.69 | 0.95 | <= | 2.45 | 0.000 | 0.02 | 4.16 | 0.13 | | |
| 5.73 | 121.42 | 0.3101 | 17.57 | 0.11 | 0.63% | 0.637 | 0.66 | 55.66 | 2.16 | 1.58 | 58 | 0.098 | 0.228 | 0.99 | 0.000 | 0.389 | 459.03 | 3.771 | 5.588E+04 | 2.030E+06 | 36.33 | 0.1542 | 0.855 | 0.332 | | 0.69 | 0.94 | <= | 2.41 | 0.000 | 0.02 | 4.16 | 0.11 | | |
| 5.81 | 122.14 | 0.3150 | 18.65 | 0.12 | 0.64% | 0.654 | 0.65 | 58.21 | 2.15 | 1.55 | 60 | 0.100 | 0.231 | 0.99 | 0.000 | 0.388 | 473.75 | 3.793 | 5.917E+04 | 2.030E+06 | 34.31 | 0.1542 | 0.860 | 0.334 | | 0.69 | 0.95 | <= | 2.52 | 0.000 | 0.02 | 4.16 | 0.09 | | |
| 5.86 | 122.78 | 0.3180 | 20.01 | 0.13 | 0.65% | 0.660 | 0.65 | 61.92 | 2.13 | 1.51 | 62 | 0.102 | 0.394 | 0.99 | 0.000 | 0.388 | 487.29 | 3.813 | 6.227E+04 | 2.030E+06 | 32.60 | 0.1542 | 0.864 | 0.336 | | 1.17 | 1.61 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 5.95 | 124.06 | 0.3236 | 22.45 | 0.15 | 0.67% | 0.678 | 0.64 | 68.37 | 2.10 | 1.46 | 65 | 0.106 | 0.412 | 0.99 | 0.000 | 0.388 | 511.49 | 3.853 | 6.791E+04 | 2.030E+06 | 29.89 | 0.1542 | 0.871 | 0.338 | | 1.22 | 1.68 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 5.97 | 124.39 | 0.3249 | 23.04 | 0.15 | 0.65% | 0.660 | 0.63 | 69.92 | 2.09 | 1.43 | 65 | 0.106 | 0.414 | 0.99 | 0.000 | 0.388 | 511.49 | 3.863 | 6.773E+04 | 2.030E+06 | 29.97 | 0.1542 | 0.871 | 0.338 | | 1.22 | 1.68 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.04 | 125.22 | 0.3293 | 24.40 | 0.17 | 0.70% | 0.706 | 0.63 | 73.11 | 2.08 | 1.43 | 68 | 0.110 | 0.379 | 0.99 | 0.000 | 0.388 | 532.67 | 3.889 | 7.296E+04 | 2.030E+06 | 27.82 | 0.1542 | 0.877 | 0.340 | | 1.11 | 1.53 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.12 | 125.77 | 0.3343 | 24.89 | 0.18 | 0.72% | 0.733 | 0.63 | 73.46 | 2.09 | 1.43 | 70 | 0.111 | 0.387 | 0.99 | 0.000 | 0.388 | 542.34 | 3.906 | 7.530E+04 | 2.030E+06 | 26.96 | 0.1542 | 0.879 | 0.341 | | 1.13 | 1.56 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.17 | 126.11 | 0.3374 | 24.89 | 0.19 | 0.76% | 0.774 | 0.64 | 72.76 | 2.10 | 1.46 | 71 | 0.113 | 0.393 | 0.99 | 0.000 | 0.388 | 551.48 | 3.916 | 7.765E+04 | 2.030E+06 | 26.14 | 0.1542 | 0.881 | 0.342 | | 1.15 | 1.58 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.26 | 126.99 | 0.3432 | 24.70 | 0.22 | 0.89% | 0.903 | 0.65 | 70.98 | 2.14 | 1.53 | 74 | 0.117 | 0.412 | 0.99 | 0.000 | 0.388 | 576.28 | 3.944 | 8.421E+04 | 2.030E+06 | 24.11 | 0.1542 | 0.886 | 0.344 | | 1.20 | 1.65 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.31 | 127.63 | 0.3463 | 24.70 | 0.24 | 0.97% | 0.985 | 0.66 | 70.32 | 2.16 | 1.57 | 76 | 0.121 | 0.330 | 0.99 | 0.000 | 0.388 | 591.00 | 3.964 | 8.812E+04 | 2.030E+06 | 23.04 | 0.1542 | 0.889 | 0.345 | | 0.96 | 1.32 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.40 | 129.53 | 0.3522 | 25.77 | 0.30 | 1.16% | 1.180 | 0.67 | 72.17 | 2.19 | 1.64 | 83 | 0.132 | 0.359 | 0.98 | 0.000 | 0.388 | 628.75 | 4.023 | 9.827E+04 | 2.030E+06 | 20.66 | 0.1542 | 0.895 | 0.347 | | 1.04 | 1.42 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.45 | 131.19 | 0.3555 | 28.02 | 0.37 | 1.32% | 1.337 | 0.67 | 77.83 | 2.20 | 1.66 | 90 | 0.148 | 0.470 | 0.98 | 0.000 | 0.388 | 664.22 | 4.074 | 1.083E+05 | 2.030E+06 | 18.75 | 0.1542 | 0.900 | 0.349 | | 1.35 | 1.85 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.51 | 133.43 | 0.3595 | 31.82 | 0.48 | 1.51% | 1.526 | 0.67 | 87.52 | 2.19 | 1.64 | 101 | 0.175 | 0.502 | 0.98 | 0.000 | 0.388 | 708.25 | 4.144 | 1.211E+05 | 2.030E+06 | 16.77 | 0.1542 | 0.905 | 0.351 | | 1.43 | 1.97 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.58 | 135.33 | 0.3642 | 36.61 | 0.59 | 1.61% | 1.628 | 0.66 | 99.52 | 2.17 | 1.59 | 111 | 0.206 | 0.535 | 0.98 | 0.000 | 0.388 | 743.16 | 4.203 | 1.314E+05 | 2.030E+06 | 15.45 | 0.1542 | 0.908 | 0.352 | | 1.52 | 2.09 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.63 | 136.88 | 0.3676 | 40.41 | 0.71 | 1.76% | 1.773 | 0.66 | 108.92 | 2.16 | 1.58 | 121 | 0.243 | 0.574 | 0.98 | 0.000 | 0.388 | 774.48 | 4.251 | 1.411E+05 | 2.030E+06 | 14.39 | 0.1542 | 0.911 | 0.353 | | 1.62 | 2.23 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.71 | 138.64 | 0.3732 | 41.78 | 0.89 | 2.13% | 2.149 | 0.67 | 110.96 | 2.21 | 1.69 | 134 | 0.302 | 0.653 | 0.98 | 0.000 | 0.388 | 812.70 | 4.306 | 1.534E+05 | 2.030E+06 | 13.23 | 0.1542 | 0.914 | 0.354 | | 1.84 | 2.54 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.78 | 139.12 | 0.3780 | 40.22 | 0.96 | 2.39% | 2.410 | 0.68 | 105.39 | 2.25 | 1.81 | 139 | 0.328 | 0.714 | 0.98 | 0.000 | 0.388 | 825.51 | 4.321 | 1.577E+05 | 2.030E+06 | 12.87 | 0.1542 | 0.915 | 0.355 | | 2.01 | 2.77 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.84 | 136.74 | 0.3821 | 38.46 | 0.71 | 1.85% | 1.865 | 0.67 | 99.65 | 2.20 | 1.66 | 119 | 0.236 | 0.569 | 0.98 | 0.000 | 0.388 | 774.48 | 4.247 | 1.412E+05 | 2.030E+06 | 14.37 | 0.1542 | 0.911 | 0.353 | | 1.61 | 2.22 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.93 | 133.30 | 0.3881 | 37.88 | 0.44 | 1.16% | 1.174 | 0.63 | 96.60 | 2.09 | 1.43 | 96 | 0.164 | 0.438 | 0.98 | 0.000 | 0.387 | 693.54 | 4.140 | 1.162E+05 | 2.030E+06 | 17.47 | 0.1542 | 0.903 | 0.350 | | 1.25 | 1.72 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 6.98 | 133.35 | 0.3915 | 39.44 | 0.44 | 1.12% | 1.127 | 0.63 | 99.75 | 2.07 | 1.40 | 97 | 0.165 | 0.402 | 0.98 | 0.000 | 0.387 | 693.54 | 4.141 | 1.161E+05 | 2.030E+06 | 17.48 | 0.1542 | 0.903 | 0.350 | | 1.15 | 1.58 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.04 | 133.84 | 0.3955 | 48.52 | 0.44 | 0.91% | 0.914 | 0.59 | 121.69 | 1.95 | 1.24 | 102 | 0.179 | 0.400 | 0.98 | 0.000 | 0.387 | 693.54 | 4.157 | 1.157E+05 | 2.030E+06 | 17.54 | 0.1542 | 0.903 | 0.350 | | 1.14 | 1.57 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.11 | 134.57 | 0.4002 | 59.16 | 0.45 | 0.76% | 0.766 | 0.56 | 146.83 | 1.85 | 1.15 | 111 | 0.206 | 0.385 | 0.98 | 0.000 | 0.387 | 697.34 | 4.179 | 1.164E+05 | 2.030E+06 | 17.45 | 0.1542 | 0.903 | 0.350 | | 1.10 | 1.51 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.16 | 134.96 | 0.4036 | 61.21 | 0.47 | 0.77% | 0.773 | 0.56 | 150.67 | 1.84 | 1.14 | 113 | 0.215 | 0.403 | 0.98 | 0.000 | 0.387 | 704.69 | 4.191 | 1.185E+05 | 2.030E+06 | 17.13 | 0.1542 | 0.904 | 0.350 | | 1.15 | 1.58 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.24 | 135.76 | 0.4090 | 57.50 | 0.54 | 0.94% | 0.946 | 0.58 | 139.59 | 1.91 | 1.20 | 114 | 0.216 | 0.409 | 0.98 | 0.000 | 0.387 | 728.18 | 4.216 | 1.258E+05 | 2.030E+06 | 16.14 | 0.1542 | 0.907 | 0.351 | | 1.17 | 1.60 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.30 | 136.39 | 0.4131 | 55.35 | 0.60 | 1.08% | 1.092 | 0.60 | 132.99 | 1.96 | 1.26 | 115 | 0.222 | 0.422 | 0.98 | 0.000 | 0.387 | 746.00 | 4.236 | 1.314E+05 | 2.030E+06 | 15.45 | 0.1542 | 0.908 | 0.352 | | 1.20 | 1.65 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.37 | 137.61 | 0.4179 | 50.76 | 0.72 | 1.42% | 1.430 | 0.63 | 120.46 | 2.06 | 1.39 | 119 | 0.238 | 0.456 | 0.98 | 0.000 | 0.387 | 776.84 | 4.274 | 1.412E+05 | 2.030E+06 | 14.38 | 0.1542 | 0.911 | 0.353 | | 1.29 | 1.78 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.44 | 138.45 | 0.4227 | 45.00 | 0.85 | 1.89% | 1.907 | 0.66 | 105.45 | 2.18 | 1.62 | 126 | 0.264 | 0.560 | 0.98 | 0.000 | 0.387 | 804.92 | 4.300 | 1.507E+05 | 2.030E+06 | 13.47 | 0.1542 | 0.914 | 0.353 | | 1.58 | 2.18 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.51 | 138.85 | 0.4276 | 39.05 | 0.94 | 2.41% | 2.434 | 0.69 | 90.32 | 2.29 | 1.92 | 132 | 0.294 | 0.686 | 0.98 | 0.000 | 0.387 | 821.95 | 4.312 | 1.567E+05 | 2.030E+06 | 12.96 | 0.1542 | 0.915 | 0.354 | | 1.94 | 2.67 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.55 | 138.94 | 0.4304 | 35.05 | 0.98 | 2.80% | 2.831 | 0.72 | 80.44 | 2.37 | 2.18 | 136 | 0.316 | 0.810 | 0.98 | 0.000 | 0.387 | 829.00 | 4.315 | 1.593E+05 | 2.030E+06 | 12.75 | 0.1542 | 0.915 | 0.354 | | 2.29 | 3.15 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.63 | 138.45 | 0.4359 | 28.99 | 0.98 | 3.38% | 3.432 | 0.75 | 65.50 | 2.48 | 2.66 | 140 | 0.336 | 0.952 | 0.98 | 0.000 | 0.387 | 829.00 | 4.300 | 1.598E+05 | 2.030E+06 | 12.70 | 0.1542 | 0.916 | 0.354 | | 2.69 | 3.70 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.68 | 138.04 | 0.4394 | 25.97 | 0.96 | 3.70% | 3.760 | 0.77 | 58.11 | 2.54 | 2.96 | 141 | 0.341 | 0.434 | 0.98 | 0.000 | 0.387 | 825.51 | 4.287 | 1.590E+05 | 2.030E+06 | 12.77 | 0.1542 | 0.915 | 0.354 | | 1.23 | 1.69 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.74 | 137.60 | 0.4435 | 22.75 | 0.94 | 4.13% | 4.214 | 0.79 | 50.30 | 2.61 | 3.39 | 143 | 0.349 | 0.446 | 0.98 | 0.000 | 0.387 | 821.95 | 4.273 | 1.581E+05 | 2.030E+06 | 12.84 | 0.1542 | 0.915 | 0.354 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.82 | 137.14 | 0.4490 | 20.30 | 0.92 | 4.53% | 4.635 | 0.81 | 44.21 | 2.67 | 3.80 | 143 | 0.354 | 0.464 | 0.98 | 0.000 | 0.387 | 818.31 | 4.259 | 1.572E+05 | 2.030E+06 | 12.91 | 0.1542 | 0.915 | 0.354 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.90 | 136.80 | 0.4545 | 19.43 | 0.89 | 4.58% | 4.690 | 0.82 | 41.75 | 2.69 | 3.94 | 141 | 0.341 | 0.448 | 0.98 | 0.000 | 0.387 | 812.70 | 4.248 | 1.555E+05 | 2.030E+06 | 13.06 | 0.1542 | 0.915 | 0.354 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 7.95 | 136.82 | 0.4579 | 20.50 | 0.88 | 4.29% | 4.391 | 0.81 | 43.77 | 2.66 | 3.71 | 138 | 0.327 | 0.429 | 0.98 | 0.000 | 0.386 | 810.79 | 4.249 | 1.547E+05 | 2.030E+06 | 13.12 | 0.1542 | 0.914 | 0.353 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.02 | 137.12 | 0.4627 | 24.01 | 0.87 | 3.62% | 3.695 | 0.78 | 50.89 | 2.57 | 3.13 | 133 | 0.299 | 0.383 | 0.98 | 0.000 | 0.386 | 808.86 | 4.258 | 1.536E+05 | 2.030E+06 | 13.21 | 0.1542 | 0.914 | 0.353 | | 1.08 | 1.49 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.08 | 137.48 | 0.4668 | 26.26 | 0.89 | 3.39% | 3.451 | 0.76 | 55.25 | 2.52 | 2.89 | 132 | 0.294 | 0.378 | 0.98 | 0.000 | 0.386 | 812.70 | 4.270 | 1.547E+05 | 2.030E+06 | 13.12 | 0.1542 | 0.914 | 0.353 | | 1.07 | 1.47 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.15 | 138.01 | 0.4716 | 28.70 | 0.92 | 3.21% | 3.259 | 0.75 | 59.85 | 2.48 | 2.68 | 132 | 0.294 | 0.866 | 0.98 | 0.000 | 0.386 | 818.31 | 4.286 | 1.562E+05 | 2.030E+06 | 12.99 | 0.1542 | 0.915 | 0.353 | | 2.45 | 3.37 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.20 | 138.15 | 0.4751 | 29.19 | 0.94 | 3.22% | 3.274 | 0.75 | 60.44 | 2.48 | 2.67 | 133 | 0.299 | 0.883 | 0.98 | 0.000 | 0.386 | 821.95 | 4.290 | 1.575E+05 | 2.030E+06 | 12.89 | 0.1542 | 0.915 | 0.353 | | 2.50 | 3.44 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.27 | 138.08 | 0.4799 | 27.53 | 0.95 | 3.45% | 3.512 | 0.76 | 56.36 | 2.52 | 2.87 | 135 | 0.308 | 0.386 | 0.98 | 0.000 | 0.386 | 823.74 | 4.288 | 1.582E+05 | 2.030E+06 | 12.83 | 0.1542 | 0.915 | 0.353 | | 1.09 | 1.50 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.36 | 137.86 | 0.4861 | 25.19 | 0.95 | 3.77% | 3.846 | 0.78 | 50.82 | 2.57 | 3.18 | 137 | 0.317 | 0.409 | 0.98 | 0.000 | 0.386 | 823.74 | 4.281 | 1.585E+05 | 2.030E+06 | 12.81 | 0.1542 | 0.915 | 0.353 | | 1.16 | 1.59 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.43 | 137.65 | 0.4909 | 23.62 | 0.94 | 3.98% | 4.064 | 0.79 | 47.11 | 2.61 | 3.40 | 137 | 0.319 | 0.412 | 0.98 | 0.000 | 0.386 | 821.95 | 4.275 | 1.580E+05 | 2.030E+06 | 12.84 | 0.1542 | 0.915 | 0.353 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.49 | 137.36 | 0.4951 | 21.38 | 0.93 | 4.35% | 4.453 | 0.81 | 42.19 | 2.67 | 3.78 | 138 | 0.326 | 0.432 | 0.98 | 0.000 | 0.386 | 820.14 | 4.266 | 1.577E+05 | 2.030E+06 | 12.87 | 0.1542 | 0.915 | 0.353 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.53 | 137.24 | 0.4978 | 20.79 | 0.93 | 4.47% | 4.583 | 0.81 | 40.76 | 2.69 | 3.91 | 139 | 0.329 | 0.435 | 0.98 | 0.000 | 0.386 | 820.14 | 4.262 | 1.578E+05 | 2.030E+06 | 12.86 | 0.1542 | 0.915 | 0.353 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.62 | 136.88 | 0.5040 | 20.30 | 0.89 | 4.38% | 4.496 | 0.82 | 39.28 | 2.69 | 3.94 | 135 | 0.311 | 0.412 | 0.98 | 0.000 | 0.386 | 812.70 | 4.251 | 1.554E+05 | 2.030E+06 | 13.07 | 0.1542 | 0.915 | 0.353 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.69 | 136.58 | 0.5088 | 20.40 | 0.85 | 4.17% | 4.273 | 0.81 | 39.10 | 2.68 | 3.84 | 131 | 0.291 | 0.385 | 0.98 | 0.000 | 0.386 | 804.92 | 4.242 | 1.527E+05 | 2.030E+06 | 13.29 | 0.1542 | 0.914 | 0.353 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.76 | 136.50 | 0.5135 | 21.87 | 0.82 | 3.75% | 3.840 | 0.80 | 41.59 | 2.63 | 3.51 | 127 | 0.269 | 0.357 | 0.98 | 0.000 | 0.386 | 798.84 | 4.239 | 1.505E+05 | 2.030E+06 | 13.48 | 0.1542 | 0.914 | 0.352 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.80 | 136.42 | 0.5163 | 22.75 | 0.80 | 3.52% | 3.598 | 0.79 | 43.07 | 2.60 | 3.33 | 124 | 0.256 | 0.340 | 0.98 | 0.000 | 0.386 | 794.67 | 4.237 | 1.491E+05 | 2.030E+06 | 13.62 | 0.1542 | 0.913 | 0.352 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.07 | | |
| 8.88 | 136.29 | 0.5217 | 24.31 | 0.77 | 3.17% | 3.237 | 0.77 | 45.60 | 2.55 | 3.06 | 119 | 0.238 | 0.309 | 0.98 | 0.000 | 0.386 | 788.20 | 4.233 | 1.468E+05 | 2.030E+06 | 13.83 | 0.1542 | 0.913 | 0.352 | | 0.88 | 1.21 | <= | 0.26 | 0.000 | 0.00 | 4.16 | 0.07 | 8.80 | 8.88 |
| 8.93 | 136.09 | 0.5251 | 24.60 | 0.75 | 3.05% | 3.115 | 0.77 | 45.85 | 2.54 | 2.99 | 117 | 0.229 | 0.298 | 0.98 | 0.000 | 0.386 | 783.75 | 4.226 | 1.453E+05 | 2.030E+06 | 13.97 | 0.1542 | 0.912 | 0.352 | | 0.85 | 1.17 | <= | 0.45 | 0.000 | 0.00 | 4.16 | 0.06 | 8.88 | 8.93 |
| 9.00 | 135.62 | 0.5299 | 23.62 | 0.71 | 3.01% | 3.075 | 0.77 | 43.58 | 2.55 | 3.05 | 114 | 0.218 | 0.284 | 0.98 | 0.000 | 0.385 | 774.48 | 4.212 | 1.424E+05 | 2.030E+06 | 14.25 | 0.1542 | 0.912 | 0.351 | | 0.81 | 1.11 | <= | 0.38 | 0.000 | 0.00 | 4.16 | 0.06 | 8.93 | 9.00 |
| 9.06 | 135.14 | 0.5339 | 22.26 | 0.68 | 3.05% | 3.130 | 0.78 | 40.69 | 2.58 | 3.19 | 112 | 0.212 | 0.282 | 0.98 | 0.000 | 0.385 | 767.17 | 4.197 | 1.402E+05 | 2.030E+06 | 14.48 | 0.1542 | 0.911 | 0.351 | | 0.80 | 1.10 | <= | 0.37 | 0.000 | 0.00 | 4.16 | 0.06 | 9.00 | 9.06 |
| 9.16 | 127.18 | 0.5403 | 20.99 | 0.23 | 1.10% | 1.125 | 0.71 | 37.85 | 2.35 | 2.11 | 70 | 0.111 | 0.265 | 0.98 | 0.000 | 0.385 | 583.80 | 3.950 | 8.629E+04 | 2.030E+06 | 23.53 | 0.1542 | 0.888 | 0.342 | | 0.77 | 1.06 | <= | 1.04 | 0.000 | 0.01 | 4.16 | 0.06 | 9.06 | 9.16 |
| 9.20 | 125.02 | 0.5428 | 20.40 | 0.18 | 0.88% | 0.906 | 0.70 | 36.58 | 2.31 | 1.99 | 66 | 0.106 | 0.240 | 0.98 | 0.000 | 0.385 | 542.34 | 3.883 | 7.576E+04 | 2.030E+06 | 26.80 | 0.1542 | 0.879 | 0.339 | | 0.71 | 0.97 | <= | 2.72 | 0.000 | 0.01 | 4.16 | 0.04 | 9.16 | 9.20 |
| 9.27 | 126.69 | 0.5472 | 19.43 | 0.22 | 1.13% | 1.165 | 0.72 | 34.51 | 2.39 | 2.25 | 74 | 0.118 | 0.266 | 0.98 | 0.000 | 0.385 | 576.28 | 3.934 | 8.441E+04 | 2.030E+06 | 24.05 | 0.1542 | 0.886 | 0.341 | | 0.78 | 1.07 | <= | 1.02 | 0.000 | 0.01 | 4.16 | 0.03 | 9.20 | 9.27 |
| 9.34 | 127.56 | 0.5517 | 18.16 | 0.26 | 1.43% | 1.477 | 0.75 | 31.92 | 2.46 | 2.60 | 86 | 0.138 | 0.311 | 0.98 | 0.000 | 0.385 | 604.54 | 3.962 | 9.226E+04 | 2.030E+06 | 22.00 | 0.1542 | 0.892 | 0.343 | | 0.91 | 1.25 | <= | 0.38 | 0.000 | 0.00 | 4.16 | 0.02 | 9.27 | 9.34 |
| 9.43 | 127.89 | 0.5574 | 16.20 | 0.28 | 1.73% | 1.790 | 0.77 | 28.06 | 2.55 | 3.04 | 100 | 0.174 | 0.239 | 0.98 | 0.000 | 0.385 | 617.08 | 3.972 | 9.587E+04 | 2.030E+06 | 21.17 | 0.1542 | 0.894 | 0.344 | | 0.70 | 0.96 | <= | 1.68 | 0.000 | 0.02 | 4.16 | 0.02 | 9.34 | 9.43 |
| 9.46 | 127.36 | 0.5593 | 12.10 | 0.29 | 2.40% | 2.513 | 0.83 | 20.63 | 2.73 | 4.25 | 140 | 0.336 | 0.465 | 0.98 | 0.000 | 0.385 | 623.01 | 3.955 | 9.813E+04 | 2.030E+06 | 20.69 | 0.1542 | 0.895 | 0.345 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 9.52 | 127.88 | 0.5632 | 13.08 | 0.30 | 2.29% | 2.397 | 0.82 | 22.23 | 2.70 | 3.98 | 131 | 0.290 | 0.402 | 0.98 | 0.000 | 0.385 | 628.75 | 3.971 | 9.954E+04 | 2.030E+06 | 20.39 | 0.1542 | 0.896 | 0.345 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 9.60 | 128.09 | 0.5683 | 12.30 | 0.32 | 2.60% | 2.728 | 0.83 | 20.64 | 2.75 | 4.39 | 145 | 0.364 | 0.503 | 0.98 | 0.000 | 0.385 | 639.67 | 3.978 | 1.029E+05 | 2.030E+06 | 19.74 | 0.1542 | 0.897 | 0.345 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 9.65 | 128.09 | 0.5715 | 11.23 | 0.33 | 2.94% | 3.096 | 0.85 | 18.65 | 2.82 | 4.93 | 163 | 0.480 | 0.664 | 0.98 | 0.000 | 0.385 | 644.87 | 3.978 | 1.045E+05 | 2.030E+06 | 19.42 | 0.1542 | 0.898 | 0.346 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 9.72 | 127.39 | 0.5760 | 10.45 | 0.30 | 2.87% | 3.038 | 0.86 | 17.14 | 2.84 | 5.13 | 169 | 0.530 | 0.530 | 0.98 | 0.000 | 0.385 | 628.75 | 3.956 | 9.992E+04 | 2.030E+06 | 20.32 | 0.1542 | 0.896 | 0.345 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 9.80 | 126.63 | 0.5810 | 9.86 | 0.28 | 2.84% | 3.018 | 0.87 | 15.97 | 2.86 | 5.32 | 176 | 0.583 | 0.583 | 0.98 | 0.000 | 0.385 | 617.08 | 3.933 | 9.683E+04 | 2.030E+06 | 20.97 | 0.1542 | 0.894 | 0.344 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 9.87 | 126.19 | 0.5854 | 9.37 | 0.27 | 2.88% | 3.074 | 0.87 | 15.01 | 2.88 | 5.55 | 183 | 0.652 | 0.652 | 0.98 | 0.000 | 0.385 | 610.93 | 3.919 | 9.524E+04 | 2.030E+06 | 21.32 | 0.1542 | 0.893 | 0.344 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 9.91 | 126.17 | 0.5880 | 9.18 | 0.27 | 2.94% | 3.142 | 0.88 | 14.61 | 2.90 | 5.69 | 188 | 0.695 | 0.695 | 0.98 | 0.000 | 0.385 | 610.93 | 3.918 | 9.525E+04 | 2.030E+06 | 21.31 | 0.1542 | 0.893 | 0.344 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.00 | 125.91 | 0.5936 | 8.69 | 0.26 | 2.99% | 3.211 | 0.89 | 13.64 | 2.93 | 5.96 | 197 | 0.789 | 0.789 | 0.98 | 0.000 | 0.385 | 604.54 | 3.910 | 9.346E+04 | 2.030E+06 | 21.72 | 0.1542 | 0.892 | 0.343 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.05 | 125.89 | 0.5968 | 8.49 | 0.26 | 3.06% | 3.294 | 0.89 | 13.26 | 2.94 | 6.12 | 202 | 0.846 | 0.846 | 0.98 | 0.002 | 0.386 | 604.54 | 3.910 | 9.348E+04 | 2.030E+06 | 21.72 | 0.1542 | 0.892 | 0.344 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.13 | 126.27 | 0.6018 | 8.49 | 0.28 | 3.30% | 3.550 | 0.90 | 13.20 | 2.96 | 6.33 | 209 | 0.927 | 0.927 | 0.98 | 0.004 | 0.387 | 617.08 | 3.921 | 9.710E+04 | 2.030E+06 | 20.91 | 0.1542 | 0.894 | 0.346 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.18 | 126.80 | 0.6050 | 8.88 | 0.30 | 3.38% | 3.625 | 0.89 | 13.81 | 2.95 | 6.22 | 205 | 0.886 | 0.886 | 0.98 | 0.006 | 0.388 | 628.75 | 3.938 | 1.004E+05 | 2.030E+06 | 20.22 | 0.1542 | 0.896 | 0.348 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.24 | 127.04 | 0.6088 | 9.37 | 0.30 | 3.20% | 3.424 | 0.88 | 14.57 | 2.92 | 5.90 | 195 | 0.765 | 0.765 | 0.98 | 0.007 | 0.389 | 628.75 | 3.945 | 1.002E+05 | 2.030E+06 | 20.26 | 0.1542 | 0.896 | 0.349 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.31 | 127.57 | 0.6133 | 9.86 | 0.32 | 3.25% | 3.461 | 0.88 | 15.32 | 2.91 | 5.76 | 190 | 0.718 | 0.718 | 0.98 | 0.010 | 0.390 | 639.67 | 3.962 | 1.033E+05 | 2.030E+06 | 19.66 | 0.1542 | 0.898 | 0.350 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.37 | 127.75 | 0.6171 | 10.05 | 0.32 | 3.18% | 3.392 | 0.88 | 15.58 | 2.90 | 5.65 | 187 | 0.684 | 0.684 | 0.98 | 0.012 | 0.392 | 639.67 | 3.967 | 1.031E+05 | 2.030E+06 | 19.68 | 0.1542 | 0.898 | 0.351 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.45 | 127.73 | 0.6222 | 10.25 | 0.32 | 3.12% | 3.324 | 0.87 | 15.83 | 2.88 | 5.55 | 183 | 0.652 | 0.652 | 0.98 | 0.014 | 0.393 | 639.67 | 3.967 | 1.031E+05 | 2.030E+06 | 19.68 | 0.1542 | 0.898 | 0.353 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.54 | 127.58 | 0.6280 | 10.35 | 0.31 | 3.00% | 3.189 | 0.87 | 15.91 | 2.87 | 5.44 | 179 | 0.617 | 0.617 | 0.98 | 0.017 | 0.395 | 634.30 | 3.962 | 1.015E+05 | 2.030E+06 | 19.99 | 0.1542 | 0.897 | 0.354 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.57 | 127.72 | 0.6299 | 10.25 | 0.32 | 3.12% | 3.326 | 0.87 | 15.72 | 2.89 | 5.57 | 184 | 0.659 | 0.659 | 0.97 | 0.018 | 0.395 | 639.67 | 3.966 | 1.032E+05 | 2.030E+06 | 19.68 | 0.1542 | 0.898 | 0.355 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.67 | 128.58 | 0.6363 | 10.74 | 0.35 | 3.26% | 3.464 | 0.87 | 16.42 | 2.88 | 5.53 | 183 | 0.646 | 0.646 | 0.97 | 0.021 | 0.397 | 654.82 | 3.993 | 1.074E+05 | 2.030E+06 | 18.90 | 0.1542 | 0.900 | 0.357 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.70 | 128.89 | 0.6382 | 10.93 | 0.37 | 3.39% | 3.595 | 0.87 | 16.70 | 2.89 | 5.57 | 184 | 0.657 | 0.657 | 0.97 | 0.022 | 0.398 | 664.22 | 4.003 | 1.102E+05 | 2.030E+06 | 18.42 | 0.1542 | 0.901 | 0.358 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.80 | 129.43 | 0.6447 | 11.71 | 0.39 | 3.33% | 3.525 | 0.87 | 17.85 | 2.86 | 5.31 | 175 | 0.582 | 0.582 | 0.97 | 0.025 | 0.399 | 673.13 | 4.020 | 1.127E+05 | 2.030E+06 | 18.01 | 0.1542 | 0.902 | 0.360 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.83 | 129.39 | 0.6466 | 11.71 | 0.38 | 3.25% | 3.435 | 0.86 | 17.82 | 2.85 | 5.26 | 174 | 0.566 | 0.566 | 0.97 | 0.026 | 0.400 | 668.74 | 4.018 | 1.113E+05 | 2.030E+06 | 18.24 | 0.1542 | 0.901 | 0.360 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.90 | 129.47 | 0.6512 | 11.81 | 0.39 | 3.30% | 3.495 | 0.86 | 17.91 | 2.86 | 5.28 | 174 | 0.573 | 0.573 | 0.97 | 0.028 | 0.401 | 673.13 | 4.021 | 1.127E+05 | 2.030E+06 | 18.01 | 0.1542 | 0.902 | 0.362 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 10.98 | 129.78 | 0.6564 | 11.81 | 0.40 | 3.39% | 3.586 | 0.87 | 17.82 | 2.86 | 5.36 | 177 | 0.594 | 0.594 | 0.97 | 0.031 | 0.402 | 677.41 | 4.030 | 1.139E+05 | 2.030E+06 | 17.83 | 0.1542 | 0.902 | 0.363 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 11.03 | 130.02 | 0.6596 | 11.81 | 0.42 | 3.56% | 3.767 | 0.87 | 17.77 | 2.88 | 5.48 | 181 | 0.631 | 0.631 | 0.97 | 0.032 | 0.403 | 685.67 | 4.038 | 1.164E+05 | 2.030E+06 | 17.44 | 0.1542 | 0.903 | 0.364 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 11.12 | 130.94 | 0.6655 | 12.30 | 0.47 | 3.82% | 4.040 | 0.87 | 18.45 | 2.88 | 5.54 | 183 | 0.648 | 0.648 | 0.97 | 0.035 | 0.405 | 704.69 | 4.066 | 1.221E+05 | 2.030E+06 | 16.62 | 0.1542 | 0.905 | 0.366 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 11.16 | 131.45 | 0.6681 | 12.40 | 0.50 | 4.03% | 4.262 | 0.88 | 18.56 | 2.90 | 5.66 | 187 | 0.685 | 0.685 | 0.97 | 0.036 | 0.405 | 715.16 | 4.082 | 1.253E+05 | 2.030E+06 | 16.20 | 0.1542 | 0.907 | 0.368 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 11.23 | 132.07 | 0.6728 | 13.67 | 0.53 | 3.88% | 4.078 | 0.86 | 20.49 | 2.85 | 5.25 | 173 | 0.563 | 0.563 | 0.97 | 0.038 | 0.407 | 725.02 | 4.102 | 1.282E+05 | 2.030E+06 | 15.84 | 0.1542 | 0.907 | 0.369 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 11.30 | 132.42 | 0.6774 | 13.57 | 0.55 | 4.05% | 4.266 | 0.87 | 20.24 | 2.87 | 5.39 | 178 | 0.604 | 0.604 | 0.97 | 0.041 | 0.408 | 731.28 | 4.112 | 1.300E+05 | 2.030E+06 | 15.61 | 0.1542 | 0.908 | 0.370 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 11.37 | 131.26 | 0.6820 | 14.06 | 0.47 | 3.34% | 3.513 | 0.85 | 20.93 | 2.81 | 4.84 | 160 | 0.458 | 0.632 | 0.97 | 0.043 | 0.409 | 704.69 | 4.076 | 1.218E+05 | 2.030E+06 | 16.66 | 0.1542 | 0.905 | 0.370 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.16 | 0.00 | | |
| 11.44 | 122.01 | 0.6863 | 15.52 | 0.13 | 0.84% | 0.876 | 0.74 | 23.13 | 2.45 | 2.54 | 84 | 0.135 | 0.283 | 0.97 | 0.045 | 0.410 | 487.29 | 3.789 | 6.267E+04 | 2.030E+06 | 32.39 | 0.1542 | 0.865 | 0.355 | | 0.80 | 1.10 | <= | 1.02 | 0.009 | 0.00 | 4.16 | 0.00 | 11.37 | 11.44 |
| 11.52 | 123.91 | 0.6912 | 14.84 | 0.17 | 1.15% | 1.202 | 0.77 | 21.98 | 2.53 | 2.95 | 97 | 0.166 | 0.230 | 0.97 | 0.047 | 0.411 | 532.67 | 3.848 | 7.373E+04 | 2.030E+06 | 27.53 | 0.1542 | 0.877 | 0.361 | | 0.64 | 0.88 | <= | 2.36 | 0.023 | 0.00 | 4.15 | 0.00 | 11.44 | 11.52 |
| 11.57 | 124.95 | 0.6943 | 15.23 | 0.19 | 1.25% | 1.307 | 0.77 | 22.52 | 2.54 | 3.00 | 99 | 0.170 | 0.235 | 0.97 | 0.049 | 0.412 | 551.48 | 3.880 | 7.838E+04 | 2.030E+06 | 25.90 | 0.1542 | 0.882 | 0.363 | | 0.65 | 0.89 | <= | 2.32 | 0.014 | 0.00 | 4.13 | 0.00 | 11.52 | 11.57 |
| 11.64 | 127.07 | 0.6988 | 16.30 | 0.25 | 1.53% | 1.602 | 0.78 | 24.09 | 2.57 | 3.12 | 103 | 0.182 | 0.251 | 0.97 | 0.051 | 0.413 | 597.91 | 3.946 | 9.059E+04 | 2.030E+06 | 22.41 | 0.1542 | 0.891 | 0.368 | | 0.68 | 0.94 | <= | 1.39 | 0.012 | 0.00 | 4.11 | 0.00 | 11.57 | 11.64 |
| 11.70 | 129.40 | 0.7027 | 17.18 | 0.34 | 1.98% | 2.063 | 0.79 | 25.36 | 2.61 | 3.38 | 111 | 0.209 | 0.288 | 0.97 | 0.053 | 0.414 | 649.92 | 4.019 | 1.051E+05 | 2.030E+06 | 19.31 | 0.1542 | 0.899 | 0.372 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 4.10 | 0.00 | | |

**LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA** — **TEST LOCATION:** CPT-3

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38
Groundwater Level: 10 feet | Accleration: 0.606 g's

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A ($ft^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000
Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00
Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | $V_s$ [b] (ft/sec) | ρ (lb-$sec^2$)/$ft^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.78 | 131.34 | 0.7079 | 16.20 | 0.45 | 2.78% | 2.905 | 0.82 | 23.75 | 2.71 | 4.11 | 136 | 0.311 | 0.426 | 0.97 | 0.056 | 0.415 | 697.34 | 4.079 | 1.192E+05 | 2.030E+06 | 17.03 | 0.1542 | 0.904 | 0.376 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.10 | 0.00 | | |
| 11.83 | 132.59 | 0.7112 | 16.11 | 0.53 | 3.29% | 3.442 | 0.84 | 23.54 | 2.76 | 4.47 | 147 | 0.378 | 0.518 | 0.97 | 0.057 | 0.416 | 725.02 | 4.118 | 1.277E+05 | 2.030E+06 | 15.90 | 0.1542 | 0.907 | 0.378 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.10 | 0.00 | | |
| 11.88 | 133.76 | 0.7146 | 17.86 | 0.60 | 3.36% | 3.499 | 0.83 | 26.14 | 2.73 | 4.24 | 140 | 0.335 | 0.458 | 0.97 | 0.059 | 0.417 | 746.00 | 4.154 | 1.340E+05 | 2.030E+06 | 15.15 | 0.1542 | 0.909 | 0.379 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.10 | 0.00 | | |
| 11.97 | 134.96 | 0.7207 | 21.09 | 0.67 | 3.18% | 3.289 | 0.81 | 30.90 | 2.66 | 3.73 | 123 | 0.254 | 0.343 | 0.97 | 0.061 | 0.418 | 764.67 | 4.191 | 1.395E+05 | 2.030E+06 | 14.55 | 0.1542 | 0.911 | 0.381 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.10 | 0.00 | | |
| 12.01 | 135.55 | 0.7234 | 23.43 | 0.71 | 3.03% | 3.127 | 0.79 | 34.37 | 2.62 | 3.42 | 113 | 0.214 | 0.284 | 0.97 | 0.063 | 0.419 | 774.48 | 4.210 | 1.425E+05 | 2.030E+06 | 14.25 | 0.1542 | 0.912 | 0.382 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.10 | 0.00 | | |
| 12.10 | 135.98 | 0.7295 | 27.14 | 0.71 | 2.62% | 2.688 | 0.77 | 39.78 | 2.53 | 2.91 | 104 | 0.186 | 0.242 | 0.97 | 0.066 | 0.420 | 774.48 | 4.223 | 1.420E+05 | 2.030E+06 | 14.29 | 0.1542 | 0.911 | 0.383 | | 0.63 | **0.87** | <= | 2.23 | 0.024 | 0.00 | 4.10 | 0.00 | 12.01 | 12.10 |
| 12.15 | 136.06 | 0.7329 | 30.07 | 0.70 | 2.33% | 2.386 | 0.75 | 44.06 | 2.46 | 2.59 | 102 | 0.179 | 0.507 | 0.97 | 0.067 | 0.421 | 772.08 | 4.225 | 1.411E+05 | 2.030E+06 | 14.39 | 0.1542 | 0.911 | 0.384 | | 1.32 | **1.82** | | 0.00 | 0.000 | 0.00 | 4.08 | 0.00 | | |
| 12.23 | 135.68 | 0.7383 | 34.85 | 0.63 | 1.81% | 1.847 | 0.71 | 51.01 | 2.35 | 2.11 | 95 | 0.159 | 0.505 | 0.97 | 0.070 | 0.422 | 754.26 | 4.214 | 1.350E+05 | 2.030E+06 | 15.04 | 0.1542 | 0.910 | 0.384 | | 1.31 | **1.81** | | 0.00 | 0.000 | 0.00 | 4.08 | 0.00 | | |
| 12.28 | 135.39 | 0.7417 | 36.51 | 0.60 | 1.64% | 1.677 | 0.70 | 53.34 | 2.31 | 1.97 | 92 | 0.153 | 0.486 | 0.97 | 0.071 | 0.423 | 746.00 | 4.205 | 1.324E+05 | 2.030E+06 | 15.34 | 0.1542 | 0.909 | 0.384 | | 1.26 | **1.74** | | 0.00 | 0.000 | 0.00 | 4.08 | 0.00 | | |
| 12.36 | 134.72 | 0.7471 | 40.90 | 0.52 | 1.27% | 1.295 | 0.67 | 59.62 | 2.20 | 1.68 | 87 | 0.141 | 0.412 | 0.97 | 0.074 | 0.424 | 721.79 | 4.184 | 1.245E+05 | 2.030E+06 | 16.30 | 0.1542 | 0.906 | 0.384 | | 1.07 | **1.48** | | 0.00 | 0.000 | 0.00 | 4.08 | 0.00 | | |
| 12.41 | 134.27 | 0.7504 | 43.44 | 0.48 | 1.10% | 1.124 | 0.65 | 63.22 | 2.15 | 1.55 | 85 | 0.136 | 0.400 | 0.97 | 0.075 | 0.425 | 708.25 | 4.170 | 1.203E+05 | 2.030E+06 | 16.87 | 0.1542 | 0.905 | 0.384 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 4.08 | 0.00 | | |
| 12.50 | 133.75 | 0.7565 | 46.95 | 0.44 | 0.94% | 0.953 | 0.63 | 68.09 | 2.08 | 1.43 | 83 | 0.133 | 0.363 | 0.97 | 0.078 | 0.426 | 693.54 | 4.154 | 1.158E+05 | 2.030E+06 | 17.53 | 0.1542 | 0.903 | 0.385 | | 0.94 | **1.30** | <= | 0.45 | 0.005 | 0.00 | 4.08 | 0.00 | 12.41 | 12.50 |
| 12.55 | 133.64 | 0.7598 | 49.20 | 0.43 | 0.87% | 0.888 | 0.62 | 71.21 | 2.05 | 1.37 | 83 | 0.134 | 0.366 | 0.97 | 0.080 | 0.427 | 689.65 | 4.150 | 1.146E+05 | 2.030E+06 | 17.71 | 0.1542 | 0.903 | 0.385 | | 0.95 | **1.31** | | 0.00 | 0.000 | 0.00 | 4.07 | 0.00 | | |
| 12.63 | 133.39 | 0.7651 | 52.13 | 0.40 | 0.77% | 0.779 | 0.61 | 75.20 | 2.00 | 1.30 | 83 | 0.133 | 0.365 | 0.97 | 0.082 | 0.428 | 677.41 | 4.143 | 1.108E+05 | 2.030E+06 | 18.33 | 0.1542 | 0.901 | 0.386 | | 0.95 | **1.30** | | 0.00 | 0.000 | 0.00 | 4.07 | 0.00 | | |
| 12.68 | 133.51 | 0.7685 | 53.89 | 0.41 | 0.76% | 0.772 | 0.60 | 77.57 | 1.99 | 1.29 | 85 | 0.136 | 0.346 | 0.97 | 0.084 | 0.429 | 681.59 | 4.146 | 1.120E+05 | 2.030E+06 | 18.12 | 0.1542 | 0.902 | 0.387 | | 0.90 | **1.23** | <= | 0.37 | 0.002 | 0.00 | 4.07 | 0.00 | 12.63 | 12.68 |
| 12.74 | 133.86 | 0.7725 | 55.25 | 0.42 | 0.76% | 0.771 | 0.60 | 79.30 | 1.98 | 1.28 | 86 | 0.139 | 0.353 | 0.97 | 0.085 | 0.430 | 685.67 | 4.157 | 1.131E+05 | 2.030E+06 | 17.95 | 0.1542 | 0.902 | 0.387 | | 0.91 | **1.25** | <= | 0.39 | 0.003 | 0.00 | 4.07 | 0.00 | 12.68 | 12.74 |
| 12.81 | 134.31 | 0.7772 | 56.62 | 0.44 | 0.78% | 0.788 | 0.60 | 80.99 | 1.98 | 1.27 | 87 | 0.142 | 0.363 | 0.97 | 0.088 | 0.431 | 693.54 | 4.171 | 1.153E+05 | 2.030E+06 | 17.60 | 0.1542 | 0.903 | 0.389 | | 0.93 | **1.28** | <= | 0.42 | 0.004 | 0.00 | 4.07 | 0.00 | 12.74 | 12.81 |
| 12.89 | 134.54 | 0.7826 | 57.79 | 0.46 | 0.80% | 0.807 | 0.60 | 82.33 | 1.98 | 1.27 | 89 | 0.146 | 0.346 | 0.97 | 0.090 | 0.432 | 701.06 | 4.178 | 1.176E+05 | 2.030E+06 | 17.26 | 0.1542 | 0.904 | 0.390 | | 0.89 | **1.22** | <= | 0.34 | 0.003 | 0.00 | 4.06 | 0.00 | 12.81 | 12.89 |
| 12.95 | 134.93 | 0.7866 | 57.89 | 0.48 | 0.83% | 0.841 | 0.60 | 82.21 | 1.99 | 1.28 | 90 | 0.148 | 0.352 | 0.97 | 0.092 | 0.432 | 708.25 | 4.190 | 1.197E+05 | 2.030E+06 | 16.96 | 0.1542 | 0.905 | 0.391 | | 0.90 | **1.24** | <= | 0.36 | 0.003 | 0.00 | 4.06 | 0.00 | 12.89 | 12.95 |
| 13.01 | 135.46 | 0.7907 | 57.20 | 0.52 | 0.91% | 0.922 | 0.61 | 80.96 | 2.01 | 1.32 | 91 | 0.151 | 0.361 | 0.97 | 0.094 | 0.433 | 721.79 | 4.207 | 1.238E+05 | 2.030E+06 | 16.39 | 0.1542 | 0.906 | 0.392 | | 0.92 | **1.26** | <= | 0.38 | 0.003 | 0.00 | 4.06 | 0.00 | 12.95 | 13.01 |
| 13.08 | 136.45 | 0.7955 | 55.64 | 0.60 | 1.08% | 1.094 | 0.63 | 78.42 | 2.07 | 1.40 | 95 | 0.159 | 0.380 | 0.97 | 0.096 | 0.434 | 746.00 | 4.238 | 1.313E+05 | 2.030E+06 | 15.46 | 0.1542 | 0.908 | 0.394 | | 0.96 | **1.33** | | 0.00 | 0.000 | 0.00 | 4.06 | 0.00 | | |
| 13.13 | 137.20 | 0.7989 | 53.50 | 0.67 | 1.25% | 1.271 | 0.64 | 75.15 | 2.12 | 1.49 | 97 | 0.166 | 0.397 | 0.97 | 0.098 | 0.435 | 764.67 | 4.261 | 1.372E+05 | 2.030E+06 | 14.79 | 0.1542 | 0.910 | 0.396 | | 1.00 | **1.38** | | 0.00 | 0.000 | 0.00 | 4.06 | 0.00 | | |
| 13.21 | 139.37 | 0.8045 | 48.22 | 0.94 | 1.95% | 1.982 | 0.69 | 67.32 | 2.27 | 1.87 | 112 | 0.209 | 0.502 | 0.97 | 0.100 | 0.436 | 821.95 | 4.328 | 1.561E+05 | 2.030E+06 | 13.01 | 0.1542 | 0.915 | 0.399 | | 1.26 | **1.73** | | 0.00 | 0.000 | 0.00 | 4.06 | 0.00 | | |
| 13.26 | 140.30 | 0.8080 | 45.69 | 1.08 | 2.36% | 2.406 | 0.71 | 63.55 | 2.35 | 2.11 | 120 | 0.240 | 0.577 | 0.97 | 0.102 | 0.436 | 845.43 | 4.357 | 1.640E+05 | 2.030E+06 | 12.37 | 0.1542 | 0.916 | 0.400 | | 1.44 | **1.98** | | 0.00 | 0.000 | 0.00 | 4.06 | 0.00 | | |
| 13.35 | 139.99 | 0.8143 | 36.70 | 1.12 | 3.05% | 3.121 | 0.76 | 50.56 | 2.49 | 2.72 | 125 | 0.263 | 0.323 | 0.97 | 0.105 | 0.438 | 851.58 | 4.348 | 1.668E+05 | 2.030E+06 | 12.17 | 0.1542 | 0.917 | 0.401 | | 0.80 | **1.11** | <= | 0.35 | 0.004 | 0.00 | 4.06 | 0.00 | 13.26 | 13.35 |
| 13.39 | 139.48 | 0.8171 | 32.41 | 1.08 | 3.33% | 3.418 | 0.77 | 44.42 | 2.56 | 3.07 | 125 | 0.262 | 0.330 | 0.97 | 0.106 | 0.438 | 845.43 | 4.332 | 1.650E+05 | 2.030E+06 | 12.30 | 0.1542 | 0.917 | 0.402 | | 0.82 | **1.13** | <= | 0.38 | 0.002 | 0.00 | 4.05 | 0.00 | 13.35 | 13.39 |
| 13.47 | 139.29 | 0.8226 | 29.87 | 1.09 | 3.65% | 3.752 | 0.79 | 40.66 | 2.61 | 3.39 | 127 | 0.272 | 0.350 | 0.97 | 0.108 | 0.439 | 846.99 | 4.326 | 1.658E+05 | 2.030E+06 | 12.24 | 0.1542 | 0.917 | 0.403 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 13.53 | 139.39 | 0.8268 | 28.21 | 1.12 | 3.97% | 4.090 | 0.80 | 38.21 | 2.65 | 3.67 | 130 | 0.286 | 0.368 | 0.97 | 0.110 | 0.440 | 851.58 | 4.329 | 1.675E+05 | 2.030E+06 | 12.12 | 0.1542 | 0.917 | 0.403 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 13.62 | 139.22 | 0.8331 | 25.87 | 1.13 | 4.37% | 4.513 | 0.82 | 34.77 | 2.71 | 4.07 | 134 | 0.305 | 0.394 | 0.97 | 0.113 | 0.441 | 853.09 | 4.324 | 1.683E+05 | 2.030E+06 | 12.06 | 0.1542 | 0.917 | 0.404 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 13.66 | 139.21 | 0.8359 | 27.24 | 1.11 | 4.07% | 4.204 | 0.81 | 36.59 | 2.67 | 3.81 | 130 | 0.285 | 0.367 | 0.97 | 0.114 | 0.441 | 850.07 | 4.323 | 1.671E+05 | 2.030E+06 | 12.15 | 0.1542 | 0.917 | 0.405 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 4.05 | 0.00 | | |
| 13.75 | 139.35 | 0.8421 | 36.70 | 1.02 | 2.78% | 2.845 | 0.75 | 49.45 | 2.47 | 2.62 | 118 | 0.234 | 0.288 | 0.97 | 0.117 | 0.443 | 835.76 | 4.328 | 1.614E+05 | 2.030E+06 | 12.58 | 0.1542 | 0.916 | 0.405 | | 0.71 | **0.98** | <= | 1.73 | 0.019 | 0.00 | 4.05 | 0.00 | 13.66 | 13.75 |
| 13.79 | 139.47 | 0.8449 | 41.88 | 1.00 | 2.39% | 2.437 | 0.72 | 56.47 | 2.38 | 2.25 | 115 | 0.221 | 0.580 | 0.97 | 0.118 | 0.443 | 832.41 | 4.331 | 1.600E+05 | 2.030E+06 | 12.69 | 0.1542 | 0.916 | 0.406 | | 1.43 | **1.97** | | 0.00 | 0.000 | 0.00 | 4.03 | 0.00 | | |
| 13.88 | 139.72 | 0.8512 | 57.60 | 0.92 | 1.60% | 1.621 | 0.66 | 77.72 | 2.17 | 1.60 | 110 | 0.204 | 0.433 | 0.97 | 0.121 | 0.444 | 818.31 | 4.339 | 1.543E+05 | 2.030E+06 | 13.15 | 0.1542 | 0.914 | 0.406 | | 1.07 | **1.47** | | 0.00 | 0.000 | 0.00 | 4.03 | 0.00 | | |
| 13.93 | 139.66 | 0.8547 | 62.87 | 0.89 | 1.42% | 1.435 | 0.64 | 84.71 | 2.11 | 1.47 | 110 | 0.203 | 0.433 | 0.97 | 0.123 | 0.445 | 812.70 | 4.337 | 1.523E+05 | 2.030E+06 | 13.33 | 0.1542 | 0.914 | 0.406 | | 1.07 | **1.47** | | 0.00 | 0.000 | 0.00 | 4.03 | 0.00 | | |
| 13.99 | 139.57 | 0.8589 | 72.92 | 0.84 | 1.15% | 1.166 | 0.61 | 98.12 | 2.00 | 1.31 | 112 | 0.210 | 0.391 | 0.97 | 0.124 | 0.445 | 802.92 | 4.334 | 1.487E+05 | 2.030E+06 | 13.65 | 0.1542 | 0.913 | 0.407 | | 0.96 | **1.32** | | 0.00 | 0.000 | 0.00 | 4.03 | 0.00 | | |
| 14.06 | 139.30 | 0.8638 | 82.29 | 0.78 | 0.95% | 0.958 | 0.58 | 110.47 | 1.91 | 1.20 | 115 | 0.221 | 0.383 | 0.97 | 0.127 | 0.446 | 790.38 | 4.326 | 1.444E+05 | 2.030E+06 | 14.06 | 0.1542 | 0.912 | 0.407 | | 0.94 | **1.30** | <= | 0.36 | 0.003 | 0.00 | 4.03 | 0.00 | 13.99 | 14.06 |
| 14.11 | 139.09 | 0.8672 | 86.39 | 0.74 | 0.86% | 0.865 | 0.57 | 115.73 | 1.87 | 1.16 | 116 | 0.226 | 0.363 | 0.97 | 0.128 | 0.447 | 781.48 | 4.320 | 1.414E+05 | 2.030E+06 | 14.36 | 0.1542 | 0.911 | 0.407 | | 0.89 | **1.23** | <= | 0.28 | 0.002 | 0.00 | 4.03 | 0.00 | 14.06 | 14.11 |
| 14.19 | 139.13 | 0.8728 | 92.93 | 0.73 | 0.79% | 0.793 | 0.56 | 124.05 | 1.83 | 1.13 | 120 | 0.241 | 0.358 | 0.97 | 0.131 | 0.448 | 779.18 | 4.321 | 1.405E+05 | 2.030E+06 | 14.45 | 0.1542 | 0.911 | 0.408 | | 0.88 | **1.21** | <= | 0.26 | 0.002 | 0.00 | 4.03 | 0.00 | 14.11 | 14.19 |
| 14.26 | 137.49 | 0.8776 | 98.60 | 0.57 | 0.58% | 0.583 | 0.53 | 131.22 | 1.73 | 1.06 | 118 | 0.235 | 0.349 | 0.97 | 0.133 | 0.449 | 737.33 | 4.270 | 1.273E+05 | 2.030E+06 | 15.94 | 0.1542 | 0.907 | 0.407 | | 0.86 | **1.18** | <= | 0.47 | 0.004 | 0.00 | 4.02 | 0.00 | 14.19 | 14.26 |
| 14.33 | 135.32 | 0.8824 | 102.79 | 0.42 | 0.41% | 0.412 | 0.50 | 136.37 | 1.64 | 1.00 | 116 | 0.224 | 0.363 | 0.97 | 0.135 | 0.449 | 685.67 | 4.203 | 1.119E+05 | 2.030E+06 | 18.15 | 0.1542 | 0.902 | 0.405 | | 0.90 | **1.23** | <= | 0.29 | 0.002 | 0.00 | 4.02 | 0.00 | 14.26 | 14.33 |
| 14.37 | 136.00 | 0.8851 | 104.55 | 0.46 | 0.44% | 0.444 | 0.50 | 138.45 | 1.65 | 1.00 | 118 | 0.231 | 0.346 | 0.97 | 0.136 | 0.450 | 701.06 | 4.224 | 1.164E+05 | 2.030E+06 | 17.45 | 0.1542 | 0.903 | 0.406 | | 0.85 | **1.17** | <= | 0.46 | 0.002 | 0.00 | 4.02 | 0.00 | 14.33 | 14.37 |
| 14.46 | 136.95 | 0.8912 | 107.38 | 0.51 | 0.47% | 0.479 | 0.50 | 141.59 | 1.65 | 1.01 | 121 | 0.246 | 0.370 | 0.97 | 0.139 | 0.451 | 718.51 | 4.253 | 1.214E+05 | 2.030E+06 | 16.72 | 0.1542 | 0.905 | 0.408 | | 0.91 | **1.25** | <= | 0.30 | 0.003 | 0.00 | 4.02 | 0.00 | 14.37 | 14.46 |
| 14.53 | 137.54 | 0.8961 | 109.24 | 0.56 | 0.51% | 0.517 | 0.51 | 143.55 | 1.67 | 1.02 | 125 | 0.259 | 0.357 | 0.97 | 0.141 | 0.452 | 734.33 | 4.271 | 1.262E+05 | 2.030E+06 | 16.08 | 0.1542 | 0.907 | 0.409 | | 0.87 | **1.20** | <= | 0.48 | 0.004 | 0.00 | 4.01 | 0.00 | 14.46 | 14.53 |
| 14.57 | 137.77 | 0.8988 | 108.41 | 0.57 | 0.53% | 0.530 | 0.51 | 142.17 | 1.68 | 1.02 | 124 | 0.259 | 0.357 | 0.97 | 0.143 | 0.452 | 737.33 | 4.279 | 1.271E+05 | 2.030E+06 | 15.98 | 0.1542 | 0.907 | 0.410 | | 0.87 | **1.20** | <= | 0.47 | 0.002 | 0.00 | 4.01 | 0.00 | 14.53 | 14.57 |
| 14.65 | 138.48 | 0.9044 | 109.53 | 0.63 | 0.58% | 0.580 | 0.52 | 143.07 | 1.69 | 1.03 | 127 | 0.271 | 0.375 | 0.97 | 0.145 | 0.453 | 754.26 | 4.301 | 1.323E+05 | 2.030E+06 | 15.35 | 0.1542 | 0.909 | 0.412 | | 0.91 | **1.26** | <= | 0.29 | 0.003 | 0.00 | 4.01 | 0.00 | 14.57 | 14.65 |
| 14.71 | 138.82 | 0.9085 | 107.58 | 0.67 | 0.62% | 0.628 | 0.52 | 140.07 | 1.72 | 1.05 | 127 | 0.271 | 0.377 | 0.97 | 0.147 | 0.454 | 764.67 | 4.311 | 1.356E+05 | 2.030E+06 | 14.97 | 0.1542 | 0.910 | 0.413 | | 0.91 | **1.26** | <= | 0.30 | 0.002 | 0.00 | 4.00 | 0.00 | 14.65 | 14.71 |
| 14.76 | 139.37 | 0.9120 | 109.82 | 0.71 | 0.65% | 0.652 | 0.53 | 142.65 | 1.72 | 1.05 | 130 | 0.284 | 0.357 | 0.97 | 0.149 | 0.454 | 774.48 | 4.328 | 1.386E+05 | 2.030E+06 | 14.65 | 0.1542 | 0.911 | 0.413 | | 0.86 | **1.19** | <= | 0.45 | 0.003 | 0.00 | 4.00 | 0.00 | 14.71 | 14.76 |
| 14.84 | 139.88 | 0.9176 | 112.36 | 0.76 | 0.68% | 0.682 | 0.53 | 145.37 | 1.73 | 1.06 | 133 | 0.299 | 0.334 | 0.96 | 0.151 | 0.455 | 785.99 | 4.344 | 1.422E+05 | 2.030E+06 | 14.27 | 0.1542 | 0.911 | 0.415 | | 0.80 | **1.11** | <= | 0.34 | 0.003 | 0.00 | 4.00 | 0.00 | 14.76 | 14.84 |
| 14.93 | 140.38 | 0.9239 | 115.97 | 0.80 | 0.69% | 0.695 | 0.53 | 149.39 | 1.72 | 1.05 | 137 | 0.317 | 0.356 | 0.96 | 0.154 | 0.456 | 794.67 | 4.360 | 1.449E+05 | 2.030E+06 | 14.01 | 0.1542 | 0.912 | 0.416 | | 0.86 | **1.18** | <= | 0.42 | 0.005 | 0.00 | 4.00 | 0.00 | 14.84 | 14.93 |
| 14.97 | 140.62 | 0.9267 | 118.80 | 0.82 | 0.69% | 0.696 | 0.52 | 152.75 | 1.72 | 1.05 | 139 | 0.329 | 0.329 | 0.96 | 0.155 | 0.456 | 798.84 | 4.367 | 1.461E+05 | 2.030E+06 | 13.89 | 0.1542 | 0.912 | 0.416 | | 0.79 | **1.09** | <= | 0.63 | 0.003 | 0.00 | 3.99 | 0.00 | 14.93 | 14.97 |
| 15.05 | 141.01 | 0.9324 | 122.71 | 0.86 | 0.70% | 0.706 | 0.52 | 157.17 | 1.71 | 1.04 | 143 | 0.350 | 0.350 | 0.96 | 0.158 | 0.457 | 806.90 | 4.379 | 1.487E+05 | 2.030E+06 | 13.65 | 0.1542 | 0.913 | 0.417 | | 0.84 | **1.15** | <= | 0.38 | 0.004 | 0.00 | 3.99 | 0.00 | 14.97 | 15.05 |
| 15.10 | 141.22 | 0.9359 | 126.03 | 0.87 | 0.69% | 0.695 | 0.52 | 161.04 | 1.70 | 1.04 | 145 | 0.363 | 0.363 | 0.96 | 0.159 | 0.458 | 808.86 | 4.386 | 1.492E+05 | 2.030E+06 | 13.61 | 0.1542 | 0.913 | 0.418 | | 0.87 | **1.20** | <= | 0.43 | 0.003 | 0.00 | 3.98 | 0.00 | 15.05 | 15.10 |
| 15.18 | 141.43 | 0.9416 | 131.10 | 0.89 | 0.68% | 0.684 | 0.51 | 166.88 | 1.68 | 1.02 | 149 | 0.385 | 0.385 | 0.96 | 0.162 | 0.458 | 812.70 | 4.392 | 1.504E+05 | 2.030E+06 | 13.50 | 0.1542 | 0.913 | 0.419 | | 0.92 | **1.27** | <= | 0.27 | 0.003 | 0.00 | 3.98 | 0.00 | 15.10 | 15.18 |
| 15.24 | 141.59 | 0.9458 | 134.03 | 0.90 | 0.67% | 0.676 | 0.51 | 170.12 | 1.67 | 1.02 | 151 | 0.398 | 0.398 | 0.96 | 0.163 | 0.459 | 814.59 | 4.397 | 1.509E+05 | 2.030E+06 | 13.45 | 0.1542 | 0.914 | 0.419 | | 0.95 | **1.31** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 15.32 | 141.79 | 0.9515 | 137.35 | 0.92 | 0.67% | 0.674 | 0.51 | 173.65 | 1.66 | 1.01 | 153 | 0.414 | 0.414 | 0.96 | 0.166 | 0.460 | 818.31 | 4.403 | 1.521E+05 | 2.030E+06 | 13.35 | 0.1542 | 0.914 | 0.420 | | 0.98 | **1.35** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 15.37 | 141.91 | 0.9550 | 138.91 | 0.93 | 0.67% | 0.674 | 0.51 | 175.19 | 1.66 | 1.01 | 154 | 0.421 | 0.421 | 0.96 | 0.168 | 0.460 | 820.14 | 4.407 | 1.526E+05 | 2.030E+06 | 13.30 | 0.1542 | 0.914 | 0.421 | | 1.00 | **1.38** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 15.45 | 142.15 | 0.9607 | 142.13 | 0.96 | 0.68% | 0.680 | 0.50 | 178.54 | 1.66 | 1.01 | 157 | 0.440 | 0.440 | 0.96 | 0.170 | 0.461 | 825.51 | 4.415 | 1.544E+05 | 2.030E+06 | 13.15 | 0.1542 | 0.914 | 0.422 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 15.51 | 142.28 | 0.9650 | 144.96 | 0.97 | 0.67% | 0.674 | 0.50 | 181.57 | 1.65 | 1.00 | 159 | 0.452 | 0.452 | 0.96 | 0.172 | 0.462 | 827.26 | 4.419 | 1.549E+05 | 2.030E+06 | 13.11 | 0.1542 | 0.914 | 0.422 | | 1.07 | **1.47** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 15.55 | 142.39 | 0.9678 | 148.28 | 0.97 | 0.65% | 0.658 | 0.50 | 185.38 | 1.63 | 1.00 | 162 | 0.476 | 0.476 | 0.96 | 0.173 | 0.462 | 827.26 | 4.422 | 1.548E+05 | 2.030E+06 | 13.12 | 0.1542 | 0.914 | 0.423 | | 1.13 | **1.55** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 15.64 | 142.66 | 0.9742 | 152.87 | 1.00 | 0.65% | 0.658 | 0.50 | 190.28 | 1.62 | 1.00 | 167 | 0.511 | 0.511 | 0.96 | 0.176 | 0.463 | 832.41 | 4.430 | 1.564E+05 | 2.030E+06 | 12.98 | 0.1542 | 0.915 | 0.423 | | 1.21 | **1.66** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 15.69 | 142.82 | 0.9778 | 156.39 | 1.01 | 0.65% | 0.650 | 0.50 | 194.20 | 1.61 | 1.00 | 170 | 0.540 | 0.540 | 0.96 | 0.178 | 0.463 | 834.10 | 4.435 | 1.569E+05 | 2.030E+06 | 12.94 | 0.1542 | 0.915 | 0.424 | | 1.27 | **1.75** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 15.77 | 143.06 | 0.9835 | 160.19 | 1.04 | 0.65% | 0.653 | 0.50 | 198.14 | 1.61 | 1.00 | 174 | 0.571 | 0.571 | 0.96 | 0.180 | 0.464 | 839.05 | 4.443 | 1.585E+05 | 2.030E+06 | 12.81 | 0.1542 | 0.915 | 0.425 | | 1.34 | **1.85** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 15.82 | 143.17 | 0.9871 | 162.73 | 1.05 | 0.65% | 0.649 | 0.50 | 200.79 | 1.60 | 1.00 | 177 | 0.593 | 0.593 | 0.96 | 0.182 | 0.465 | 840.67 | 4.446 | 1.589E+05 | 2.030E+06 | 12.77 | 0.1542 | 0.915 | 0.425 | | 1.39 | **1.92** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 15.90 | 143.28 | 0.9928 | 165.27 | 1.06 | 0.64% | 0.645 | 0.50 | 203.12 | 1.59 | 1.00 | 179 | 0.614 | 0.614 | 0.96 | 0.184 | 0.465 | 842.27 | 4.450 | 1.594E+05 | 2.030E+06 | 12.73 | 0.1542 | 0.915 | 0.426 | | 1.44 | **1.98** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 15.95 | 143.30 | 0.9964 | 165.76 | 1.06 | 0.64% | 0.643 | 0.50 | 203.21 | 1.59 | 1.00 | 179 | 0.617 | 0.617 | 0.96 | 0.186 | 0.466 | 842.27 | 4.450 | 1.594E+05 | 2.030E+06 | 12.73 | 0.1542 | 0.915 | 0.426 | | 1.45 | **1.99** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.04 | 143.24 | 1.0029 | 164.10 | 1.06 | 0.65% | 0.650 | 0.50 | 200.26 | 1.60 | 1.00 | 177 | 0.598 | 0.598 | 0.96 | 0.188 | 0.467 | 842.27 | 4.448 | 1.595E+05 | 2.030E+06 | 12.73 | 0.1542 | 0.915 | 0.427 | | 1.40 | **1.93** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.09 | 143.13 | 1.0065 | 161.46 | 1.05 | 0.65% | 0.654 | 0.50 | 196.53 | 1.61 | 1.00 | 174 | 0.571 | 0.571 | 0.96 | 0.190 | 0.467 | 840.67 | 4.445 | 1.590E+05 | 2.030E+06 | 12.77 | 0.1542 | 0.915 | 0.428 | | 1.34 | **1.84** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.17 | 142.83 | 1.0122 | 157.17 | 1.01 | 0.64% | 0.647 | 0.50 | 190.51 | 1.61 | 1.00 | 169 | 0.530 | 0.530 | 0.96 | 0.193 | 0.468 | 834.10 | 4.436 | 1.568E+05 | 2.030E+06 | 12.94 | 0.1542 | 0.915 | 0.428 | | 1.24 | **1.70** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.25 | 142.49 | 1.0179 | 152.77 | 0.98 | 0.64% | 0.646 | 0.50 | 184.42 | 1.62 | 1.00 | 164 | 0.491 | 0.491 | 0.96 | 0.195 | 0.468 | 829.00 | 4.425 | 1.553E+05 | 2.030E+06 | 13.07 | 0.1542 | 0.915 | 0.428 | | 1.14 | **1.58** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.31 | 142.24 | 1.0221 | 150.04 | 0.95 | 0.63% | 0.638 | 0.50 | 180.57 | 1.63 | 1.00 | 161 | 0.467 | 0.467 | 0.96 | 0.197 | 0.469 | 823.74 | 4.417 | 1.536E+05 | 2.030E+06 | 13.22 | 0.1542 | 0.914 | 0.429 | | 1.09 | **1.50** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.36 | 141.98 | 1.0257 | 147.60 | 0.92 | 0.62% | 0.628 | 0.50 | 177.18 | 1.63 | 1.00 | 158 | 0.447 | 0.447 | 0.96 | 0.198 | 0.469 | 818.31 | 4.409 | 1.519E+05 | 2.030E+06 | 13.37 | 0.1542 | 0.914 | 0.429 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.44 | 141.50 | 1.0313 | 145.45 | 0.87 | 0.60% | 0.602 | 0.50 | 173.91 | 1.62 | 1.00 | 155 | 0.429 | 0.429 | 0.96 | 0.201 | 0.470 | 808.86 | 4.394 | 1.489E+05 | 2.030E+06 | 13.64 | 0.1542 | 0.913 | 0.429 | | 1.00 | **1.38** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.48 | 141.40 | 1.0342 | 145.35 | 0.85 | 0.58% | 0.589 | 0.50 | 173.46 | 1.62 | 1.00 | 155 | 0.427 | 0.427 | 0.96 | 0.202 | 0.470 | 804.92 | 4.391 | 1.475E+05 | 2.030E+06 | 13.76 | 0.1542 | 0.913 | 0.429 | | 0.99 | **1.37** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.55 | 141.36 | 1.0391 | 146.82 | 0.85 | 0.58% | 0.583 | 0.50 | 174.64 | 1.61 | 1.00 | 156 | 0.436 | 0.436 | 0.96 | 0.204 | 0.471 | 804.92 | 4.390 | 1.476E+05 | 2.030E+06 | 13.76 | 0.1542 | 0.913 | 0.430 | | 1.01 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.62 | 141.81 | 1.0441 | 148.67 | 0.90 | 0.61% | 0.610 | 0.50 | 176.26 | 1.62 | 1.00 | 158 | 0.448 | 0.448 | 0.96 | 0.207 | 0.472 | 814.59 | 4.404 | 1.507E+05 | 2.030E+06 | 13.47 | 0.1542 | 0.914 | 0.431 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.67 | 141.16 | 1.0476 | 148.67 | 0.82 | 0.55% | 0.555 | 0.50 | 175.84 | 1.60 | 1.00 | 158 | 0.447 | 0.447 | 0.96 | 0.208 | 0.472 | 798.84 | 4.384 | 1.456E+05 | 2.030E+06 | 13.95 | 0.1542 | 0.912 | 0.431 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.76 | 138.82 | 1.0539 | 144.57 | 0.60 | 0.42% | 0.418 | 0.50 | 170.26 | 1.54 | 1.00 | 153 | 0.415 | 0.415 | 0.96 | 0.211 | 0.473 | 746.00 | 4.311 | 1.291E+05 | 2.030E+06 | 15.73 | 0.1542 | 0.908 | 0.429 | | 0.97 | **1.33** | | 0.00 | 0.000 | 0.00 | 3.98 | 0.00 | | |
| 16.80 | 139.44 | 1.0566 | 142.33 | 0.66 | 0.46% | 0.467 | 0.50 | 167.29 | 1.57 | 1.00 | 151 | 0.399 | 0.399 | 0.96 | 0.212 | 0.473 | 762.12 | 4.330 | 1.341E+05 | 2.030E+06 | 15.13 | 0.1542 | 0.909 | 0.430 | | 0.93 | **1.27** | <= | 0.28 | 0.001 | 0.00 | 3.98 | 0.00 | 16.76 | 16.80 |
| 16.87 | 140.19 | 1.0616 | 141.06 | 0.73 | 0.52% | 0.521 | 0.50 | 165.25 | 1.60 | 1.00 | 149 | 0.389 | 0.389 | 0.96 | 0.214 | 0.474 | 779.18 | 4.354 | 1.394E+05 | 2.030E+06 | 14.56 | 0.1542 | 0.911 | 0.432 | | 0.90 | **1.24** | <= | 0.25 | 0.002 | 0.00 | 3.98 | 0.00 | 16.80 | 16.87 |
| 16.93 | 141.01 | 1.0658 | 140.77 | 0.82 | 0.58% | 0.587 | 0.50 | 164.44 | 1.63 | 1.00 | 149 | 0.385 | 0.385 | 0.96 | 0.216 | 0.474 | 798.84 | 4.379 | 1.457E+05 | 2.030E+06 | 13.93 | 0.1542 | 0.912 | 0.433 | | 0.89 | **1.23** | <= | 0.24 | 0.002 | 0.00 | 3.98 | 0.00 | 16.87 | 16.93 |
| 17.01 | 141.52 | 1.0714 | 127.30 | 0.91 | 0.71% | 0.721 | 0.52 | 148.03 | 1.72 | 1.05 | 142 | 0.344 | 0.344 | 0.96 | 0.219 | 0.475 | 816.46 | 4.395 | 1.517E+05 | 2.030E+06 | 13.38 | 0.1542 | 0.914 | 0.434 | | 0.79 | **1.09** | <= | 0.62 | 0.006 | 0.00 | 3.97 | 0.00 | 16.93 | 17.01 |
| 17.07 | 142.20 | 1.0757 | 134.91 | 0.98 | 0.73% | 0.732 | 0.52 | 156.51 | 1.71 | 1.04 | 148 | 0.384 | 0.384 | 0.96 | 0.221 | 0.475 | 829.00 | 4.416 | 1.556E+05 | 2.030E+06 | 13.04 | 0.1542 | 0.915 | 0.435 | | 0.88 | **1.21** | <= | 0.23 | 0.002 | 0.00 | 3.97 | 0.00 | 17.01 | 17.07 |
| 17.13 | 142.97 | 1.0800 | 135.89 | 1.08 | 0.79% | 0.801 | 0.53 | 157.20 | 1.73 | 1.06 | 152 | 0.404 | 0.404 | 0.96 | 0.222 | 0.476 | 845.43 | 4.440 | 1.610E+05 | 2.030E+06 | 12.61 | 0.1542 | 0.916 | 0.436 | | 0.93 | **1.28** | <= | 0.28 | 0.002 | 0.00 | 3.97 | 0.00 | 17.07 | 17.13 |
| 17.22 | 143.59 | 1.0865 | 132.47 | 1.19 | 0.90% | 0.906 | 0.54 | 152.56 | 1.77 | 1.09 | 152 | 0.406 | 0.406 | 0.96 | 0.225 | 0.477 | 861.84 | 4.459 | 1.666E+05 | 2.030E+06 | 12.19 | 0.1542 | 0.917 | 0.437 | | 0.93 | **1.28** | <= | 0.28 | 0.003 | 0.00 | 3.96 | 0.00 | 17.13 | 17.22 |
| 17.27 | 143.71 | 1.0901 | 127.98 | 1.22 | 0.95% | 0.961 | 0.55 | 146.99 | 1.80 | 1.11 | 150 | 0.391 | 0.391 | 0.96 | 0.227 | 0.477 | 866.05 | 4.463 | 1.681E+05 | 2.030E+06 | 12.08 | 0.1542 | 0.917 | 0.438 | | 0.89 | **1.23** | <= | 0.24 | 0.001 | 0.00 | 3.96 | 0.00 | 17.22 | 17.27 |
| 17.34 | 143.69 | 1.0951 | 117.34 | 1.26 | 1.07% | 1.084 | 0.57 | 134.22 | 1.86 | 1.16 | 143 | 0.354 | 0.354 | 0.96 | 0.229 | 0.478 | 871.51 | 4.462 | 1.702E+05 | 2.030E+06 | 11.93 | 0.1542 | 0.918 | 0.438 | | 0.81 | **1.11** | <= | 0.32 | 0.003 | 0.00 | 3.96 | 0.00 | 17.27 | 17.34 |
| 17.40 | 143.59 | 1.0994 | 107.58 | 1.27 | 1.18% | 1.193 | 0.58 | 122.60 | 1.92 | 1.21 | 137 | 0.320 | 0.339 | 0.96 | 0.231 | 0.478 | 872.85 | 4.459 | 1.708E+05 | 2.030E+06 | 11.88 | 0.1542 | 0.918 | 0.439 | | 0.77 | **1.06** | <= | 0.58 | 0.004 | 0.00 | 3.96 | 0.00 | 17.34 | 17.40 |
| 17.46 | 143.24 | 1.1037 | 91.76 | 1.28 | 1.39% | 1.412 | 0.61 | 104.09 | 2.02 | 1.32 | 129 | 0.279 | 0.407 | 0.96 | 0.233 | 0.479 | 874.17 | 4.448 | 1.718E+05 | 2.030E+06 | 11.82 | 0.1542 | 0.918 | 0.439 | | 0.93 | **1.28** | <= | 0.31 | 0.002 | 0.00 | 3.95 | 0.00 | 17.40 | 17.46 |
| 17.54 | 142.79 | 1.1094 | 77.51 | 1.28 | 1.65% | 1.675 | 0.64 | 87.40 | 2.12 | 1.50 | 123 | 0.253 | 0.432 | 0.96 | 0.235 | 0.479 | 874.17 | 4.434 | 1.723E+05 | 2.030E+06 | 11.78 | 0.1542 | 0.918 | 0.440 | | 0.98 | **1.35** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.59 | 142.70 | 1.1130 | 70.09 | 1.30 | 1.85% | 1.885 | 0.66 | 78.73 | 2.19 | 1.64 | 122 | 0.249 | 0.455 | 0.96 | 0.237 | 0.480 | 876.80 | 4.432 | 1.735E+05 | 2.030E+06 | 11.70 | 0.1542 | 0.918 | 0.440 | | 1.03 | **1.42** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.67 | 142.84 | 1.1187 | 62.77 | 1.38 | 2.20% | 2.238 | 0.69 | 70.11 | 2.28 | 1.87 | 125 | 0.260 | 0.508 | 0.96 | 0.239 | 0.480 | 886.90 | 4.436 | 1.773E+05 | 2.030E+06 | 11.45 | 0.1542 | 0.919 | 0.441 | | 1.15 | **1.59** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.76 | 143.18 | 1.1251 | 55.25 | 1.50 | 2.71% | 2.771 | 0.72 | 61.30 | 2.38 | 2.23 | 131 | 0.287 | 0.601 | 0.96 | 0.242 | 0.481 | 901.00 | 4.447 | 1.826E+05 | 2.030E+06 | 11.12 | 0.1542 | 0.920 | 0.442 | | 1.36 | **1.87** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.80 | 142.94 | 1.1280 | 49.00 | 1.52 | 3.10% | 3.175 | 0.75 | 54.12 | 2.46 | 2.57 | 133 | 0.300 | 0.345 | 0.96 | 0.243 | 0.481 | 903.24 | 4.439 | 1.838E+05 | 2.030E+06 | 11.05 | 0.1542 | 0.920 | 0.442 | | 0.78 | **1.07** | <= | 0.61 | 0.003 | 0.00 | 3.95 | 0.00 | 17.76 | 17.80 |
| 17.89 | 141.92 | 1.1344 | 40.61 | 1.40 | 3.45% | 3.546 | 0.77 | 44.44 | 2.55 | 3.04 | 130 | 0.286 | 0.348 | 0.96 | 0.246 | 0.482 | 889.33 | 4.407 | 1.794E+05 | 2.030E+06 | 11.31 | 0.1542 | 0.919 | 0.443 | | 0.79 | **1.08** | <= | 0.64 | 0.007 | 0.00 | 3.95 | 0.00 | 17.80 | 17.89 |
| 17.93 | 141.11 | 1.1372 | 36.90 | 1.30 | 3.52% | 3.635 | 0.78 | 40.19 | 2.59 | 3.26 | 127 | 0.270 | 0.335 | 0.96 | 0.247 | 0.482 | 876.80 | 4.382 | 1.754E+05 | 2.030E+06 | 11.57 | 0.1542 | 0.918 | 0.443 | | 0.76 | **1.04** | <= | 0.57 | 0.003 | 0.00 | 3.94 | 0.00 | 17.89 | 17.93 |
| 17.98 | 140.38 | 1.1407 | 33.58 | 1.21 | 3.60% | 3.730 | 0.80 | 36.38 | 2.63 | 3.50 | 124 | 0.255 | 0.324 | 0.96 | 0.249 | 0.482 | 864.66 | 4.360 | 1.715E+05 | 2.030E+06 | 11.84 | 0.1542 | 0.918 | 0.443 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.94 | 0.00 | | |
| 18.06 | 139.18 | 1.1463 | 28.80 | 1.08 | 3.75% | 3.905 | 0.82 | 30.91 | 2.69 | 3.94 | 130 | 0.285 | 0.369 | 0.96 | 0.251 | 0.483 | 845.43 | 4.322 | 1.654E+05 | 2.030E+06 | 12.28 | 0.1542 | 0.917 | 0.443 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.94 | 0.00 | | |
| 18.11 | 138.80 | 1.1497 | 28.85 | 1.03 | 3.57% | 3.718 | 0.81 | 30.89 | 2.68 | 3.84 | 127 | 0.270 | 0.349 | 0.96 | 0.253 | 0.483 | 837.41 | 4.311 | 1.627E+05 | 2.030E+06 | 12.48 | 0.1542 | 0.916 | 0.443 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.94 | 0.00 | | |
| 18.20 | 139.16 | 1.1560 | 28.90 | 1.08 | 3.74% | 3.893 | 0.82 | 30.82 | 2.69 | 3.94 | 130 | 0.284 | 0.369 | 0.96 | 0.256 | 0.484 | 845.43 | 4.322 | 1.654E+05 | 2.030E+06 | 12.27 | 0.1542 | 0.917 | 0.444 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.94 | 0.00 | | |
| 18.25 | 140.21 | 1.1595 | 36.41 | 1.15 | 3.16% | 3.262 | 0.78 | 39.08 | 2.57 | 3.12 | 118 | 0.234 | 0.291 | 0.96 | 0.257 | 0.484 | 856.06 | 4.354 | 1.683E+05 | 2.030E+06 | 12.06 | 0.1542 | 0.917 | 0.444 | | 0.66 | **0.90** | <= | 0.79 | 0.005 | 0.00 | 3.94 | 0.00 | 18.20 | 18.25 |
| 18.34 | 140.77 | 1.1658 | 44.42 | 1.17 | 2.63% | 2.705 | 0.74 | 47.76 | 2.45 | 2.52 | 116 | 0.226 | 0.268 | 0.96 | 0.260 | 0.485 | 858.97 | 4.372 | 1.688E+05 | 2.030E+06 | 12.03 | 0.1542 | 0.917 | 0.445 | | 0.60 | **0.83** | <= | 2.04 | 0.022 | 0.00 | 3.93 | 0.00 | 18.25 | 18.34 |
| 18.39 | 140.73 | 1.1694 | 43.34 | 1.17 | 2.70% | 2.774 | 0.75 | 46.46 | 2.46 | 2.59 | 116 | 0.227 | 0.276 | 0.96 | 0.262 | 0.485 | 858.97 | 4.371 | 1.688E+05 | 2.030E+06 | 12.02 | 0.1542 | 0.917 | 0.445 | | 0.62 | **0.85** | <= | 2.04 | 0.012 | 0.00 | 3.91 | 0.00 | 18.34 | 18.39 |
| 18.45 | 140.45 | 1.1736 | 41.29 | 1.14 | 2.76% | 2.842 | 0.75 | 44.09 | 2.49 | 2.70 | 115 | 0.223 | 0.272 | 0.96 | 0.264 | 0.486 | 854.58 | 4.362 | 1.674E+05 | 2.030E+06 | 12.12 | 0.1542 | 0.917 | 0.445 | | 0.61 | **0.84** | <= | 2.06 | 0.015 | 0.00 | 3.90 | 0.00 | 18.39 | 18.45 |
| 18.52 | 140.11 | 1.1785 | 41.68 | 1.09 | 2.62% | 2.691 | 0.75 | 44.38 | 2.47 | 2.62 | 112 | 0.212 | 0.259 | 0.96 | 0.266 | 0.486 | 846.99 | 4.351 | 1.649E+05 | 2.030E+06 | 12.31 | 0.1542 | 0.917 | 0.446 | | 0.58 | **0.80** | <= | 2.10 | 0.018 | 0.00 | 3.88 | 0.00 | 18.45 | 18.52 |
| 18.60 | 140.47 | 1.1841 | 53.50 | 1.05 | 1.96% | 2.007 | 0.70 | 57.13 | 2.30 | 1.96 | 108 | 0.197 | 0.476 | 0.96 | 0.268 | 0.487 | 840.67 | 4.362 | 1.620E+05 | 2.030E+06 | 12.53 | 0.1542 | 0.916 | 0.446 | | 1.07 | **1.47** | | 0.00 | 0.000 | 0.00 | 3.87 | 0.00 | | |
| 18.65 | 141.34 | 1.1876 | 70.77 | 1.08 | 1.53% | 1.552 | 0.65 | 75.82 | 2.14 | 1.53 | 111 | 0.208 | 0.418 | 0.96 | 0.270 | 0.487 | 845.43 | 4.389 | 1.628E+05 | 2.030E+06 | 12.47 | 0.1542 | 0.916 | 0.446 | | 0.94 | **1.29** | <= | 0.36 | 0.002 | 0.00 | 3.87 | 0.00 | 18.60 | 18.65 |
| 18.74 | 142.63 | 1.1940 | 96.45 | 1.16 | 1.20% | 1.218 | 0.60 | 103.39 | 1.97 | 1.26 | 124 | 0.259 | 0.370 | 0.96 | 0.273 | 0.488 | 857.52 | 4.430 | 1.660E+05 | 2.030E+06 | 12.23 | 0.1542 | 0.917 | 0.447 | | 0.83 | **1.14** | <= | 0.39 | 0.004 | 0.00 | 3.86 | 0.00 | 18.65 | 18.74 |
| 18.78 | 143.14 | 1.1969 | 107.87 | 1.20 | 1.11% | 1.125 | 0.58 | 115.58 | 1.91 | 1.20 | 132 | 0.294 | 0.346 | 0.96 | 0.274 | 0.488 | 863.26 | 4.445 | 1.676E+05 | 2.030E+06 | 12.11 | 0.1542 | 0.917 | 0.448 | | 0.77 | **1.06** | <= | 0.60 | 0.003 | 0.00 | 3.86 | 0.00 | 18.74 | 18.78 |
| 18.87 | 143.73 | 1.2034 | 120.17 | 1.25 | 1.04% | 1.051 | 0.57 | 128.39 | 1.86 | 1.15 | 141 | 0.339 | 0.339 | 0.96 | 0.277 | 0.489 | 870.16 | 4.464 | 1.696E+05 | 2.030E+06 | 11.97 | 0.1542 | 0.917 | 0.448 | | 0.76 | **1.04** | <= | 0.52 | 0.006 | 0.00 | 3.86 | 0.00 | 18.78 | 18.87 |
| 18.91 | 143.95 | 1.2063 | 124.07 | 1.28 | 1.03% | 1.042 | 0.56 | 132.36 | 1.85 | 1.14 | 144 | 0.357 | 0.357 | 0.96 | 0.278 | 0.489 | 874.17 | 4.471 | 1.709E+05 | 2.030E+06 | 11.88 | 0.1542 | 0.918 | 0.449 | | 0.79 | **1.09** | <= | 0.62 | 0.003 | 0.00 | 3.85 | 0.00 | 18.87 | 18.91 |
| 18.96 | 144.30 | 1.2099 | 130.13 | 1.32 | 1.01% | 1.024 | 0.56 | 138.58 | 1.83 | 1.13 | 149 | 0.385 | 0.385 | 0.96 | 0.280 | 0.489 | 879.38 | 4.481 | 1.726E+05 | 2.030E+06 | 11.76 | 0.1542 | 0.918 | 0.449 | | 0.86 | **1.18** | <= | 0.40 | 0.002 | 0.00 | 3.85 | 0.00 | 18.91 | 18.96 |
| 19.05 | 144.60 | 1.2164 | 137.54 | 1.35 | 0.98% | 0.990 | 0.55 | 145.96 | 1.80 | 1.11 | 154 | 0.419 | 0.419 | 0.95 | 0.282 | 0.490 | 883.18 | 4.491 | 1.737E+05 | 2.030E+06 | 11.69 | 0.1542 | 0.918 | 0.450 | | 0.93 | **1.28** | <= | 0.28 | 0.003 | 0.00 | 3.85 | 0.00 | 18.96 | 19.05 |
| 19.11 | 144.66 | 1.2207 | 140.67 | 1.35 | 0.96% | 0.968 | 0.54 | 148.91 | 1.79 | 1.10 | 156 | 0.431 | 0.431 | 0.95 | 0.284 | 0.490 | 883.18 | 4.493 | 1.736E+05 | 2.030E+06 | 11.69 | 0.1542 | 0.918 | 0.450 | | 0.96 | **1.32** | | 0.00 | 0.000 | 0.00 | 3.84 | 0.00 | | |
| 19.18 | 144.97 | 1.2258 | 143.11 | 1.40 | 0.98% | 0.987 | 0.54 | 151.04 | 1.79 | 1.10 | 158 | 0.448 | 0.448 | 0.95 | 0.286 | 0.491 | 889.33 | 4.502 | 1.757E+05 | 2.030E+06 | 11.56 | 0.1542 | 0.918 | 0.451 | | 0.99 | **1.37** | | 0.00 | 0.000 | 0.00 | 3.84 | 0.00 | | |
| 19.23 | 145.27 | 1.2294 | 145.35 | 1.45 | 1.00% | 1.006 | 0.54 | 153.09 | 1.79 | 1.10 | 161 | 0.466 | 0.466 | 0.95 | 0.288 | 0.491 | 895.27 | 4.512 | 1.777E+05 | 2.030E+06 | 11.43 | 0.1542 | 0.919 | 0.451 | | 1.03 | **1.42** | | 0.00 | 0.000 | 0.00 | 3.84 | 0.00 | | |
| 19.32 | 145.82 | 1.2360 | 148.28 | 1.55 | 1.05% | 1.054 | 0.55 | 155.57 | 1.80 | 1.10 | 164 | 0.494 | 0.494 | 0.95 | 0.291 | 0.491 | 906.55 | 4.529 | 1.815E+05 | 2.030E+06 | 11.19 | 0.1542 | 0.919 | 0.452 | | 1.09 | **1.50** | | 0.00 | 0.000 | 0.00 | 3.84 | 0.00 | | |
| 19.37 | 146.04 | 1.2396 | 149.26 | 1.60 | 1.07% | 1.081 | 0.55 | 156.26 | 1.80 | 1.11 | 166 | 0.506 | 0.506 | 0.95 | 0.292 | 0.492 | 911.92 | 4.535 | 1.834E+05 | 2.030E+06 | 11.07 | 0.1542 | 0.920 | 0.452 | | 1.12 | **1.54** | | 0.00 | 0.000 | 0.00 | 3.84 | 0.00 | | |
| 19.44 | 145.92 | 1.2447 | 129.93 | 1.65 | 1.27% | 1.282 | 0.58 | 135.43 | 1.90 | 1.19 | 155 | 0.424 | 0.424 | 0.95 | 0.295 | 0.492 | 917.13 | 4.532 | 1.856E+05 | 2.030E+06 | 10.94 | 0.1542 | 0.920 | 0.453 | | 0.94 | **1.29** | <= | 0.28 | 0.002 | 0.00 | 3.84 | 0.00 | 19.37 | 19.44 |
| 19.50 | 146.28 | 1.2491 | 143.99 | 1.67 | 1.16% | 1.170 | 0.56 | 149.82 | 1.84 | 1.14 | 164 | 0.488 | 0.488 | 0.95 | 0.296 | 0.493 | 919.16 | 4.543 | 1.860E+05 | 2.030E+06 | 10.92 | 0.1542 | 0.920 | 0.453 | | 1.08 | **1.48** | | 0.00 | 0.000 | 0.00 | 3.84 | 0.00 | | |
| 19.56 | 146.39 | 1.2535 | 142.43 | 1.70 | 1.19% | 1.204 | 0.56 | 147.79 | 1.85 | 1.15 | 163 | 0.484 | 0.484 | 0.95 | 0.298 | 0.493 | 922.18 | 4.546 | 1.871E+05 | 2.030E+06 | 10.85 | 0.1542 | 0.920 | 0.454 | | 1.07 | **1.47** | | 0.00 | 0.000 | 0.00 | 3.84 | 0.00 | | |
| 19.63 | 146.39 | 1.2586 | 137.74 | 1.72 | 1.25% | 1.260 | 0.57 | 142.44 | 1.88 | 1.17 | 160 | 0.464 | 0.464 | 0.95 | 0.300 | 0.493 | 924.15 | 4.546 | 1.879E+05 | 2.030E+06 | 10.81 | 0.1542 | 0.920 | 0.454 | | 1.02 | **1.41** | | 0.00 | 0.000 | 0.00 | 3.84 | 0.00 | | |
| 19.72 | 145.36 | 1.2652 | 131.49 | 1.52 | 1.16% | 1.167 | 0.57 | 135.38 | 1.87 | 1.16 | 152 | 0.405 | 0.405 | 0.95 | 0.303 | 0.494 | 903.24 | 4.514 | 1.807E+05 | 2.030E+06 | 11.23 | 0.1542 | 0.919 | 0.454 | | 0.89 | **1.23** | <= | 0.24 | 0.003 | 0.00 | 3.84 | 0.00 | 19.63 | 19.72 |
| 19.76 | 144.60 | 1.2681 | 128.47 | 1.38 | 1.07% | 1.085 | 0.56 | 132.01 | 1.85 | 1.15 | 147 | 0.373 | 0.373 | 0.95 | 0.305 | 0.494 | 886.90 | 4.491 | 1.752E+05 | 2.030E+06 | 11.59 | 0.1542 | 0.918 | 0.454 | | 0.82 | **1.13** | <= | 0.34 | 0.002 | 0.00 | 3.84 | 0.00 | 19.72 | 19.76 |
| 19.84 | 144.04 | 1.2738 | 121.73 | 1.30 | 1.07% | 1.079 | 0.57 | 124.59 | 1.87 | 1.16 | 140 | 0.337 | 0.337 | 0.95 | 0.307 | 0.495 | 876.80 | 4.473 | 1.719E+05 | 2.030E+06 | 11.81 | 0.1542 | 0.918 | 0.454 | | 0.74 | **1.02** | <= | 0.48 | 0.005 | 0.00 | 3.84 | 0.00 | 19.76 | 19.84 |
| 19.90 | 143.86 | 1.2782 | 115.58 | 1.29 | 1.12% | 1.129 | 0.58 | 117.93 | 1.90 | 1.19 | 136 | 0.315 | 0.315 | 0.95 | 0.309 | 0.495 | 875.49 | 4.468 | 1.716E+05 | 2.030E+06 | 11.83 | 0.1542 | 0.918 | 0.454 | | 0.69 | **0.95** | <= | 0.83 | 0.006 | 0.00 | 3.83 | 0.00 | 19.84 | 19.90 |
| 19.97 | 143.76 | 1.2832 | 109.24 | 1.30 | 1.19% | 1.204 | 0.59 | 111.05 | 1.94 | 1.23 | 133 | 0.296 | 0.337 | 0.95 | 0.311 | 0.495 | 876.80 | 4.465 | 1.722E+05 | 2.030E+06 | 11.79 | 0.1542 | 0.918 | 0.455 | | 0.74 | **1.02** | <= | 0.50 | 0.004 | 0.00 | 3.83 | 0.00 | 19.90 | 19.97 |
| 20.02 | 143.66 | 1.2868 | 102.50 | 1.31 | 1.28% | 1.294 | 0.60 | 103.90 | 1.98 | 1.27 | 129 | 0.280 | 0.356 | 0.95 | 0.313 | 0.496 | 878.09 | 4.462 | 1.728E+05 | 2.030E+06 | 11.75 | 0.1542 | 0.918 | 0.455 | | 0.78 | **1.08** | <= | 0.64 | 0.004 | 0.00 | 3.82 | 0.00 | 19.97 | 20.02 |
| 20.11 | 143.66 | 1.2932 | 88.25 | 1.38 | 1.56% | 1.587 | 0.63 | 88.93 | 2.09 | 1.43 | 125 | 0.260 | 0.393 | 0.95 | 0.315 | 0.496 | 886.90 | 4.462 | 1.763E+05 | 2.030E+06 | 11.51 | 0.1542 | 0.919 | 0.456 | | 0.86 | **1.19** | <= | 0.46 | 0.005 | 0.00 | 3.82 | 0.00 | 20.02 | 20.11 |
| 20.15 | 143.85 | 1.2961 | 86.78 | 1.42 | 1.64% | 1.661 | 0.64 | 87.28 | 2.11 | 1.47 | 125 | 0.264 | 0.399 | 0.95 | 0.317 | 0.496 | 891.73 | 4.467 | 1.780E+05 | 2.030E+06 | 11.40 | 0.1542 | 0.919 | 0.456 | | 0.87 | **1.20** | <= | 0.25 | 0.001 | 0.00 | 3.81 | 0.00 | 20.11 | 20.15 |
| 20.23 | 144.12 | 1.3019 | 79.46 | 1.52 | 1.91% | 1.945 | 0.66 | 79.53 | 2.18 | 1.63 | 127 | 0.270 | 0.440 | 0.95 | 0.319 | 0.497 | 903.24 | 4.476 | 1.823E+05 | 2.030E+06 | 11.14 | 0.1542 | 0.920 | 0.457 | | 0.96 | **1.33** | | 0.00 | 0.000 | 0.00 | 3.81 | 0.00 | | |
| 20.28 | 144.08 | 1.3055 | 73.02 | 1.55 | 2.12% | 2.161 | 0.68 | 72.83 | 2.24 | 1.78 | 127 | 0.271 | 0.473 | 0.95 | 0.321 | 0.497 | 906.55 | 4.475 | 1.837E+05 | 2.030E+06 | 11.05 | 0.1542 | 0.920 | 0.457 | | 1.03 | **1.42** | | 0.00 | 0.000 | 0.00 | 3.81 | 0.00 | | |
| 20.37 | 143.75 | 1.3120 | 64.72 | 1.54 | 2.38% | 2.429 | 0.70 | 64.15 | 2.32 | 2.00 | 126 | 0.268 | 0.531 | 0.95 | 0.324 | 0.498 | 905.45 | 4.464 | 1.836E+05 | 2.030E+06 | 11.05 | 0.1542 | 0.920 | 0.458 | | 1.16 | **1.60** | | 0.00 | 0.000 | 0.00 | 3.81 | 0.00 | | |
| 20.42 | 143.56 | 1.3155 | 59.25 | 1.55 | 2.62% | 2.675 | 0.72 | 58.49 | 2.37 | 2.21 | 127 | 0.272 | 0.573 | 0.95 | 0.325 | 0.498 | 906.55 | 4.458 | 1.843E+05 | 2.030E+06 | 11.01 | 0.1542 | 0.920 | 0.458 | | 1.25 | **1.72** | | 0.00 | 0.000 | 0.00 | 3.81 | 0.00 | | |
| 20.49 | 143.66 | 1.3206 | 58.86 | 1.57 | 2.67% | 2.729 | 0.72 | 57.93 | 2.38 | 2.24 | 128 | 0.276 | 0.582 | 0.95 | 0.327 | 0.498 | 908.72 | 4.462 | 1.851E+05 | 2.030E+06 | 10.97 | 0.1542 | 0.920 | 0.458 | | 1.27 | **1.75** | | 0.00 | 0.000 | 0.00 | 3.81 | 0.00 | | |
| 20.55 | 143.78 | 1.3249 | 61.79 | 1.57 | 2.54% | 2.597 | 0.71 | 60.72 | 2.35 | 2.13 | 128 | 0.274 | 0.544 | 0.95 | 0.329 | 0.499 | 908.72 | 4.465 | 1.849E+05 | 2.030E+06 | 10.98 | 0.1542 | 0.920 | 0.459 | | 1.19 | **1.63** | | 0.00 | 0.000 | 0.00 | 3.81 | 0.00 | | |
| 20.64 | 144.44 | 1.3314 | 73.31 | 1.63 | 2.22% | 2.265 | 0.69 | 72.02 | 2.26 | 1.82 | 130 | 0.282 | 0.498 | 0.95 | 0.332 | 0.499 | 915.06 | 4.486 | 1.867E+05 | 2.030E+06 | 10.87 | 0.1542 | 0.920 | 0.459 | | 1.08 | **1.49** | | 0.00 | 0.000 | 0.00 | 3.81 | 0.00 | | |
| 20.69 | 144.91 | 1.3350 | 80.44 | 1.68 | 2.09% | 2.124 | 0.67 | 78.99 | 2.21 | 1.69 | 132 | 0.294 | 0.486 | 0.95 | 0.334 | 0.499 | 920.17 | 4.500 | 1.881E+05 | 2.030E+06 | 10.79 | 0.1542 | 0.920 | 0.460 | | 1.06 | **1.46** | | 0.00 | 0.000 | 0.00 | 3.81 | 0.00 | | |
| 20.77 | 143.72 | 1.3408 | 92.84 | 1.36 | 1.46% | 1.486 | 0.63 | 91.07 | 2.06 | 1.38 | 124 | 0.259 | 0.373 | 0.95 | 0.336 | 0.500 | 884.43 | 4.463 | 1.753E+05 | 2.030E+06 | 11.58 | 0.1542 | 0.918 | 0.459 | | 0.81 | **1.12** | <= | 0.37 | 0.004 | 0.00 | 3.81 | 0.00 | 20.69 | 20.77 |
| 20.82 | 142.22 | 1.3443 | 96.55 | 1.10 | 1.14% | 1.155 | 0.60 | 94.57 | 1.97 | 1.27 | 118 | 0.234 | 0.363 | 0.95 | 0.338 | 0.500 | 848.54 | 4.417 | 1.630E+05 | 2.030E+06 | 12.45 | 0.1542 | 0.916 | 0.458 | | 0.79 | **1.09** | <= | 0.73 | 0.004 | 0.00 | 3.81 | 0.00 | 20.77 | 20.82 |
| 20.89 | 142.81 | 1.3493 | 98.89 | 1.18 | 1.19% | 1.210 | 0.60 | 96.62 | 1.98 | 1.27 | 122 | 0.247 | 0.357 | 0.95 | 0.340 | 0.500 | 860.41 | 4.435 | 1.669E+05 | 2.030E+06 | 12.16 | 0.1542 | 0.917 | 0.459 | | 0.78 | **1.07** | <= | 0.66 | 0.006 | 0.00 | 3.80 | 0.00 | 20.82 | 20.89 |
| 20.95 | 143.33 | 1.3536 | 100.45 | 1.26 | 1.25% | 1.271 | 0.60 | 97.92 | 1.99 | 1.29 | 125 | 0.260 | 0.376 | 0.95 | 0.342 | 0.501 | 871.51 | 4.451 | 1.706E+05 | 2.030E+06 | 11.90 | 0.1542 | 0.918 | 0.459 | | 0.82 | **1.13** | <= | 0.38 | 0.003 | 0.00 | 3.80 | 0.00 | 20.89 | 20.95 |
| 21.00 | 143.69 | 1.3572 | 100.65 | 1.32 | 1.31% | 1.329 | 0.61 | 97.92 | 2.00 | 1.30 | 126 | 0.267 | 0.357 | 0.95 | 0.343 | 0.501 | 879.38 | 4.462 | 1.733E+05 | 2.030E+06 | 11.71 | 0.1542 | 0.918 | 0.460 | | 0.78 | **1.07** | <= | 0.63 | 0.004 | 0.00 | 3.80 | 0.00 | 20.95 | 21.00 |
| 21.07 | 143.82 | 1.3622 | 90.10 | 1.39 | 1.54% | 1.566 | 0.63 | 87.27 | 2.09 | 1.43 | 124 | 0.256 | 0.401 | 0.95 | 0.345 | 0.501 | 888.12 | 4.466 | 1.766E+05 | 2.030E+06 | 11.50 | 0.1542 | 0.919 | 0.461 | | 0.87 | **1.20** | <= | 0.48 | 0.004 | 0.00 | 3.79 | 0.00 | 21.00 | 21.07 |
| 21.16 | 144.43 | 1.3687 | 98.01 | 1.47 | 1.50% | 1.521 | 0.62 | 94.70 | 2.05 | 1.37 | 129 | 0.280 | 0.377 | 0.95 | 0.348 | 0.502 | 897.59 | 4.485 | 1.796E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.461 | | 0.82 | **1.12** | <= | 0.37 | 0.004 | 0.00 | 3.79 | 0.00 | 21.07 | 21.16 |
| 21.20 | 144.64 | 1.3716 | 97.91 | 1.52 | 1.55% | 1.575 | 0.63 | 94.44 | 2.06 | 1.39 | 130 | 0.286 | 0.386 | 0.95 | 0.349 | 0.502 | 903.24 | 4.492 | 1.816E+05 | 2.030E+06 | 11.18 | 0.1542 | 0.919 | 0.462 | | 0.84 | **1.15** | <= | 0.40 | 0.002 | 0.00 | 3.78 | 0.00 | 21.16 | 21.20 |
| 21.30 | 144.97 | 1.3789 | 95.47 | 1.60 | 1.68% | 1.700 | 0.64 | 91.68 | 2.09 | 1.44 | 132 | 0.292 | 0.396 | 0.95 | 0.353 | 0.502 | 911.92 | 4.502 | 1.847E+05 | 2.030E+06 | 10.99 | 0.1542 | 0.920 | 0.462 | | 0.86 | **1.18** | <= | 0.43 | 0.005 | 0.00 | 3.78 | 0.00 | 21.20 | 21.30 |
| 21.34 | 145.07 | 1.3818 | 94.40 | 1.63 | 1.73% | 1.752 | 0.64 | 90.49 | 2.11 | 1.47 | 132 | 0.295 | 0.400 | 0.95 | 0.354 | 0.503 | 915.06 | 4.505 | 1.859E+05 | 2.030E+06 | 10.92 | 0.1542 | 0.920 | 0.463 | | 0.87 | **1.19** | <= | 0.45 | 0.002 | 0.00 | 3.78 | 0.00 | 21.30 | 21.34 |
| 21.39 | 145.16 | 1.3854 | 93.52 | 1.66 | 1.78% | 1.802 | 0.64 | 89.45 | 2.12 | 1.49 | 133 | 0.298 | 0.405 | 0.95 | 0.355 | 0.503 | 918.15 | 4.508 | 1.870E+05 | 2.030E+06 | 10.86 | 0.1542 | 0.920 | 0.463 | | 0.88 | **1.20** | <= | 0.24 | 0.001 | 0.00 | 3.77 | 0.00 | 21.34 | 21.39 |
| 21.49 | 145.33 | 1.3927 | 94.49 | 1.69 | 1.79% | 1.815 | 0.64 | 90.02 | 2.12 | 1.49 | 134 | 0.303 | 0.414 | 0.95 | 0.358 | 0.503 | 921.18 | 4.513 | 1.880E+05 | 2.030E+06 | 10.80 | 0.1542 | 0.920 | 0.463 | | 0.89 | **1.23** | <= | 0.26 | 0.003 | 0.00 | 3.77 | 0.00 | 21.39 | 21.49 |
| 21.53 | 145.46 | 1.3956 | 97.13 | 1.70 | 1.75% | 1.776 | 0.64 | 92.42 | 2.10 | 1.46 | 135 | 0.308 | 0.385 | 0.95 | 0.360 | 0.504 | 922.18 | 4.517 | 1.883E+05 | 2.030E+06 | 10.78 | 0.1542 | 0.920 | 0.464 | | 0.83 | **1.14** | <= | 0.38 | 0.002 | 0.00 | 3.77 | 0.00 | 21.49 | 21.53 |
| 21.60 | 145.72 | 1.4007 | 102.11 | 1.74 | 1.70% | 1.728 | 0.63 | 96.95 | 2.08 | 1.42 | 138 | 0.322 | 0.405 | 0.95 | 0.362 | 0.504 | 926.11 | 4.525 | 1.895E+05 | 2.030E+06 | 10.71 | 0.1542 | 0.921 | 0.464 | | 0.87 | **1.20** | <= | 0.23 | 0.002 | 0.00 | 3.77 | 0.00 | 21.53 | 21.60 |
| 21.67 | 146.06 | 1.4058 | 108.45 | 1.78 | 1.64% | 1.663 | 0.62 | 102.76 | 2.05 | 1.37 | 141 | 0.340 | 0.340 | 0.95 | 0.364 | 0.504 | 929.95 | 4.536 | 1.907E+05 | 2.030E+06 | 10.65 | 0.1542 | 0.921 | 0.464 | | 0.73 | **1.01** | <= | 0.46 | 0.004 | 0.00 | 3.77 | 0.00 | 21.60 | 21.67 |
| 21.75 | 146.61 | 1.4117 | 115.58 | 1.88 | 1.63% | 1.647 | 0.62 | 109.25 | 2.03 | 1.34 | 146 | 0.372 | 0.372 | 0.95 | 0.367 | 0.505 | 939.20 | 4.553 | 1.937E+05 | 2.030E+06 | 10.48 | 0.1542 | 0.921 | 0.465 | | 0.80 | **1.10** | <= | 0.31 | 0.003 | 0.00 | 3.76 | 0.00 | 21.67 | 21.75 |
| 21.80 | 146.89 | 1.4153 | 120.36 | 1.93 | 1.60% | 1.623 | 0.61 | 113.59 | 2.01 | 1.31 | 150 | 0.392 | 0.392 | 0.95 | 0.368 | 0.505 | 943.64 | 4.562 | 1.952E+05 | 2.030E+06 | 10.40 | 0.1542 | 0.921 | 0.465 | | 0.84 | **1.16** | <= | 0.37 | 0.002 | 0.00 | 3.76 | 0.00 | 21.75 | 21.80 |
| 21.86 | 147.21 | 1.4197 | 127.10 | 1.98 | 1.56% | 1.575 | 0.60 | 119.73 | 1.99 | 1.28 | 154 | 0.420 | 0.420 | 0.95 | 0.370 | 0.505 | 947.97 | 4.572 | 1.966E+05 | 2.030E+06 | 10.33 | 0.1542 | 0.922 | 0.466 | | 0.90 | **1.24** | <= | 0.24 | 0.002 | 0.00 | 3.76 | 0.00 | 21.80 | 21.86 |
| 21.93 | 147.31 | 1.4249 | 130.61 | 1.99 | 1.52% | 1.540 | 0.60 | 122.72 | 1.97 | 1.26 | 156 | 0.432 | 0.432 | 0.95 | 0.372 | 0.505 | 948.82 | 4.575 | 1.968E+05 | 2.030E+06 | 10.32 | 0.1542 | 0.922 | 0.466 | | 0.93 | **1.27** | <= | 0.27 | 0.002 | 0.00 | 3.76 | 0.00 | 21.86 | 21.93 |
| 22.00 | 147.35 | 1.4301 | 134.52 | 1.98 | 1.47% | 1.488 | 0.59 | 126.07 | 1.95 | 1.24 | 157 | 0.443 | 0.443 | 0.95 | 0.374 | 0.506 | 947.97 | 4.576 | 1.964E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.466 | | 0.95 | **1.31** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.07 | 147.35 | 1.4352 | 135.79 | 1.97 | 1.45% | 1.466 | 0.59 | 126.91 | 1.94 | 1.23 | 158 | 0.445 | 0.445 | 0.95 | 0.377 | 0.506 | 947.11 | 4.576 | 1.960E+05 | 2.030E+06 | 10.36 | 0.1542 | 0.922 | 0.466 | | 0.95 | **1.31** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.12 | 147.39 | 1.4389 | 135.30 | 1.98 | 1.46% | 1.479 | 0.59 | 126.19 | 1.95 | 1.24 | 158 | 0.443 | 0.443 | 0.95 | 0.378 | 0.506 | 947.97 | 4.577 | 1.963E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.467 | | 0.95 | **1.31** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.20 | 147.33 | 1.4448 | 133.74 | 1.98 | 1.48% | 1.497 | 0.59 | 124.32 | 1.96 | 1.25 | 156 | 0.436 | 0.436 | 0.95 | 0.381 | 0.507 | 947.97 | 4.575 | 1.964E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.467 | | 0.93 | **1.29** | <= | 0.28 | 0.003 | 0.00 | 3.75 | 0.00 | 22.12 | 22.20 |
| 22.25 | 147.36 | 1.4485 | 133.84 | 1.98 | 1.48% | 1.496 | 0.59 | 124.16 | 1.96 | 1.25 | 156 | 0.436 | 0.436 | 0.95 | 0.382 | 0.507 | 947.97 | 4.576 | 1.964E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.467 | | 0.93 | **1.28** | <= | 0.28 | 0.002 | 0.00 | 3.75 | 0.00 | 22.20 | 22.25 |
| 22.33 | 147.44 | 1.4544 | 136.57 | 1.99 | 1.46% | 1.473 | 0.59 | 126.31 | 1.95 | 1.24 | 158 | 0.446 | 0.446 | 0.95 | 0.385 | 0.507 | 948.82 | 4.579 | 1.966E+05 | 2.030E+06 | 10.32 | 0.1542 | 0.922 | 0.467 | | 0.95 | **1.31** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.40 | 147.63 | 1.4595 | 141.25 | 2.02 | 1.43% | 1.445 | 0.59 | 130.32 | 1.93 | 1.22 | 161 | 0.467 | 0.467 | 0.95 | 0.387 | 0.508 | 951.35 | 4.585 | 1.974E+05 | 2.030E+06 | 10.28 | 0.1542 | 0.922 | 0.468 | | 1.00 | **1.37** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.47 | 147.87 | 1.4647 | 146.62 | 2.06 | 1.40% | 1.419 | 0.58 | 134.95 | 1.91 | 1.20 | 164 | 0.494 | 0.494 | 0.95 | 0.389 | 0.508 | 954.67 | 4.592 | 1.985E+05 | 2.030E+06 | 10.23 | 0.1542 | 0.922 | 0.468 | | 1.05 | **1.45** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.52 | 147.99 | 1.4684 | 149.65 | 2.08 | 1.39% | 1.404 | 0.58 | 137.49 | 1.90 | 1.19 | 166 | 0.509 | 0.509 | 0.95 | 0.391 | 0.508 | 956.30 | 4.596 | 1.990E+05 | 2.030E+06 | 10.20 | 0.1542 | 0.922 | 0.468 | | 1.09 | **1.50** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.60 | 148.10 | 1.4743 | 158.24 | 2.07 | 1.31% | 1.320 | 0.57 | 144.99 | 1.87 | 1.16 | 171 | 0.546 | 0.546 | 0.95 | 0.393 | 0.508 | 955.49 | 4.599 | 1.985E+05 | 2.030E+06 | 10.23 | 0.1542 | 0.922 | 0.469 | | 1.16 | **1.60** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.67 | 148.34 | 1.4795 | 170.83 | 2.09 | 1.22% | 1.234 | 0.56 | 156.19 | 1.82 | 1.12 | 179 | 0.613 | 0.613 | 0.95 | 0.395 | 0.509 | 957.11 | 4.607 | 1.988E+05 | 2.030E+06 | 10.21 | 0.1542 | 0.922 | 0.469 | | 1.31 | **1.80** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.74 | 148.87 | 1.4847 | 185.48 | 2.19 | 1.18% | 1.190 | 0.54 | 169.23 | 1.79 | 1.10 | 190 | 0.714 | 0.714 | 0.95 | 0.397 | 0.509 | 965.02 | 4.623 | 2.014E+05 | 2.030E+06 | 10.08 | 0.1542 | 0.922 | 0.469 | | 1.52 | **2.09** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.82 | 145.86 | 1.4906 | 200.51 | 1.41 | 0.70% | 0.708 | 0.50 | 182.49 | 1.61 | 1.00 | 187 | 0.687 | 0.687 | 0.95 | 0.400 | 0.509 | 890.54 | 4.530 | 1.751E+05 | 2.030E+06 | 11.60 | 0.1542 | 0.918 | 0.468 | | 1.47 | **2.02** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.86 | 145.79 | 1.4935 | 206.95 | 1.38 | 0.67% | 0.672 | 0.50 | 188.10 | 1.58 | 1.00 | 193 | 0.746 | 0.746 | 0.95 | 0.401 | 0.509 | 886.90 | 4.528 | 1.737E+05 | 2.030E+06 | 11.68 | 0.1542 | 0.918 | 0.468 | | 1.60 | **2.20** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 22.93 | 146.66 | 1.4986 | 219.54 | 1.53 | 0.70% | 0.702 | 0.50 | 199.09 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.403 | 0.510 | 904.35 | 4.555 | 1.796E+05 | 2.030E+06 | 11.31 | 0.1542 | 0.919 | 0.468 | | 1.76 | **2.42** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.00 | 147.61 | 1.5038 | 231.45 | 1.71 | 0.74% | 0.744 | 0.50 | 209.39 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.406 | 0.510 | 923.17 | 4.584 | 1.859E+05 | 2.030E+06 | 10.92 | 0.1542 | 0.920 | 0.469 | | 1.76 | **2.42** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.05 | 148.17 | 1.5075 | 237.21 | 1.83 | 0.77% | 0.776 | 0.50 | 214.21 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.407 | 0.510 | 934.64 | 4.602 | 1.898E+05 | 2.030E+06 | 10.69 | 0.1542 | 0.921 | 0.470 | | 1.75 | **2.41** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.11 | 148.86 | 1.5120 | 237.80 | 2.01 | 0.85% | 0.851 | 0.50 | 214.24 | 1.61 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.409 | 0.510 | 950.51 | 4.623 | 1.954E+05 | 2.030E+06 | 10.39 | 0.1542 | 0.921 | 0.470 | | 1.75 | **2.41** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.18 | 149.65 | 1.5172 | 242.09 | 2.23 | 0.92% | 0.927 | 0.50 | 217.52 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.411 | 0.511 | 968.08 | 4.648 | 2.017E+05 | 2.030E+06 | 10.07 | 0.1542 | 0.922 | 0.471 | | 1.75 | **2.41** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.27 | 150.42 | 1.5240 | 254.10 | 2.43 | 0.96% | 0.962 | 0.50 | 227.56 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.94 | 0.414 | 0.511 | 982.61 | 4.671 | 2.067E+05 | 2.030E+06 | 9.82 | 0.1542 | 0.923 | 0.472 | | 1.75 | **2.40** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.32 | 151.10 | 1.5277 | 258.89 | 2.65 | 1.02% | 1.030 | 0.50 | 231.41 | 1.65 | 1.00 | 200 | 0.825 | 0.825 | 0.94 | 0.416 | 0.511 | 997.27 | 4.693 | 2.119E+05 | 2.030E+06 | 9.58 | 0.1542 | 0.925 | 0.473 | | 1.75 | **2.40** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.37 | 151.57 | 1.5315 | 262.01 | 2.82 | 1.08% | 1.083 | 0.51 | 233.74 | 1.66 | 1.01 | 202 | 0.847 | 0.847 | 0.94 | 0.417 | 0.511 | 1007.79 | 4.707 | 2.158E+05 | 2.030E+06 | 9.41 | 0.1542 | 0.925 | 0.473 | | 1.79 | **2.46** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.45 | 152.17 | 1.5376 | 263.38 | 3.05 | 1.16% | 1.165 | 0.51 | 234.21 | 1.68 | 1.03 | 205 | 0.884 | 0.884 | 0.94 | 0.420 | 0.512 | 1021.05 | 4.726 | 2.206E+05 | 2.030E+06 | 9.20 | 0.1542 | 0.926 | 0.474 | | 1.87 | **2.57** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.50 | 152.44 | 1.5414 | 262.20 | 3.17 | 1.21% | 1.216 | 0.52 | 232.68 | 1.70 | 1.04 | 207 | 0.910 | 0.910 | 0.94 | 0.421 | 0.512 | 1027.58 | 4.734 | 2.230E+05 | 2.030E+06 | 9.10 | 0.1542 | 0.927 | 0.474 | | 1.92 | **2.64** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-3

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A (ft$^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft$^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.58 | 152.63 | 1.5475 | 258.89 | 3.27 | 1.26% | 1.271 | 0.52 | 228.98 | 1.72 | 1.05 | 210 | 0.941 | 0.941 | 0.94 | 0.424 | 0.512 | 1032.83 |
| 23.62 | 152.64 | 1.5506 | 257.23 | 3.28 | 1.28% | 1.283 | 0.52 | 227.14 | 1.72 | 1.05 | 211 | 0.949 | 0.949 | 0.94 | 0.425 | 0.512 | 1033.35 |
| 23.70 | 152.47 | 1.5567 | 252.25 | 3.23 | 1.28% | 1.288 | 0.53 | 222.00 | 1.73 | 1.06 | 212 | 0.962 | 0.962 | 0.94 | 0.427 | 0.512 | 1030.75 |
| 23.76 | 152.17 | 1.5613 | 248.24 | 3.11 | 1.25% | 1.261 | 0.53 | 217.92 | 1.73 | 1.06 | 211 | 0.958 | 0.958 | 0.94 | 0.429 | 0.513 | 1024.35 |
| 23.84 | 151.64 | 1.5673 | 241.51 | 2.92 | 1.21% | 1.217 | 0.53 | 211.31 | 1.72 | 1.05 | 211 | 0.952 | 0.952 | 0.94 | 0.432 | 0.513 | 1013.68 |
| 23.90 | 151.24 | 1.5719 | 237.12 | 2.79 | 1.18% | 1.184 | 0.52 | 206.95 | 1.72 | 1.05 | 210 | 0.947 | 0.947 | 0.94 | 0.434 | 0.513 | 1005.98 |
| 23.97 | 150.64 | 1.5771 | 233.89 | 2.58 | 1.10% | 1.111 | 0.52 | 203.56 | 1.70 | 1.04 | 208 | 0.919 | 0.919 | 0.94 | 0.436 | 0.513 | 992.74 |
| 24.03 | 150.34 | 1.5816 | 233.94 | 2.47 | 1.06% | 1.063 | 0.52 | 203.13 | 1.69 | 1.03 | 206 | 0.897 | 0.897 | 0.94 | 0.438 | 0.514 | 985.37 |
| 24.12 | 149.90 | 1.5884 | 233.70 | 2.33 | 1.00% | 1.004 | 0.51 | 202.22 | 1.67 | 1.02 | 204 | 0.868 | 0.868 | 0.94 | 0.441 | 0.514 | 975.50 |
| 24.15 | 149.81 | 1.5906 | 233.99 | 2.30 | 0.98% | 0.990 | 0.51 | 202.23 | 1.67 | 1.02 | 203 | 0.861 | 0.861 | 0.94 | 0.441 | 0.514 | 973.31 |
| 24.25 | 149.54 | 1.5981 | 233.31 | 2.22 | 0.95% | 0.958 | 0.51 | 200.88 | 1.66 | 1.01 | 202 | 0.847 | 0.847 | 0.94 | 0.445 | 0.514 | 967.32 |
| 24.30 | 149.40 | 1.6018 | 229.79 | 2.19 | 0.95% | 0.960 | 0.51 | 197.45 | 1.67 | 1.01 | 203 | 0.855 | 0.855 | 0.94 | 0.446 | 0.515 | 965.02 |
| 24.38 | 149.15 | 1.6078 | 225.40 | 2.13 | 0.94% | 0.952 | 0.51 | 193.06 | 1.67 | 1.02 | 203 | 0.861 | 0.861 | 0.94 | 0.449 | 0.515 | 960.32 |
| 24.43 | 148.85 | 1.6115 | 218.86 | 2.06 | 0.94% | 0.948 | 0.51 | 187.07 | 1.68 | 1.02 | 202 | 0.844 | 0.844 | 0.94 | 0.450 | 0.515 | 954.67 |
| 24.48 | 148.59 | 1.6152 | 215.64 | 2.00 | 0.93% | 0.934 | 0.51 | 183.95 | 1.68 | 1.02 | 199 | 0.809 | 0.809 | 0.94 | 0.452 | 0.515 | 949.67 |
| 24.57 | 147.83 | 1.6219 | 205.00 | 1.83 | 0.89% | 0.900 | 0.51 | 174.23 | 1.68 | 1.03 | 189 | 0.708 | 0.708 | 0.94 | 0.455 | 0.515 | 934.64 |
| 24.62 | 147.36 | 1.6256 | 197.09 | 1.74 | 0.88% | 0.890 | 0.52 | 167.14 | 1.69 | 1.03 | 183 | 0.646 | 0.646 | 0.94 | 0.456 | 0.516 | 926.11 |
| 24.70 | 146.70 | 1.6315 | 189.87 | 1.61 | 0.85% | 0.855 | 0.52 | 160.50 | 1.69 | 1.03 | 176 | 0.584 | 0.584 | 0.94 | 0.459 | 0.516 | 912.97 |
| 24.74 | 146.37 | 1.6344 | 186.06 | 1.55 | 0.83% | 0.840 | 0.52 | 157.03 | 1.69 | 1.03 | 172 | 0.554 | 0.554 | 0.94 | 0.460 | 0.516 | 906.55 |
| 24.83 | 145.87 | 1.6409 | 172.59 | 1.49 | 0.86% | 0.872 | 0.53 | 145.09 | 1.73 | 1.06 | 163 | 0.481 | 0.481 | 0.94 | 0.463 | 0.516 | 899.87 |
| 24.88 | 145.86 | 1.6446 | 163.41 | 1.51 | 0.92% | 0.933 | 0.54 | 137.05 | 1.77 | 1.08 | 158 | 0.443 | 0.443 | 0.94 | 0.464 | 0.516 | 902.13 |
| 24.96 | 146.02 | 1.6504 | 152.38 | 1.58 | 1.04% | 1.048 | 0.56 | 127.34 | 1.83 | 1.13 | 152 | 0.406 | 0.406 | 0.94 | 0.467 | 0.517 | 909.79 |
| 25.01 | 146.17 | 1.6541 | 137.94 | 1.67 | 1.21% | 1.225 | 0.58 | 114.93 | 1.91 | 1.19 | 145 | 0.364 | 0.364 | 0.94 | 0.468 | 0.517 | 919.16 |
| 25.09 | 145.85 | 1.6599 | 118.90 | 1.68 | 1.41% | 1.433 | 0.61 | 98.59 | 2.00 | 1.30 | 135 | 0.310 | 0.311 | 0.94 | 0.471 | 0.517 | 920.17 |
| 25.18 | 144.67 | 1.6664 | 85.22 | 1.60 | 1.88% | 1.915 | 0.67 | 70.05 | 2.20 | 1.66 | 122 | 0.248 | 0.416 | 0.94 | 0.474 | 0.517 | 911.92 |
| 25.21 | 144.14 | 1.6686 | 74.39 | 1.55 | 2.08% | 2.131 | 0.69 | 60.90 | 2.28 | 1.87 | 119 | 0.237 | 0.445 | 0.94 | 0.475 | 0.518 | 906.55 |
| 25.28 | 143.37 | 1.6736 | 55.06 | 1.55 | 2.82% | 2.903 | 0.75 | 44.60 | 2.47 | 2.61 | 121 | 0.244 | 0.278 | 0.94 | 0.477 | 0.518 | 906.55 |
| 25.35 | 142.78 | 1.6786 | 42.56 | 1.55 | 3.64% | 3.791 | 0.80 | 34.08 | 2.63 | 3.55 | 124 | 0.259 | 0.317 | 0.94 | 0.479 | 0.518 | 906.55 |
| 25.42 | 142.23 | 1.6836 | 35.34 | 1.53 | 4.33% | 4.546 | 0.83 | 27.99 | 2.75 | 4.39 | 145 | 0.364 | 0.364 | 0.94 | 0.481 | 0.518 | 904.35 |
| 25.46 | 141.98 | 1.6864 | 29.09 | 1.58 | 5.43% | 5.766 | 0.88 | 22.76 | 2.89 | 5.60 | 185 | 0.668 | 0.668 | 0.94 | 0.482 | 0.518 | 909.79 |
| 25.53 | 143.47 | 1.6914 | 45.78 | 1.67 | 3.65% | 3.788 | 0.79 | 36.53 | 2.61 | 3.40 | 128 | 0.275 | 0.331 | 0.94 | 0.485 | 0.519 | 919.16 |
| 25.59 | 145.27 | 1.6958 | 76.34 | 1.80 | 2.36% | 2.411 | 0.70 | 61.72 | 2.31 | 1.97 | 127 | 0.272 | 0.488 | 0.94 | 0.486 | 0.519 | 931.84 |
| 25.68 | 146.63 | 1.7024 | 104.84 | 1.95 | 1.86% | 1.891 | 0.65 | 85.01 | 2.13 | 1.51 | 136 | 0.313 | 0.367 | 0.94 | 0.489 | 0.519 | 945.38 |
| 25.73 | 146.77 | 1.7061 | 109.33 | 1.96 | 1.79% | 1.821 | 0.64 | 88.56 | 2.11 | 1.47 | 137 | 0.321 | 0.377 | 0.94 | 0.491 | 0.519 | 946.25 |
| 25.81 | 146.97 | 1.7120 | 118.41 | 1.96 | 1.66% | 1.680 | 0.62 | 95.76 | 2.06 | 1.38 | 140 | 0.337 | 0.337 | 0.94 | 0.493 | 0.519 | 946.25 |
| 25.86 | 147.00 | 1.7156 | 125.64 | 1.93 | 1.54% | 1.557 | 0.61 | 101.51 | 2.01 | 1.32 | 143 | 0.349 | 0.349 | 0.94 | 0.495 | 0.520 | 943.64 |
| 25.93 | 146.84 | 1.7208 | 138.52 | 1.83 | 1.32% | 1.338 | 0.59 | 111.79 | 1.94 | 1.23 | 147 | 0.372 | 0.372 | 0.94 | 0.497 | 0.520 | 934.64 |
| 26.00 | 146.72 | 1.7259 | 150.92 | 1.75 | 1.16% | 1.173 | 0.57 | 121.62 | 1.87 | 1.16 | 152 | 0.405 | 0.405 | 0.94 | 0.499 | 0.520 | 927.08 |
| 26.05 | 146.85 | 1.7296 | 164.00 | 1.73 | 1.05% | 1.066 | 0.55 | 132.05 | 1.81 | 1.12 | 159 | 0.454 | 0.454 | 0.94 | 0.501 | 0.520 | 925.13 |
| 26.12 | 147.05 | 1.7347 | 174.74 | 1.74 | 1.00% | 1.006 | 0.54 | 140.45 | 1.78 | 1.09 | 165 | 0.501 | 0.501 | 0.94 | 0.503 | 0.520 | 926.11 |
| 26.20 | 147.47 | 1.7406 | 190.94 | 1.79 | 0.94% | 0.946 | 0.53 | 153.18 | 1.73 | 1.06 | 176 | 0.585 | 0.585 | 0.94 | 0.505 | 0.521 | 930.90 |
| 26.26 | 147.86 | 1.7451 | 201.78 | 1.85 | 0.92% | 0.925 | 0.52 | 161.61 | 1.71 | 1.04 | 183 | 0.650 | 0.650 | 0.94 | 0.507 | 0.521 | 936.48 |
| 26.33 | 148.34 | 1.7502 | 216.03 | 1.93 | 0.89% | 0.901 | 0.51 | 172.70 | 1.68 | 1.02 | 192 | 0.741 | 0.741 | 0.94 | 0.509 | 0.521 | 943.64 |
| 26.40 | 148.81 | 1.7555 | 223.45 | 2.04 | 0.91% | 0.920 | 0.51 | 178.24 | 1.67 | 1.02 | 198 | 0.805 | 0.805 | 0.94 | 0.512 | 0.521 | 953.02 |
| 26.45 | 149.19 | 1.7592 | 229.21 | 2.13 | 0.93% | 0.936 | 0.51 | 182.55 | 1.67 | 1.02 | 203 | 0.857 | 0.857 | 0.94 | 0.513 | 0.521 | 960.32 |
| 26.53 | 149.85 | 1.7652 | 236.53 | 2.30 | 0.97% | 0.980 | 0.51 | 187.90 | 1.67 | 1.02 | 204 | 0.871 | 0.871 | 0.94 | 0.516 | 0.522 | 973.31 |
| 26.58 | 150.16 | 1.7689 | 240.83 | 2.39 | 0.99% | 1.000 | 0.51 | 191.00 | 1.68 | 1.02 | 204 | 0.873 | 0.873 | 0.94 | 0.517 | 0.522 | 979.80 |
| 26.66 | 150.59 | 1.7750 | 244.14 | 2.52 | 1.03% | 1.040 | 0.51 | 193.09 | 1.69 | 1.03 | 206 | 0.888 | 0.888 | 0.94 | 0.520 | 0.522 | 988.76 |
| 26.71 | 150.82 | 1.7787 | 247.56 | 2.59 | 1.05% | 1.054 | 0.51 | 195.47 | 1.69 | 1.03 | 206 | 0.889 | 0.889 | 0.94 | 0.521 | 0.522 | 993.40 |
| 26.78 | 151.11 | 1.7840 | 249.81 | 2.69 | 1.08% | 1.085 | 0.52 | 196.77 | 1.69 | 1.03 | 207 | 0.900 | 0.900 | 0.94 | 0.524 | 0.522 | 999.81 |
| 26.85 | 151.28 | 1.7893 | 250.59 | 2.75 | 1.10% | 1.105 | 0.52 | 196.90 | 1.70 | 1.04 | 207 | 0.909 | 0.909 | 0.94 | 0.526 | 0.522 | 1003.54 |
| 26.94 | 151.50 | 1.7961 | 250.29 | 2.83 | 1.13% | 1.139 | 0.52 | 196.03 | 1.71 | 1.04 | 209 | 0.927 | 0.927 | 0.94 | 0.529 | 0.523 | 1008.39 |
| 26.99 | 151.52 | 1.7999 | 248.73 | 2.85 | 1.15% | 1.154 | 0.52 | 194.46 | 1.72 | 1.05 | 210 | 0.937 | 0.937 | 0.94 | 0.530 | 0.523 | 1009.58 |
| 27.07 | 151.44 | 1.8060 | 246.10 | 2.83 | 1.15% | 1.158 | 0.52 | 191.85 | 1.72 | 1.05 | 210 | 0.945 | 0.945 | 0.94 | 0.533 | 0.523 | 1008.39 |
| 27.11 | 151.33 | 1.8090 | 241.70 | 2.80 | 1.16% | 1.167 | 0.53 | 188.13 | 1.73 | 1.06 | 211 | 0.959 | 0.959 | 0.94 | 0.534 | 0.523 | 1006.59 |
| 27.19 | 151.09 | 1.8150 | 236.53 | 2.73 | 1.15% | 1.163 | 0.53 | 183.56 | 1.73 | 1.06 | 212 | 0.968 | 0.968 | 0.94 | 0.536 | 0.523 | 1002.30 |
| 27.24 | 150.86 | 1.8188 | 229.70 | 2.67 | 1.16% | 1.172 | 0.53 | 177.90 | 1.75 | 1.07 | 210 | 0.936 | 0.936 | 0.94 | 0.538 | 0.523 | 998.54 |
| 27.32 | 150.52 | 1.8248 | 222.38 | 2.58 | 1.16% | 1.170 | 0.53 | 171.71 | 1.76 | 1.08 | 204 | 0.866 | 0.866 | 0.94 | 0.540 | 0.523 | 992.74 |
| 27.38 | 150.27 | 1.8293 | 216.03 | 2.52 | 1.17% | 1.176 | 0.54 | 166.42 | 1.77 | 1.08 | 199 | 0.811 | 0.811 | 0.94 | 0.542 | 0.524 | 988.76 |
| 27.47 | 149.85 | 1.8361 | 210.08 | 2.40 | 1.14% | 1.152 | 0.54 | 161.30 | 1.77 | 1.08 | 193 | 0.752 | 0.752 | 0.93 | 0.545 | 0.524 | 980.51 |
| 27.51 | 149.65 | 1.8391 | 207.15 | 2.34 | 1.13% | 1.140 | 0.54 | 158.81 | 1.77 | 1.09 | 191 | 0.723 | 0.723 | 0.93 | 0.546 | 0.524 | 976.23 |
| 27.59 | 149.23 | 1.8450 | 198.56 | 2.25 | 1.13% | 1.144 | 0.54 | 151.76 | 1.78 | 1.10 | 184 | 0.658 | 0.658 | 0.93 | 0.549 | 0.524 | 969.59 |
| 27.66 | 148.71 | 1.8503 | 186.06 | 2.14 | 1.15% | 1.162 | 0.55 | 141.78 | 1.81 | 1.11 | 175 | 0.575 | 0.575 | 0.93 | 0.551 | 0.524 | 961.11 |
| 27.69 | 148.46 | 1.8525 | 178.55 | 2.10 | 1.18% | 1.188 | 0.56 | 135.86 | 1.83 | 1.13 | 169 | 0.533 | 0.533 | 0.93 | 0.552 | 0.524 | 957.92 |
| 27.77 | 147.71 | 1.8584 | 162.83 | 1.95 | 1.20% | 1.211 | 0.57 | 123.45 | 1.87 | 1.16 | 158 | 0.445 | 0.445 | 0.93 | 0.554 | 0.524 | 945.38 |
| 27.83 | 147.00 | 1.8628 | 147.89 | 1.83 | 1.24% | 1.253 | 0.58 | 111.77 | 1.91 | 1.20 | 147 | 0.377 | 0.377 | 0.93 | 0.556 | 0.525 | 934.64 |
| 27.92 | 144.57 | 1.8693 | 134.03 | 1.35 | 1.01% | 1.021 | 0.57 | 100.87 | 1.88 | 1.17 | 130 | 0.286 | 0.309 | 0.93 | 0.559 | 0.525 | 883.18 |
| 27.97 | 141.99 | 1.8729 | 122.41 | 0.98 | 0.80% | 0.813 | 0.56 | 91.86 | 1.85 | 1.14 | 116 | 0.226 | 0.319 | 0.93 | 0.561 | 0.525 | 829.00 |
| 28.05 | 141.84 | 1.8785 | 113.43 | 0.99 | 0.87% | 0.887 | 0.58 | 84.81 | 1.90 | 1.19 | 111 | 0.208 | 0.315 | 0.93 | 0.563 | 0.525 | 830.71 |
| 28.09 | 141.88 | 1.8814 | 109.24 | 1.00 | 0.92% | 0.931 | 0.59 | 81.52 | 1.93 | 1.22 | 109 | 0.201 | 0.324 | 0.93 | 0.564 | 0.525 | 832.41 |
| 28.18 | 141.56 | 1.8877 | 97.33 | 1.00 | 1.03% | 1.048 | 0.61 | 72.28 | 2.00 | 1.30 | 103 | 0.182 | 0.330 | 0.93 | 0.567 | 0.525 | 832.41 |
| 28.23 | 141.72 | 1.8913 | 93.52 | 1.03 | 1.10% | 1.124 | 0.62 | 69.28 | 2.04 | 1.35 | 102 | 0.180 | 0.325 | 0.93 | 0.569 | 0.526 | 837.41 |
| 28.31 | 142.03 | 1.8970 | 81.02 | 1.13 | 1.39% | 1.428 | 0.65 | 59.68 | 2.15 | 1.56 | 101 | 0.177 | 0.356 | 0.93 | 0.571 | 0.526 | 853.09 |
| 28.35 | 142.28 | 1.8998 | 76.04 | 1.20 | 1.58% | 1.619 | 0.67 | 55.86 | 2.21 | 1.70 | 103 | 0.181 | 0.364 | 0.93 | 0.573 | 0.526 | 863.26 |
| 28.43 | 142.82 | 1.9055 | 67.84 | 1.34 | 1.98% | 2.032 | 0.70 | 49.56 | 2.32 | 2.01 | 107 | 0.194 | 0.412 | 0.93 | 0.575 | 0.526 | 881.92 |
| 28.49 | 143.05 | 1.9098 | 59.25 | 1.45 | 2.45% | 2.529 | 0.74 | 43.02 | 2.43 | 2.44 | 112 | 0.210 | 0.241 | 0.93 | 0.577 | 0.526 | 895.27 |
| 28.57 | 142.79 | 1.9155 | 50.47 | 1.47 | 2.91% | 3.028 | 0.77 | 36.34 | 2.54 | 2.97 | 114 | 0.219 | 0.263 | 0.93 | 0.579 | 0.526 | 897.59 |
| 28.62 | 142.12 | 1.9191 | 45.00 | 1.39 | 3.09% | 3.226 | 0.79 | 32.19 | 2.60 | 3.31 | 113 | 0.212 | 0.260 | 0.93 | 0.581 | 0.527 | 888.12 |
| 28.71 | 141.06 | 1.9254 | 37.39 | 1.28 | 3.42% | 3.609 | 0.82 | 26.43 | 2.70 | 3.97 | 131 | 0.289 | 0.367 | 0.93 | 0.584 | 0.527 | 874.17 |
| 28.75 | 140.82 | 1.9282 | 34.56 | 1.27 | 3.67% | 3.892 | 0.83 | 24.29 | 2.75 | 4.35 | 144 | 0.355 | 0.355 | 0.93 | 0.585 | 0.527 | 872.85 |
| 28.85 | 140.60 | 1.9353 | 30.16 | 1.29 | 4.28% | 4.570 | 0.86 | 20.95 | 2.84 | 5.16 | 170 | 0.540 | 0.540 | 0.93 | 0.588 | 0.527 | 875.49 |
| 28.89 | 140.64 | 1.9381 | 30.21 | 1.30 | 4.30% | 4.598 | 0.86 | 20.96 | 2.84 | 5.18 | 171 | 0.544 | 0.544 | 0.93 | 0.589 | 0.527 | 876.80 |
| 28.94 | 140.68 | 1.9416 | 30.21 | 1.31 | 4.34% | 4.634 | 0.86 | 20.93 | 2.85 | 5.20 | 172 | 0.551 | 0.551 | 0.93 | 0.591 | 0.527 | 878.09 |
| 29.00 | 140.53 | 1.9458 | 30.26 | 1.28 | 4.23% | 4.521 | 0.86 | 20.93 | 2.84 | 5.14 | 170 | 0.533 | 0.533 | 0.93 | 0.593 | 0.528 | 874.17 |
| 29.08 | 140.38 | 1.9514 | 30.65 | 1.25 | 4.08% | 4.356 | 0.86 | 21.16 | 2.83 | 5.01 | 165 | 0.499 | 0.499 | 0.93 | 0.595 | 0.528 | 870.16 |
| 29.16 | 140.31 | 1.9570 | 30.55 | 1.24 | 4.06% | 4.337 | 0.86 | 21.04 | 2.83 | 5.01 | 165 | 0.501 | 0.501 | 0.93 | 0.598 | 0.528 | 868.80 |
| 29.20 | 140.31 | 1.9598 | 30.46 | 1.24 | 4.07% | 4.351 | 0.86 | 20.94 | 2.83 | 5.03 | 166 | 0.506 | 0.506 | 0.93 | 0.599 | 0.528 | 868.80 |
| 29.29 | 140.34 | 1.9662 | 30.85 | 1.24 | 4.02% | 4.293 | 0.85 | 21.17 | 2.82 | 4.96 | 164 | 0.489 | 0.489 | 0.93 | 0.602 | 0.528 | 868.80 |
| 29.34 | 140.38 | 1.9697 | 31.24 | 1.24 | 3.97% | 4.236 | 0.85 | 21.42 | 2.81 | 4.89 | 162 | 0.472 | 0.472 | 0.93 | 0.603 | 0.528 | 868.80 |
| 29.40 | 140.59 | 1.9739 | 32.31 | 1.26 | 3.90% | 4.153 | 0.85 | 22.17 | 2.80 | 4.75 | 157 | 0.437 | 0.437 | 0.93 | 0.605 | 0.529 | 871.51 |
| 29.46 | 140.81 | 1.9781 | 33.19 | 1.29 | 3.89% | 4.133 | 0.84 | 22.77 | 2.79 | 4.66 | 154 | 0.418 | 0.418 | 0.93 | 0.607 | 0.529 | 875.49 |
| 29.56 | 141.05 | 1.9852 | 35.05 | 1.31 | 3.74% | 3.962 | 0.83 | 24.05 | 2.75 | 4.41 | 145 | 0.366 | 0.366 | 0.93 | 0.610 | 0.529 | 878.09 |
| 29.61 | 141.16 | 1.9887 | 36.22 | 1.31 | 3.62% | 3.827 | 0.83 | 24.86 | 2.73 | 4.24 | 140 | 0.335 | 0.335 | 0.93 | 0.612 | 0.529 | 878.09 |
| 29.69 | 141.34 | 1.9944 | 36.70 | 1.34 | 3.65% | 3.861 | 0.83 | 25.15 | 2.73 | 4.23 | 140 | 0.333 | 0.333 | 0.93 | 0.614 | 0.529 | 881.92 |
| 29.74 | 141.46 | 1.9979 | 37.78 | 1.35 | 3.57% | 3.773 | 0.82 | 25.89 | 2.71 | 4.10 | 135 | 0.311 | 0.311 | 0.93 | 0.616 | 0.529 | 883.18 |
| 29.79 | 141.59 | 2.0014 | 39.34 | 1.36 | 3.46% | 3.642 | 0.82 | 26.98 | 2.69 | 3.93 | 130 | 0.282 | 0.354 | 0.93 | 0.617 | 0.529 | 884.43 |
| 29.88 | 141.77 | 2.0078 | 42.07 | 1.36 | 3.23% | 3.395 | 0.80 | 28.87 | 2.65 | 3.62 | 120 | 0.239 | 0.294 | 0.93 | 0.620 | 0.530 | 884.43 |
| 29.94 | 141.87 | 2.0121 | 43.64 | 1.36 | 3.12% | 3.267 | 0.79 | 29.95 | 2.62 | 3.47 | 114 | 0.220 | 0.270 | 0.93 | 0.622 | 0.530 | 884.43 |
| 29.99 | 140.91 | 2.0156 | 44.81 | 1.18 | 2.63% | 2.757 | 0.78 | 30.75 | 2.56 | 3.11 | 103 | 0.181 | 0.223 | 0.93 | 0.624 | 0.530 | 860.41 |
| 30.05 | 116.84 | 2.0191 | 46.76 | 0.67 | 1.43% | 1.498 | 0.72 | 32.11 | 2.38 | 2.23 | 78 | 0.124 | 0.158 | 0.93 | 0.626 | 0.531 | 764.67 |
| 30.13 | 117.81 | 2.0238 | 49.69 | 0.75 | 1.51% | 1.573 | 0.72 | 34.15 | 2.37 | 2.20 | 81 | 0.130 | 0.163 | 0.93 | 0.628 | 0.531 | 783.75 |
| 30.19 | 118.42 | 2.0274 | 51.74 | 0.81 | 1.57% | 1.629 | 0.72 | 35.57 | 2.37 | 2.18 | 84 | 0.135 | 0.382 | 0.93 | 0.630 | 0.531 | 796.77 |
| 30.27 | 119.40 | 2.0321 | 54.67 | 0.91 | 1.66% | 1.729 | 0.72 | 37.61 | 2.36 | 2.16 | 88 | 0.144 | 0.387 | 0.93 | 0.632 | 0.531 | 816.46 |
| 30.32 | 119.95 | 2.0351 | 54.76 | 0.98 | 1.79% | 1.859 | 0.72 | 37.63 | 2.38 | 2.24 | 92 | 0.151 | 0.183 | 0.93 | 0.634 | 0.531 | 829.00 |
| 30.40 | 120.72 | 2.0400 | 54.08 | 1.09 | 2.02% | 2.095 | 0.73 | 37.08 | 2.42 | 2.40 | 96 | 0.163 | 0.197 | 0.93 | 0.636 | 0.531 | 846.99 |
| 30.46 | 121.15 | 2.0436 | 54.67 | 1.15 | 2.10% | 2.185 | 0.74 | 37.45 | 2.43 | 2.43 | 99 | 0.169 | 0.201 | 0.93 | 0.638 | 0.531 | 856.06 |
| 30.54 | 121.59 | 2.0485 | 53.40 | 1.23 | 2.30% | 2.395 | 0.75 | 36.48 | 2.46 | 2.59 | 102 | 0.179 | 0.213 | 0.93 | 0.641 | 0.531 | 867.43 |
| 30.59 | 121.86 | 2.0515 | 54.57 | 1.27 | 2.33% | 2.418 | 0.75 | 37.27 | 2.46 | 2.57 | 104 | 0.183 | 0.218 | 0.93 | 0.642 | 0.531 | 872.85 |
| 30.67 | 121.48 | 2.0564 | 56.81 | 1.19 | 2.09% | 2.173 | 0.73 | 38.79 | 2.41 | 2.37 | 100 | 0.173 | 0.205 | 0.93 | 0.645 | 0.531 | 861.84 |
| 30.73 | 118.77 | 2.0599 | 60.43 | 0.80 | 1.32% | 1.371 | 0.69 | 41.30 | 2.26 | 1.84 | 84 | 0.134 | 0.343 | 0.93 | 0.647 | 0.531 | 794.67 |
| 30.82 | 117.14 | 2.0652 | 65.50 | 0.63 | 0.96% | 0.993 | 0.65 | 44.81 | 2.15 | 1.55 | 77 | 0.123 | 0.315 | 0.92 | 0.650 | 0.531 | 754.26 |
| 30.86 | 118.20 | 2.0676 | 67.06 | 0.72 | 1.07% | 1.108 | 0.66 | 45.87 | 2.17 | 1.59 | 81 | 0.130 | 0.333 | 0.92 | 0.651 | 0.531 | 776.84 |
| 30.94 | 119.99 | 2.0724 | 70.68 | 0.90 | 1.27% | 1.312 | 0.67 | 48.35 | 2.20 | 1.66 | 89 | 0.145 | 0.336 | 0.92 | 0.653 | 0.531 | 814.59 |
| 30.99 | 120.52 | 2.0754 | 64.14 | 1.00 | 1.56% | 1.611 | 0.69 | 43.69 | 2.29 | 1.91 | 92 | 0.152 | 0.370 | 0.92 | 0.655 | 0.531 | 832.41 |
| 31.05 | 121.70 | 2.0790 | 75.56 | 1.11 | 1.47% | 1.511 | 0.67 | 51.66 | 2.21 | 1.69 | 97 | 0.165 | 0.347 | 0.92 | 0.657 | 0.531 | 850.07 |
| 31.13 | 122.68 | 2.0839 | 79.27 | 1.25 | 1.58% | 1.619 | 0.67 | 54.18 | 2.21 | 1.70 | 102 | 0.180 | 0.359 | 0.92 | 0.659 | 0.531 | 870.16 |
| 31.18 | 123.15 | 2.0870 | 81.22 | 1.33 | 1.64% | 1.681 | 0.67 | 55.49 | 2.22 | 1.71 | 105 | 0.188 | 0.377 | 0.92 | 0.661 | 0.531 | 880.66 |
| 31.27 | 123.60 | 2.0926 | 83.85 | 1.40 | 1.67% | 1.712 | 0.67 | 57.22 | 2.21 | 1.70 | 108 | 0.196 | 0.374 | 0.92 | 0.664 | 0.531 | 889.33 |
| 31.30 | 123.67 | 2.0944 | 84.73 | 1.41 | 1.66% | 1.706 | 0.67 | 57.79 | 2.21 | 1.69 | 108 | 0.198 | 0.377 | 0.92 | 0.665 | 0.531 | 890.54 |
| 31.39 | 123.77 | 2.1000 | 87.66 | 1.41 | 1.61% | 1.648 | 0.66 | 59.72 | 2.19 | 1.63 | 109 | 0.199 | 0.361 | 0.92 | 0.667 | 0.531 | 890.54 |
| 31.44 | 123.86 | 2.1031 | 89.42 | 1.42 | 1.59% | 1.626 | 0.66 | 60.88 | 2.18 | 1.61 | 109 | 0.201 | 0.365 | 0.92 | 0.669 | 0.531 | 891.73 |
| 31.53 | 124.01 | 2.1087 | 91.37 | 1.44 | 1.58% | 1.613 | 0.66 | 62.12 | 2.17 | 1.59 | 110 | 0.204 | 0.352 | 0.92 | 0.672 | 0.531 | 894.10 |
| 31.59 | 124.04 | 2.1124 | 92.93 | 1.43 | 1.54% | 1.575 | 0.65 | 63.12 | 2.15 | 1.56 | 110 | 0.204 | 0.353 | 0.92 | 0.674 | 0.531 | 892.92 |
| 31.63 | 124.06 | 2.1149 | 94.10 | 1.43 | 1.52% | 1.555 | 0.65 | 63.88 | 2.15 | 1.54 | 110 | 0.205 | 0.354 | 0.92 | 0.675 | 0.531 | 892.92 |
| 31.69 | 124.14 | 2.1186 | 95.28 | 1.44 | 1.51% | 1.546 | 0.65 | 64.61 | 2.14 | 1.53 | 111 | 0.207 | 0.358 | 0.92 | 0.677 | 0.531 | 894.10 |
| 31.77 | 124.24 | 2.1236 | 96.15 | 1.46 | 1.52% | 1.553 | 0.65 | 65.10 | 2.14 | 1.53 | 112 | 0.209 | 0.343 | 0.92 | 0.679 | 0.531 | 896.43 |
| 31.84 | 124.25 | 2.1279 | 96.25 | 1.46 | 1.52% | 1.551 | 0.65 | 65.07 | 2.14 | 1.53 | 112 | 0.209 | 0.343 | 0.92 | 0.681 | 0.531 | 896.43 |
| 31.90 | 124.13 | 2.1316 | 96.25 | 1.43 | 1.49% | 1.519 | 0.65 | 64.98 | 2.13 | 1.52 | 111 | 0.206 | 0.339 | 0.92 | 0.683 | 0.531 | 892.92 |
| 31.99 | 123.71 | 2.1372 | 96.15 | 1.35 | 1.40% | 1.436 | 0.64 | 64.79 | 2.12 | 1.48 | 108 | 0.198 | 0.345 | 0.91 | 0.686 | 0.531 | 883.18 |
| 32.03 | 123.55 | 2.1397 | 95.57 | 1.33 | 1.39% | 1.424 | 0.64 | 64.33 | 2.12 | 1.48 | 108 | 0.196 | 0.341 | 0.91 | 0.687 | 0.531 | 880.66 |
| 32.12 | 123.10 | 2.1452 | 91.66 | 1.27 | 1.39% | 1.419 | 0.65 | 61.52 | 2.13 | 1.51 | 105 | 0.187 | 0.343 | 0.91 | 0.690 | 0.531 | 872.85 |
| 32.17 | 123.10 | 2.1483 | 89.81 | 1.27 | 1.41% | 1.449 | 0.65 | 60.18 | 2.14 | 1.54 | 104 | 0.185 | 0.340 | 0.91 | 0.692 | 0.531 | 872.85 |
| 32.25 | 123.12 | 2.1532 | 86.29 | 1.30 | 1.51% | 1.545 | 0.66 | 57.67 | 2.18 | 1.61 | 104 | 0.185 | 0.358 | 0.91 | 0.694 | 0.531 | 876.80 |
| 32.29 | 123.12 | 2.1557 | 84.73 | 1.30 | 1.53% | 1.574 | 0.66 | 56.55 | 2.19 | 1.64 | 104 | 0.184 | 0.357 | 0.91 | 0.695 | 0.531 | 876.80 |
| 32.35 | 124.00 | 2.1594 | 78.49 | 1.51 | 1.92% | 1.978 | 0.69 | 52.21 | 2.28 | 1.90 | 110 | 0.203 | 0.394 | 0.91 | 0.697 | 0.531 | 902.13 |
| 32.42 | 124.32 | 2.1638 | 73.02 | 1.61 | 2.20% | 2.272 | 0.71 | 48.39 | 2.35 | 2.12 | 113 | 0.215 | 0.437 | 0.91 | 0.700 | 0.531 | 912.97 |
| 32.49 | 124.29 | 2.1681 | 63.84 | 1.68 | 2.63% | 2.724 | 0.74 | 42.06 | 2.45 | 2.53 | 116 | 0.227 | 0.246 | 0.91 | 0.702 | 0.530 | 920.17 |
| 32.55 | 124.42 | 2.1718 | 58.86 | 1.76 | 2.99% | 3.105 | 0.76 | 38.61 | 2.52 | 2.87 | 120 | 0.241 | 0.269 | 0.91 | 0.704 | 0.530 | 928.04 |
| 32.64 | 124.56 | 2.1774 | 56.81 | 1.81 | 3.19% | 3.313 | 0.77 | 37.14 | 2.55 | 3.04 | 122 | 0.250 | 0.287 | 0.91 | 0.706 | 0.530 | 932.78 |
| 32.70 | 124.40 | 2.1812 | 54.57 | 1.80 | 3.30% | 3.436 | 0.78 | 35.57 | 2.58 | 3.19 | 122 | 0.250 | 0.287 | 0.91 | 0.708 | 0.530 | 931.84 |
| 32.74 | 124.32 | 2.1837 | 55.15 | 1.77 | 3.21% | 3.342 | 0.78 | 35.93 | 2.56 | 3.12 | 121 | 0.245 | 0.281 | 0.91 | 0.709 | 0.530 | 929.00 |
| 32.84 | 123.85 | 2.1899 | 55.55 | 1.66 | 2.99% | 3.111 | 0.77 | 36.12 | 2.54 | 2.99 | 117 | 0.229 | 0.262 | 0.91 | 0.713 | 0.530 | 918.15 |
| 32.88 | 123.64 | 2.1923 | 54.86 | 1.62 | 2.95% | 3.076 | 0.77 | 35.62 | 2.54 | 2.99 | 116 | 0.223 | 0.256 | 0.91 | 0.714 | 0.530 | 914.02 |
| 32.97 | 123.18 | 2.1979 | 53.10 | 1.54 | 2.90% | 3.025 | 0.77 | 34.37 | 2.55 | 3.03 | 113 | 0.214 | 0.251 | 0.91 | 0.717 | 0.530 | 905.45 |
| 33.01 | 123.01 | 2.2003 | 53.69 | 1.49 | 2.78% | 2.894 | 0.77 | 34.73 | 2.53 | 2.94 | 111 | 0.206 | 0.242 | 0.91 | 0.718 | 0.530 | 899.87 |
| 33.10 | 123.04 | 2.2059 | 60.52 | 1.44 | 2.38% | 2.469 | 0.74 | 39.26 | 2.44 | 2.50 | 108 | 0.196 | 0.225 | 0.91 | 0.721 | 0.530 | 894.10 |
| 33.15 | 123.15 | 2.2089 | 66.77 | 1.42 | 2.13% | 2.199 | 0.72 | 43.43 | 2.38 | 2.21 | 106 | 0.191 | 0.215 | 0.91 | 0.722 | 0.530 | 891.73 |
| 33.23 | 123.06 | 2.2139 | 76.04 | 1.34 | 1.76% | 1.815 | 0.69 | 49.58 | 2.27 | 1.87 | 103 | 0.183 | 0.376 | 0.90 | 0.725 | 0.530 | 881.92 |
| 33.28 | 122.93 | 2.2169 | 79.56 | 1.30 | 1.63% | 1.681 | 0.68 | 51.89 | 2.24 | 1.76 | 102 | 0.180 | 0.370 | 0.90 | 0.726 | 0.530 | 876.80 |
| 33.37 | 122.28 | 2.2224 | 85.12 | 1.16 | 1.36% | 1.399 | 0.66 | 55.51 | 2.16 | 1.57 | 99 | 0.170 | 0.333 | 0.90 | 0.729 | 0.530 | 857.52 |
| 33.42 | 121.94 | 2.2255 | 86.88 | 1.10 | 1.27% | 1.299 | 0.65 | 56.63 | 2.13 | 1.51 | 97 | 0.166 | 0.326 | 0.90 | 0.731 | 0.530 | 848.54 |
| 33.49 | 119.08 | 2.2297 | 86.69 | 0.74 | 0.85% | 0.876 | 0.62 | 56.43 | 2.02 | 1.33 | 87 | 0.140 | 0.304 | 0.90 | 0.733 | 0.530 | 781.48 |
| 33.55 | 117.94 | 2.2332 | 86.00 | 0.64 | 0.74% | 0.764 | 0.61 | 55.90 | 1.99 | 1.29 | 83 | 0.134 | 0.304 | 0.90 | 0.735 | 0.530 | 756.92 |
| 33.61 | 118.65 | 2.2368 | 84.73 | 0.71 | 0.84% | 0.861 | 0.62 | 54.99 | 2.03 | 1.34 | 85 | 0.137 | 0.296 | 0.90 | 0.737 | 0.530 | 774.48 |
| 33.68 | 119.66 | 2.2409 | 83.07 | 0.82 | 0.99% | 1.014 | 0.63 | 53.81 | 2.08 | 1.42 | 87 | 0.142 | 0.309 | 0.90 | 0.739 | 0.530 | 798.84 |
| 33.73 | 120.44 | 2.2440 | 81.51 | 0.92 | 1.13% | 1.161 | 0.65 | 52.72 | 2.12 | 1.50 | 90 | 0.148 | 0.321 | 0.90 | 0.740 | 0.530 | 818.31 |
| 33.80 | 121.26 | 2.2482 | 75.17 | 1.05 | 1.40% | 1.440 | 0.67 | 48.43 | 2.21 | 1.70 | 93 | 0.155 | 0.336 | 0.90 | 0.743 | 0.529 | 840.67 |
| 33.86 | 122.03 | 2.2519 | 76.14 | 1.16 | 1.52% | 1.570 | 0.68 | 49.02 | 2.23 | 1.75 | 97 | 0.165 | 0.358 | 0.90 | 0.744 | 0.529 | 857.52 |
| 33.93 | 123.04 | 2.2562 | 76.04 | 1.34 | 1.76% | 1.816 | 0.69 | 48.88 | 2.28 | 1.88 | 103 | 0.181 | 0.376 | 0.90 | 0.747 | 0.529 | 881.92 |
| 34.01 | 123.95 | 2.2611 | 79.17 | 1.49 | 1.88% | 1.937 | 0.69 | 50.87 | 2.28 | 1.89 | 108 | 0.197 | 0.390 | 0.90 | 0.749 | 0.529 | 899.87 |
| 34.07 | 124.49 | 2.2649 | 87.76 | 1.55 | 1.77% | 1.813 | 0.68 | 56.47 | 2.23 | 1.74 | 111 | 0.206 | 0.369 | 0.90 | 0.751 | 0.529 | 906.55 |
| 34.14 | 124.71 | 2.2692 | 97.52 | 1.55 | 1.59% | 1.627 | 0.66 | 62.83 | 2.16 | 1.57 | 112 | 0.212 | 0.342 | 0.90 | 0.753 | 0.529 | 906.55 |
| 34.19 | 124.79 | 2.2723 | 103.57 | 1.53 | 1.48% | 1.510 | 0.64 | 66.75 | 2.12 | 1.48 | 113 | 0.215 | 0.329 | 0.90 | 0.755 | 0.529 | 904.35 |
| 34.26 | 124.84 | 2.2767 | 110.41 | 1.51 | 1.37% | 1.396 | 0.63 | 71.15 | 2.07 | 1.40 | 115 | 0.221 | 0.318 | 0.90 | 0.757 | 0.529 | 902.13 |
| 34.32 | 124.73 | 2.2805 | 114.21 | 1.47 | 1.29% | 1.313 | 0.62 | 73.56 | 2.04 | 1.36 | 115 | 0.223 | 0.320 | 0.90 | 0.759 | 0.529 | 897.59 |
| 34.40 | 124.39 | 2.2854 | 119.97 | 1.38 | 1.15% | 1.173 | 0.61 | 77.21 | 1.99 | 1.29 | 116 | 0.224 | 0.301 | 0.90 | 0.761 | 0.529 | 886.90 |
| 34.45 | 124.23 | 2.2885 | 123.49 | 1.34 | 1.09% | 1.106 | 0.60 | 79.44 | 1.96 | 1.26 | 116 | 0.227 | 0.305 | 0.89 | 0.763 | 0.529 | 881.92 |
| 34.52 | 124.12 | 2.2929 | 126.61 | 1.31 | 1.03% | 1.054 | 0.59 | 81.37 | 1.94 | 1.23 | 117 | 0.230 | 0.310 | 0.89 | 0.765 | 0.529 | 878.09 |
| 34.59 | 124.23 | 2.2972 | 128.76 | 1.32 | 1.03% | 1.044 | 0.59 | 82.65 | 1.93 | 1.22 | 118 | 0.234 | 0.294 | 0.89 | 0.767 | 0.529 | 879.38 |
| 34.65 | 124.38 | 2.3010 | 128.17 | 1.35 | 1.05% | 1.073 | 0.59 | 82.17 | 1.94 | 1.23 | 119 | 0.235 | 0.296 | 0.89 | 0.769 | 0.529 | 883.18 |
| 34.73 | 124.43 | 2.3059 | 124.17 | 1.37 | 1.10% | 1.124 | 0.60 | 79.42 | 1.97 | 1.26 | 117 | 0.229 | 0.311 | 0.89 | 0.772 | 0.528 | 885.67 |
| 34.81 | 124.38 | 2.3109 | 116.75 | 1.39 | 1.19% | 1.215 | 0.61 | 74.46 | 2.01 | 1.32 | 114 | 0.218 | 0.317 | 0.89 | 0.774 | 0.528 | 888.12 |
| 34.86 | 124.28 | 2.3140 | 109.53 | 1.40 | 1.28% | 1.306 | 0.62 | 69.69 | 2.06 | 1.38 | 111 | 0.209 | 0.322 | 0.89 | 0.776 | 0.528 | 889.33 |
| 34.91 | 124.20 | 2.3171 | 99.86 | 1.43 | 1.43% | 1.466 | 0.64 | 63.34 | 2.12 | 1.50 | 109 | 0.201 | 0.328 | 0.89 | 0.777 | 0.528 | 892.92 |
| 34.99 | 124.17 | 2.3221 | 85.51 | 1.50 | 1.75% | 1.803 | 0.68 | 53.93 | 2.24 | 1.77 | 108 | 0.198 | 0.359 | 0.89 | 0.780 | 0.528 | 901.00 |
| 35.05 | 124.09 | 2.3258 | 75.26 | 1.55 | 2.06% | 2.125 | 0.71 | 47.23 | 2.33 | 2.06 | 109 | 0.201 | 0.402 | 0.89 | 0.782 | 0.528 | 906.55 |
| 35.11 | 123.99 | 2.3295 | 65.99 | 1.60 | 2.42% | 2.513 | 0.74 | 41.17 | 2.43 | 2.44 | 111 | 0.208 | 0.231 | 0.89 | 0.783 | 0.528 | 911.92 |
| 35.18 | 123.62 | 2.3339 | 53.59 | 1.63 | 3.04% | 3.180 | 0.78 | 33.11 | 2.57 | 3.17 | 114 | 0.220 | 0.255 | 0.89 | 0.786 | 0.528 | 915.06 |
| 35.24 | 123.21 | 2.3376 | 48.32 | 1.59 | 3.29% | 3.458 | 0.80 | 29.66 | 2.64 | 3.55 | 117 | 0.230 | 0.278 | 0.89 | 0.787 | 0.528 | 910.86 |
| 35.31 | 122.55 | 2.3419 | 42.66 | 1.52 | 3.56% | 3.770 | 0.82 | 25.98 | 2.71 | 4.04 | 133 | 0.301 | 0.301 | 0.89 | 0.790 | 0.528 | 903.24 |

| DEPTH (ft) | ρ (lb-sec$^2$)/ft$^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.58 | 4.740 | 2.250E+05 | 2.030E+06 | 9.02 | 0.1542 | 0.927 | 0.475 | | 1.98 | **2.73** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.62 | 4.740 | 2.253E+05 | 2.030E+06 | 9.01 | 0.1542 | 0.927 | 0.475 | | 2.00 | **2.75** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.70 | 4.735 | 2.244E+05 | 2.030E+06 | 9.05 | 0.1542 | 0.927 | 0.475 | | 2.02 | **2.78** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.76 | 4.726 | 2.220E+05 | 2.030E+06 | 9.14 | 0.1542 | 0.927 | 0.475 | | 2.02 | **2.77** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.84 | 4.709 | 2.182E+05 | 2.030E+06 | 9.30 | 0.1542 | 0.926 | 0.475 | | 2.00 | **2.76** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.90 | 4.697 | 2.155E+05 | 2.030E+06 | 9.42 | 0.1542 | 0.925 | 0.475 | | 1.99 | **2.74** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 23.97 | 4.678 | 2.107E+05 | 2.030E+06 | 9.64 | 0.1542 | 0.924 | 0.475 | | 1.94 | **2.67** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.03 | 4.669 | 2.080E+05 | 2.030E+06 | 9.76 | 0.1542 | 0.924 | 0.474 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.12 | 4.655 | 2.044E+05 | 2.030E+06 | 9.93 | 0.1542 | 0.923 | 0.474 | | 1.83 | **2.52** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.15 | 4.653 | 2.036E+05 | 2.030E+06 | 9.97 | 0.1542 | 0.923 | 0.474 | | 1.82 | **2.50** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.25 | 4.644 | 2.015E+05 | 2.030E+06 | 10.08 | 0.1542 | 0.922 | 0.474 | | 1.78 | **2.46** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.30 | 4.640 | 2.007E+05 | 2.030E+06 | 10.11 | 0.1542 | 0.922 | 0.474 | | 1.80 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.38 | 4.632 | 1.991E+05 | 2.030E+06 | 10.20 | 0.1542 | 0.922 | 0.475 | | 1.82 | **2.50** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.43 | 4.623 | 1.972E+05 | 2.030E+06 | 10.30 | 0.1542 | 0.922 | 0.475 | | 1.78 | **2.45** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.48 | 4.615 | 1.954E+05 | 2.030E+06 | 10.39 | 0.1542 | 0.921 | 0.475 | | 1.71 | **2.35** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.57 | 4.591 | 1.903E+05 | 2.030E+06 | 10.67 | 0.1542 | 0.921 | 0.475 | | 1.49 | **2.05** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.62 | 4.576 | 1.874E+05 | 2.030E+06 | 10.83 | 0.1542 | 0.920 | 0.475 | | 1.36 | **1.87** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.70 | 4.556 | 1.830E+05 | 2.030E+06 | 11.10 | 0.1542 | 0.920 | 0.474 | | 1.23 | **1.69** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.74 | 4.546 | 1.808E+05 | 2.030E+06 | 11.23 | 0.1542 | 0.919 | 0.474 | | 1.17 | **1.61** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.83 | 4.530 | 1.788E+05 | 2.030E+06 | 11.36 | 0.1542 | 0.919 | 0.474 | | 1.01 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.75 | 0.00 | | |
| 24.88 | 4.530 | 1.797E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.475 | | 0.93 | **1.29** | <= | 0.28 | 0.002 | 0.00 | 3.75 | 0.00 | 24.83 | 24.88 |
| 24.96 | 4.535 | 1.825E+05 | 2.030E+06 | 11.12 | 0.1542 | 0.920 | 0.475 | | 0.85 | **1.18** | <= | 0.39 | 0.004 | 0.00 | 3.75 | 0.00 | 24.88 | 24.96 |
| 25.01 | 4.539 | 1.861E+05 | 2.030E+06 | 10.91 | 0.1542 | 0.920 | 0.476 | | 0.76 | **1.05** | <= | 0.53 | 0.003 | 0.00 | 3.74 | 0.00 | 24.96 | 25.01 |
| 25.09 | 4.530 | 1.869E+05 | 2.030E+06 | 10.86 | 0.1542 | 0.920 | 0.476 | | 0.65 | **0.90** | <= | 1.31 | 0.013 | 0.00 | 3.74 | 0.00 | 25.01 | 25.09 |
| 25.18 | 4.493 | 1.851E+05 | 2.030E+06 | 10.97 | 0.1542 | 0.920 | 0.476 | | 0.87 | **1.20** | <= | 0.25 | 0.003 | 0.00 | 3.73 | 0.00 | 25.09 | 25.18 |
| 25.21 | 4.476 | 1.836E+05 | 2.030E+06 | 11.06 | 0.1542 | 0.920 | 0.476 | | 0.94 | **1.29** | <= | 0.34 | 0.001 | 0.00 | 3.72 | 0.00 | 25.18 | 25.21 |
| 25.28 | 4.453 | 1.846E+05 | 2.030E+06 | 11.00 | 0.1542 | 0.920 | 0.476 | | 0.58 | **0.80** | <= | 1.98 | 0.017 | 0.00 | 3.72 | 0.00 | 25.21 | 25.28 |
| 25.35 | 4.434 | 1.853E+05 | 2.030E+06 | 10.95 | 0.1542 | 0.920 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.71 | 0.00 | | |
| 25.42 | 4.417 | 1.852E+05 | 2.030E+06 | 10.96 | 0.1542 | 0.920 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.71 | 0.00 | | |
| 25.46 | 4.409 | 1.877E+05 | 2.030E+06 | 10.81 | 0.1542 | 0.920 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.71 | 0.00 | | |
| 25.53 | 4.456 | 1.896E+05 | 2.030E+06 | 10.71 | 0.1542 | 0.921 | 0.477 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.71 | 0.00 | | |
| 25.59 | 4.512 | 1.925E+05 | 2.030E+06 | 10.55 | 0.1542 | 0.921 | 0.478 | | 1.02 | **1.41** | | 0.00 | 0.000 | 0.00 | 3.71 | 0.00 | | |
| 25.68 | 4.554 | 1.963E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.478 | | 0.77 | **1.06** | <= | 0.57 | 0.006 | 0.00 | 3.71 | 0.00 | 25.59 | 25.68 |
| 25.73 | 4.558 | 1.964E+05 | 2.030E+06 | 10.33 | 0.1542 | 0.922 | 0.479 | | 0.79 | **1.08** | <= | 0.62 | 0.004 | 0.00 | 3.70 | 0.00 | 25.68 | 25.73 |
| 25.81 | 4.564 | 1.962E+05 | 2.030E+06 | 10.35 | 0.1542 | 0.922 | 0.479 | | 0.70 | **0.97** | <= | 0.84 | 0.008 | 0.00 | 3.70 | 0.00 | 25.73 | 25.81 |
| 25.86 | 4.565 | 1.951E+05 | 2.030E+06 | 10.41 | 0.1542 | 0.921 | 0.479 | | 0.73 | **1.00** | <= | 0.44 | 0.003 | 0.00 | 3.69 | 0.00 | 25.81 | 25.86 |
| 25.93 | 4.560 | 1.916E+05 | 2.030E+06 | 10.60 | 0.1542 | 0.921 | 0.479 | | 0.78 | **1.07** | <= | 0.56 | 0.005 | 0.00 | 3.69 | 0.00 | 25.86 | 25.93 |
| 26.00 | 4.557 | 1.886E+05 | 2.030E+06 | 10.76 | 0.1542 | 0.921 | 0.479 | | 0.85 | **1.16** | <= | 0.37 | 0.003 | 0.00 | 3.68 | 0.00 | 25.93 | 26.00 |
| 26.05 | 4.561 | 1.877E+05 | 2.030E+06 | 10.82 | 0.1542 | 0.920 | 0.479 | | 0.95 | **1.30** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.12 | 4.567 | 1.878E+05 | 2.030E+06 | 10.81 | 0.1542 | 0.920 | 0.479 | | 1.05 | **1.44** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.20 | 4.580 | 1.892E+05 | 2.030E+06 | 10.73 | 0.1542 | 0.921 | 0.479 | | 1.22 | **1.68** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.26 | 4.592 | 1.910E+05 | 2.030E+06 | 10.63 | 0.1542 | 0.921 | 0.480 | | 1.35 | **1.86** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.33 | 4.607 | 1.933E+05 | 2.030E+06 | 10.50 | 0.1542 | 0.921 | 0.480 | | 1.54 | **2.13** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.40 | 4.621 | 1.965E+05 | 2.030E+06 | 10.33 | 0.1542 | 0.922 | 0.480 | | 1.68 | **2.31** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.45 | 4.633 | 1.990E+05 | 2.030E+06 | 10.20 | 0.1542 | 0.922 | 0.481 | | 1.78 | **2.45** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.53 | 4.654 | 2.036E+05 | 2.030E+06 | 9.97 | 0.1542 | 0.923 | 0.481 | | 1.81 | **2.49** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.58 | 4.663 | 2.059E+05 | 2.030E+06 | 9.86 | 0.1542 | 0.923 | 0.482 | | 1.81 | **2.50** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.66 | 4.677 | 2.090E+05 | 2.030E+06 | 9.71 | 0.1542 | 0.924 | 0.482 | | 1.84 | **2.53** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.71 | 4.684 | 2.107E+05 | 2.030E+06 | 9.64 | 0.1542 | 0.924 | 0.482 | | 1.84 | **2.53** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.78 | 4.693 | 2.130E+05 | 2.030E+06 | 9.53 | 0.1542 | 0.925 | 0.483 | | 1.86 | **2.56** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.85 | 4.698 | 2.144E+05 | 2.030E+06 | 9.47 | 0.1542 | 0.925 | 0.483 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.94 | 4.705 | 2.161E+05 | 2.030E+06 | 9.39 | 0.1542 | 0.925 | 0.484 | | 1.92 | **2.64** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 26.99 | 4.706 | 2.166E+05 | 2.030E+06 | 9.37 | 0.1542 | 0.926 | 0.484 | | 1.94 | **2.67** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.07 | 4.703 | 2.162E+05 | 2.030E+06 | 9.39 | 0.1542 | 0.925 | 0.484 | | 1.95 | **2.69** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.11 | 4.700 | 2.156E+05 | 2.030E+06 | 9.42 | 0.1542 | 0.925 | 0.484 | | 1.98 | **2.73** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.19 | 4.692 | 2.141E+05 | 2.030E+06 | 9.48 | 0.1542 | 0.925 | 0.484 | | 2.00 | **2.75** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.24 | 4.685 | 2.128E+05 | 2.030E+06 | 9.54 | 0.1542 | 0.925 | 0.484 | | 1.94 | **2.66** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.32 | 4.675 | 2.108E+05 | 2.030E+06 | 9.63 | 0.1542 | 0.924 | 0.484 | | 1.79 | **2.46** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.38 | 4.667 | 2.095E+05 | 2.030E+06 | 9.69 | 0.1542 | 0.924 | 0.484 | | 1.68 | **2.31** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.47 | 4.654 | 2.066E+05 | 2.030E+06 | 9.83 | 0.1542 | 0.923 | 0.484 | | 1.55 | **2.14** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.51 | 4.648 | 2.051E+05 | 2.030E+06 | 9.90 | 0.1542 | 0.923 | 0.483 | | 1.50 | **2.06** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.59 | 4.634 | 2.029E+05 | 2.030E+06 | 10.01 | 0.1542 | 0.922 | 0.483 | | 1.36 | **1.87** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.66 | 4.618 | 2.000E+05 | 2.030E+06 | 10.15 | 0.1542 | 0.922 | 0.483 | | 1.19 | **1.64** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.69 | 4.611 | 1.990E+05 | 2.030E+06 | 10.20 | 0.1542 | 0.922 | 0.483 | | 1.10 | **1.52** | | 0.00 | 0.000 | 0.00 | 3.68 | 0.00 | | |
| 27.77 | 4.587 | 1.948E+05 | 2.030E+06 | 10.42 | 0.1542 | 0.921 | 0.483 | | 0.92 | **1.27** | <= | 0.26 | 0.003 | 0.00 | 3.68 | 0.00 | 27.69 | 27.77 |
| 27.83 | 4.565 | 1.913E+05 | 2.030E+06 | 10.61 | 0.1542 | 0.921 | 0.483 | | 0.78 | **1.07** | <= | 0.56 | 0.004 | 0.00 | 3.68 | 0.00 | 27.77 | 27.83 |
| 27.92 | 4.490 | 1.737E+05 | 2.030E+06 | 11.68 | 0.1542 | 0.918 | 0.482 | | 0.64 | **0.88** | <= | 1.32 | 0.014 | 0.00 | 3.67 | 0.00 | 27.83 | 27.92 |
| 27.97 | 4.410 | 1.558E+05 | 2.030E+06 | 13.03 | 0.1542 | 0.915 | 0.480 | | 0.66 | **0.91** | <= | 0.83 | 0.005 | 0.00 | 3.66 | 0.00 | 27.92 | 27.97 |
| 28.05 | 4.405 | 1.567E+05 | 2.030E+06 | 12.96 | 0.1542 | 0.915 | 0.480 | | 0.66 | **0.90** | <= | 0.81 | 0.008 | 0.00 | 3.65 | 0.00 | 27.97 | 28.05 |
| 28.09 | 4.406 | 1.573E+05 | 2.030E+06 | 12.91 | 0.1542 | 0.915 | 0.481 | | 0.67 | **0.93** | <= | 0.96 | 0.005 | 0.00 | 3.64 | 0.00 | 28.05 | 28.09 |
| 28.18 | 4.396 | 1.576E+05 | 2.030E+06 | 12.88 | 0.1542 | 0.915 | 0.481 | | 0.69 | **0.94** | <= | 1.12 | 0.012 | 0.00 | 3.64 | 0.00 | 28.09 | 28.18 |
| 28.23 | 4.401 | 1.593E+05 | 2.030E+06 | 12.74 | 0.1542 | 0.915 | 0.481 | | 0.68 | **0.93** | <= | 1.05 | 0.006 | 0.00 | 3.63 | 0.00 | 28.18 | 28.23 |
| 28.31 | 4.411 | 1.650E+05 | 2.030E+06 | 12.30 | 0.1542 | 0.917 | 0.482 | | 0.74 | **1.02** | <= | 0.60 | 0.006 | 0.00 | 3.62 | 0.00 | 28.23 | 28.31 |
| 28.35 | 4.419 | 1.687E+05 | 2.030E+06 | 12.04 | 0.1542 | 0.917 | 0.482 | | 0.75 | **1.04** | <= | 0.66 | 0.003 | 0.00 | 3.62 | 0.00 | 28.31 | 28.35 |
| 28.43 | 4.435 | 1.754E+05 | 2.030E+06 | 11.58 | 0.1542 | 0.918 | 0.483 | | 0.85 | **1.17** | <= | 0.49 | 0.005 | 0.00 | 3.61 | 0.00 | 28.35 | 28.43 |
| 28.49 | 4.443 | 1.804E+05 | 2.030E+06 | 11.25 | 0.1542 | 0.919 | 0.484 | | 0.50 | **0.68** | <= | 2.11 | 0.015 | 0.00 | 3.61 | 0.00 | 28.43 | 28.49 |
| 28.57 | 4.434 | 1.817E+05 | 2.030E+06 | 11.17 | 0.1542 | 0.919 | 0.484 | | 0.54 | **0.75** | <= | 2.07 | 0.020 | 0.00 | 3.59 | 0.00 | 28.49 | 28.57 |
| 28.62 | 4.414 | 1.787E+05 | 2.030E+06 | 11.36 | 0.1542 | 0.919 | 0.484 | | 0.54 | **0.74** | <= | 2.10 | 0.013 | 0.00 | 3.57 | 0.00 | 28.57 | 28.62 |
| 28.71 | 4.381 | 1.744E+05 | 2.030E+06 | 11.64 | 0.1542 | 0.918 | 0.484 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 28.75 | 4.373 | 1.742E+05 | 2.030E+06 | 11.65 | 0.1542 | 0.918 | 0.484 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 28.85 | 4.366 | 1.755E+05 | 2.030E+06 | 11.56 | 0.1542 | 0.918 | 0.484 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 28.89 | 4.368 | 1.760E+05 | 2.030E+06 | 11.53 | 0.1542 | 0.919 | 0.484 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 28.94 | 4.369 | 1.765E+05 | 2.030E+06 | 11.50 | 0.1542 | 0.919 | 0.484 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.00 | 4.364 | 1.751E+05 | 2.030E+06 | 11.59 | 0.1542 | 0.918 | 0.484 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.08 | 4.360 | 1.737E+05 | 2.030E+06 | 11.69 | 0.1542 | 0.918 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.16 | 4.357 | 1.732E+05 | 2.030E+06 | 11.72 | 0.1542 | 0.918 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.20 | 4.357 | 1.732E+05 | 2.030E+06 | 11.72 | 0.1542 | 0.918 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.29 | 4.358 | 1.732E+05 | 2.030E+06 | 11.72 | 0.1542 | 0.918 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.34 | 4.360 | 1.731E+05 | 2.030E+06 | 11.72 | 0.1542 | 0.918 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.40 | 4.366 | 1.740E+05 | 2.030E+06 | 11.67 | 0.1542 | 0.918 | 0.485 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.46 | 4.373 | 1.753E+05 | 2.030E+06 | 11.58 | 0.1542 | 0.918 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.56 | 4.380 | 1.760E+05 | 2.030E+06 | 11.53 | 0.1542 | 0.919 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.61 | 4.384 | 1.759E+05 | 2.030E+06 | 11.54 | 0.1542 | 0.919 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.69 | 4.389 | 1.772E+05 | 2.030E+06 | 11.46 | 0.1542 | 0.919 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.74 | 4.393 | 1.775E+05 | 2.030E+06 | 11.43 | 0.1542 | 0.919 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.79 | 4.397 | 1.779E+05 | 2.030E+06 | 11.41 | 0.1542 | 0.919 | 0.486 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.88 | 4.403 | 1.777E+05 | 2.030E+06 | 11.43 | 0.1542 | 0.919 | 0.487 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.94 | 4.406 | 1.775E+05 | 2.030E+06 | 11.43 | 0.1542 | 0.919 | 0.487 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 29.99 | 4.376 | 1.692E+05 | 2.030E+06 | 12.00 | 0.1542 | 0.917 | 0.486 | | 0.46 | **0.63** | <= | 2.26 | 0.014 | 0.00 | 3.56 | 0.00 | 29.94 | 29.99 |
| 30.05 | 3.629 | 1.611E+05 | 1.611E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.30 | **0.41** | <= | 2.83 | 0.019 | 0.00 | 3.55 | 0.00 | 29.99 | 30.05 |
| 30.13 | 3.659 | 1.679E+05 | 1.679E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.31 | **0.43** | <= | 2.72 | 0.025 | 0.00 | 3.53 | 0.00 | 30.05 | 30.13 |
| 30.19 | 3.678 | 1.726E+05 | 1.726E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.73 | **1.00** | <= | 0.62 | 0.004 | 0.00 | 3.50 | 0.00 | 30.13 | 30.19 |
| 30.27 | 3.708 | 1.798E+05 | 1.798E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.74 | **1.01** | <= | 0.65 | 0.006 | 0.00 | 3.50 | 0.00 | 30.19 | 30.27 |
| 30.32 | 3.725 | 1.845E+05 | 1.845E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.35 | **0.48** | <= | 2.48 | 0.014 | 0.00 | 3.49 | 0.00 | 30.27 | 30.32 |
| 30.40 | 3.749 | 1.914E+05 | 1.914E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.38 | **0.52** | <= | 2.38 | 0.022 | 0.00 | 3.48 | 0.00 | 30.32 | 30.40 |
| 30.46 | 3.762 | 1.948E+05 | 1.948E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.38 | **0.53** | <= | 2.33 | 0.016 | 0.00 | 3.46 | 0.00 | 30.40 | 30.46 |
| 30.54 | 3.776 | 1.993E+05 | 1.993E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.40 | **0.56** | <= | 2.27 | 0.021 | 0.00 | 3.44 | 0.00 | 30.46 | 30.54 |
| 30.59 | 3.784 | 2.013E+05 | 2.013E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.41 | **0.57** | <= | 2.24 | 0.013 | 0.00 | 3.42 | 0.00 | 30.54 | 30.59 |
| 30.67 | 3.773 | 1.969E+05 | 1.969E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.39 | **0.54** | <= | 2.31 | 0.021 | 0.00 | 3.41 | 0.00 | 30.59 | 30.67 |
| 30.73 | 3.689 | 1.712E+05 | 1.712E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.65 | **0.90** | <= | 2.67 | 0.018 | 0.00 | 3.39 | 0.00 | 30.67 | 30.73 |
| 30.82 | 3.638 | 1.564E+05 | 1.564E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.60 | **0.83** | <= | 2.84 | 0.029 | 0.00 | 3.37 | 0.00 | 30.73 | 30.82 |
| 30.86 | 3.671 | 1.644E+05 | 1.644E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.63 | **0.87** | <= | 2.73 | 0.012 | 0.00 | 3.34 | 0.00 | 30.82 | 30.86 |
| 30.94 | 3.726 | 1.781E+05 | 1.781E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.64 | **0.88** | <= | 2.54 | 0.023 | 0.00 | 3.33 | 0.00 | 30.86 | 30.94 |
| 30.99 | 3.743 | 1.851E+05 | 1.851E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.70 | **0.97** | <= | 2.01 | 0.012 | 0.00 | 3.30 | 0.00 | 30.94 | 30.99 |
| 31.05 | 3.780 | 1.912E+05 | 1.912E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.66 | **0.91** | <= | 0.96 | 0.007 | 0.00 | 3.29 | 0.00 | 30.99 | 31.05 |
| 31.13 | 3.810 | 1.987E+05 | 1.987E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.68 | **0.94** | <= | 1.12 | 0.011 | 0.00 | 3.28 | 0.00 | 31.05 | 31.13 |
| 31.18 | 3.825 | 2.028E+05 | 2.028E+05 | 1.00 | 0.1542 | 0.989 | 0.526 | | 0.72 | **0.99** | <= | 1.35 | 0.008 | 0.00 | 3.27 | 0.00 | 31.13 | 31.18 |
| 31.27 | 3.839 | 2.060E+05 | 2.060E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.71 | **0.98** | <= | 1.27 | 0.014 | 0.00 | 3.27 | 0.00 | 31.18 | 31.27 |
| 31.30 | 3.841 | 2.065E+05 | 2.065E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.72 | **0.99** | <= | 1.30 | 0.005 | 0.00 | 3.25 | 0.00 | 31.27 | 31.30 |
| 31.39 | 3.844 | 2.063E+05 | 2.063E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.69 | **0.95** | <= | 1.07 | 0.012 | 0.00 | 3.25 | 0.00 | 31.30 | 31.39 |
| 31.44 | 3.847 | 2.067E+05 | 2.067E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.70 | **0.96** | <= | 1.12 | 0.007 | 0.00 | 3.24 | 0.00 | 31.39 | 31.44 |
| 31.53 | 3.851 | 2.076E+05 | 2.076E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.67 | **0.92** | <= | 0.92 | 0.010 | 0.00 | 3.23 | 0.00 | 31.44 | 31.53 |
| 31.59 | 3.852 | 2.070E+05 | 2.070E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.67 | **0.92** | <= | 0.93 | 0.007 | 0.00 | 3.22 | 0.00 | 31.53 | 31.59 |
| 31.63 | 3.853 | 2.069E+05 | 2.069E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.67 | **0.93** | <= | 0.95 | 0.005 | 0.00 | 3.21 | 0.00 | 31.59 | 31.63 |
| 31.69 | 3.855 | 2.074E+05 | 2.074E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.68 | **0.94** | <= | 0.99 | 0.007 | 0.00 | 3.21 | 0.00 | 31.63 | 31.69 |
| 31.77 | 3.858 | 2.083E+05 | 2.083E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.65 | **0.90** | <= | 2.10 | 0.019 | 0.00 | 3.20 | 0.00 | 31.69 | 31.77 |
| 31.84 | 3.859 | 2.083E+05 | 2.083E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.65 | **0.90** | <= | 2.11 | 0.017 | 0.00 | 3.18 | 0.00 | 31.77 | 31.84 |
| 31.90 | 3.855 | 2.068E+05 | 2.068E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.64 | **0.89** | <= | 2.02 | 0.014 | 0.00 | 3.16 | 0.00 | 31.84 | 31.90 |
| 31.99 | 3.842 | 2.030E+05 | 2.030E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.66 | **0.90** | <= | 0.83 | 0.009 | 0.00 | 3.15 | 0.00 | 31.90 | 31.99 |
| 32.03 | 3.837 | 2.021E+05 | 2.021E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.65 | **0.89** | <= | 2.11 | 0.010 | 0.00 | 3.14 | 0.00 | 31.99 | 32.03 |
| 32.12 | 3.823 | 1.993E+05 | 1.993E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.65 | **0.90** | <= | 2.21 | 0.023 | 0.00 | 3.13 | 0.00 | 32.03 | 32.12 |
| 32.17 | 3.823 | 1.993E+05 | 1.993E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.65 | **0.89** | <= | 2.16 | 0.013 | 0.00 | 3.11 | 0.00 | 32.12 | 32.17 |
| 32.25 | 3.824 | 2.011E+05 | 2.011E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.68 | **0.94** | <= | 1.08 | 0.010 | 0.00 | 3.10 | 0.00 | 32.17 | 32.25 |
| 32.29 | 3.824 | 2.011E+05 | 2.011E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.68 | **0.93** | <= | 1.06 | 0.005 | 0.00 | 3.09 | 0.00 | 32.25 | 32.29 |
| 32.35 | 3.851 | 2.113E+05 | 2.113E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.75 | **1.03** | <= | 0.61 | 0.004 | 0.00 | 3.08 | 0.00 | 32.29 | 32.35 |
| 32.42 | 3.861 | 2.159E+05 | 2.159E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.83 | **1.15** | <= | 0.43 | 0.004 | 0.00 | 3.08 | 0.00 | 32.35 | 32.42 |
| 32.49 | 3.860 | 2.194E+05 | 2.194E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.47 | **0.65** | <= | 2.04 | 0.016 | 0.00 | 3.07 | 0.00 | 32.42 | 32.49 |
| 32.55 | 3.864 | 2.229E+05 | 2.229E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.51 | **0.71** | <= | 1.99 | 0.014 | 0.00 | 3.06 | 0.00 | 32.49 | 32.55 |
| 32.64 | 3.868 | 2.249E+05 | 2.249E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.55 | **0.75** | <= | 1.96 | 0.020 | 0.00 | 3.04 | 0.00 | 32.55 | 32.64 |
| 32.70 | 3.863 | 2.248E+05 | 2.248E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.55 | **0.75** | <= | 1.96 | 0.013 | 0.00 | 3.02 | 0.00 | 32.64 | 32.70 |
| 32.74 | 3.861 | 2.235E+05 | 2.235E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.54 | **0.74** | <= | 1.98 | 0.009 | 0.00 | 3.01 | 0.00 | 32.70 | 32.74 |
| 32.84 | 3.846 | 2.192E+05 | 2.192E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.50 | **0.69** | <= | 2.03 | 0.023 | 0.00 | 3.00 | 0.00 | 32.74 | 32.84 |
| 32.88 | 3.840 | 2.176E+05 | 2.176E+05 | 1.00 | 0.1542 | 0.989 | 0.525 | | 0.49 | **0.67** | <= | 2.05 | 0.009 | 0.00 | 2.98 | 0.00 | 32.84 | 32.88 |
| 32.97 | 3.825 | 2.143E+05 | 2.143E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.48 | **0.66** | <= | 2.09 | 0.022 | 0.00 | 2.97 | 0.00 | 32.88 | 32.97 |
| 33.01 | 3.820 | 2.120E+05 | 2.120E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.46 | **0.64** | <= | 2.12 | 0.010 | 0.00 | 2.95 | 0.00 | 32.97 | 33.01 |
| 33.10 | 3.821 | 2.092E+05 | 2.092E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.43 | **0.59** | <= | 2.17 | 0.022 | 0.00 | 2.94 | 0.00 | 33.01 | 33.10 |
| 33.15 | 3.825 | 2.079E+05 | 2.079E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.41 | **0.56** | <= | 2.20 | 0.013 | 0.00 | 2.91 | 0.00 | 33.10 | 33.15 |
| 33.23 | 3.822 | 2.035E+05 | 2.035E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.72 | **0.99** | <= | 1.38 | 0.013 | 0.00 | 2.90 | 0.00 | 33.15 | 33.23 |
| 33.28 | 3.818 | 2.014E+05 | 2.014E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.71 | **0.97** | <= | 1.31 | 0.008 | 0.00 | 2.89 | 0.00 | 33.23 | 33.28 |
| 33.37 | 3.798 | 1.936E+05 | 1.936E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.64 | **0.87** | <= | 2.13 | 0.023 | 0.00 | 2.88 | 0.00 | 33.28 | 33.37 |
| 33.42 | 3.787 | 1.901E+05 | 1.901E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.62 | **0.85** | <= | 2.02 | 0.012 | 0.00 | 2.86 | 0.00 | 33.37 | 33.42 |
| 33.49 | 3.698 | 1.651E+05 | 1.651E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.58 | **0.80** | <= | 2.59 | 0.020 | 0.00 | 2.84 | 0.00 | 33.42 | 33.49 |
| 33.55 | 3.663 | 1.564E+05 | 1.564E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.58 | **0.80** | <= | 2.67 | 0.018 | 0.00 | 2.82 | 0.00 | 33.49 | 33.55 |
| 33.61 | 3.685 | 1.628E+05 | 1.628E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.57 | **0.78** | <= | 2.63 | 0.018 | 0.00 | 2.81 | 0.00 | 33.55 | 33.61 |
| 33.68 | 3.716 | 1.717E+05 | 1.717E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.59 | **0.81** | <= | 1.95 | 0.016 | 0.00 | 2.79 | 0.00 | 33.61 | 33.68 |
| 33.73 | 3.740 | 1.790E+05 | 1.790E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.61 | **0.84** | <= | 2.11 | 0.013 | 0.00 | 2.77 | 0.00 | 33.68 | 33.73 |
| 33.80 | 3.766 | 1.877E+05 | 1.877E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.64 | **0.88** | <= | 2.45 | 0.020 | 0.00 | 2.76 | 0.00 | 33.73 | 33.80 |
| 33.86 | 3.790 | 1.940E+05 | 1.940E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.68 | **0.94** | <= | 1.19 | 0.009 | 0.00 | 2.74 | 0.00 | 33.80 | 33.86 |
| 33.93 | 3.821 | 2.035E+05 | 2.035E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.72 | **0.99** | <= | 2.09 | 0.018 | 0.00 | 2.73 | 0.00 | 33.86 | 33.93 |
| 34.01 | 3.849 | 2.104E+05 | 2.104E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.74 | **1.02** | <= | 0.60 | 0.006 | 0.00 | 2.71 | 0.00 | 33.93 | 34.01 |
| 34.07 | 3.866 | 2.126E+05 | 2.126E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.71 | **0.97** | <= | 1.17 | 0.008 | 0.00 | 2.71 | 0.00 | 34.01 | 34.07 |
| 34.14 | 3.873 | 2.122E+05 | 2.122E+05 | 1.00 | 0.1542 | 0.989 | 0.524 | | 0.65 | **0.90** | <= | 2.09 | 0.017 | 0.00 | 2.70 | 0.00 | 34.07 | 34.14 |
| 34.19 | 3.875 | 2.110E+05 | 2.110E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.63 | **0.86** | <= | 1.79 | 0.011 | 0.00 | 2.68 | 0.00 | 34.14 | 34.19 |
| 34.26 | 3.877 | 2.099E+05 | 2.099E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.61 | **0.84** | <= | 1.54 | 0.013 | 0.00 | 2.67 | 0.00 | 34.19 | 34.26 |
| 34.32 | 3.874 | 2.080E+05 | 2.080E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.61 | **0.84** | <= | 1.42 | 0.010 | 0.00 | 2.66 | 0.00 | 34.26 | 34.32 |
| 34.40 | 3.863 | 2.036E+05 | 2.036E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.58 | **0.79** | <= | 2.02 | 0.018 | 0.00 | 2.65 | 0.00 | 34.32 | 34.40 |
| 34.45 | 3.858 | 2.016E+05 | 2.016E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.58 | **0.80** | <= | 1.24 | 0.007 | 0.00 | 2.63 | 0.00 | 34.40 | 34.45 |
| 34.52 | 3.855 | 2.000E+05 | 2.000E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.59 | **0.82** | <= | 1.28 | 0.011 | 0.00 | 2.62 | 0.00 | 34.45 | 34.52 |
| 34.59 | 3.858 | 2.004E+05 | 2.004E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.56 | **0.77** | <= | 1.90 | 0.016 | 0.00 | 2.61 | 0.00 | 34.52 | 34.59 |
| 34.65 | 3.863 | 2.019E+05 | 2.019E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.57 | **0.78** | <= | 1.92 | 0.014 | 0.00 | 2.60 | 0.00 | 34.59 | 34.65 |
| 34.73 | 3.864 | 2.030E+05 | 2.030E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.59 | **0.82** | <= | 1.29 | 0.012 | 0.00 | 2.58 | 0.00 | 34.65 | 34.73 |
| 34.81 | 3.863 | 2.042E+05 | 2.042E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.61 | **0.83** | <= | 1.41 | 0.014 | 0.00 | 2.57 | 0.00 | 34.73 | 34.81 |
| 34.86 | 3.860 | 2.049E+05 | 2.049E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.62 | **0.85** | <= | 1.70 | 0.010 | 0.00 | 2.56 | 0.00 | 34.81 | 34.86 |
| 34.91 | 3.857 | 2.067E+05 | 2.067E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.63 | **0.86** | <= | 1.86 | 0.011 | 0.00 | 2.55 | 0.00 | 34.86 | 34.91 |
| 34.99 | 3.856 | 2.105E+05 | 2.105E+05 | 1.00 | 0.1542 | 0.989 | 0.523 | | 0.69 | **0.94** | <= | 1.07 | 0.010 | 0.00 | 2.54 | 0.00 | 34.91 | 34.99 |
| 35.05 | 3.854 | 2.133E+05 | 2.133E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.77 | **1.06** | <= | 0.69 | 0.005 | 0.00 | 2.53 | 0.00 | 34.99 | 35.05 |
| 35.11 | 3.851 | 2.160E+05 | 2.160E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.44 | **0.61** | <= | 2.12 | 0.015 | 0.00 | 2.52 | 0.00 | 35.05 | 35.11 |
| 35.18 | 3.839 | 2.181E+05 | 2.181E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | | 0.49 | **0.67** | <= | 2.07 | 0.017 | 0.00 | 2.51 | 0.00 | 35.11 | 35.18 |
| 35.24 | 3.826 | 2.168E+05 | 2.168E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 35.31 | 3.806 | 2.144E+05 | 2.144E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |

**LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA** TEST LOCATION: **CPT-3**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 Unit Tributary Area, A ($ft^2$): 45.83 Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 Magnitude: 6.62 Magnitude Scaling Factor: 1.38 Discrete Coumn Dia. (ft): 3.0 Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 $A_R = A_{sc}/A$: 0.154 Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet Accleration: 0.606 g's Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-$sec^2$)/$ft^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35.37 | 121.81 | 2.3455 | 40.02 | 1.40 | 3.50% | 3.716 | 0.83 | 24.24 | 2.73 | 4.18 | 138 | 0.325 | 0.325 | 0.89 | 0.792 | 0.528 | 889.33 | 3.783 | 2.091E+05 | 2.091E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 35.44 | 120.93 | 2.3497 | 37.19 | 1.27 | 3.41% | 3.645 | 0.83 | 22.39 | 2.75 | 4.35 | 144 | 0.355 | 0.355 | 0.89 | 0.794 | 0.528 | 872.85 | 3.756 | 2.029E+05 | 2.029E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 35.53 | 119.18 | 2.3551 | 31.92 | 1.05 | 3.29% | 3.552 | 0.85 | 18.97 | 2.80 | 4.76 | 157 | 0.440 | 0.440 | 0.89 | 0.797 | 0.527 | 840.67 | 3.701 | 1.909E+05 | 1.909E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 35.58 | 118.21 | 2.3581 | 30.07 | 0.94 | 3.13% | 3.392 | 0.85 | 17.76 | 2.81 | 4.84 | 160 | 0.459 | 0.459 | 0.89 | 0.798 | 0.527 | 821.95 | 3.671 | 1.840E+05 | 1.840E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 35.66 | 117.18 | 2.3627 | 25.77 | 0.86 | 3.34% | 3.674 | 0.87 | 14.98 | 2.89 | 5.60 | 185 | 0.666 | 0.666 | 0.89 | 0.801 | 0.527 | 806.90 | 3.639 | 1.789E+05 | 1.789E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 35.71 | 116.78 | 2.3657 | 22.65 | 0.85 | 3.75% | 4.190 | 0.90 | 12.97 | 2.98 | 6.50 | 214 | 0.998 | 0.998 | 0.88 | 0.802 | 0.527 | 804.92 | 3.627 | 1.786E+05 | 1.786E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 35.77 | 116.68 | 2.3692 | 19.91 | 0.88 | 4.42% | 5.017 | 0.93 | 11.21 | 3.08 | 7.68 | 254 | 1.596 | 1.596 | 0.88 | 0.804 | 0.527 | 810.79 | 3.624 | 1.814E+05 | 1.814E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 35.84 | 116.30 | 2.3732 | 16.99 | 0.88 | 5.18% | 6.020 | 0.97 | 9.33 | 3.20 | 9.21 | 304 | 2.688 | 2.688 | 0.88 | 0.806 | 0.527 | 810.79 | 3.612 | 1.820E+05 | 1.820E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 35.93 | 116.15 | 2.3785 | 15.91 | 0.88 | 5.53% | 6.503 | 0.98 | 8.62 | 3.25 | 9.92 | 327 | 3.338 | 3.338 | 0.88 | 0.809 | 0.527 | 810.79 | 3.607 | 1.822E+05 | 1.822E+05 | 1.00 | 0.1542 | 0.989 | 0.522 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 35.97 | 116.24 | 2.3808 | 17.38 | 0.86 | 4.95% | 5.734 | 0.96 | 9.55 | 3.17 | 8.90 | 294 | 2.437 | 2.437 | 0.88 | 0.810 | 0.527 | 806.90 | 3.610 | 1.804E+05 | 1.804E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 36.06 | 117.12 | 2.3861 | 28.70 | 0.82 | 2.86% | 3.116 | 0.85 | 16.73 | 2.80 | 4.82 | 159 | 0.454 | 0.454 | 0.88 | 0.813 | 0.527 | 798.84 | 3.637 | 1.754E+05 | 1.754E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.49 | 0.00 | | |
| 36.10 | 117.69 | 2.3884 | 40.80 | 0.79 | 1.94% | 2.057 | 0.77 | 24.40 | 2.55 | 3.05 | 101 | 0.175 | 0.227 | 0.88 | 0.814 | 0.527 | 792.54 | 3.655 | 1.719E+05 | 1.719E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.43 | 0.60 | <= | 2.29 | 0.011 | 0.00 | 2.49 | 0.00 | 36.06 | 36.10 |
| 36.16 | 116.73 | 2.3919 | 54.47 | 0.63 | 1.16% | 1.210 | 0.70 | 33.05 | 2.30 | 1.95 | 73 | 0.116 | 0.330 | 0.88 | 0.816 | 0.527 | 754.26 | 3.625 | 1.569E+05 | 1.569E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.63 | 0.87 | <= | 2.97 | 0.020 | 0.00 | 2.48 | 0.00 | 36.10 | 36.16 |
| 36.24 | 114.80 | 2.3965 | 70.19 | 0.45 | 0.64% | 0.664 | 0.62 | 42.97 | 2.05 | 1.38 | 69 | 0.111 | 0.299 | 0.88 | 0.819 | 0.527 | 697.34 | 3.565 | 1.364E+05 | 1.364E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.57 | 0.79 | <= | 3.11 | 0.028 | 0.00 | 2.46 | 0.00 | 36.16 | 36.24 |
| 36.29 | 115.87 | 2.3994 | 77.70 | 0.50 | 0.64% | 0.664 | 0.61 | 47.68 | 2.01 | 1.32 | 74 | 0.117 | 0.288 | 0.88 | 0.820 | 0.527 | 715.16 | 3.598 | 1.421E+05 | 1.421E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.55 | 0.76 | <= | 2.95 | 0.017 | 0.00 | 2.43 | 0.00 | 36.24 | 36.29 |
| 36.36 | 116.91 | 2.4035 | 83.56 | 0.56 | 0.67% | 0.690 | 0.61 | 51.33 | 1.99 | 1.29 | 78 | 0.124 | 0.291 | 0.88 | 0.822 | 0.527 | 734.33 | 3.631 | 1.485E+05 | 1.485E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.56 | 0.77 | <= | 2.81 | 0.022 | 0.00 | 2.41 | 0.00 | 36.29 | 36.36 |
| 36.45 | 117.86 | 2.4088 | 90.59 | 0.62 | 0.68% | 0.703 | 0.60 | 55.69 | 1.97 | 1.26 | 83 | 0.133 | 0.284 | 0.88 | 0.825 | 0.527 | 751.55 | 3.660 | 1.543E+05 | 1.543E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.54 | 0.75 | <= | 2.68 | 0.027 | 0.00 | 2.39 | 0.00 | 36.36 | 36.45 |
| 36.49 | 117.88 | 2.4112 | 89.81 | 0.62 | 0.69% | 0.709 | 0.60 | 55.15 | 1.97 | 1.26 | 83 | 0.132 | 0.296 | 0.88 | 0.826 | 0.526 | 751.55 | 3.661 | 1.543E+05 | 1.543E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.57 | 0.78 | <= | 2.69 | 0.012 | 0.00 | 2.36 | 0.00 | 36.45 | 36.49 |
| 36.55 | 117.97 | 2.4147 | 92.05 | 0.63 | 0.68% | 0.703 | 0.60 | 56.50 | 1.96 | 1.25 | 84 | 0.135 | 0.288 | 0.88 | 0.828 | 0.526 | 754.26 | 3.664 | 1.553E+05 | 1.553E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.55 | 0.76 | <= | 2.66 | 0.018 | 0.00 | 2.35 | 0.00 | 36.49 | 36.55 |
| 36.64 | 120.75 | 2.4201 | 89.03 | 0.93 | 1.04% | 1.074 | 0.63 | 54.51 | 2.08 | 1.43 | 91 | 0.150 | 0.305 | 0.88 | 0.831 | 0.526 | 820.14 | 3.750 | 1.794E+05 | 1.794E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.59 | 0.81 | <= | 1.82 | 0.020 | 0.00 | 2.33 | 0.00 | 36.55 | 36.64 |
| 36.69 | 121.71 | 2.4232 | 83.66 | 1.08 | 1.29% | 1.329 | 0.66 | 51.08 | 2.17 | 1.59 | 94 | 0.157 | 0.320 | 0.88 | 0.833 | 0.526 | 845.43 | 3.780 | 1.891E+05 | 1.891E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.61 | 0.84 | <= | 2.02 | 0.012 | 0.00 | 2.31 | 0.00 | 36.64 | 36.69 |
| 36.77 | 122.75 | 2.4281 | 69.80 | 1.32 | 1.89% | 1.959 | 0.71 | 42.30 | 2.34 | 2.10 | 100 | 0.174 | 0.194 | 0.88 | 0.835 | 0.526 | 879.38 | 3.812 | 2.029E+05 | 2.029E+05 | 1.00 | 0.1542 | 0.989 | 0.521 | | 0.37 | 0.51 | <= | 2.30 | 0.021 | 0.00 | 2.30 | 0.00 | 36.69 | 36.77 |
| 36.81 | 123.02 | 2.4305 | 64.23 | 1.41 | 2.20% | 2.282 | 0.73 | 38.77 | 2.42 | 2.39 | 104 | 0.184 | 0.205 | 0.88 | 0.836 | 0.526 | 890.54 | 3.820 | 2.076E+05 | 2.076E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.39 | 0.54 | <= | 2.24 | 0.010 | 0.00 | 2.28 | 0.00 | 36.77 | 36.81 |
| 36.91 | 122.97 | 2.4367 | 49.49 | 1.53 | 3.09% | 3.252 | 0.79 | 29.46 | 2.62 | 3.43 | 113 | 0.215 | 0.257 | 0.88 | 0.840 | 0.526 | 904.35 | 3.819 | 2.142E+05 | 2.142E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.27 | 0.00 | | |
| 36.95 | 122.43 | 2.4391 | 43.15 | 1.49 | 3.45% | 3.660 | 0.82 | 25.47 | 2.70 | 4.01 | 132 | 0.296 | 0.296 | 0.87 | 0.841 | 0.526 | 899.87 | 3.802 | 2.130E+05 | 2.130E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.27 | 0.00 | | |
| 37.04 | 121.40 | 2.4446 | 37.68 | 1.35 | 3.58% | 3.831 | 0.84 | 22.01 | 2.77 | 4.50 | 149 | 0.385 | 0.385 | 0.87 | 0.844 | 0.526 | 883.18 | 3.770 | 2.069E+05 | 2.069E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.27 | 0.00 | | |
| 37.09 | 120.88 | 2.4476 | 37.10 | 1.26 | 3.40% | 3.636 | 0.83 | 21.63 | 2.76 | 4.43 | 146 | 0.370 | 0.370 | 0.87 | 0.845 | 0.526 | 871.51 | 3.754 | 2.023E+05 | 2.023E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.27 | 0.00 | | |
| 37.16 | 120.60 | 2.4518 | 40.90 | 1.18 | 2.89% | 3.069 | 0.81 | 23.96 | 2.67 | 3.79 | 125 | 0.262 | 0.262 | 0.87 | 0.847 | 0.525 | 860.41 | 3.745 | 1.977E+05 | 1.977E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.27 | 0.00 | | |
| 37.22 | 120.88 | 2.4555 | 50.66 | 1.14 | 2.25% | 2.365 | 0.76 | 30.01 | 2.52 | 2.86 | 95 | 0.160 | 0.194 | 0.87 | 0.849 | 0.525 | 854.58 | 3.754 | 1.945E+05 | 1.945E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.37 | 0.51 | <= | 2.40 | 0.017 | 0.00 | 2.27 | 0.00 | 37.16 | 37.22 |
| 37.28 | 121.00 | 2.4591 | 57.79 | 1.11 | 1.92% | 2.006 | 0.73 | 34.41 | 2.42 | 2.40 | 93 | 0.154 | 0.184 | 0.87 | 0.851 | 0.525 | 850.07 | 3.758 | 1.923E+05 | 1.923E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.35 | 0.49 | <= | 2.45 | 0.017 | 0.00 | 2.25 | 0.00 | 37.22 | 37.28 |
| 37.36 | 120.81 | 2.4639 | 64.53 | 1.04 | 1.61% | 1.676 | 0.71 | 38.54 | 2.33 | 2.05 | 90 | 0.147 | 0.365 | 0.87 | 0.854 | 0.525 | 839.05 | 3.752 | 1.876E+05 | 1.876E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.70 | 0.97 | <= | 2.00 | 0.019 | 0.00 | 2.24 | 0.00 | 37.28 | 37.36 |
| 37.41 | 120.71 | 2.4669 | 64.82 | 1.02 | 1.57% | 1.636 | 0.70 | 38.69 | 2.32 | 2.02 | 89 | 0.146 | 0.361 | 0.87 | 0.855 | 0.525 | 835.76 | 3.749 | 1.863E+05 | 1.863E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.69 | 0.96 | <= | 1.85 | 0.011 | 0.00 | 2.22 | 0.00 | 37.36 | 37.41 |
| 37.49 | 121.28 | 2.4718 | 64.33 | 1.11 | 1.73% | 1.794 | 0.71 | 38.32 | 2.35 | 2.12 | 92 | 0.153 | 0.176 | 0.87 | 0.858 | 0.525 | 850.07 | 3.766 | 1.919E+05 | 1.919E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.34 | 0.47 | <= | 2.46 | 0.023 | 0.00 | 2.21 | 0.00 | 37.41 | 37.49 |
| 37.53 | 121.65 | 2.4742 | 61.70 | 1.19 | 1.93% | 2.009 | 0.73 | 36.67 | 2.40 | 2.31 | 95 | 0.161 | 0.189 | 0.87 | 0.859 | 0.525 | 861.84 | 3.778 | 1.966E+05 | 1.966E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.36 | 0.50 | <= | 2.40 | 0.011 | 0.00 | 2.18 | 0.00 | 37.49 | 37.53 |
| 37.62 | 122.00 | 2.4797 | 53.30 | 1.31 | 2.46% | 2.578 | 0.77 | 31.41 | 2.53 | 2.90 | 101 | 0.176 | 0.211 | 0.87 | 0.862 | 0.525 | 878.09 | 3.789 | 2.035E+05 | 2.035E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.41 | 0.56 | <= | 2.29 | 0.024 | 0.00 | 2.17 | 0.00 | 37.53 | 37.62 |
| 37.67 | 121.98 | 2.4828 | 46.37 | 1.36 | 2.93% | 3.099 | 0.80 | 27.10 | 2.63 | 3.52 | 116 | 0.226 | 0.275 | 0.87 | 0.863 | 0.525 | 884.43 | 3.788 | 2.065E+05 | 2.065E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 37.74 | 121.53 | 2.4870 | 41.29 | 1.33 | 3.22% | 3.428 | 0.82 | 23.93 | 2.70 | 4.02 | 133 | 0.297 | 0.297 | 0.87 | 0.865 | 0.525 | 880.66 | 3.774 | 2.055E+05 | 2.055E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 37.80 | 121.03 | 2.4907 | 38.56 | 1.27 | 3.29% | 3.521 | 0.83 | 22.22 | 2.74 | 4.27 | 141 | 0.341 | 0.341 | 0.87 | 0.867 | 0.524 | 872.85 | 3.759 | 2.027E+05 | 2.027E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 37.87 | 120.45 | 2.4949 | 35.73 | 1.21 | 3.39% | 3.641 | 0.84 | 20.45 | 2.78 | 4.58 | 151 | 0.401 | 0.401 | 0.87 | 0.870 | 0.524 | 864.66 | 3.741 | 1.999E+05 | 1.999E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 37.93 | 119.96 | 2.4985 | 33.87 | 1.15 | 3.40% | 3.666 | 0.85 | 19.28 | 2.80 | 4.77 | 157 | 0.442 | 0.442 | 0.87 | 0.871 | 0.524 | 856.06 | 3.725 | 1.967E+05 | 1.967E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.02 | 115.95 | 2.5037 | 30.07 | 0.69 | 2.29% | 2.503 | 0.83 | 16.92 | 2.74 | 4.28 | 141 | 0.342 | 0.342 | 0.87 | 0.874 | 0.524 | 769.64 | 3.601 | 1.645E+05 | 1.645E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.07 | 114.81 | 2.5066 | 26.94 | 0.61 | 2.26% | 2.497 | 0.84 | 14.98 | 2.78 | 4.63 | 153 | 0.413 | 0.413 | 0.87 | 0.876 | 0.524 | 748.80 | 3.566 | 1.573E+05 | 1.573E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.14 | 114.53 | 2.5106 | 22.65 | 0.63 | 2.78% | 3.128 | 0.88 | 12.34 | 2.91 | 5.84 | 193 | 0.745 | 0.745 | 0.87 | 0.878 | 0.524 | 754.26 | 3.557 | 1.599E+05 | 1.599E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.19 | 114.09 | 2.5134 | 19.91 | 0.61 | 3.06% | 3.506 | 0.91 | 10.65 | 3.00 | 6.73 | 222 | 1.100 | 1.100 | 0.86 | 0.880 | 0.524 | 748.80 | 3.543 | 1.582E+05 | 1.582E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.29 | 113.43 | 2.5191 | 17.18 | 0.59 | 3.43% | 4.024 | 0.94 | 8.96 | 3.10 | 7.92 | 261 | 1.741 | 1.741 | 0.86 | 0.883 | 0.524 | 743.16 | 3.523 | 1.568E+05 | 1.568E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.32 | 112.90 | 2.5208 | 14.25 | 0.58 | 4.07% | 4.945 | 0.98 | 7.16 | 3.24 | 9.78 | 323 | 3.206 | 3.206 | 0.86 | 0.884 | 0.524 | 740.27 | 3.506 | 1.563E+05 | 1.563E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.39 | 112.95 | 2.5247 | 15.52 | 0.57 | 3.67% | 4.386 | 0.96 | 7.93 | 3.17 | 8.81 | 291 | 2.362 | 2.362 | 0.86 | 0.886 | 0.524 | 737.33 | 3.508 | 1.550E+05 | 1.550E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.48 | 112.26 | 2.5298 | 13.86 | 0.54 | 3.90% | 4.766 | 0.98 | 6.90 | 3.24 | 9.83 | 325 | 3.258 | 3.258 | 0.86 | 0.889 | 0.524 | 728.18 | 3.486 | 1.521E+05 | 1.521E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.52 | 111.97 | 2.5320 | 13.86 | 0.52 | 3.75% | 4.590 | 0.98 | 6.90 | 3.23 | 9.69 | 320 | 3.124 | 3.124 | 0.86 | 0.890 | 0.524 | 721.79 | 3.477 | 1.498E+05 | 1.498E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.61 | 111.06 | 2.5370 | 13.86 | 0.46 | 3.32% | 4.063 | 0.97 | 6.89 | 3.20 | 9.25 | 305 | 2.722 | 2.722 | 0.86 | 0.893 | 0.523 | 701.06 | 3.449 | 1.425E+05 | 1.425E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.66 | 110.46 | 2.5398 | 13.72 | 0.42 | 3.06% | 3.757 | 0.96 | 6.79 | 3.18 | 9.04 | 298 | 2.545 | 2.545 | 0.86 | 0.894 | 0.523 | 685.67 | 3.430 | 1.370E+05 | 1.370E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.75 | 110.08 | 2.5447 | 13.91 | 0.40 | 2.88% | 3.519 | 0.96 | 6.90 | 3.16 | 8.73 | 288 | 2.304 | 2.304 | 0.86 | 0.897 | 0.523 | 677.41 | 3.419 | 1.342E+05 | 1.342E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.79 | 110.06 | 2.5469 | 13.57 | 0.40 | 2.95% | 3.629 | 0.96 | 6.69 | 3.18 | 9.00 | 297 | 2.513 | 2.513 | 0.86 | 0.898 | 0.523 | 677.41 | 3.418 | 1.343E+05 | 1.343E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.88 | 110.77 | 2.5519 | 13.96 | 0.44 | 3.15% | 3.857 | 0.96 | 6.91 | 3.18 | 9.04 | 298 | 2.549 | 2.549 | 0.86 | 0.901 | 0.523 | 693.54 | 3.440 | 1.398E+05 | 1.398E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 38.92 | 111.20 | 2.5542 | 14.94 | 0.46 | 3.08% | 3.714 | 0.95 | 7.50 | 3.14 | 8.50 | 280 | 2.129 | 2.129 | 0.86 | 0.902 | 0.523 | 701.06 | 3.453 | 1.423E+05 | 1.423E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.02 | 113.08 | 2.5598 | 16.20 | 0.57 | 3.52% | 4.179 | 0.95 | 8.24 | 3.14 | 8.44 | 279 | 2.089 | 2.089 | 0.86 | 0.905 | 0.523 | 737.33 | 3.512 | 1.548E+05 | 1.548E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.06 | 113.78 | 2.5621 | 16.79 | 0.62 | 3.69% | 4.358 | 0.95 | 8.59 | 3.14 | 8.39 | 277 | 2.051 | 2.051 | 0.86 | 0.907 | 0.523 | 751.55 | 3.534 | 1.598E+05 | 1.598E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.13 | 115.59 | 2.5661 | 18.25 | 0.78 | 4.27% | 4.973 | 0.95 | 9.46 | 3.14 | 8.40 | 277 | 2.062 | 2.062 | 0.86 | 0.909 | 0.523 | 790.38 | 3.590 | 1.740E+05 | 1.740E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.19 | 117.67 | 2.5697 | 19.91 | 1.00 | 5.02% | 5.767 | 0.95 | 10.45 | 3.14 | 8.48 | 280 | 2.122 | 2.122 | 0.86 | 0.911 | 0.523 | 832.41 | 3.654 | 1.896E+05 | 1.896E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.28 | 119.76 | 2.5750 | 22.94 | 1.27 | 5.54% | 6.236 | 0.94 | 12.26 | 3.11 | 8.06 | 266 | 1.829 | 1.829 | 0.86 | 0.914 | 0.522 | 872.85 | 3.719 | 2.048E+05 | 2.048E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.31 | 120.72 | 2.5769 | 25.67 | 1.40 | 5.45% | 6.062 | 0.93 | 13.89 | 3.06 | 7.42 | 245 | 1.447 | 1.447 | 0.86 | 0.914 | 0.522 | 889.33 | 3.749 | 2.110E+05 | 2.110E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.37 | 122.82 | 2.5805 | 33.19 | 1.71 | 5.15% | 5.587 | 0.89 | 18.39 | 2.94 | 6.08 | 201 | 0.833 | 0.833 | 0.86 | 0.916 | 0.522 | 923.17 | 3.814 | 2.234E+05 | 2.234E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.45 | 124.42 | 2.5855 | 39.15 | 2.01 | 5.13% | 5.497 | 0.87 | 21.94 | 2.87 | 5.45 | 180 | 0.621 | 0.621 | 0.85 | 0.919 | 0.522 | 950.51 | 3.864 | 2.338E+05 | 2.338E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.51 | 125.11 | 2.5893 | 42.17 | 2.16 | 5.12% | 5.457 | 0.86 | 23.72 | 2.85 | 5.19 | 171 | 0.547 | 0.547 | 0.85 | 0.921 | 0.522 | 962.69 | 3.885 | 2.385E+05 | 2.385E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.59 | 125.26 | 2.5943 | 41.68 | 2.21 | 5.30% | 5.654 | 0.87 | 23.39 | 2.86 | 5.33 | 176 | 0.587 | 0.587 | 0.85 | 0.923 | 0.522 | 966.56 | 3.890 | 2.402E+05 | 2.402E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.64 | 124.89 | 2.5974 | 40.61 | 2.12 | 5.22% | 5.577 | 0.87 | 22.73 | 2.87 | 5.38 | 178 | 0.601 | 0.601 | 0.85 | 0.925 | 0.522 | 959.52 | 3.879 | 2.374E+05 | 2.374E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.70 | 123.75 | 2.6011 | 37.29 | 1.87 | 5.01% | 5.391 | 0.87 | 20.72 | 2.89 | 5.57 | 184 | 0.659 | 0.659 | 0.85 | 0.927 | 0.522 | 938.30 | 3.843 | 2.291E+05 | 2.291E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.77 | 120.72 | 2.6053 | 32.12 | 1.30 | 4.05% | 4.405 | 0.87 | 17.60 | 2.88 | 5.52 | 182 | 0.643 | 0.643 | 0.85 | 0.929 | 0.521 | 876.80 | 3.749 | 2.051E+05 | 2.051E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.85 | 114.92 | 2.6099 | 27.63 | 0.62 | 2.24% | 2.478 | 0.84 | 14.91 | 2.78 | 4.62 | 152 | 0.409 | 0.409 | 0.85 | 0.931 | 0.521 | 751.55 | 3.569 | 1.583E+05 | 1.583E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 39.92 | 116.44 | 2.6140 | 24.11 | 0.80 | 3.32% | 3.722 | 0.89 | 12.79 | 2.95 | 6.17 | 204 | 0.866 | 0.866 | 0.85 | 0.934 | 0.521 | 794.67 | 3.616 | 1.746E+05 | 1.746E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.00 | 116.70 | 2.6187 | 23.04 | 0.84 | 3.65% | 4.113 | 0.91 | 12.14 | 2.99 | 6.68 | 220 | 1.075 | 1.075 | 0.85 | 0.936 | 0.521 | 802.92 | 3.624 | 1.779E+05 | 1.779E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.03 | 116.53 | 2.6204 | 24.89 | 0.80 | 3.21% | 3.592 | 0.89 | 13.23 | 2.92 | 5.95 | 196 | 0.783 | 0.783 | 0.85 | 0.937 | 0.521 | 794.67 | 3.619 | 1.745E+05 | 1.745E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.10 | 117.14 | 2.6245 | 29.97 | 0.81 | 2.70% | 2.962 | 0.85 | 16.22 | 2.80 | 4.76 | 157 | 0.441 | 0.441 | 0.85 | 0.939 | 0.521 | 796.77 | 3.638 | 1.745E+05 | 1.745E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.17 | 118.49 | 2.6287 | 39.24 | 0.89 | 2.27% | 2.431 | 0.80 | 21.70 | 2.64 | 3.56 | 117 | 0.231 | 0.297 | 0.85 | 0.941 | 0.521 | 812.70 | 3.680 | 1.795E+05 | 1.795E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.22 | 118.78 | 2.6316 | 36.70 | 0.95 | 2.59% | 2.789 | 0.82 | 20.17 | 2.70 | 4.01 | 132 | 0.295 | 0.295 | 0.85 | 0.943 | 0.521 | 823.74 | 3.689 | 1.839E+05 | 1.839E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.31 | 118.55 | 2.6370 | 29.77 | 0.99 | 3.33% | 3.649 | 0.87 | 16.04 | 2.86 | 5.31 | 175 | 0.581 | 0.581 | 0.85 | 0.946 | 0.520 | 830.71 | 3.682 | 1.874E+05 | 1.874E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.38 | 117.86 | 2.6411 | 24.21 | 0.96 | 3.97% | 4.451 | 0.91 | 12.74 | 3.00 | 6.73 | 222 | 1.098 | 1.098 | 0.85 | 0.948 | 0.520 | 825.51 | 3.660 | 1.862E+05 | 1.862E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.42 | 117.03 | 2.6434 | 21.28 | 0.90 | 4.23% | 4.829 | 0.93 | 11.00 | 3.07 | 7.61 | 251 | 1.553 | 1.553 | 0.85 | 0.949 | 0.520 | 814.59 | 3.634 | 1.826E+05 | 1.826E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.49 | 116.09 | 2.6475 | 18.94 | 0.82 | 4.33% | 5.033 | 0.95 | 9.61 | 3.13 | 8.37 | 276 | 2.040 | 2.040 | 0.85 | 0.951 | 0.520 | 798.84 | 3.605 | 1.770E+05 | 1.770E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.58 | 114.55 | 2.6527 | 15.23 | 0.71 | 4.66% | 5.645 | 0.99 | 7.40 | 3.26 | 10.13 | 334 | 3.553 | 3.553 | 0.85 | 0.954 | 0.520 | 774.48 | 3.557 | 1.686E+05 | 1.686E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.62 | 113.92 | 2.6549 | 14.35 | 0.67 | 4.67% | 5.729 | 1.00 | 6.88 | 3.29 | 10.59 | 350 | 4.053 | 4.053 | 0.84 | 0.955 | 0.520 | 764.67 | 3.538 | 1.653E+05 | 1.653E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.71 | 114.06 | 2.6601 | 15.28 | 0.67 | 4.38% | 5.309 | 0.98 | 7.42 | 3.24 | 9.87 | 326 | 3.296 | 3.296 | 0.84 | 0.958 | 0.520 | 764.67 | 3.542 | 1.651E+05 | 1.651E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.76 | 114.13 | 2.6629 | 13.96 | 0.69 | 4.94% | 6.108 | 1.00 | 6.63 | 3.32 | 11.06 | 365 | 4.603 | 4.603 | 0.84 | 0.960 | 0.520 | 769.64 | 3.544 | 1.671E+05 | 1.671E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.84 | 115.30 | 2.6675 | 15.33 | 0.79 | 5.15% | 6.239 | 0.99 | 7.43 | 3.29 | 10.53 | 348 | 3.984 | 3.984 | 0.84 | 0.962 | 0.520 | 792.54 | 3.581 | 1.754E+05 | 1.754E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.89 | 116.32 | 2.6704 | 16.79 | 0.88 | 5.24% | 6.232 | 0.98 | 8.27 | 3.25 | 9.95 | 328 | 3.368 | 3.368 | 0.84 | 0.964 | 0.519 | 810.79 | 3.612 | 1.820E+05 | 1.820E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 40.95 | 117.78 | 2.6740 | 19.13 | 1.03 | 5.38% | 6.259 | 0.97 | 9.63 | 3.20 | 9.19 | 303 | 2.673 | 2.673 | 0.84 | 0.966 | 0.519 | 837.41 | 3.658 | 1.917E+05 | 1.917E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 41.02 | 119.24 | 2.6782 | 23.04 | 1.18 | 5.12% | 5.795 | 0.94 | 11.91 | 3.10 | 7.91 | 261 | 1.732 | 1.732 | 0.84 | 0.968 | 0.519 | 860.41 | 3.703 | 1.999E+05 | 1.999E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 41.11 | 120.52 | 2.6836 | 27.92 | 1.32 | 4.73% | 5.231 | 0.91 | 14.73 | 2.99 | 6.67 | 220 | 1.074 | 1.074 | 0.84 | 0.971 | 0.519 | 879.38 | 3.743 | 2.066E+05 | 2.066E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 41.16 | 121.04 | 2.6866 | 31.04 | 1.37 | 4.41% | 4.832 | 0.89 | 16.54 | 2.93 | 6.00 | 198 | 0.801 | 0.801 | 0.84 | 0.972 | 0.519 | 885.67 | 3.759 | 2.087E+05 | 2.087E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 41.22 | 121.65 | 2.6903 | 36.61 | 1.41 | 3.85% | 4.157 | 0.86 | 19.76 | 2.82 | 4.99 | 165 | 0.494 | 0.494 | 0.84 | 0.974 | 0.519 | 890.54 | 3.778 | 2.099E+05 | 2.099E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 41.29 | 121.32 | 2.6945 | 41.78 | 1.29 | 3.09% | 3.300 | 0.82 | 22.75 | 2.71 | 4.04 | 133 | 0.301 | 0.301 | 0.84 | 0.976 | 0.519 | 875.49 | 3.768 | 2.034E+05 | 2.034E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.15 | 0.00 | | |
| 41.38 | 119.92 | 2.6999 | 48.61 | 1.01 | 2.08% | 2.200 | 0.77 | 26.68 | 2.53 | 2.94 | 97 | 0.165 | 0.203 | 0.84 | 0.979 | 0.518 | 834.10 | 3.724 | 1.868E+05 | 1.868E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.40 | 0.54 | <= | 2.36 | 0.026 | 0.00 | 2.15 | 0.00 | 41.29 | 41.38 |
| 41.43 | 118.88 | 2.7029 | 52.13 | 0.86 | 1.65% | 1.740 | 0.74 | 28.70 | 2.44 | 2.49 | 82 | 0.131 | 0.162 | 0.84 | 0.981 | 0.518 | 806.90 | 3.692 | 1.764E+05 | 1.764E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.32 | 0.43 | <= | 2.71 | 0.016 | 0.00 | 2.12 | 0.00 | 41.38 | 41.43 |
| 41.49 | 118.76 | 2.7064 | 55.35 | 0.83 | 1.50% | 1.577 | 0.73 | 30.54 | 2.39 | 2.27 | 80 | 0.127 | 0.157 | 0.84 | 0.982 | 0.518 | 800.89 | 3.688 | 1.739E+05 | 1.739E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.31 | 0.42 | <= | 2.77 | 0.019 | 0.00 | 2.11 | 0.00 | 41.43 | 41.49 |
| 41.57 | 117.94 | 2.7112 | 52.52 | 0.75 | 1.43% | 1.506 | 0.73 | 28.86 | 2.40 | 2.31 | 76 | 0.122 | 0.152 | 0.84 | 0.985 | 0.518 | 783.75 | 3.663 | 1.677E+05 | 1.677E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.30 | 0.41 | <= | 2.86 | 0.026 | 0.00 | 2.09 | 0.00 | 41.49 | 41.57 |
| 41.60 | 117.37 | 2.7129 | 49.59 | 0.71 | 1.43% | 1.515 | 0.74 | 27.14 | 2.42 | 2.41 | 80 | 0.127 | 0.159 | 0.84 | 0.986 | 0.518 | 774.48 | 3.645 | 1.646E+05 | 1.646E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.31 | 0.43 | <= | 2.77 | 0.010 | 0.00 | 2.06 | 0.00 | 41.57 | 41.60 |
| 41.69 | 118.69 | 2.7183 | 42.07 | 0.90 | 2.14% | 2.287 | 0.79 | 22.75 | 2.60 | 3.33 | 110 | 0.203 | 0.259 | 0.84 | 0.989 | 0.518 | 814.59 | 3.686 | 1.800E+05 | 1.800E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 41.77 | 118.24 | 2.7230 | 35.05 | 0.90 | 2.57% | 2.784 | 0.83 | 18.67 | 2.73 | 4.20 | 139 | 0.328 | 0.328 | 0.84 | 0.991 | 0.518 | 814.59 | 3.672 | 1.807E+05 | 1.807E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 41.83 | 116.88 | 2.7265 | 28.80 | 0.80 | 2.78% | 3.068 | 0.86 | 15.04 | 2.83 | 5.07 | 167 | 0.516 | 0.516 | 0.84 | 0.993 | 0.517 | 794.67 | 3.630 | 1.740E+05 | 1.740E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 41.87 | 115.55 | 2.7288 | 21.28 | 0.73 | 3.43% | 3.935 | 0.92 | 10.70 | 3.03 | 7.05 | 233 | 1.249 | 1.249 | 0.83 | 0.994 | 0.517 | 779.18 | 3.589 | 1.692E+05 | 1.692E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 41.95 | 115.14 | 2.7334 | 20.11 | 0.71 | 3.53% | 4.086 | 0.93 | 10.01 | 3.06 | 7.45 | 246 | 1.464 | 1.464 | 0.83 | 0.997 | 0.517 | 774.48 | 3.576 | 1.677E+05 | 1.677E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.00 | 114.68 | 2.7363 | 16.89 | 0.70 | 4.14% | 4.946 | 0.96 | 8.14 | 3.19 | 9.10 | 300 | 2.603 | 2.603 | 0.83 | 0.998 | 0.517 | 772.08 | 3.561 | 1.674E+05 | 1.674E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.09 | 113.87 | 2.7414 | 14.74 | 0.66 | 4.48% | 5.501 | 0.99 | 6.90 | 3.28 | 10.41 | 344 | 3.852 | 3.852 | 0.83 | 1.001 | 0.517 | 762.12 | 3.536 | 1.642E+05 | 1.642E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.13 | 113.53 | 2.7437 | 14.94 | 0.63 | 4.22% | 5.165 | 0.99 | 7.00 | 3.26 | 10.07 | 332 | 3.490 | 3.490 | 0.83 | 1.002 | 0.517 | 754.26 | 3.526 | 1.614E+05 | 1.614E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.22 | 113.20 | 2.7488 | 15.52 | 0.59 | 3.80% | 4.620 | 0.97 | 7.33 | 3.21 | 9.39 | 310 | 2.848 | 2.848 | 0.83 | 1.005 | 0.517 | 743.16 | 3.516 | 1.571E+05 | 1.571E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.26 | 113.24 | 2.7510 | 15.62 | 0.59 | 3.78% | 4.585 | 0.97 | 7.38 | 3.21 | 9.33 | 308 | 2.791 | 2.791 | 0.83 | 1.007 | 0.517 | 743.16 | 3.517 | 1.570E+05 | 1.570E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.33 | 113.71 | 2.7550 | 16.11 | 0.62 | 3.85% | 4.642 | 0.97 | 7.65 | 3.20 | 9.19 | 303 | 2.671 | 2.671 | 0.83 | 1.009 | 0.516 | 751.55 | 3.531 | 1.599E+05 | 1.599E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.39 | 114.15 | 2.7584 | 16.60 | 0.66 | 3.98% | 4.768 | 0.96 | 7.92 | 3.19 | 9.11 | 301 | 2.605 | 2.605 | 0.83 | 1.011 | 0.516 | 762.12 | 3.545 | 1.638E+05 | 1.638E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.49 | 115.31 | 2.7642 | 18.06 | 0.75 | 4.15% | 4.903 | 0.96 | 8.74 | 3.16 | 8.72 | 288 | 2.297 | 2.297 | 0.83 | 1.014 | 0.516 | 783.75 | 3.581 | 1.715E+05 | 1.715E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.53 | 115.74 | 2.7665 | 18.84 | 0.78 | 4.14% | 4.853 | 0.95 | 9.18 | 3.14 | 8.45 | 279 | 2.093 | 2.093 | 0.83 | 1.015 | 0.516 | 790.38 | 3.594 | 1.738E+05 | 1.738E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.60 | 116.30 | 2.7706 | 19.62 | 0.83 | 4.23% | 4.926 | 0.95 | 9.61 | 3.13 | 8.28 | 273 | 1.978 | 1.978 | 0.83 | 1.017 | 0.516 | 800.89 | 3.612 | 1.776E+05 | 1.776E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.65 | 116.63 | 2.7735 | 20.30 | 0.86 | 4.24% | 4.907 | 0.94 | 9.99 | 3.11 | 8.09 | 267 | 1.848 | 1.848 | 0.83 | 1.019 | 0.516 | 806.90 | 3.622 | 1.798E+05 | 1.798E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.74 | 117.04 | 2.7788 | 21.18 | 0.90 | 4.25% | 4.891 | 0.94 | 10.47 | 3.09 | 7.86 | 259 | 1.703 | 1.703 | 0.83 | 1.021 | 0.516 | 814.59 | 3.635 | 1.826E+05 | 1.826E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.80 | 117.79 | 2.7823 | 22.06 | 0.98 | 4.44% | 5.084 | 0.93 | 10.96 | 3.09 | 7.79 | 257 | 1.662 | 1.662 | 0.83 | 1.023 | 0.515 | 829.00 | 3.658 | 1.879E+05 | 1.879E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.85 | 118.35 | 2.7853 | 22.26 | 1.06 | 4.76% | 5.443 | 0.94 | 11.06 | 3.11 | 8.00 | 264 | 1.789 | 1.789 | 0.83 | 1.025 | 0.515 | 842.27 | 3.675 | 1.930E+05 | 1.930E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.93 | 119.47 | 2.7900 | 22.26 | 1.23 | 5.53% | 6.317 | 0.95 | 11.05 | 3.15 | 8.56 | 283 | 2.179 | 2.179 | 0.83 | 1.027 | 0.515 | 867.43 | 3.710 | 2.028E+05 | 2.028E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 42.98 | 120.04 | 2.7930 | 22.45 | 1.33 | 5.92% | 6.766 | 0.96 | 11.14 | 3.17 | 8.79 | 290 | 2.352 | 2.352 | 0.83 | 1.029 | 0.515 | 880.66 | 3.728 | 2.080E+05 | 2.080E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 43.07 | 120.55 | 2.7985 | 24.70 | 1.38 | 5.59% | 6.301 | 0.94 | 12.40 | 3.11 | 8.03 | 265 | 1.811 | 1.811 | 0.83 | 1.032 | 0.515 | 886.90 | 3.744 | 2.101E+05 | 2.101E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 43.11 | 121.08 | 2.8009 | 29.19 | 1.40 | 4.80% | 5.305 | 0.91 | 14.93 | 2.99 | 6.66 | 220 | 1.067 | 1.067 | 0.82 | 1.033 | 0.515 | 889.33 | 3.760 | 2.103E+05 | 2.103E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 43.19 | 122.57 | 2.8058 | 45.20 | 1.49 | 3.30% | 3.515 | 0.82 | 23.95 | 2.70 | 4.03 | 133 | 0.299 | 0.299 | 0.82 | 1.036 | 0.515 | 899.87 | 3.807 | 2.127E+05 | 2.127E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.05 | 0.00 | | |
| 43.25 | 123.65 | 2.8095 | 64.04 | 1.54 | 2.40% | 2.515 | 0.75 | 34.55 | 2.48 | 2.66 | 105 | 0.187 | 0.210 | 0.82 | 1.037 | 0.514 | 905.45 | 3.840 | 2.135E+05 | 2.135E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.41 | 0.57 | <= | 2.22 | 0.015 | 0.00 | 2.05 | 0.00 | 43.19 | 43.25 |
| 43.34 | 124.57 | 2.8151 | 97.03 | 1.52 | 1.57% | 1.613 | 0.67 | 53.08 | 2.20 | 1.66 | 105 | 0.188 | 0.326 | 0.82 | 1.040 | 0.514 | 903.24 | 3.869 | 2.109E+05 | 2.109E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.64 | 0.88 | <= | 2.07 | 0.022 | 0.00 | 2.04 | 0.00 | 43.25 | 43.34 |
| 43.38 | 124.87 | 2.8176 | 115.48 | 1.49 | 1.29% | 1.323 | 0.63 | 63.43 | 2.07 | 1.41 | 109 | 0.200 | 0.298 | 0.82 | 1.041 | 0.514 | 899.87 | 3.878 | 2.088E+05 | 2.088E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.59 | 0.81 | <= | 1.40 | 0.007 | 0.00 | 2.01 | 0.00 | 43.34 | 43.38 |
| 43.47 | 124.74 | 2.8232 | 137.25 | 1.38 | 1.01% | 1.027 | 0.59 | 75.57 | 1.94 | 1.23 | 116 | 0.223 | 0.273 | 0.82 | 1.044 | 0.514 | 886.90 | 3.874 | 2.030E+05 | 2.030E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.54 | 0.74 | <= | 1.81 | 0.020 | 0.00 | 2.01 | 0.00 | 43.38 | 43.47 |
| 43.52 | 124.65 | 2.8263 | 150.04 | 1.33 | 0.89% | 0.903 | 0.57 | 82.68 | 1.87 | 1.16 | 121 | 0.245 | 0.250 | 0.82 | 1.046 | 0.514 | 880.66 | 3.871 | 2.003E+05 | 2.003E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.49 | 0.68 | <= | 1.98 | 0.009 | 0.00 | 1.99 | 0.00 | 43.47 | 43.52 |
| 43.61 | 124.82 | 2.8319 | 166.24 | 1.31 | 0.79% | 0.802 | 0.55 | 91.63 | 1.80 | 1.10 | 129 | 0.281 | 0.281 | 0.82 | 1.049 | 0.513 | 878.09 | 3.876 | 1.989E+05 | 1.989E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.55 | 0.76 | <= | 1.58 | 0.011 | 0.00 | 1.98 | 0.00 | 43.52 | 43.61 |
| 43.64 | 124.93 | 2.8338 | 171.13 | 1.32 | 0.77% | 0.784 | 0.54 | 94.32 | 1.78 | 1.09 | 132 | 0.294 | 0.294 | 0.82 | 1.050 | 0.513 | 879.38 | 3.880 | 1.993E+05 | 1.993E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.58 | 0.80 | <= | 1.63 | 0.004 | 0.00 | 1.97 | 0.00 | 43.61 | 43.64 |
| 43.74 | 125.14 | 2.8401 | 182.84 | 1.33 | 0.73% | 0.739 | 0.53 | 100.71 | 1.74 | 1.06 | 138 | 0.326 | 0.326 | 0.82 | 1.053 | 0.513 | 880.66 | 3.886 | 1.996E+05 | 1.996E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.64 | 0.88 | <= | 1.21 | 0.009 | 0.00 | 1.96 | 0.00 | 43.64 | 43.74 |
| 43.79 | 125.11 | 2.8432 | 188.79 | 1.31 | 0.69% | 0.705 | 0.52 | 103.94 | 1.71 | 1.05 | 141 | 0.341 | 0.341 | 0.82 | 1.054 | 0.513 | 878.09 | 3.885 | 1.984E+05 | 1.984E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.67 | 0.92 | <= | 0.71 | 0.003 | 0.00 | 1.95 | 0.00 | 43.74 | 43.79 |
| 43.87 | 125.36 | 2.8482 | 195.04 | 1.34 | 0.69% | 0.697 | 0.52 | 107.28 | 1.70 | 1.04 | 145 | 0.362 | 0.362 | 0.82 | 1.057 | 0.513 | 881.92 | 3.893 | 1.998E+05 | 1.998E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.71 | 0.98 | <= | 0.84 | 0.005 | 0.00 | 1.95 | 0.00 | 43.79 | 43.87 |
| 43.92 | 125.26 | 2.8513 | 197.48 | 1.32 | 0.67% | 0.678 | 0.51 | 108.55 | 1.69 | 1.03 | 146 | 0.367 | 0.367 | 0.82 | 1.058 | 0.513 | 879.38 | 3.890 | 1.988E+05 | 1.988E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.72 | 1.00 | <= | 0.87 | 0.003 | 0.00 | 1.95 | 0.00 | 43.87 | 43.92 |
| 43.98 | 125.22 | 2.8551 | 198.65 | 1.31 | 0.66% | 0.669 | 0.51 | 109.08 | 1.68 | 1.03 | 146 | 0.369 | 0.369 | 0.82 | 1.060 | 0.512 | 878.09 | 3.889 | 1.983E+05 | 1.983E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.73 | 1.00 | <= | 0.43 | 0.003 | 0.00 | 1.94 | 0.00 | 43.92 | 43.98 |
| 44.05 | 125.57 | 2.8595 | 198.75 | 1.37 | 0.69% | 0.699 | 0.52 | 109.00 | 1.69 | 1.03 | 147 | 0.374 | 0.374 | 0.82 | 1.062 | 0.512 | 885.67 | 3.900 | 2.011E+05 | 2.011E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.74 | 1.02 | <= | 0.46 | 0.003 | 0.00 | 1.94 | 0.00 | 43.98 | 44.05 |
| 44.10 | 125.65 | 2.8626 | 197.58 | 1.39 | 0.70% | 0.714 | 0.52 | 108.25 | 1.70 | 1.04 | 146 | 0.372 | 0.372 | 0.82 | 1.064 | 0.512 | 888.12 | 3.902 | 2.021E+05 | 2.021E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.73 | 1.01 | <= | 0.45 | 0.002 | 0.00 | 1.94 | 0.00 | 44.05 | 44.10 |
| 44.19 | 125.38 | 2.8683 | 187.14 | 1.36 | 0.73% | 0.738 | 0.53 | 102.28 | 1.73 | 1.06 | 140 | 0.338 | 0.338 | 0.82 | 1.067 | 0.512 | 884.43 | 3.894 | 2.009E+05 | 2.009E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.67 | 0.92 | <= | 0.69 | 0.007 | 0.00 | 1.94 | 0.00 | 44.10 | 44.19 |
| 44.23 | 125.29 | 2.8708 | 184.99 | 1.35 | 0.73% | 0.741 | 0.53 | 101.02 | 1.74 | 1.06 | 139 | 0.331 | 0.331 | 0.82 | 1.068 | 0.512 | 883.18 | 3.891 | 2.005E+05 | 2.005E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.65 | 0.90 | <= | 1.25 | 0.004 | 0.00 | 1.93 | 0.00 | 44.19 | 44.23 |
| 44.31 | 125.06 | 2.8758 | 178.45 | 1.33 | 0.75% | 0.758 | 0.54 | 97.25 | 1.76 | 1.08 | 135 | 0.310 | 0.310 | 0.82 | 1.070 | 0.511 | 880.66 | 3.884 | 1.997E+05 | 1.997E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.61 | 0.84 | <= | 1.13 | 0.006 | 0.00 | 1.92 | 0.00 | 44.23 | 44.31 |
| 44.37 | 124.87 | 2.8795 | 168.78 | 1.32 | 0.78% | 0.796 | 0.55 | 91.80 | 1.79 | 1.10 | 130 | 0.284 | 0.284 | 0.81 | 1.072 | 0.511 | 879.38 | 3.878 | 1.994E+05 | 1.994E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.56 | 0.77 | <= | 1.60 | 0.008 | 0.00 | 1.92 | 0.00 | 44.31 | 44.37 |
| 44.45 | 124.93 | 2.8845 | 156.97 | 1.36 | 0.87% | 0.883 | 0.56 | 85.14 | 1.85 | 1.14 | 124 | 0.258 | 0.258 | 0.81 | 1.075 | 0.511 | 884.43 | 3.880 | 2.016E+05 | 2.016E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.51 | 0.70 | <= | 1.49 | 0.014 | 0.00 | 1.91 | 0.00 | 44.37 | 44.45 |
| 44.50 | 124.98 | 2.8877 | 147.21 | 1.40 | 0.95% | 0.970 | 0.58 | 79.68 | 1.90 | 1.19 | 120 | 0.239 | 0.253 | 0.81 | 1.076 | 0.511 | 889.33 | 3.881 | 2.038E+05 | 2.038E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | | 0.50 | 0.69 | <= | 2.00 | 0.009 | 0.00 | 1.90 | 0.00 | 44.45 | 44.50 |
| 44.56 | 124.98 | 2.8914 | 129.05 | 1.46 | 1.13% | 1.157 | 0.61 | 69.58 | 2.00 | 1.30 | 112 | 0.212 | 0.285 | 0.81 | 1.078 | 0.511 | 896.43 | 3.881 | 2.070E+05 | 2.070E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | | 0.56 | 0.78 | <= | 2.01 | 0.014 | 0.00 | 1.89 | 0.00 | 44.50 | 44.56 |
| 44.63 | 125.02 | 2.8958 | 107.09 | 1.56 | 1.46% | 1.497 | 0.65 | 57.40 | 2.14 | 1.54 | 107 | 0.195 | 0.311 | 0.81 | 1.080 | 0.511 | 907.64 | 3.883 | 2.122E+05 | 2.122E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | | 0.62 | 0.85 | <= | 1.77 | 0.015 | 0.00 | 1.87 | 0.00 | 44.56 | 44.63 |
| 44.70 | 124.99 | 2.9002 | 83.66 | 1.69 | 2.02% | 2.093 | 0.71 | 44.43 | 2.33 | 2.06 | 108 | 0.196 | 0.194 | 0.81 | 1.083 | 0.510 | 921.18 | 3.882 | 2.186E+05 | 2.186E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | | 0.38 | 0.53 | <= | 2.17 | 0.018 | 0.00 | 1.86 | 0.00 | 44.63 | 44.70 |
| 44.76 | 124.88 | 2.9039 | 68.92 | 1.78 | 2.58% | 2.696 | 0.75 | 36.28 | 2.48 | 2.67 | 111 | 0.208 | 0.224 | 0.81 | 1.085 | 0.510 | 929.95 | 3.878 | 2.230E+05 | 2.230E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | | 0.44 | 0.61 | <= | 2.12 | 0.015 | 0.00 | 1.84 | 0.00 | 44.70 | 44.76 |
| 44.82 | 123.99 | 2.9076 | 49.98 | 1.75 | 3.50% | 3.718 | 0.82 | 25.85 | 2.69 | 3.95 | 130 | 0.286 | 0.286 | 0.81 | 1.086 | 0.510 | 927.08 | 3.851 | 2.232E+05 | 2.232E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.88 | 123.29 | 2.9113 | 41.20 | 1.70 | 4.13% | 4.440 | 0.85 | 21.00 | 2.82 | 4.95 | 163 | 0.485 | 0.485 | 0.81 | 1.088 | 0.510 | 922.18 | 3.829 | 2.221E+05 | 2.221E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.98 | 121.90 | 2.9174 | 32.41 | 1.52 | 4.69% | 5.154 | 0.89 | 16.15 | 2.96 | 6.26 | 207 | 0.899 | 0.899 | 0.81 | 1.091 | 0.510 | 903.24 | 3.786 | 2.155E+05 | 2.155E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.03 | 121.06 | 2.9204 | 29.58 | 1.40 | 4.73% | 5.251 | 0.91 | 14.59 | 3.00 | 6.70 | 221 | 1.086 | 1.086 | 0.81 | 1.093 | 0.509 | 889.33 | 3.760 | 2.104E+05 | 2.104E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.10 | 119.56 | 2.9246 | 23.62 | 1.23 | 5.21% | 5.943 | 0.94 | 11.31 | 3.12 | 8.21 | 271 | 1.931 | 1.931 | 0.81 | 1.095 | 0.509 | 867.43 | 3.713 | 2.026E+05 | 2.026E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.15 | 118.71 | 2.9276 | 21.38 | 1.13 | 5.29% | 6.124 | 0.96 | 10.08 | 3.17 | 8.87 | 293 | 2.411 | 2.411 | 0.81 | 1.097 | 0.509 | 853.09 | 3.687 | 1.974E+05 | 1.974E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.21 | 117.43 | 2.9311 | 19.23 | 0.98 | 5.10% | 6.013 | 0.97 | 8.89 | 3.21 | 9.42 | 311 | 2.870 | 2.870 | 0.81 | 1.099 | 0.509 | 829.00 | 3.647 | 1.884E+05 | 1.884E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.30 | 114.61 | 2.9363 | 18.25 | 0.68 | 3.73% | 4.440 | 0.95 | 8.35 | 3.15 | 8.57 | 283 | 2.185 | 2.185 | 0.81 | 1.101 | 0.509 | 767.17 | 3.559 | 1.654E+05 | 1.654E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.35 | 113.17 | 2.9391 | 18.06 | 0.56 | 3.10% | 3.703 | 0.94 | 8.23 | 3.11 | 8.00 | 264 | 1.793 | 1.793 | 0.81 | 1.103 | 0.509 | 734.33 | 3.515 | 1.534E+05 | 1.534E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.43 | 111.94 | 2.9436 | 17.67 | 0.48 | 2.72% | 3.259 | 0.93 | 8.01 | 3.08 | 7.72 | 255 | 1.615 | 1.615 | 0.81 | 1.105 | 0.508 | 708.25 | 3.476 | 1.443E+05 | 1.443E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.48 | 111.52 | 2.9464 | 17.57 | 0.45 | 2.56% | 3.077 | 0.93 | 7.95 | 3.07 | 7.57 | 250 | 1.529 | 1.529 | 0.81 | 1.107 | 0.508 | 697.34 | 3.463 | 1.404E+05 | 1.404E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.57 | 111.31 | 2.9514 | 17.57 | 0.44 | 2.50% | 3.010 | 0.93 | 7.94 | 3.07 | 7.51 | 248 | 1.494 | 1.494 | 0.80 | 1.110 | 0.508 | 693.54 | 3.457 | 1.391E+05 | 1.391E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.61 | 111.23 | 2.9536 | 17.57 | 0.43 | 2.45% | 2.942 | 0.93 | 7.93 | 3.06 | 7.44 | 246 | 1.456 | 1.456 | 0.80 | 1.111 | 0.508 | 689.65 | 3.454 | 1.377E+05 | 1.377E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.70 | 107.74 | 2.9585 | 17.77 | 0.27 | 1.52% | 1.823 | 0.89 | 8.03 | 2.94 | 6.08 | 201 | 0.832 | 0.832 | 0.80 | 1.114 | 0.508 | 610.93 | 3.346 | 1.115E+05 | 1.115E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.75 | 107.02 | 2.9611 | 18.16 | 0.24 | 1.32% | 1.579 | 0.88 | 8.23 | 2.89 | 5.65 | 186 | 0.682 | 0.682 | 0.80 | 1.115 | 0.508 | 591.00 | 3.324 | 1.051E+05 | 1.051E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.82 | 107.99 | 2.9649 | 18.55 | 0.27 | 1.46% | 1.732 | 0.88 | 8.44 | 2.91 | 5.76 | 190 | 0.719 | 0.719 | 0.80 | 1.118 | 0.508 | 610.93 | 3.354 | 1.113E+05 | 1.113E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.88 | 109.54 | 2.9682 | 18.94 | 0.33 | 1.74% | 2.066 | 0.89 | 8.64 | 2.94 | 6.09 | 201 | 0.834 | 0.834 | 0.80 | 1.119 | 0.507 | 644.87 | 3.402 | 1.222E+05 | 1.222E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.97 | 111.86 | 2.9732 | 20.01 | 0.45 | 2.25% | 2.641 | 0.90 | 9.20 | 2.98 | 6.47 | 214 | 0.986 | 0.986 | 0.80 | 1.122 | 0.507 | 697.34 | 3.474 | 1.400E+05 | 1.400E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.00 | 112.19 | 2.9749 | 20.11 | 0.47 | 2.34% | 2.743 | 0.90 | 9.25 | 2.98 | 6.55 | 216 | 1.021 | 1.021 | 0.80 | 1.123 | 0.507 | 704.69 | 3.484 | 1.425E+05 | 1.425E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.07 | 112.54 | 2.9789 | 20.89 | 0.49 | 2.35% | 2.736 | 0.90 | 9.66 | 2.97 | 6.37 | 210 | 0.942 | 0.942 | 0.80 | 1.125 | 0.507 | 711.74 | 3.495 | 1.449E+05 | 1.449E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.16 | 112.96 | 2.9839 | 20.21 | 0.52 | 2.57% | 3.019 | 0.91 | 9.28 | 3.01 | 6.82 | 225 | 1.138 | 1.138 | 0.80 | 1.128 | 0.507 | 721.79 | 3.508 | 1.485E+05 | 1.485E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.21 | 113.38 | 2.9868 | 19.91 | 0.55 | 2.76% | 3.250 | 0.92 | 9.11 | 3.03 | 7.12 | 235 | 1.284 | 1.284 | 0.80 | 1.130 | 0.507 | 731.28 | 3.521 | 1.519E+05 | 1.519E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.28 | 113.99 | 2.9908 | 19.62 | 0.60 | 3.06% | 3.608 | 0.93 | 8.95 | 3.07 | 7.53 | 248 | 1.506 | 1.506 | 0.80 | 1.132 | 0.506 | 746.00 | 3.540 | 1.572E+05 | 1.572E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.34 | 114.49 | 2.9942 | 19.43 | 0.65 | 3.35% | 3.955 | 0.94 | 8.83 | 3.10 | 7.89 | 260 | 1.721 | 1.721 | 0.80 | 1.134 | 0.506 | 759.54 | 3.556 | 1.623E+05 | 1.623E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.40 | 114.85 | 2.9976 | 19.62 | 0.68 | 3.47% | 4.091 | 0.94 | 8.93 | 3.10 | 7.96 | 263 | 1.763 | 1.763 | 0.80 | 1.136 | 0.506 | 767.17 | 3.567 | 1.650E+05 | 1.650E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.48 | 115.15 | 3.0022 | 19.72 | 0.71 | 3.60% | 4.247 | 0.94 | 8.97 | 3.11 | 8.06 | 266 | 1.832 | 1.832 | 0.80 | 1.138 | 0.506 | 774.48 | 3.576 | 1.677E+05 | 1.677E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.53 | 115.34 | 3.0051 | 19.62 | 0.73 | 3.72% | 4.394 | 0.94 | 8.91 | 3.12 | 8.21 | 271 | 1.933 | 1.933 | 0.80 | 1.140 | 0.506 | 779.18 | 3.582 | 1.695E+05 | 1.695E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.61 | 115.68 | 3.0098 | 19.43 | 0.76 | 3.91% | 4.628 | 0.95 | 8.79 | 3.14 | 8.46 | 279 | 2.106 | 2.106 | 0.80 | 1.142 | 0.506 | 785.99 | 3.593 | 1.720E+05 | 1.720E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.66 | 115.87 | 3.0127 | 19.91 | 0.78 | 3.92% | 4.616 | 0.95 | 9.04 | 3.13 | 8.32 | 275 | 2.004 | 2.004 | 0.80 | 1.144 | 0.505 | 790.38 | 3.598 | 1.736E+05 | 1.736E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.74 | 116.11 | 3.0173 | 20.99 | 0.79 | 3.76% | 4.396 | 0.94 | 9.61 | 3.09 | 7.86 | 259 | 1.704 | 1.704 | 0.80 | 1.146 | 0.505 | 792.54 | 3.606 | 1.742E+05 | 1.742E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.80 | 116.21 | 3.0208 | 23.04 | 0.77 | 3.34% | 3.846 | 0.91 | 10.69 | 3.02 | 6.95 | 229 | 1.201 | 1.201 | 0.79 | 1.148 | 0.505 | 788.20 | 3.609 | 1.721E+05 | 1.721E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.88 | 116.45 | 3.0254 | 24.31 | 0.79 | 3.25% | 3.712 | 0.90 | 11.35 | 2.99 | 6.59 | 217 | 1.036 | 1.036 | 0.79 | 1.151 | 0.505 | 792.54 | 3.616 | 1.737E+05 | 1.737E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.92 | 116.61 | 3.0278 | 23.82 | 0.81 | 3.40% | 3.896 | 0.91 | 11.08 | 3.01 | 6.84 | 226 | 1.148 | 1.148 | 0.79 | 1.152 | 0.505 | 796.77 | 3.621 | 1.753E+05 | 1.753E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.01 | 117.19 | 3.0330 | 23.33 | 0.88 | 3.77% | 4.336 | 0.92 | 10.81 | 3.05 | 7.29 | 241 | 1.374 | 1.374 | 0.79 | 1.155 | 0.505 | 810.79 | 3.639 | 1.806E+05 | 1.806E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.05 | 117.59 | 3.0354 | 22.94 | 0.94 | 4.10% | 4.723 | 0.93 | 10.59 | 3.08 | 7.67 | 253 | 1.587 | 1.587 | 0.79 | 1.156 | 0.504 | 821.95 | 3.652 | 1.850E+05 | 1.850E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.13 | 118.34 | 3.0401 | 23.23 | 1.03 | 4.43% | 5.102 | 0.94 | 10.73 | 3.10 | 7.88 | 260 | 1.716 | 1.716 | 0.79 | 1.158 | 0.504 | 837.41 | 3.675 | 1.908E+05 | 1.908E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-3

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

**Project No.:** 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2

Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A ($ft^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47.19 | 118.79 | 3.0437 | 23.14 | 1.10 | 4.75% | 5.474 | 0.94 | 10.67 | 3.12 | 8.16 | 269 | 1.898 | 1.898 | 0.79 | 1.160 | 0.504 | 848.54 | 3.689 | 1.952E+05 | 1.952E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.28 | 119.77 | 3.0491 | 24.89 | 1.23 | 4.94% | 5.632 | 0.94 | 11.58 | 3.10 | 7.90 | 261 | 1.726 | 1.726 | 0.79 | 1.163 | 0.504 | 867.43 | 3.720 | 2.023E+05 | 2.023E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.32 | 120.21 | 3.0515 | 25.87 | 1.29 | 4.99% | 5.653 | 0.93 | 12.09 | 3.08 | 7.72 | 255 | 1.618 | 1.618 | 0.79 | 1.164 | 0.504 | 875.49 | 3.733 | 2.053E+05 | 2.053E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.38 | 120.87 | 3.0551 | 28.80 | 1.36 | 4.72% | 5.283 | 0.91 | 13.63 | 3.02 | 6.98 | 230 | 1.217 | 1.217 | 0.79 | 1.166 | 0.503 | 884.43 | 3.754 | 2.084E+05 | 2.084E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.46 | 121.53 | 3.0600 | 30.85 | 1.46 | 4.73% | 5.254 | 0.91 | 14.69 | 2.99 | 6.66 | 220 | 1.069 | 1.069 | 0.79 | 1.169 | 0.503 | 896.43 | 3.774 | 2.129E+05 | 2.129E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.55 | 116.98 | 3.0652 | 32.12 | 0.77 | 2.40% | 2.650 | 0.84 | 15.34 | 2.78 | 4.62 | 153 | 0.410 | 0.410 | 0.79 | 1.172 | 0.503 | 788.20 | 3.633 | 1.710E+05 | 1.710E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.59 | 117.49 | 3.0676 | 32.12 | 0.83 | 2.58% | 2.857 | 0.85 | 15.33 | 2.80 | 4.80 | 158 | 0.449 | 0.449 | 0.79 | 1.173 | 0.503 | 800.89 | 3.649 | 1.758E+05 | 1.758E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.66 | 119.07 | 3.0718 | 32.12 | 1.03 | 3.21% | 3.546 | 0.87 | 15.31 | 2.86 | 5.34 | 176 | 0.590 | 0.590 | 0.79 | 1.175 | 0.503 | 837.41 | 3.698 | 1.896E+05 | 1.896E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.73 | 119.36 | 3.0759 | 33.19 | 1.06 | 3.19% | 3.520 | 0.86 | 15.86 | 2.85 | 5.21 | 172 | 0.551 | 0.551 | 0.79 | 1.177 | 0.502 | 842.27 | 3.707 | 1.914E+05 | 1.914E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.81 | 118.84 | 3.0807 | 35.63 | 0.96 | 2.69% | 2.949 | 0.84 | 17.12 | 2.77 | 4.53 | 150 | 0.391 | 0.391 | 0.79 | 1.180 | 0.502 | 825.51 | 3.691 | 1.846E+05 | 1.846E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.84 | 118.78 | 3.0825 | 35.68 | 0.96 | 2.69% | 2.945 | 0.84 | 17.14 | 2.77 | 4.52 | 149 | 0.389 | 0.389 | 0.79 | 1.181 | 0.502 | 825.51 | 3.689 | 1.847E+05 | 1.847E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.91 | 118.87 | 3.0866 | 38.95 | 0.94 | 2.41% | 2.621 | 0.82 | 18.84 | 2.70 | 4.00 | 132 | 0.294 | 0.294 | 0.79 | 1.183 | 0.502 | 821.95 | 3.692 | 1.830E+05 | 1.830E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.99 | 118.65 | 3.0914 | 35.73 | 0.94 | 2.63% | 2.880 | 0.84 | 17.12 | 2.76 | 4.47 | 148 | 0.379 | 0.379 | 0.79 | 1.185 | 0.502 | 821.95 | 3.685 | 1.833E+05 | 1.833E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.04 | 118.32 | 3.0943 | 31.24 | 0.94 | 3.01% | 3.340 | 0.87 | 14.76 | 2.86 | 5.31 | 175 | 0.580 | 0.580 | 0.78 | 1.187 | 0.502 | 821.95 | 3.675 | 1.839E+05 | 1.839E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.12 | 118.16 | 3.0991 | 26.55 | 0.97 | 3.65% | 4.136 | 0.90 | 12.28 | 2.99 | 6.60 | 218 | 1.040 | 1.040 | 0.78 | 1.189 | 0.501 | 827.26 | 3.670 | 1.865E+05 | 1.865E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.16 | 118.11 | 3.1014 | 24.11 | 1.00 | 4.15% | 4.760 | 0.93 | 10.99 | 3.07 | 7.52 | 248 | 1.504 | 1.504 | 0.78 | 1.191 | 0.501 | 832.41 | 3.668 | 1.889E+05 | 1.889E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.24 | 117.58 | 3.1061 | 20.70 | 0.97 | 4.69% | 5.513 | 0.96 | 9.20 | 3.17 | 8.90 | 294 | 2.433 | 2.433 | 0.78 | 1.193 | 0.501 | 827.26 | 3.652 | 1.874E+05 | 1.874E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.30 | 117.07 | 3.1096 | 19.23 | 0.93 | 4.84% | 5.769 | 0.97 | 8.42 | 3.22 | 9.52 | 314 | 2.967 | 2.967 | 0.78 | 1.195 | 0.501 | 820.14 | 3.636 | 1.850E+05 | 1.850E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.37 | 116.30 | 3.1137 | 18.25 | 0.85 | 4.66% | 5.616 | 0.98 | 7.90 | 3.24 | 9.75 | 322 | 3.178 | 3.178 | 0.78 | 1.197 | 0.501 | 804.92 | 3.612 | 1.794E+05 | 1.794E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.43 | 115.64 | 3.1172 | 17.77 | 0.78 | 4.39% | 5.323 | 0.98 | 7.64 | 3.23 | 9.71 | 320 | 3.141 | 3.141 | 0.78 | 1.199 | 0.500 | 790.38 | 3.591 | 1.739E+05 | 1.739E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.50 | 115.18 | 3.1212 | 17.08 | 0.75 | 4.39% | 5.373 | 0.98 | 7.27 | 3.25 | 10.02 | 331 | 3.438 | 3.438 | 0.78 | 1.201 | 0.500 | 783.75 | 3.577 | 1.717E+05 | 1.717E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.56 | 114.61 | 3.1246 | 16.99 | 0.69 | 4.06% | 4.976 | 0.98 | 7.22 | 3.24 | 9.75 | 322 | 3.175 | 3.175 | 0.78 | 1.203 | 0.500 | 769.64 | 3.559 | 1.664E+05 | 1.664E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.63 | 114.05 | 3.1286 | 16.60 | 0.64 | 3.86% | 4.751 | 0.98 | 7.00 | 3.23 | 9.73 | 321 | 3.154 | 3.154 | 0.78 | 1.205 | 0.500 | 756.92 | 3.542 | 1.618E+05 | 1.618E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.71 | 113.96 | 3.1332 | 16.30 | 0.64 | 3.93% | 4.861 | 0.98 | 6.84 | 3.25 | 9.95 | 328 | 3.369 | 3.369 | 0.78 | 1.208 | 0.500 | 756.92 | 3.539 | 1.619E+05 | 1.619E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.75 | 113.97 | 3.1355 | 16.30 | 0.64 | 3.93% | 4.862 | 0.98 | 6.83 | 3.25 | 9.95 | 328 | 3.373 | 3.373 | 0.78 | 1.209 | 0.499 | 756.92 | 3.539 | 1.619E+05 | 1.619E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.84 | 114.01 | 3.1406 | 16.50 | 0.64 | 3.88% | 4.791 | 0.98 | 6.93 | 3.24 | 9.82 | 324 | 3.244 | 3.244 | 0.78 | 1.212 | 0.499 | 756.92 | 3.541 | 1.618E+05 | 1.618E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.90 | 114.19 | 3.1440 | 16.89 | 0.65 | 3.85% | 4.729 | 0.98 | 7.12 | 3.23 | 9.62 | 317 | 3.053 | 3.053 | 0.78 | 1.214 | 0.499 | 759.54 | 3.546 | 1.627E+05 | 1.627E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.97 | 114.58 | 3.1480 | 16.89 | 0.69 | 4.09% | 5.021 | 0.98 | 7.11 | 3.24 | 9.86 | 325 | 3.285 | 3.285 | 0.78 | 1.216 | 0.499 | 769.64 | 3.558 | 1.665E+05 | 1.665E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.03 | 114.66 | 3.1515 | 17.28 | 0.69 | 3.99% | 4.884 | 0.98 | 7.31 | 3.23 | 9.61 | 317 | 3.042 | 3.042 | 0.78 | 1.218 | 0.499 | 769.64 | 3.561 | 1.664E+05 | 1.664E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.11 | 114.70 | 3.1561 | 17.28 | 0.69 | 3.99% | 4.885 | 0.98 | 7.30 | 3.23 | 9.61 | 317 | 3.050 | 3.050 | 0.78 | 1.220 | 0.498 | 769.64 | 3.562 | 1.663E+05 | 1.663E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.15 | 114.79 | 3.1584 | 17.28 | 0.70 | 4.05% | 4.957 | 0.98 | 7.29 | 3.23 | 9.68 | 319 | 3.107 | 3.107 | 0.78 | 1.221 | 0.498 | 772.08 | 3.565 | 1.672E+05 | 1.672E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.24 | 115.18 | 3.1636 | 17.28 | 0.74 | 4.28% | 5.242 | 0.98 | 7.28 | 3.25 | 9.91 | 327 | 3.331 | 3.331 | 0.78 | 1.224 | 0.498 | 781.48 | 3.577 | 1.707E+05 | 1.707E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.29 | 114.87 | 3.1664 | 17.47 | 0.71 | 4.06% | 4.964 | 0.98 | 7.37 | 3.23 | 9.62 | 318 | 3.057 | 3.057 | 0.77 | 1.226 | 0.498 | 774.48 | 3.567 | 1.681E+05 | 1.681E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.35 | 114.47 | 3.1699 | 17.47 | 0.67 | 3.84% | 4.685 | 0.97 | 7.36 | 3.21 | 9.40 | 310 | 2.857 | 2.857 | 0.77 | 1.228 | 0.498 | 764.67 | 3.555 | 1.645E+05 | 1.645E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.42 | 114.52 | 3.1739 | 17.47 | 0.67 | 3.84% | 4.687 | 0.97 | 7.35 | 3.21 | 9.41 | 311 | 2.864 | 2.864 | 0.77 | 1.230 | 0.498 | 764.67 | 3.557 | 1.644E+05 | 1.644E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.50 | 112.86 | 3.1784 | 17.47 | 0.54 | 3.09% | 3.778 | 0.95 | 7.34 | 3.15 | 8.62 | 284 | 2.221 | 2.221 | 0.77 | 1.232 | 0.497 | 728.18 | 3.505 | 1.513E+05 | 1.513E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.57 | 113.48 | 3.1824 | 17.77 | 0.58 | 3.26% | 3.976 | 0.96 | 7.49 | 3.16 | 8.70 | 287 | 2.282 | 2.282 | 0.77 | 1.235 | 0.497 | 740.27 | 3.524 | 1.555E+05 | 1.555E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.61 | 114.56 | 3.1846 | 18.25 | 0.67 | 3.67% | 4.447 | 0.96 | 7.73 | 3.18 | 8.95 | 295 | 2.476 | 2.476 | 0.77 | 1.236 | 0.497 | 764.67 | 3.558 | 1.643E+05 | 1.643E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.68 | 115.54 | 3.1887 | 15.81 | 0.80 | 5.06% | 6.338 | 1.00 | 6.47 | 3.34 | 11.35 | 375 | 4.969 | 4.969 | 0.77 | 1.238 | 0.497 | 794.67 | 3.588 | 1.760E+05 | 1.760E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.74 | 116.92 | 3.1922 | 20.11 | 0.89 | 4.43% | 5.261 | 0.96 | 8.67 | 3.18 | 9.01 | 297 | 2.522 | 2.522 | 0.77 | 1.240 | 0.497 | 812.70 | 3.631 | 1.819E+05 | 1.819E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.83 | 115.29 | 3.1974 | 23.14 | 0.68 | 2.94% | 3.410 | 0.91 | 10.20 | 3.00 | 6.76 | 223 | 1.111 | 1.111 | 0.77 | 1.243 | 0.496 | 767.17 | 3.580 | 1.644E+05 | 1.644E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.87 | 116.81 | 3.1997 | 23.92 | 0.83 | 3.47% | 4.006 | 0.92 | 10.59 | 3.03 | 7.10 | 234 | 1.277 | 1.277 | 0.77 | 1.244 | 0.496 | 800.89 | 3.628 | 1.768E+05 | 1.768E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 49.96 | 119.04 | 3.2051 | 25.58 | 1.10 | 4.30% | 4.916 | 0.93 | 11.43 | 3.06 | 7.46 | 246 | 1.468 | 1.468 | 0.77 | 1.247 | 0.496 | 848.54 | 3.697 | 1.948E+05 | 1.948E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.03 | 119.95 | 3.2093 | 26.55 | 1.23 | 4.63% | 5.270 | 0.93 | 11.91 | 3.07 | 7.52 | 248 | 1.504 | 1.504 | 0.77 | 1.249 | 0.496 | 867.43 | 3.725 | 2.020E+05 | 2.020E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.09 | 120.42 | 3.2129 | 27.24 | 1.30 | 4.77% | 5.411 | 0.93 | 12.25 | 3.07 | 7.50 | 247 | 1.488 | 1.488 | 0.77 | 1.251 | 0.496 | 876.80 | 3.740 | 2.056E+05 | 2.056E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.15 | 120.38 | 3.2165 | 29.09 | 1.27 | 4.37% | 4.908 | 0.91 | 13.18 | 3.01 | 6.86 | 226 | 1.157 | 1.157 | 0.77 | 1.253 | 0.495 | 872.85 | 3.739 | 2.038E+05 | 2.038E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.23 | 120.04 | 3.2213 | 30.26 | 1.20 | 3.97% | 4.438 | 0.90 | 13.75 | 2.97 | 6.36 | 210 | 0.941 | 0.941 | 0.77 | 1.255 | 0.495 | 863.26 | 3.728 | 1.999E+05 | 1.999E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.28 | 120.01 | 3.2243 | 30.16 | 1.20 | 3.98% | 4.455 | 0.90 | 13.69 | 2.97 | 6.39 | 211 | 0.953 | 0.953 | 0.77 | 1.257 | 0.495 | 863.26 | 3.727 | 1.999E+05 | 1.999E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.33 | 120.06 | 3.2273 | 29.38 | 1.21 | 4.12% | 4.627 | 0.90 | 13.28 | 2.99 | 6.63 | 219 | 1.054 | 1.054 | 0.77 | 1.258 | 0.495 | 864.66 | 3.729 | 2.005E+05 | 2.005E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.41 | 120.00 | 3.2321 | 28.11 | 1.22 | 4.34% | 4.904 | 0.92 | 12.62 | 3.03 | 7.03 | 232 | 1.240 | 1.240 | 0.77 | 1.261 | 0.494 | 866.05 | 3.727 | 2.013E+05 | 2.013E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.46 | 120.41 | 3.2351 | 26.26 | 1.32 | 5.03% | 5.733 | 0.94 | 11.67 | 3.10 | 7.92 | 261 | 1.738 | 1.738 | 0.77 | 1.262 | 0.494 | 879.38 | 3.739 | 2.068E+05 | 2.068E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.53 | 121.11 | 3.2393 | 26.94 | 1.44 | 5.35% | 6.076 | 0.94 | 12.00 | 3.11 | 8.01 | 264 | 1.797 | 1.797 | 0.76 | 1.265 | 0.494 | 894.10 | 3.761 | 2.125E+05 | 2.125E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.60 | 121.83 | 3.2436 | 31.63 | 1.50 | 4.74% | 5.284 | 0.91 | 14.36 | 3.00 | 6.76 | 223 | 1.111 | 1.111 | 0.76 | 1.267 | 0.494 | 901.00 | 3.784 | 2.146E+05 | 2.146E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.68 | 123.19 | 3.2485 | 45.30 | 1.61 | 3.55% | 3.829 | 0.84 | 21.25 | 2.77 | 4.50 | 149 | 0.385 | 0.385 | 0.76 | 1.269 | 0.494 | 912.97 | 3.826 | 2.179E+05 | 2.179E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 50.73 | 124.19 | 3.2516 | 59.55 | 1.69 | 2.84% | 3.002 | 0.78 | 28.42 | 2.59 | 3.27 | 108 | 0.196 | 0.223 | 0.76 | 1.271 | 0.493 | 921.18 | 3.857 | 2.200E+05 | 2.200E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | | 0.46 | 0.63 | <= | 2.17 | 0.013 | 0.00 | 1.83 | 0.00 | 50.68 | 50.73 |
| 50.80 | 125.27 | 3.2560 | 72.63 | 1.84 | 2.53% | 2.652 | 0.75 | 34.98 | 2.48 | 2.67 | 110 | 0.202 | 0.214 | 0.76 | 1.273 | 0.493 | 935.56 | 3.890 | 2.250E+05 | 2.250E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | | 0.44 | 0.60 | <= | 2.14 | 0.017 | 0.00 | 1.81 | 0.00 | 50.73 | 50.80 |
| 50.86 | 126.17 | 3.2598 | 85.12 | 1.97 | 2.31% | 2.407 | 0.73 | 41.24 | 2.39 | 2.28 | 112 | 0.212 | 0.205 | 0.76 | 1.275 | 0.493 | 947.11 | 3.918 | 2.289E+05 | 2.289E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | | 0.42 | 0.58 | <= | 2.10 | 0.015 | 0.00 | 1.80 | 0.00 | 50.80 | 50.86 |
| 50.93 | 126.96 | 3.2643 | 95.86 | 2.11 | 2.20% | 2.279 | 0.71 | 46.60 | 2.33 | 2.06 | 116 | 0.225 | 0.194 | 0.76 | 1.277 | 0.493 | 958.72 | 3.943 | 2.331E+05 | 2.331E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | | 0.40 | 0.55 | <= | 2.05 | 0.017 | 0.00 | 1.78 | 0.00 | 50.86 | 50.93 |
| 50.99 | 127.43 | 3.2681 | 102.30 | 2.21 | 2.16% | 2.232 | 0.70 | 49.78 | 2.30 | 1.96 | 119 | 0.236 | 0.194 | 0.76 | 1.279 | 0.492 | 966.56 | 3.957 | 2.361E+05 | 2.361E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | | 0.40 | 0.55 | <= | 2.01 | 0.014 | 0.00 | 1.77 | 0.00 | 50.93 | 50.99 |
| 51.08 | 127.84 | 3.2738 | 112.07 | 2.26 | 2.02% | 2.077 | 0.68 | 54.61 | 2.25 | 1.80 | 121 | 0.244 | 0.323 | 0.76 | 1.282 | 0.492 | 970.34 | 3.970 | 2.372E+05 | 2.372E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | | 0.66 | 0.91 | <= | 0.79 | 0.009 | 0.00 | 1.75 | 0.00 | 50.99 | 51.08 |
| 51.13 | 128.02 | 3.2770 | 115.19 | 2.30 | 2.00% | 2.055 | 0.68 | 56.13 | 2.24 | 1.76 | 122 | 0.249 | 0.308 | 0.76 | 1.283 | 0.492 | 973.31 | 3.976 | 2.383E+05 | 2.383E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | | 0.63 | 0.87 | <= | 1.73 | 0.010 | 0.00 | 1.74 | 0.00 | 51.08 | 51.13 |
| 51.19 | 127.24 | 3.2809 | 118.80 | 2.05 | 1.73% | 1.775 | 0.66 | 57.88 | 2.18 | 1.62 | 117 | 0.229 | 0.284 | 0.76 | 1.285 | 0.492 | 953.84 | 3.952 | 2.302E+05 | 2.302E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | | 0.58 | 0.80 | <= | 1.24 | 0.009 | 0.00 | 1.73 | 0.00 | 51.13 | 51.19 |
| 51.26 | 127.45 | 3.2853 | 122.32 | 2.08 | 1.70% | 1.747 | 0.66 | 59.58 | 2.17 | 1.59 | 118 | 0.234 | 0.290 | 0.76 | 1.287 | 0.491 | 956.30 | 3.958 | 2.311E+05 | 2.311E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | | 0.60 | 0.82 | <= | 1.38 | 0.012 | 0.00 | 1.72 | 0.00 | 51.19 | 51.26 |
| 51.33 | 127.79 | 3.2898 | 126.12 | 2.16 | 1.71% | 1.759 | 0.66 | 61.41 | 2.16 | 1.57 | 121 | 0.244 | 0.281 | 0.76 | 1.289 | 0.491 | 962.69 | 3.969 | 2.335E+05 | 2.335E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | | 0.58 | 0.80 | <= | 1.98 | 0.013 | 0.00 | 1.71 | 0.00 | 51.26 | 51.33 |
| 51.38 | 127.80 | 3.2930 | 128.47 | 2.15 | 1.67% | 1.718 | 0.65 | 62.53 | 2.14 | 1.54 | 121 | 0.245 | 0.259 | 0.76 | 1.291 | 0.491 | 961.90 | 3.969 | 2.331E+05 | 2.331E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | | 0.53 | 0.73 | <= | 1.98 | 0.009 | 0.00 | 1.70 | 0.00 | 51.33 | 51.38 |
| 51.47 | 128.51 | 3.2988 | 132.37 | 2.35 | 1.78% | 1.821 | 0.65 | 64.38 | 2.15 | 1.56 | 126 | 0.266 | 0.266 | 0.76 | 1.294 | 0.491 | 976.95 | 3.991 | 2.391E+05 | 2.391E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.55 | 0.75 | <= | 1.92 | 0.019 | 0.00 | 1.69 | 0.00 | 51.38 | 51.47 |
| 51.52 | 128.74 | 3.3020 | 134.23 | 2.41 | 1.80% | 1.841 | 0.65 | 65.25 | 2.15 | 1.56 | 127 | 0.273 | 0.273 | 0.76 | 1.295 | 0.490 | 981.21 | 3.998 | 2.408E+05 | 2.408E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.56 | 0.77 | <= | 1.90 | 0.006 | 0.00 | 1.67 | 0.00 | 51.47 | 51.52 |
| 51.58 | 128.79 | 3.3058 | 127.59 | 2.47 | 1.94% | 1.987 | 0.67 | 61.88 | 2.19 | 1.65 | 127 | 0.272 | 0.272 | 0.76 | 1.297 | 0.490 | 985.37 | 4.000 | 2.428E+05 | 2.428E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.56 | 0.77 | <= | 1.90 | 0.007 | 0.00 | 1.66 | 0.00 | 51.52 | 51.58 |
| 51.64 | 129.04 | 3.3097 | 128.76 | 2.54 | 1.97% | 2.025 | 0.67 | 62.40 | 2.20 | 1.66 | 129 | 0.279 | 0.279 | 0.76 | 1.299 | 0.490 | 990.10 | 4.007 | 2.446E+05 | 2.446E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.58 | 0.79 | <= | 1.88 | 0.008 | 0.00 | 1.66 | 0.00 | 51.58 | 51.64 |
| 51.71 | 129.49 | 3.3142 | 142.52 | 2.62 | 1.84% | 1.882 | 0.65 | 69.16 | 2.14 | 1.53 | 133 | 0.300 | 0.300 | 0.76 | 1.301 | 0.490 | 995.35 | 4.021 | 2.464E+05 | 2.464E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.62 | 0.85 | <= | 1.18 | 0.005 | 0.00 | 1.65 | 0.00 | 51.64 | 51.71 |
| 51.78 | 129.96 | 3.3188 | 145.74 | 2.77 | 1.90% | 1.945 | 0.65 | 70.67 | 2.14 | 1.54 | 137 | 0.318 | 0.318 | 0.75 | 1.304 | 0.489 | 1004.76 | 4.036 | 2.501E+05 | 2.501E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | | 0.66 | 0.90 | <= | 0.67 | 0.006 | 0.00 | 1.64 | 0.00 | 51.71 | 51.78 |
| 51.84 | 130.29 | 3.3227 | 148.19 | 2.88 | 1.94% | 1.988 | 0.65 | 71.81 | 2.14 | 1.54 | 139 | 0.332 | 0.332 | 0.75 | 1.305 | 0.489 | 1011.35 | 4.046 | 2.528E+05 | 2.528E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | | 0.68 | 0.94 | <= | 0.77 | 0.003 | 0.00 | 1.64 | 0.00 | 51.78 | 51.84 |
| 51.94 | 130.59 | 3.3292 | 151.50 | 2.98 | 1.97% | 2.011 | 0.65 | 73.33 | 2.14 | 1.53 | 142 | 0.345 | 0.345 | 0.75 | 1.309 | 0.489 | 1017.12 | 4.056 | 2.551E+05 | 2.551E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | | 0.71 | 0.98 | <= | 0.87 | 0.006 | 0.00 | 1.63 | 0.00 | 51.84 | 51.94 |
| 51.98 | 130.53 | 3.3318 | 152.29 | 2.95 | 1.94% | 1.980 | 0.65 | 73.67 | 2.13 | 1.52 | 141 | 0.343 | 0.343 | 0.75 | 1.310 | 0.489 | 1015.41 | 4.054 | 2.543E+05 | 2.543E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | | 0.71 | 0.98 | <= | 0.86 | 0.002 | 0.00 | 1.63 | 0.00 | 51.94 | 51.98 |
| 52.06 | 129.69 | 3.3370 | 152.58 | 2.63 | 1.72% | 1.762 | 0.64 | 73.71 | 2.10 | 1.45 | 136 | 0.313 | 0.313 | 0.75 | 1.312 | 0.488 | 995.99 | 4.028 | 2.463E+05 | 2.463E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | | 0.65 | 0.89 | <= | 1.27 | 0.007 | 0.00 | 1.63 | 0.00 | 51.98 | 52.06 |
| 52.10 | 129.42 | 3.3396 | 151.70 | 2.54 | 1.67% | 1.712 | 0.63 | 73.22 | 2.09 | 1.43 | 134 | 0.304 | 0.304 | 0.75 | 1.314 | 0.488 | 990.10 | 4.019 | 2.439E+05 | 2.439E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | | 0.63 | 0.87 | <= | 1.21 | 0.003 | 0.00 | 1.62 | 0.00 | 52.06 | 52.10 |
| 52.20 | 128.82 | 3.3461 | 148.77 | 2.36 | 1.59% | 1.623 | 0.63 | 71.66 | 2.08 | 1.42 | 130 | 0.284 | 0.284 | 0.75 | 1.317 | 0.488 | 977.67 | 4.001 | 2.389E+05 | 2.389E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | | 0.59 | 0.81 | <= | 1.08 | 0.013 | 0.00 | 1.62 | 0.00 | 52.10 | 52.20 |
| 52.24 | 128.82 | 3.3486 | 145.74 | 2.37 | 1.63% | 1.664 | 0.64 | 70.12 | 2.09 | 1.44 | 129 | 0.280 | 0.280 | 0.75 | 1.318 | 0.488 | 978.38 | 4.001 | 2.393E+05 | 2.393E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | | 0.58 | 0.80 | <= | 1.87 | 0.005 | 0.00 | 1.60 | 0.00 | 52.20 | 52.24 |
| 52.32 | 128.53 | 3.3538 | 133.35 | 2.35 | 1.76% | 1.808 | 0.65 | 63.93 | 2.15 | 1.55 | 125 | 0.263 | 0.263 | 0.75 | 1.320 | 0.487 | 976.95 | 3.992 | 2.391E+05 | 2.391E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.55 | 0.75 | <= | 1.92 | 0.017 | 0.00 | 1.60 | 0.00 | 52.24 | 52.32 |
| 52.38 | 128.28 | 3.3576 | 124.95 | 2.32 | 1.86% | 1.908 | 0.67 | 59.74 | 2.19 | 1.64 | 123 | 0.253 | 0.276 | 0.75 | 1.322 | 0.487 | 974.77 | 3.984 | 2.385E+05 | 2.385E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.57 | 0.79 | <= | 1.95 | 0.012 | 0.00 | 1.58 | 0.00 | 52.32 | 52.38 |
| 52.45 | 128.60 | 3.3621 | 114.60 | 2.49 | 2.17% | 2.238 | 0.69 | 54.59 | 2.27 | 1.86 | 125 | 0.263 | 0.312 | 0.75 | 1.324 | 0.487 | 986.74 | 3.994 | 2.438E+05 | 2.438E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.65 | 0.89 | <= | 1.85 | 0.016 | 0.00 | 1.57 | 0.00 | 52.38 | 52.45 |
| 52.51 | 128.95 | 3.3660 | 102.79 | 2.71 | 2.64% | 2.726 | 0.72 | 48.74 | 2.37 | 2.21 | 130 | 0.284 | 0.214 | 0.75 | 1.326 | 0.487 | 1001.06 | 4.005 | 2.502E+05 | 2.502E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.44 | 0.61 | <= | 1.87 | 0.009 | 0.00 | 1.55 | 0.00 | 52.45 | 52.51 |
| 52.56 | 129.03 | 3.3692 | 95.67 | 2.81 | 2.94% | 3.044 | 0.74 | 45.22 | 2.43 | 2.45 | 132 | 0.296 | 0.237 | 0.75 | 1.328 | 0.486 | 1007.19 | 4.007 | 2.532E+05 | 2.532E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | | 0.49 | 0.68 | <= | 1.84 | 0.010 | 0.00 | 1.54 | 0.00 | 52.51 | 52.56 |
| 52.64 | 129.14 | 3.3744 | 87.37 | 2.94 | 3.36% | 3.500 | 0.76 | 41.09 | 2.51 | 2.82 | 136 | 0.315 | 0.277 | 0.75 | 1.330 | 0.486 | 1014.84 | 4.011 | 2.568E+05 | 2.568E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | | 0.58 | 0.79 | <= | 1.80 | 0.010 | 0.00 | 1.53 | 0.00 | 52.56 | 52.64 |
| 52.71 | 129.22 | 3.3789 | 77.51 | 3.09 | 3.99% | 4.168 | 0.79 | 36.23 | 2.61 | 3.38 | 141 | 0.341 | 0.341 | 0.75 | 1.333 | 0.486 | 1023.26 | 4.013 | 2.609E+05 | 2.609E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.52 | 0.00 | | |
| 52.78 | 129.69 | 3.3835 | 86.98 | 3.17 | 3.64% | 3.792 | 0.77 | 40.80 | 2.54 | 2.97 | 142 | 0.345 | 0.291 | 0.75 | 1.335 | 0.486 | 1027.58 | 4.028 | 2.622E+05 | 2.622E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.61 | 0.83 | <= | 1.74 | 0.004 | 0.00 | 1.52 | 0.00 | 52.71 | 52.78 |
| 52.83 | 129.38 | 3.3867 | 74.19 | 3.20 | 4.31% | 4.520 | 0.80 | 34.53 | 2.65 | 3.65 | 144 | 0.359 | 0.359 | 0.75 | 1.336 | 0.485 | 1029.17 | 4.018 | 2.636E+05 | 2.636E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.52 | 0.00 | | |
| 52.89 | 129.87 | 3.3906 | 86.59 | 3.25 | 3.75% | 3.906 | 0.77 | 40.54 | 2.55 | 3.04 | 144 | 0.356 | 0.300 | 0.75 | 1.338 | 0.485 | 1031.80 | 4.033 | 2.640E+05 | 2.640E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.63 | 0.86 | <= | 1.72 | 0.004 | 0.00 | 1.52 | 0.00 | 52.83 | 52.89 |
| 52.96 | 130.28 | 3.3951 | 101.82 | 3.26 | 3.20% | 3.312 | 0.74 | 47.90 | 2.44 | 2.49 | 142 | 0.348 | 0.231 | 0.75 | 1.340 | 0.485 | 1032.32 | 4.046 | 2.634E+05 | 2.634E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.48 | 0.66 | <= | 1.73 | 0.004 | 0.00 | 1.52 | 0.00 | 52.89 | 52.96 |
| 53.03 | 130.61 | 3.3997 | 123.59 | 3.20 | 2.59% | 2.662 | 0.70 | 58.42 | 2.31 | 1.97 | 141 | 0.340 | 0.340 | 0.74 | 1.343 | 0.485 | 1029.17 | 4.056 | 2.611E+05 | 2.611E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.71 | 0.98 | <= | 0.86 | 0.004 | 0.00 | 1.51 | 0.00 | 52.96 | 53.03 |
| 53.09 | 130.76 | 3.4036 | 142.33 | 3.11 | 2.19% | 2.239 | 0.67 | 67.47 | 2.20 | 1.67 | 141 | 0.342 | 0.342 | 0.74 | 1.344 | 0.484 | 1024.35 | 4.061 | 2.584E+05 | 2.584E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.71 | 0.98 | <= | 0.87 | 0.004 | 0.00 | 1.51 | 0.00 | 53.03 | 53.09 |
| 53.19 | 130.22 | 3.4101 | 153.75 | 2.82 | 1.83% | 1.876 | 0.64 | 72.89 | 2.12 | 1.49 | 138 | 0.326 | 0.326 | 0.74 | 1.348 | 0.484 | 1007.79 | 4.044 | 2.511E+05 | 2.511E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.68 | 0.94 | <= | 0.77 | 0.009 | 0.00 | 1.50 | 0.00 | 53.09 | 53.19 |
| 53.23 | 128.91 | 3.4127 | 157.26 | 2.34 | 1.49% | 1.521 | 0.62 | 74.54 | 2.04 | 1.36 | 131 | 0.291 | 0.291 | 0.74 | 1.349 | 0.484 | 976.23 | 4.003 | 2.381E+05 | 2.381E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.61 | 0.84 | <= | 1.15 | 0.006 | 0.00 | 1.49 | 0.00 | 53.19 | 53.23 |
| 53.29 | 126.12 | 3.4165 | 160.39 | 1.59 | 0.99% | 1.013 | 0.58 | 75.98 | 1.91 | 1.20 | 121 | 0.246 | 0.246 | 0.74 | 1.351 | 0.484 | 910.86 | 3.917 | 2.118E+05 | 2.118E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.51 | 0.71 | <= | 1.57 | 0.011 | 0.00 | 1.49 | 0.00 | 53.23 | 53.29 |
| 53.36 | 126.23 | 3.4209 | 157.75 | 1.62 | 1.03% | 1.050 | 0.59 | 74.62 | 1.93 | 1.21 | 121 | 0.243 | 0.243 | 0.74 | 1.353 | 0.483 | 914.02 | 3.920 | 2.131E+05 | 2.131E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.51 | 0.70 | <= | 1.98 | 0.014 | 0.00 | 1.48 | 0.00 | 53.29 | 53.36 |
| 53.45 | 126.92 | 3.4266 | 147.50 | 1.82 | 1.23% | 1.263 | 0.61 | 69.57 | 2.01 | 1.31 | 119 | 0.237 | 0.237 | 0.74 | 1.356 | 0.483 | 933.71 | 3.942 | 2.212E+05 | 2.212E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.50 | 0.68 | <= | 2.00 | 0.017 | 0.00 | 1.46 | 0.00 | 53.36 | 53.45 |
| 53.49 | 127.63 | 3.4292 | 140.08 | 2.04 | 1.46% | 1.493 | 0.63 | 65.94 | 2.08 | 1.42 | 120 | 0.242 | 0.242 | 0.74 | 1.357 | 0.483 | 953.02 | 3.964 | 2.291E+05 | 2.291E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.51 | 0.70 | <= | 1.99 | 0.008 | 0.00 | 1.45 | 0.00 | 53.45 | 53.49 |
| 53.56 | 128.31 | 3.4337 | 121.93 | 2.35 | 1.93% | 1.983 | 0.67 | 57.12 | 2.22 | 1.71 | 122 | 0.250 | 0.282 | 0.74 | 1.359 | 0.483 | 976.95 | 3.985 | 2.395E+05 | 2.395E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.59 | 0.81 | <= | 1.25 | 0.010 | 0.00 | 1.44 | 0.00 | 53.49 | 53.56 |
| 53.63 | 128.60 | 3.4382 | 102.30 | 2.59 | 2.53% | 2.620 | 0.72 | 47.60 | 2.37 | 2.18 | 126 | 0.267 | 0.205 | 0.74 | 1.361 | 0.482 | 993.40 | 3.994 | 2.471E+05 | 2.471E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.43 | 0.59 | <= | 1.91 | 0.015 | 0.00 | 1.43 | 0.00 | 53.56 | 53.63 |
| 53.68 | 128.45 | 3.4414 | 95.67 | 2.59 | 2.71% | 2.808 | 0.73 | 44.37 | 2.41 | 2.36 | 126 | 0.267 | 0.217 | 0.74 | 1.363 | 0.482 | 993.40 | 3.989 | 2.474E+05 | 2.474E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.46 | 0.63 | <= | 1.91 | 0.011 | 0.00 | 1.41 | 0.00 | 53.63 | 53.68 |
| 53.77 | 127.27 | 3.4471 | 74.09 | 2.40 | 3.24% | 3.397 | 0.78 | 33.94 | 2.56 | 3.11 | 123 | 0.254 | 0.260 | 0.74 | 1.366 | 0.482 | 980.51 | 3.952 | 2.432E+05 | 2.432E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.54 | 0.75 | <= | 1.95 | 0.020 | 0.00 | 1.40 | 0.00 | 53.68 | 53.77 |
| 53.81 | 126.99 | 3.4497 | 74.09 | 2.31 | 3.12% | 3.270 | 0.77 | 33.92 | 2.55 | 3.04 | 121 | 0.244 | 0.249 | 0.74 | 1.367 | 0.482 | 974.04 | 3.944 | 2.406E+05 | 2.406E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.52 | 0.72 | <= | 1.98 | 0.009 | 0.00 | 1.38 | 0.00 | 53.77 | 53.81 |
| 53.89 | 126.19 | 3.4547 | 74.09 | 2.07 | 2.79% | 2.931 | 0.76 | 33.87 | 2.52 | 2.86 | 114 | 0.218 | 0.229 | 0.74 | 1.369 | 0.481 | 955.49 | 3.919 | 2.330E+05 | 2.330E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.48 | 0.66 | <= | 2.07 | 0.019 | 0.00 | 1.37 | 0.00 | 53.81 | 53.89 |
| 53.95 | 125.91 | 3.4585 | 80.63 | 1.94 | 2.41% | 2.514 | 0.74 | 36.97 | 2.44 | 2.48 | 110 | 0.204 | 0.202 | 0.74 | 1.371 | 0.481 | 944.51 | 3.910 | 2.281E+05 | 2.281E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.42 | 0.58 | <= | 2.14 | 0.015 | 0.00 | 1.35 | 0.00 | 53.89 | 53.95 |
| 54.01 | 126.22 | 3.4623 | 97.23 | 1.90 | 1.95% | 2.026 | 0.70 | 44.88 | 2.30 | 1.96 | 109 | 0.200 | 0.178 | 0.74 | 1.373 | 0.481 | 940.99 | 3.920 | 2.259E+05 | 2.259E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.37 | 0.52 | <= | 2.16 | 0.015 | 0.00 | 1.34 | 0.00 | 53.95 | 54.01 |
| 54.07 | 126.33 | 3.4661 | 105.23 | 1.88 | 1.79% | 1.847 | 0.68 | 48.67 | 2.25 | 1.79 | 109 | 0.200 | 0.311 | 0.74 | 1.375 | 0.481 | 939.20 | 3.923 | 2.248E+05 | 2.248E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.65 | 0.90 | <= | 0.82 | 0.006 | 0.00 | 1.32 | 0.00 | 54.01 | 54.07 |
| 54.17 | 125.97 | 3.4724 | 108.16 | 1.77 | 1.64% | 1.691 | 0.67 | 49.99 | 2.21 | 1.69 | 107 | 0.193 | 0.300 | 0.74 | 1.378 | 0.480 | 929.00 | 3.912 | 2.206E+05 | 2.206E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.63 | 0.87 | <= | 1.95 | 0.023 | 0.00 | 1.32 | 0.00 | 54.07 | 54.17 |
| 54.21 | 125.97 | 3.4749 | 105.04 | 1.79 | 1.70% | 1.762 | 0.68 | 48.47 | 2.23 | 1.76 | 107 | 0.193 | 0.300 | 0.73 | 1.379 | 0.480 | 930.90 | 3.912 | 2.215E+05 | 2.215E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.63 | 0.87 | <= | 1.95 | 0.009 | 0.00 | 1.29 | 0.00 | 54.17 | 54.21 |
| 54.31 | 126.02 | 3.4812 | 84.34 | 1.94 | 2.30% | 2.399 | 0.73 | 38.53 | 2.41 | 2.35 | 110 | 0.202 | 0.201 | 0.73 | 1.382 | 0.480 | 944.51 | 3.914 | 2.279E+05 | 2.279E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.42 | 0.58 | <= | 2.14 | 0.025 | 0.00 | 1.29 | 0.00 | 54.21 | 54.31 |
| 54.34 | 125.89 | 3.4831 | 77.80 | 1.96 | 2.52% | 2.637 | 0.75 | 35.39 | 2.47 | 2.62 | 110 | 0.205 | 0.211 | 0.73 | 1.383 | 0.480 | 946.25 | 3.910 | 2.290E+05 | 2.290E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.44 | 0.61 | <= | 2.13 | 0.007 | 0.00 | 1.26 | 0.00 | 54.31 | 54.34 |
| 54.42 | 125.13 | 3.4881 | 60.13 | 1.92 | 3.19% | 3.390 | 0.80 | 26.94 | 2.64 | 3.59 | 118 | 0.235 | 0.235 | 0.73 | 1.386 | 0.479 | 942.76 | 3.886 | 2.287E+05 | 2.287E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 54.48 | 124.42 | 3.4918 | 51.35 | 1.84 | 3.58% | 3.845 | 0.83 | 22.75 | 2.74 | 4.29 | 142 | 0.345 | 0.345 | 0.73 | 1.388 | 0.479 | 935.56 | 3.864 | 2.265E+05 | 2.265E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 54.53 | 123.61 | 3.4949 | 42.76 | 1.75 | 4.09% | 4.457 | 0.86 | 18.65 | 2.85 | 5.27 | 174 | 0.569 | 0.569 | 0.73 | 1.389 | 0.479 | 927.08 | 3.839 | 2.239E+05 | 2.239E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 54.62 | 122.48 | 3.5004 | 34.95 | 1.60 | 4.58% | 5.088 | 0.90 | 14.92 | 2.97 | 6.46 | 213 | 0.981 | 0.981 | 0.73 | 1.392 | 0.478 | 911.92 | 3.804 | 2.186E+05 | 2.186E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 54.67 | 121.81 | 3.5035 | 31.24 | 1.52 | 4.87% | 5.480 | 0.92 | 13.15 | 3.04 | 7.22 | 238 | 1.337 | 1.337 | 0.73 | 1.394 | 0.478 | 903.24 | 3.783 | 2.157E+05 | 2.157E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 54.75 | 120.65 | 3.5083 | 29.48 | 1.32 | 4.48% | 5.082 | 0.92 | 12.30 | 3.04 | 7.24 | 239 | 1.346 | 1.346 | 0.73 | 1.396 | 0.478 | 879.38 | 3.747 | 2.064E+05 | 2.064E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 54.80 | 119.93 | 3.5113 | 28.99 | 1.20 | 4.14% | 4.710 | 0.92 | 12.06 | 3.03 | 7.06 | 233 | 1.255 | 1.255 | 0.73 | 1.398 | 0.478 | 863.26 | 3.725 | 2.001E+05 | 2.001E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 54.88 | 118.85 | 3.5160 | 27.63 | 1.06 | 3.84% | 4.396 | 0.92 | 11.40 | 3.03 | 7.06 | 233 | 1.259 | 1.259 | 0.73 | 1.400 | 0.478 | 842.27 | 3.691 | 1.922E+05 | 1.922E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 54.93 | 118.41 | 3.5190 | 25.48 | 1.02 | 4.00% | 4.645 | 0.93 | 10.37 | 3.08 | 7.67 | 253 | 1.586 | 1.586 | 0.73 | 1.402 | 0.477 | 835.76 | 3.677 | 1.899E+05 | 1.899E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 55.02 | 118.23 | 3.5243 | 23.62 | 1.02 | 4.32% | 5.076 | 0.95 | 9.48 | 3.14 | 8.41 | 278 | 2.067 | 2.067 | 0.73 | 1.405 | 0.477 | 835.76 | 3.672 | 1.902E+05 | 1.902E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 55.07 | 118.40 | 3.5273 | 23.23 | 1.05 | 4.52% | 5.329 | 0.96 | 9.29 | 3.16 | 8.69 | 287 | 2.276 | 2.276 | 0.73 | 1.406 | 0.477 | 840.67 | 3.677 | 1.922E+05 | 1.922E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 55.15 | 119.16 | 3.5320 | 24.31 | 1.15 | 4.73% | 5.535 | 0.95 | 9.79 | 3.15 | 8.59 | 283 | 2.195 | 2.195 | 0.73 | 1.409 | 0.477 | 856.06 | 3.701 | 1.980E+05 | 1.980E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 55.20 | 120.10 | 3.5350 | 28.21 | 1.24 | 4.40% | 5.025 | 0.93 | 11.61 | 3.06 | 7.44 | 246 | 1.457 | 1.457 | 0.73 | 1.410 | 0.476 | 868.80 | 3.730 | 2.024E+05 | 2.024E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 55.27 | 121.19 | 3.5393 | 34.07 | 1.36 | 3.99% | 4.455 | 0.89 | 14.35 | 2.95 | 6.18 | 204 | 0.869 | 0.869 | 0.73 | 1.412 | 0.476 | 884.43 | 3.764 | 2.078E+05 | 2.078E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 55.34 | 119.75 | 3.5435 | 38.46 | 1.07 | 2.78% | 3.064 | 0.84 | 16.40 | 2.79 | 4.70 | 155 | 0.426 | 0.426 | 0.73 | 1.415 | 0.476 | 843.86 | 3.719 | 1.915E+05 | 1.915E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 55.39 | 119.19 | 3.5465 | 43.83 | 0.95 | 2.17% | 2.358 | 0.81 | 18.91 | 2.66 | 3.73 | 123 | 0.253 | 0.253 | 0.73 | 1.416 | 0.476 | 823.74 | 3.702 | 1.833E+05 | 1.833E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 55.47 | 120.56 | 3.5513 | 49.49 | 1.10 | 2.22% | 2.394 | 0.79 | 21.54 | 2.62 | 3.44 | 113 | 0.216 | 0.216 | 0.72 | 1.419 | 0.475 | 848.54 | 3.744 | 1.923E+05 | 1.923E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.25 | 0.00 | | |
| 55.51 | 121.20 | 3.5537 | 52.71 | 1.17 | 2.22% | 2.380 | 0.79 | 23.04 | 2.59 | 3.27 | 108 | 0.197 | 0.197 | 0.72 | 1.420 | 0.475 | 858.97 | 3.764 | 1.960E+05 | 1.960E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.42 | 0.58 | <= | 2.17 | 0.010 | 0.00 | 1.25 | 0.00 | 55.47 | 55.51 |
| 55.59 | 122.07 | 3.5586 | 56.03 | 1.29 | 2.30% | 2.458 | 0.78 | 24.56 | 2.58 | 3.19 | 105 | 0.188 | 0.226 | 0.72 | 1.422 | 0.475 | 875.49 | 3.791 | 2.022E+05 | 2.022E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.48 | 0.66 | <= | 2.21 | 0.021 | 0.00 | 1.24 | 0.00 | 55.51 | 55.59 |
| 55.65 | 122.50 | 3.5623 | 57.60 | 1.36 | 2.36% | 2.517 | 0.78 | 25.28 | 2.57 | 3.17 | 104 | 0.186 | 0.219 | 0.72 | 1.424 | 0.475 | 884.43 | 3.804 | 2.056E+05 | 2.056E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.47 | 0.64 | <= | 2.23 | 0.016 | 0.00 | 1.22 | 0.00 | 55.59 | 55.65 |
| 55.72 | 123.15 | 3.5666 | 60.33 | 1.46 | 2.42% | 2.572 | 0.78 | 26.52 | 2.56 | 3.10 | 102 | 0.180 | 0.208 | 0.72 | 1.426 | 0.474 | 896.43 | 3.825 | 2.101E+05 | 2.101E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.44 | 0.61 | <= | 2.26 | 0.019 | 0.00 | 1.21 | 0.00 | 55.65 | 55.72 |
| 55.79 | 123.87 | 3.5709 | 62.38 | 1.60 | 2.56% | 2.721 | 0.78 | 27.45 | 2.57 | 3.13 | 103 | 0.182 | 0.207 | 0.72 | 1.429 | 0.474 | 911.92 | 3.847 | 2.162E+05 | 2.162E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.44 | 0.61 | <= | 2.25 | 0.019 | 0.00 | 1.19 | 0.00 | 55.72 | 55.79 |
| 55.85 | 124.36 | 3.5746 | 69.70 | 1.65 | 2.37% | 2.495 | 0.76 | 30.84 | 2.50 | 2.76 | 101 | 0.177 | 0.197 | 0.72 | 1.431 | 0.474 | 917.13 | 3.862 | 2.178E+05 | 2.178E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.42 | 0.58 | <= | 2.28 | 0.016 | 0.00 | 1.17 | 0.00 | 55.79 | 55.85 |
| 55.93 | 124.79 | 3.5796 | 80.83 | 1.66 | 2.05% | 2.149 | 0.73 | 35.99 | 2.40 | 2.30 | 101 | 0.176 | 0.182 | 0.72 | 1.433 | 0.474 | 918.15 | 3.875 | 2.175E+05 | 2.175E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.39 | 0.54 | <= | 2.29 | 0.022 | 0.00 | 1.15 | 0.00 | 55.85 | 55.93 |
| 55.98 | 125.29 | 3.5828 | 88.44 | 1.73 | 1.96% | 2.039 | 0.71 | 39.50 | 2.35 | 2.12 | 103 | 0.181 | 0.177 | 0.72 | 1.435 | 0.473 | 925.13 | 3.891 | 2.200E+05 | 2.200E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.38 | 0.52 | <= | 2.25 | 0.013 | 0.00 | 1.13 | 0.00 | 55.93 | 55.98 |
| 56.06 | 126.15 | 3.5878 | 97.91 | 1.88 | 1.92% | 1.993 | 0.70 | 43.86 | 2.30 | 1.96 | 107 | 0.195 | 0.177 | 0.72 | 1.437 | 0.473 | 939.20 | 3.918 | 2.252E+05 | 2.252E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.38 | 0.52 | <= | 2.18 | 0.021 | 0.00 | 1.12 | 0.00 | 55.98 | 56.06 |
| 56.11 | 126.75 | 3.5910 | 107.19 | 1.98 | 1.85% | 1.911 | 0.69 | 48.13 | 2.26 | 1.82 | 110 | 0.205 | 0.172 | 0.72 | 1.439 | 0.473 | 947.97 | 3.936 | 2.283E+05 | 2.283E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.37 | 0.51 | <= | 2.13 | 0.013 | 0.00 | 1.10 | 0.00 | 56.06 | 56.11 |
| 56.20 | 127.36 | 3.5967 | 123.29 | 2.05 | 1.66% | 1.713 | 0.66 | 55.54 | 2.18 | 1.61 | 114 | 0.219 | 0.281 | 0.72 | 1.441 | 0.472 | 953.84 | 3.955 | 2.300E+05 | 2.300E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.60 | 0.83 | <= | 1.49 | 0.016 | 0.00 | 1.08 | 0.00 | 56.11 | 56.20 |
| 56.25 | 127.46 | 3.5999 | 128.37 | 2.05 | 1.60% | 1.643 | 0.65 | 57.85 | 2.15 | 1.55 | 115 | 0.223 | 0.268 | 0.72 | 1.443 | 0.472 | 953.84 | 3.958 | 2.298E+05 | 2.298E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.57 | 0.79 | <= | 2.05 | 0.012 | 0.00 | 1.07 | 0.00 | 56.20 | 56.25 |
| 56.31 | 126.32 | 3.6037 | 134.71 | 1.73 | 1.28% | 1.320 | 0.63 | 60.73 | 2.06 | 1.39 | 111 | 0.207 | 0.249 | 0.72 | 1.445 | 0.472 | 925.13 | 3.923 | 2.182E+05 | 2.182E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.53 | 0.73 | <= | 2.12 | 0.015 | 0.00 | 1.06 | 0.00 | 56.25 | 56.31 |
| 56.38 | 125.39 | 3.6081 | 138.23 | 1.51 | 1.09% | 1.122 | 0.61 | 62.30 | 2.00 | 1.31 | 108 | 0.198 | 0.255 | 0.72 | 1.447 | 0.472 | 902.13 | 3.894 | 2.090E+05 | 2.090E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.55 | 0.75 | <= | 2.00 | 0.017 | 0.00 | 1.04 | 0.00 | 56.31 | 56.38 |
| 56.47 | 124.66 | 3.6137 | 140.96 | 1.36 | 0.96% | 0.990 | 0.60 | 63.47 | 1.96 | 1.25 | 107 | 0.193 | 0.250 | 0.72 | 1.450 | 0.471 | 884.43 | 3.871 | 2.020E+05 | 2.020E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | | 0.54 | 0.74 | <= | 1.98 | 0.021 | 0.00 | 1.02 | 0.00 | 56.38 | 56.47 |
| 56.50 | 124.91 | 3.6156 | 140.96 | 1.40 | 0.99% | 1.019 | 0.60 | 63.45 | 1.97 | 1.26 | 107 | 0.195 | 0.253 | 0.72 | 1.451 | 0.471 | 889.33 | 3.879 | 2.039E+05 | 2.039E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | | 0.54 | 0.75 | <= | 1.99 | 0.007 | 0.00 | 1.00 | 0.00 | 56.47 | 56.50 |
| 56.60 | 126.34 | 3.6219 | 138.91 | 1.71 | 1.23% | 1.264 | 0.62 | 62.40 | 2.04 | 1.36 | 112 | 0.210 | 0.235 | 0.72 | 1.454 | 0.471 | 923.17 | 3.924 | 2.172E+05 | 2.172E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | | 0.51 | 0.70 | <= | 2.11 | 0.025 | 0.00 | 0.99 | 0.00 | 56.50 | 56.60 |
| 56.65 | 127.05 | 3.6250 | 132.66 | 1.92 | 1.45% | 1.488 | 0.64 | 59.47 | 2.11 | 1.47 | 114 | 0.217 | 0.243 | 0.72 | 1.455 | 0.471 | 942.76 | 3.946 | 2.253E+05 | 2.253E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | | 0.52 | 0.72 | <= | 2.08 | 0.012 | 0.00 | 0.97 | 0.00 | 56.60 | 56.65 |
| 56.70 | 127.63 | 3.6282 | 128.66 | 2.10 | 1.63% | 1.680 | 0.65 | 57.59 | 2.16 | 1.56 | 116 | 0.226 | 0.254 | 0.71 | 1.457 | 0.470 | 957.92 | 3.964 | 2.315E+05 | 2.315E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | | 0.54 | 0.75 | <= | 2.04 | 0.012 | 0.00 | 0.96 | 0.00 | 56.65 | 56.70 |
| 56.78 | 129.46 | 3.6334 | 118.22 | 2.77 | 2.34% | 2.417 | 0.70 | 52.71 | 2.30 | 1.95 | 129 | 0.278 | 0.172 | 0.71 | 1.460 | 0.470 | 1004.76 | 4.020 | 2.511E+05 | 2.511E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | | 0.37 | 0.51 | <= | 1.88 | 0.013 | 0.00 | 0.95 | 0.00 | 56.70 | 56.78 |
| 56.83 | 130.08 | 3.6367 | 115.58 | 3.04 | 2.63% | 2.716 | 0.71 | 51.45 | 2.35 | 2.11 | 134 | 0.306 | 0.173 | 0.71 | 1.461 | 0.470 | 1020.50 | 4.040 | 2.578E+05 | 2.578E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | | 0.37 | 0.51 | <= | 1.82 | 0.004 | 0.00 | 0.93 | 0.00 | 56.78 | 56.83 |
| 56.91 | 129.98 | 3.6419 | 105.62 | 3.09 | 2.93% | 3.030 | 0.73 | 46.82 | 2.41 | 2.37 | 135 | 0.311 | 0.210 | 0.71 | 1.464 | 0.470 | 1023.26 | 4.037 | 2.594E+05 | 2.594E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | | 0.45 | 0.62 | <= | 1.81 | 0.007 | 0.00 | 0.93 | 0.00 | 56.83 | 56.91 |
| 56.97 | 129.67 | 3.6458 | 95.08 | 3.07 | 3.23% | 3.358 | 0.75 | 41.94 | 2.48 | 2.69 | 136 | 0.312 | 0.252 | 0.71 | 1.465 | 0.469 | 1022.16 | 4.027 | 2.594E+05 | 2.594E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 0.54 | 0.75 | <= | 1.80 | 0.008 | 0.00 | 0.92 | 0.00 | 56.91 | 56.97 |
| 57.05 | 129.47 | 3.6509 | 88.44 | 3.06 | 3.46% | 3.609 | 0.77 | 38.84 | 2.53 | 2.95 | 136 | 0.313 | 0.266 | 0.71 | 1.468 | 0.469 | 1021.61 | 4.021 | 2.596E+05 | 2.596E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 0.57 | 0.79 | <= | 1.80 | 0.012 | 0.00 | 0.91 | 0.00 | 56.97 | 57.05 |
| 57.10 | 129.83 | 3.6542 | 94.40 | 3.14 | 3.33% | 3.460 | 0.76 | 41.54 | 2.50 | 2.76 | 137 | 0.320 | 0.259 | 0.71 | 1.470 | 0.469 | 1025.97 | 4.032 | 2.611E+05 | 2.611E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 0.56 | 0.77 | <= | 1.79 | 0.009 | 0.00 | 0.90 | 0.00 | 57.05 | 57.10 |
| 57.18 | 131.00 | 3.6594 | 120.56 | 3.40 | 2.82% | 2.908 | 0.72 | 53.44 | 2.36 | 2.15 | 142 | 0.345 | 0.345 | 0.71 | 1.472 | 0.468 | 1039.43 | 4.068 | 2.656E+05 | 2.656E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 0.74 | 1.02 | <= | 0.49 | 0.005 | 0.00 | 0.89 | 0.00 | 57.10 | 57.18 |
| 57.22 | 131.73 | 3.6621 | 143.99 | 3.54 | 2.46% | 2.523 | 0.68 | 64.11 | 2.25 | 1.80 | 146 | 0.370 | 0.370 | 0.71 | 1.473 | 0.468 | 1046.26 | 4.091 | 2.676E+05 | 2.676E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 0.80 | 1.10 | <= | 0.62 | 0.002 | 0.00 | 0.89 | 0.00 | 57.18 | 57.22 |
| 57.29 | 132.56 | 3.6667 | 193.97 | 3.59 | 1.85% | 1.886 | 0.62 | 86.85 | 2.06 | 1.38 | 158 | 0.450 | 0.450 | 0.71 | 1.475 | 0.468 | 1048.63 | 4.117 | 2.671E+05 | 2.671E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 0.97 | 1.34 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 57.36 | 132.71 | 3.6713 | 240.34 | 3.41 | 1.42% | 1.441 | 0.58 | 107.89 | 1.89 | 1.18 | 175 | 0.580 | 0.580 | 0.71 | 1.478 | 0.468 | 1039.93 | 4.121 | 2.624E+05 | 2.624E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 1.25 | 1.73 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 57.41 | 132.52 | 3.6747 | 272.26 | 3.19 | 1.17% | 1.188 | 0.54 | 122.34 | 1.79 | 1.10 | 189 | 0.707 | 0.707 | 0.71 | 1.479 | 0.467 | 1028.64 | 4.116 | 2.571E+05 | 2.571E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 1.53 | 2.10 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 57.48 | 131.78 | 3.6793 | 296.76 | 2.80 | 0.94% | 0.955 | 0.51 | 133.35 | 1.69 | 1.03 | 197 | 0.796 | 0.796 | 0.71 | 1.481 | 0.467 | 1006.59 | 4.093 | 2.476E+05 | 2.476E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 1.72 | 2.37 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 57.58 | 129.58 | 3.6857 | 323.12 | 2.02 | 0.63% | 0.632 | 0.50 | 145.11 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.484 | 0.467 | 951.35 | 4.024 | 2.249E+05 | 2.249E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 1.78 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 57.67 | 129.51 | 3.6916 | 335.71 | 1.97 | 0.59% | 0.593 | 0.50 | 150.63 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.487 | 0.466 | 947.11 | 4.022 | 2.230E+05 | 2.230E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 57.70 | 129.53 | 3.6935 | 340.79 | 1.97 | 0.58% | 0.584 | 0.50 | 152.86 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.488 | 0.466 | 947.11 | 4.023 | 2.230E+05 | 2.230E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 57.77 | 129.56 | 3.6981 | 347.82 | 1.96 | 0.56% | 0.570 | 0.50 | 155.88 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.490 | 0.466 | 946.25 | 4.024 | 2.225E+05 | 2.225E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 57.81 | 129.59 | 3.7006 | 347.23 | 1.97 | 0.57% | 0.573 | 0.50 | 155.52 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.492 | 0.466 | 947.11 | 4.025 | 2.229E+05 | 2.229E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 57.90 | 129.81 | 3.7065 | 346.64 | 2.03 | 0.59% | 0.592 | 0.50 | 155.03 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.494 | 0.465 | 952.19 | 4.031 | 2.249E+05 | 2.249E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 57.95 | 130.25 | 3.7097 | 350.26 | 2.15 | 0.61% | 0.620 | 0.50 | 156.55 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.496 | 0.465 | 961.90 | 4.045 | 2.287E+05 | 2.287E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.02 | 131.03 | 3.7143 | 353.97 | 2.39 | 0.68% | 0.682 | 0.50 | 158.05 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.498 | 0.465 | 979.80 | 4.069 | 2.359E+05 | 2.359E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.79 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.07 | 131.55 | 3.7176 | 354.45 | 2.56 | 0.72% | 0.730 | 0.50 | 158.14 | 1.55 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.500 | 0.465 | 991.43 | 4.085 | 2.406E+05 | 2.406E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.79 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.14 | 132.04 | 3.7222 | 352.60 | 2.74 | 0.78% | 0.785 | 0.50 | 157.13 | 1.57 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.502 | 0.464 | 1002.92 | 4.101 | 2.453E+05 | 2.453E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 1.79 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.20 | 132.33 | 3.7262 | 347.03 | 2.87 | 0.83% | 0.836 | 0.50 | 154.48 | 1.60 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.504 | 0.464 | 1010.76 | 4.110 | 2.486E+05 | 2.486E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 1.79 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.27 | 132.51 | 3.7308 | 341.08 | 2.95 | 0.86% | 0.874 | 0.50 | 151.63 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.506 | 0.464 | 1015.41 | 4.115 | 2.505E+05 | 2.505E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 1.80 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.35 | 132.55 | 3.7361 | 331.03 | 3.00 | 0.91% | 0.917 | 0.50 | 146.92 | 1.64 | 1.00 | 199 | 0.816 | 0.816 | 0.70 | 1.509 | 0.463 | 1018.26 | 4.116 | 2.519E+05 | 2.519E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.40 | 132.51 | 3.7395 | 323.90 | 3.01 | 0.93% | 0.940 | 0.50 | 143.61 | 1.66 | 1.01 | 202 | 0.842 | 0.842 | 0.70 | 1.510 | 0.463 | 1018.82 | 4.115 | 2.522E+05 | 2.522E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.49 | 132.42 | 3.7454 | 319.12 | 2.98 | 0.93% | 0.945 | 0.51 | 141.26 | 1.66 | 1.01 | 203 | 0.853 | 0.853 | 0.70 | 1.513 | 0.463 | 1017.12 | 4.112 | 2.516E+05 | 2.516E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.54 | 132.42 | 3.7487 | 324.00 | 2.97 | 0.92% | 0.927 | 0.50 | 143.34 | 1.65 | 1.00 | 201 | 0.835 | 0.835 | 0.70 | 1.514 | 0.463 | 1016.56 | 4.112 | 2.513E+05 | 2.513E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.82 | 2.51 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.62 | 132.40 | 3.7540 | 322.14 | 2.97 | 0.92% | 0.933 | 0.50 | 142.32 | 1.66 | 1.01 | 202 | 0.841 | 0.841 | 0.70 | 1.517 | 0.462 | 1016.56 | 4.112 | 2.513E+05 | 2.513E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.67 | 132.46 | 3.7573 | 324.09 | 2.98 | 0.92% | 0.930 | 0.50 | 143.08 | 1.65 | 1.01 | 201 | 0.837 | 0.837 | 0.70 | 1.519 | 0.462 | 1017.12 | 4.114 | 2.515E+05 | 2.515E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 1.83 | 2.52 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.76 | 132.46 | 3.7633 | 325.17 | 2.98 | 0.92% | 0.927 | 0.50 | 143.36 | 1.65 | 1.00 | 201 | 0.834 | 0.834 | 0.70 | 1.521 | 0.462 | 1017.12 | 4.114 | 2.515E+05 | 2.515E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 1.83 | 2.51 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.81 | 132.38 | 3.7666 | 325.95 | 2.95 | 0.91% | 0.916 | 0.50 | 143.59 | 1.65 | 1.00 | 200 | 0.826 | 0.826 | 0.70 | 1.523 | 0.461 | 1015.41 | 4.111 | 2.508E+05 | 2.508E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 1.81 | 2.49 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.89 | 132.41 | 3.7719 | 326.24 | 2.96 | 0.91% | 0.918 | 0.50 | 143.54 | 1.65 | 1.00 | 200 | 0.827 | 0.827 | 0.70 | 1.525 | 0.461 | 1015.99 | 4.112 | 2.510E+05 | 2.510E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 1.81 | 2.50 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 58.94 | 132.35 | 3.7752 | 325.17 | 2.94 | 0.90% | 0.915 | 0.50 | 142.95 | 1.65 | 1.00 | 200 | 0.827 | 0.827 | 0.70 | 1.527 | 0.461 | 1014.84 | 4.110 | 2.506E+05 | 2.506E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 1.81 | 2.50 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

TEST LOCATION: **CPT-3**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2

Discrete Column Spacing (ft): 8.0 — Unit Tributary Area, A ($ft^2$): 45.83 — Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 — Magnitude: 6.62 — Magnitude Scaling Factor: 1.38 — Discrete Coumn Dia. (ft): 3.0 — Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 — $A_R = A_{sc}/A$: 0.154 — Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet — Accleration: 0.606 g's — Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ $(lb\text{-}sec^2)/ft^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd $(\tau_s/\tau)$ [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Depths of Liquifiable Layer Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 58.99 | 132.29 | 3.7785 | 325.56 | 2.91 | 0.89% | 0.904 | 0.50 | 143.01 | 1.64 | 1.00 | 200 | 0.821 | 0.821 | 0.70 | 1.528 | 0.461 | 1013.10 | 4.108 | 2.498E+05 | 2.498E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 1.80 | 2.48 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.08 | 132.51 | 3.7845 | 331.90 | 2.98 | 0.90% | 0.908 | 0.50 | 145.62 | 1.64 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.531 | 0.460 | 1017.12 | 4.115 | 2.514E+05 | 2.514E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.81 | 2.49 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.13 | 132.64 | 3.7878 | 337.76 | 3.02 | 0.89% | 0.904 | 0.50 | 148.11 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.533 | 0.460 | 1019.38 | 4.119 | 2.523E+05 | 2.523E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.81 | 2.49 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.20 | 132.29 | 3.7924 | 340.79 | 2.87 | 0.84% | 0.852 | 0.50 | 149.29 | 1.61 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.535 | 0.460 | 1010.76 | 4.108 | 2.487E+05 | 2.487E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.81 | 2.49 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.25 | 131.65 | 3.7957 | 339.81 | 2.63 | 0.77% | 0.783 | 0.50 | 148.74 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.537 | 0.459 | 995.99 | 4.089 | 2.426E+05 | 2.426E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.81 | 2.49 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.34 | 131.63 | 3.8016 | 337.57 | 2.63 | 0.78% | 0.788 | 0.50 | 147.54 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.539 | 0.459 | 995.99 | 4.088 | 2.427E+05 | 2.427E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.81 | 2.50 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.39 | 131.63 | 3.8049 | 337.47 | 2.63 | 0.78% | 0.788 | 0.50 | 147.38 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.541 | 0.459 | 995.99 | 4.088 | 2.427E+05 | 2.427E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.82 | 2.50 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.46 | 131.68 | 3.8095 | 337.86 | 2.65 | 0.78% | 0.793 | 0.50 | 147.39 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.543 | 0.458 | 997.27 | 4.089 | 2.432E+05 | 2.432E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.82 | 2.50 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.52 | 131.67 | 3.8135 | 335.81 | 2.65 | 0.79% | 0.798 | 0.50 | 146.35 | 1.60 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.545 | 0.458 | 997.27 | 4.089 | 2.432E+05 | 2.432E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.82 | 2.50 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.59 | 131.52 | 3.8181 | 315.70 | 2.65 | 0.84% | 0.850 | 0.50 | 137.34 | 1.63 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.547 | 0.458 | 997.27 | 4.084 | 2.435E+05 | 2.435E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.82 | 2.50 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.65 | 131.61 | 3.8220 | 326.93 | 2.65 | 0.81% | 0.820 | 0.50 | 142.15 | 1.61 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.549 | 0.458 | 997.27 | 4.087 | 2.433E+05 | 2.433E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.82 | 2.50 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.74 | 131.75 | 3.8280 | 325.07 | 2.71 | 0.83% | 0.844 | 0.50 | 141.14 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.552 | 0.457 | 1001.06 | 4.092 | 2.449E+05 | 2.449E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.82 | 2.51 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.79 | 131.42 | 3.8313 | 323.61 | 2.59 | 0.80% | 0.810 | 0.50 | 140.39 | 1.61 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.553 | 0.457 | 993.40 | 4.081 | 2.418E+05 | 2.418E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.82 | 2.51 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.87 | 128.94 | 3.8364 | 319.80 | 1.85 | 0.58% | 0.586 | 0.50 | 138.55 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.556 | 0.457 | 936.48 | 4.004 | 2.190E+05 | 2.190E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.82 | 2.51 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 59.92 | 128.83 | 3.8396 | 315.41 | 1.83 | 0.58% | 0.587 | 0.50 | 136.53 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.558 | 0.456 | 934.64 | 4.001 | 2.183E+05 | 2.183E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.82 | 2.51 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 60.01 | 129.31 | 3.8455 | 310.62 | 1.97 | 0.63% | 0.642 | 0.50 | 134.25 | 1.56 | 1.00 | 199 | 0.813 | 0.813 | 0.69 | 1.560 | 0.456 | 947.11 | 4.016 | 2.234E+05 | 2.234E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 1.80 | 2.48 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 60.05 | 129.63 | 3.8480 | 308.87 | 2.06 | 0.67% | 0.675 | 0.50 | 133.40 | 1.57 | 1.00 | 198 | 0.800 | 0.800 | 0.69 | 1.562 | 0.456 | 954.67 | 4.026 | 2.264E+05 | 2.264E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 1.77 | 2.44 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 60.14 | 129.83 | 3.8539 | 305.45 | 2.12 | 0.69% | 0.703 | 0.50 | 131.73 | 1.59 | 1.00 | 195 | 0.774 | 0.774 | 0.69 | 1.564 | 0.455 | 959.52 | 4.032 | 2.283E+05 | 2.283E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 1.72 | 2.36 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 60.19 | 129.42 | 3.8571 | 275.87 | 2.08 | 0.75% | 0.765 | 0.50 | 118.72 | 1.65 | 1.00 | 176 | 0.589 | 0.589 | 0.69 | 1.566 | 0.455 | 956.30 | 4.019 | 2.275E+05 | 2.275E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.31 | 1.80 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 60.24 | 129.50 | 3.8604 | 290.90 | 2.07 | 0.71% | 0.721 | 0.50 | 125.19 | 1.61 | 1.00 | 186 | 0.677 | 0.677 | 0.69 | 1.567 | 0.455 | 955.49 | 4.022 | 2.270E+05 | 2.270E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.50 | 2.07 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 60.32 | 129.38 | 3.8655 | 284.85 | 2.05 | 0.72% | 0.730 | 0.50 | 122.40 | 1.62 | 1.00 | 182 | 0.639 | 0.639 | 0.69 | 1.570 | 0.455 | 953.84 | 4.018 | 2.264E+05 | 2.264E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.42 | 1.96 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 60.38 | 129.09 | 3.8694 | 272.65 | 2.00 | 0.73% | 0.744 | 0.50 | 116.99 | 1.64 | 1.00 | 174 | 0.567 | 0.567 | 0.68 | 1.572 | 0.454 | 949.67 | 4.009 | 2.250E+05 | 2.250E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.26 | 1.73 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 60.45 | 128.11 | 3.8739 | 251.95 | 1.79 | 0.71% | 0.722 | 0.51 | 107.87 | 1.66 | 1.01 | 162 | 0.472 | 0.472 | 0.68 | 1.574 | 0.454 | 930.90 | 3.979 | 2.178E+05 | 2.178E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 1.05 | 1.45 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 60.51 | 127.34 | 3.8777 | 246.49 | 1.63 | 0.66% | 0.672 | 0.50 | 105.40 | 1.65 | 1.00 | 157 | 0.440 | 0.440 | 0.68 | 1.576 | 0.454 | 915.06 | 3.955 | 2.117E+05 | 2.117E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 0.98 | 1.35 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 60.56 | 126.50 | 3.8809 | 245.71 | 1.45 | 0.59% | 0.600 | 0.50 | 104.99 | 1.62 | 1.00 | 156 | 0.435 | 0.435 | 0.68 | 1.577 | 0.454 | 895.27 | 3.929 | 2.040E+05 | 2.040E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 0.97 | 1.33 | | 0.00 | 0.000 | 0.00 | 0.89 | 0.00 | | |
| 60.63 | 125.86 | 3.8853 | 241.31 | 1.34 | 0.56% | 0.564 | 0.50 | 102.98 | 1.61 | 1.00 | 153 | 0.415 | 0.415 | 0.68 | 1.580 | 0.453 | 881.92 | 3.909 | 1.990E+05 | 1.990E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 0.93 | 1.27 | <= | 0.27 | 0.000 | 0.00 | 0.89 | 0.00 | 60.56 | 60.63 |
| 60.72 | 126.39 | 3.8910 | 228.43 | 1.46 | 0.64% | 0.650 | 0.51 | 97.27 | 1.67 | 1.02 | 146 | 0.372 | 0.372 | 0.68 | 1.582 | 0.453 | 896.43 | 3.925 | 2.047E+05 | 2.047E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 0.83 | 1.14 | <= | 0.36 | 0.000 | 0.00 | 0.89 | 0.00 | 60.63 | 60.72 |
| 60.77 | 126.09 | 3.8941 | 225.40 | 1.41 | 0.63% | 0.637 | 0.51 | 95.89 | 1.67 | 1.02 | 144 | 0.359 | 0.359 | 0.68 | 1.584 | 0.453 | 890.54 | 3.916 | 2.025E+05 | 2.025E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 0.80 | 1.10 | <= | 0.31 | 0.002 | 0.00 | 0.89 | 0.00 | 60.72 | 60.77 |
| 60.84 | 125.80 | 3.8985 | 219.64 | 1.37 | 0.62% | 0.635 | 0.51 | 93.30 | 1.68 | 1.02 | 141 | 0.341 | 0.341 | 0.68 | 1.586 | 0.452 | 885.67 | 3.907 | 2.008E+05 | 2.008E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 0.76 | 1.05 | <= | 0.54 | 0.003 | 0.00 | 0.88 | 0.00 | 60.77 | 60.84 |
| 60.90 | 125.63 | 3.9023 | 216.81 | 1.34 | 0.62% | 0.629 | 0.51 | 92.00 | 1.68 | 1.02 | 139 | 0.331 | 0.331 | 0.68 | 1.588 | 0.452 | 881.92 | 3.902 | 1.994E+05 | 1.994E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 0.74 | 1.02 | <= | 0.48 | 0.003 | 0.00 | 0.88 | 0.00 | 60.84 | 60.90 |
| 60.98 | 125.72 | 3.9073 | 219.15 | 1.35 | 0.62% | 0.627 | 0.51 | 92.91 | 1.68 | 1.02 | 140 | 0.338 | 0.338 | 0.68 | 1.591 | 0.452 | 883.18 | 3.904 | 1.998E+05 | 1.998E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 0.76 | 1.04 | <= | 0.52 | 0.004 | 0.00 | 0.88 | 0.00 | 60.90 | 60.98 |
| 61.03 | 125.60 | 3.9105 | 218.96 | 1.33 | 0.61% | 0.618 | 0.51 | 92.76 | 1.67 | 1.02 | 140 | 0.335 | 0.335 | 0.68 | 1.592 | 0.452 | 880.66 | 3.901 | 1.988E+05 | 1.988E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 0.75 | 1.03 | <= | 0.51 | 0.002 | 0.00 | 0.87 | 0.00 | 60.98 | 61.03 |
| 61.11 | 125.63 | 3.9155 | 218.76 | 1.34 | 0.61% | 0.624 | 0.51 | 92.57 | 1.68 | 1.02 | 140 | 0.335 | 0.335 | 0.68 | 1.595 | 0.451 | 881.92 | 3.902 | 1.994E+05 | 1.994E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 0.75 | 1.03 | <= | 0.51 | 0.004 | 0.00 | 0.87 | 0.00 | 61.03 | 61.11 |
| 61.17 | 125.69 | 3.9193 | 221.01 | 1.34 | 0.61% | 0.617 | 0.51 | 93.46 | 1.67 | 1.02 | 141 | 0.341 | 0.341 | 0.68 | 1.597 | 0.451 | 881.92 | 3.903 | 1.993E+05 | 1.993E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 0.76 | 1.05 | <= | 0.54 | 0.002 | 0.00 | 0.87 | 0.00 | 61.11 | 61.17 |
| 61.23 | 125.55 | 3.9230 | 226.09 | 1.31 | 0.58% | 0.590 | 0.50 | 95.57 | 1.65 | 1.00 | 143 | 0.351 | 0.351 | 0.68 | 1.598 | 0.451 | 878.09 | 3.899 | 1.978E+05 | 1.978E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 0.79 | 1.08 | <= | 0.60 | 0.002 | 0.00 | 0.87 | 0.00 | 61.17 | 61.23 |
| 61.30 | 125.18 | 3.9274 | 229.21 | 1.24 | 0.54% | 0.550 | 0.50 | 96.82 | 1.62 | 1.00 | 145 | 0.362 | 0.362 | 0.68 | 1.601 | 0.450 | 868.80 | 3.888 | 1.942E+05 | 1.942E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 0.81 | 1.12 | <= | 0.33 | 0.000 | 0.00 | 0.86 | 0.00 | 61.23 | 61.30 |
| 61.38 | 124.85 | 3.9324 | 232.24 | 1.18 | 0.51% | 0.517 | 0.50 | 98.01 | 1.60 | 1.00 | 147 | 0.374 | 0.374 | 0.68 | 1.603 | 0.450 | 860.41 | 3.877 | 1.909E+05 | 1.909E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 0.84 | 1.15 | <= | 0.37 | 0.000 | 0.00 | 0.86 | 0.00 | 61.30 | 61.38 |
| 61.44 | 124.61 | 3.9361 | 233.80 | 1.14 | 0.49% | 0.496 | 0.50 | 98.60 | 1.59 | 1.00 | 148 | 0.379 | 0.379 | 0.68 | 1.605 | 0.450 | 854.58 | 3.870 | 1.887E+05 | 1.887E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 0.85 | 1.17 | <= | 0.39 | 0.000 | 0.00 | 0.86 | 0.00 | 61.38 | 61.44 |
| 61.48 | 124.37 | 3.9386 | 231.65 | 1.11 | 0.48% | 0.487 | 0.50 | 97.63 | 1.59 | 1.00 | 146 | 0.371 | 0.371 | 0.68 | 1.606 | 0.450 | 850.07 | 3.862 | 1.871E+05 | 1.871E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 0.83 | 1.15 | <= | 0.36 | 0.000 | 0.00 | 0.86 | 0.00 | 61.44 | 61.48 |
| 61.57 | 123.86 | 3.9442 | 224.13 | 1.04 | 0.46% | 0.472 | 0.50 | 94.29 | 1.59 | 1.00 | 141 | 0.342 | 0.342 | 0.68 | 1.609 | 0.449 | 839.05 | 3.847 | 1.830E+05 | 1.830E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 0.77 | 1.06 | <= | 0.56 | 0.003 | 0.00 | 0.86 | 0.00 | 61.48 | 61.57 |
| 61.62 | 123.29 | 3.9473 | 216.81 | 0.97 | 0.45% | 0.456 | 0.50 | 91.09 | 1.60 | 1.00 | 137 | 0.317 | 0.317 | 0.67 | 1.611 | 0.449 | 827.26 | 3.829 | 1.787E+05 | 1.787E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 0.71 | 0.98 | <= | 0.91 | 0.002 | 0.00 | 0.86 | 0.00 | 61.57 | 61.62 |
| 61.71 | 123.10 | 3.9528 | 204.41 | 0.97 | 0.47% | 0.484 | 0.50 | 85.68 | 1.63 | 1.00 | 129 | 0.277 | 0.277 | 0.67 | 1.613 | 0.449 | 827.26 | 3.823 | 1.790E+05 | 1.790E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 0.62 | 0.86 | <= | 1.27 | 0.005 | 0.00 | 0.86 | 0.00 | 61.62 | 61.71 |
| 61.77 | 122.98 | 3.9565 | 193.68 | 0.97 | 0.50% | 0.511 | 0.51 | 81.03 | 1.67 | 1.02 | 123 | 0.252 | 0.252 | 0.67 | 1.615 | 0.448 | 827.26 | 3.819 | 1.792E+05 | 1.792E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 0.57 | 0.78 | <= | 1.77 | 0.009 | 0.00 | 0.85 | 0.00 | 61.71 | 61.77 |
| 61.84 | 123.60 | 3.9608 | 180.69 | 1.08 | 0.60% | 0.611 | 0.53 | 75.41 | 1.75 | 1.07 | 118 | 0.233 | 0.233 | 0.67 | 1.617 | 0.448 | 845.43 | 3.839 | 1.862E+05 | 1.862E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 0.52 | 0.72 | <= | 1.67 | 0.009 | 0.00 | 0.85 | 0.00 | 61.77 | 61.84 |
| 61.91 | 125.06 | 3.9652 | 161.85 | 1.37 | 0.85% | 0.868 | 0.57 | 67.31 | 1.89 | 1.18 | 112 | 0.211 | 0.230 | 0.67 | 1.620 | 0.448 | 885.67 | 3.884 | 2.020E+05 | 2.020E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 0.52 | 0.72 | <= | 1.79 | 0.013 | 0.00 | 0.84 | 0.00 | 61.84 | 61.91 |
| 61.98 | 126.15 | 3.9696 | 136.67 | 1.68 | 1.23% | 1.266 | 0.63 | 56.52 | 2.07 | 1.39 | 107 | 0.193 | 0.244 | 0.67 | 1.622 | 0.448 | 920.17 | 3.918 | 2.161E+05 | 2.161E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 0.55 | 0.76 | <= | 2.19 | 0.017 | 0.00 | 0.82 | 0.00 | 61.91 | 61.98 |
| 62.02 | 126.56 | 3.9722 | 122.41 | 1.84 | 1.50% | 1.554 | 0.66 | 50.42 | 2.17 | 1.59 | 106 | 0.191 | 0.257 | 0.67 | 1.623 | 0.447 | 935.56 | 3.930 | 2.227E+05 | 2.227E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 0.58 | 0.80 | <= | 2.20 | 0.010 | 0.00 | 0.81 | 0.00 | 61.98 | 62.02 |
| 62.11 | 128.07 | 3.9779 | 96.55 | 2.45 | 2.54% | 2.647 | 0.73 | 39.36 | 2.42 | 2.41 | 118 | 0.232 | 0.200 | 0.67 | 1.626 | 0.447 | 984.00 | 3.977 | 2.434E+05 | 2.434E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 0.45 | 0.62 | <= | 2.02 | 0.020 | 0.00 | 0.80 | 0.00 | 62.02 | 62.11 |
| 62.16 | 127.90 | 3.9811 | 77.80 | 2.57 | 3.30% | 3.481 | 0.78 | 31.36 | 2.59 | 3.26 | 122 | 0.249 | 0.249 | 0.67 | 1.627 | 0.447 | 992.09 | 3.972 | 2.478E+05 | 2.478E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 0.56 | 0.77 | <= | 1.97 | 0.011 | 0.00 | 0.78 | 0.00 | 62.11 | 62.16 |
| 62.23 | 127.66 | 3.9856 | 65.70 | 2.64 | 4.02% | 4.278 | 0.82 | 26.19 | 2.72 | 4.12 | 136 | 0.314 | 0.314 | 0.67 | 1.630 | 0.446 | 996.63 | 3.965 | 2.505E+05 | 2.505E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 62.29 | 127.54 | 3.9894 | 60.23 | 2.67 | 4.43% | 4.747 | 0.84 | 23.85 | 2.78 | 4.64 | 153 | 0.414 | 0.414 | 0.67 | 1.631 | 0.446 | 998.54 | 3.961 | 2.517E+05 | 2.517E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 62.37 | 127.43 | 3.9945 | 56.42 | 2.69 | 4.77% | 5.131 | 0.86 | 22.21 | 2.83 | 5.07 | 167 | 0.515 | 0.515 | 0.67 | 1.634 | 0.446 | 999.81 | 3.957 | 2.526E+05 | 2.526E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 62.43 | 127.31 | 3.9983 | 51.54 | 2.73 | 5.30% | 5.742 | 0.88 | 20.12 | 2.90 | 5.72 | 189 | 0.706 | 0.706 | 0.67 | 1.636 | 0.446 | 1002.30 | 3.954 | 2.541E+05 | 2.541E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 62.47 | 127.32 | 4.0009 | 48.91 | 2.77 | 5.66% | 6.168 | 0.89 | 19.00 | 2.95 | 6.15 | 203 | 0.859 | 0.859 | 0.67 | 1.637 | 0.445 | 1004.76 | 3.954 | 2.553E+05 | 2.553E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 62.55 | 127.24 | 4.0060 | 48.52 | 2.75 | 5.67% | 6.178 | 0.89 | 18.81 | 2.95 | 6.20 | 204 | 0.875 | 0.875 | 0.67 | 1.640 | 0.445 | 1003.54 | 3.952 | 2.549E+05 | 2.549E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 62.60 | 127.33 | 4.0092 | 48.71 | 2.78 | 5.71% | 6.219 | 0.89 | 18.88 | 2.95 | 6.20 | 205 | 0.878 | 0.878 | 0.67 | 1.641 | 0.445 | 1005.37 | 3.954 | 2.556E+05 | 2.556E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 62.70 | 127.41 | 4.0155 | 52.62 | 2.74 | 5.21% | 5.637 | 0.88 | 20.50 | 2.89 | 5.60 | 185 | 0.667 | 0.667 | 0.67 | 1.644 | 0.444 | 1002.92 | 3.957 | 2.542E+05 | 2.542E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 62.74 | 127.75 | 4.0181 | 59.45 | 2.76 | 4.64% | 4.979 | 0.85 | 23.36 | 2.80 | 4.83 | 159 | 0.456 | 0.456 | 0.67 | 1.645 | 0.444 | 1004.15 | 3.967 | 2.542E+05 | 2.542E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 62.83 | 127.84 | 4.0238 | 62.67 | 2.74 | 4.37% | 4.672 | 0.84 | 24.69 | 2.77 | 4.50 | 148 | 0.384 | 0.384 | 0.67 | 1.648 | 0.444 | 1002.92 | 3.970 | 2.534E+05 | 2.534E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 62.87 | 127.79 | 4.0264 | 63.65 | 2.71 | 4.26% | 4.545 | 0.83 | 25.09 | 2.75 | 4.38 | 145 | 0.361 | 0.361 | 0.66 | 1.650 | 0.444 | 1001.06 | 3.969 | 2.525E+05 | 2.525E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 62.96 | 127.96 | 4.0321 | 73.51 | 2.64 | 3.59% | 3.800 | 0.80 | 29.19 | 2.64 | 3.59 | 124 | 0.255 | 0.255 | 0.66 | 1.652 | 0.443 | 996.63 | 3.974 | 2.499E+05 | 2.499E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.77 | 0.00 | | |
| 63.01 | 127.36 | 4.0353 | 81.90 | 2.35 | 2.87% | 3.018 | 0.77 | 32.70 | 2.53 | 2.91 | 116 | 0.224 | 0.224 | 0.66 | 1.654 | 0.443 | 976.95 | 3.955 | 2.413E+05 | 2.413E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | | 0.51 | 0.70 | <= | 2.05 | 0.011 | 0.00 | 0.77 | 0.00 | 62.96 | 63.01 |
| 63.06 | 126.40 | 4.0385 | 103.18 | 1.91 | 1.85% | 1.927 | 0.70 | 41.60 | 2.30 | 1.96 | 104 | 0.186 | 0.162 | 0.66 | 1.655 | 0.443 | 941.88 | 3.925 | 2.260E+05 | 2.260E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | | 0.37 | 0.51 | <= | 2.23 | 0.012 | 0.00 | 0.75 | 0.00 | 63.01 | 63.06 |
| 63.14 | 125.48 | 4.0435 | 121.44 | 1.59 | 1.31% | 1.354 | 0.65 | 49.21 | 2.13 | 1.52 | 100 | 0.173 | 0.250 | 0.66 | 1.658 | 0.442 | 910.86 | 3.897 | 2.129E+05 | 2.129E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | | 0.57 | 0.79 | <= | 2.30 | 0.020 | 0.00 | 0.74 | 0.00 | 63.06 | 63.14 |
| 63.23 | 125.03 | 4.0491 | 126.71 | 1.48 | 1.17% | 1.207 | 0.63 | 51.36 | 2.08 | 1.43 | 99 | 0.171 | 0.247 | 0.66 | 1.661 | 0.442 | 898.73 | 3.883 | 2.080E+05 | 2.080E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 0.57 | 0.78 | <= | 2.32 | 0.023 | 0.00 | 0.72 | 0.00 | 63.14 | 63.23 |
| 63.27 | 125.23 | 4.0516 | 125.34 | 1.53 | 1.22% | 1.261 | 0.64 | 50.76 | 2.10 | 1.46 | 100 | 0.173 | 0.250 | 0.66 | 1.662 | 0.442 | 904.35 | 3.889 | 2.103E+05 | 2.103E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 0.57 | 0.79 | <= | 2.31 | 0.010 | 0.00 | 0.70 | 0.00 | 63.23 | 63.27 |
| 63.33 | 125.68 | 4.0554 | 118.12 | 1.65 | 1.40% | 1.447 | 0.66 | 47.70 | 2.16 | 1.58 | 101 | 0.175 | 0.252 | 0.66 | 1.664 | 0.442 | 917.13 | 3.903 | 2.155E+05 | 2.155E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 0.58 | 0.79 | <= | 2.30 | 0.015 | 0.00 | 0.69 | 0.00 | 63.27 | 63.33 |
| 63.41 | 126.27 | 4.0605 | 105.72 | 1.86 | 1.76% | 1.830 | 0.69 | 42.46 | 2.28 | 1.88 | 103 | 0.183 | 0.160 | 0.66 | 1.666 | 0.441 | 937.39 | 3.921 | 2.241E+05 | 2.241E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 0.37 | 0.50 | <= | 2.25 | 0.020 | 0.00 | 0.67 | 0.00 | 63.33 | 63.41 |
| 63.45 | 126.63 | 4.0630 | 100.16 | 1.99 | 1.99% | 2.071 | 0.71 | 40.12 | 2.34 | 2.07 | 106 | 0.191 | 0.167 | 0.66 | 1.668 | 0.441 | 948.82 | 3.933 | 2.289E+05 | 2.289E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 0.38 | 0.53 | <= | 2.20 | 0.010 | 0.00 | 0.65 | 0.00 | 63.41 | 63.45 |
| 63.54 | 127.18 | 4.0687 | 91.47 | 2.21 | 2.42% | 2.529 | 0.74 | 36.44 | 2.43 | 2.45 | 111 | 0.208 | 0.196 | 0.66 | 1.670 | 0.441 | 966.56 | 3.950 | 2.365E+05 | 2.365E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 0.45 | 0.62 | <= | 2.12 | 0.021 | 0.00 | 0.65 | 0.00 | 63.45 | 63.54 |
| 63.60 | 127.38 | 4.0725 | 87.66 | 2.31 | 2.64% | 2.764 | 0.75 | 34.82 | 2.48 | 2.66 | 114 | 0.218 | 0.205 | 0.66 | 1.672 | 0.440 | 974.04 | 3.956 | 2.398E+05 | 2.398E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 0.47 | 0.65 | <= | 2.08 | 0.014 | 0.00 | 0.62 | 0.00 | 63.54 | 63.60 |
| 63.65 | 127.48 | 4.0757 | 87.17 | 2.34 | 2.68% | 2.816 | 0.75 | 34.60 | 2.49 | 2.70 | 115 | 0.220 | 0.208 | 0.66 | 1.674 | 0.440 | 976.23 | 3.959 | 2.407E+05 | 2.407E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 0.48 | 0.66 | <= | 2.07 | 0.011 | 0.00 | 0.61 | 0.00 | 63.60 | 63.65 |
| 63.72 | 127.04 | 4.0802 | 87.47 | 2.20 | 2.52% | 2.638 | 0.75 | 34.69 | 2.46 | 2.59 | 111 | 0.208 | 0.202 | 0.66 | 1.676 | 0.440 | 965.79 | 3.945 | 2.364E+05 | 2.364E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 0.47 | 0.64 | <= | 2.12 | 0.016 | 0.00 | 0.60 | 0.00 | 63.65 | 63.72 |
| 63.81 | 126.20 | 4.0858 | 85.32 | 1.98 | 2.32% | 2.437 | 0.74 | 33.75 | 2.45 | 2.52 | 106 | 0.190 | 0.190 | 0.66 | 1.679 | 0.439 | 947.97 | 3.919 | 2.293E+05 | 2.293E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 0.44 | 0.60 | <= | 2.21 | 0.022 | 0.00 | 0.58 | 0.00 | 63.72 | 63.81 |
| 63.87 | 126.13 | 4.0896 | 81.80 | 1.99 | 2.43% | 2.561 | 0.75 | 32.26 | 2.48 | 2.67 | 106 | 0.191 | 0.197 | 0.66 | 1.681 | 0.439 | 948.82 | 3.917 | 2.298E+05 | 2.298E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 0.45 | 0.62 | <= | 2.20 | 0.015 | 0.00 | 0.56 | 0.00 | 63.81 | 63.87 |
| 63.94 | 126.46 | 4.0941 | 76.92 | 2.12 | 2.76% | 2.911 | 0.77 | 30.20 | 2.54 | 3.00 | 110 | 0.203 | 0.210 | 0.66 | 1.683 | 0.439 | 959.52 | 3.927 | 2.344E+05 | 2.344E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 0.48 | 0.66 | <= | 2.14 | 0.017 | 0.00 | 0.55 | 0.00 | 63.87 | 63.94 |
| 63.98 | 126.45 | 4.0966 | 73.90 | 2.15 | 2.91% | 3.080 | 0.78 | 28.94 | 2.58 | 3.19 | 111 | 0.207 | 0.207 | 0.66 | 1.684 | 0.439 | 961.90 | 3.927 | 2.356E+05 | 2.356E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 0.48 | 0.66 | <= | 2.12 | 0.009 | 0.00 | 0.53 | 0.00 | 63.94 | 63.98 |
| 64.05 | 126.61 | 4.1010 | 73.80 | 2.20 | 2.98% | 3.156 | 0.78 | 28.86 | 2.58 | 3.24 | 112 | 0.211 | 0.211 | 0.66 | 1.686 | 0.438 | 965.79 | 3.932 | 2.372E+05 | 2.372E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 0.49 | 0.67 | <= | 2.10 | 0.016 | 0.00 | 0.52 | 0.00 | 63.98 | 64.05 |
| 64.12 | 126.70 | 4.1055 | 73.70 | 2.23 | 3.03% | 3.204 | 0.79 | 28.79 | 2.59 | 3.27 | 113 | 0.214 | 0.214 | 0.65 | 1.689 | 0.438 | 968.08 | 3.935 | 2.382E+05 | 2.382E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.49 | 0.68 | <= | 2.09 | 0.016 | 0.00 | 0.50 | 0.00 | 64.05 | 64.12 |
| 64.21 | 125.61 | 4.1111 | 86.88 | 1.81 | 2.08% | 2.187 | 0.73 | 34.21 | 2.41 | 2.35 | 101 | 0.176 | 0.177 | 0.65 | 1.691 | 0.438 | 932.78 | 3.901 | 2.230E+05 | 2.230E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.41 | 0.56 | <= | 2.29 | 0.023 | 0.00 | 0.49 | 0.00 | 64.12 | 64.21 |
| 64.26 | 125.85 | 4.1143 | 100.16 | 1.79 | 1.79% | 1.864 | 0.70 | 39.67 | 2.31 | 1.97 | 101 | 0.175 | 0.161 | 0.65 | 1.693 | 0.437 | 930.90 | 3.908 | 2.217E+05 | 2.217E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.37 | 0.51 | <= | 2.29 | 0.013 | 0.00 | 0.47 | 0.00 | 64.21 | 64.26 |
| 64.34 | 126.23 | 4.1193 | 108.45 | 1.84 | 1.70% | 1.764 | 0.69 | 43.04 | 2.26 | 1.83 | 103 | 0.181 | 0.153 | 0.65 | 1.695 | 0.437 | 935.56 | 3.920 | 2.233E+05 | 2.233E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.35 | 0.49 | <= | 2.26 | 0.020 | 0.00 | 0.45 | 0.00 | 64.26 | 64.34 |
| 64.37 | 126.14 | 4.1212 | 111.38 | 1.80 | 1.62% | 1.678 | 0.68 | 44.23 | 2.24 | 1.76 | 102 | 0.179 | 0.152 | 0.65 | 1.696 | 0.437 | 931.84 | 3.917 | 2.217E+05 | 2.217E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.35 | 0.48 | <= | 2.27 | 0.007 | 0.00 | 0.43 | 0.00 | 64.34 | 64.37 |
| 64.48 | 126.27 | 4.1281 | 112.65 | 1.82 | 1.62% | 1.677 | 0.68 | 44.69 | 2.23 | 1.75 | 103 | 0.181 | 0.147 | 0.65 | 1.700 | 0.436 | 933.71 | 3.921 | 2.223E+05 | 2.223E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.34 | 0.47 | <= | 2.26 | 0.027 | 0.00 | 0.43 | 0.00 | 64.37 | 64.48 |
| 64.51 | 126.17 | 4.1300 | 94.79 | 1.91 | 2.01% | 2.107 | 0.72 | 37.32 | 2.37 | 2.18 | 103 | 0.183 | 0.174 | 0.65 | 1.701 | 0.436 | 941.88 | 3.918 | 2.264E+05 | 2.264E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.40 | 0.55 | <= | 2.24 | 0.007 | 0.00 | 0.40 | 0.00 | 64.48 | 64.51 |
| 64.58 | 127.30 | 4.1345 | 104.84 | 2.15 | 2.05% | 2.135 | 0.71 | 41.42 | 2.33 | 2.06 | 109 | 0.202 | 0.172 | 0.65 | 1.703 | 0.436 | 961.90 | 3.953 | 2.340E+05 | 2.340E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.40 | 0.55 | <= | 2.15 | 0.016 | 0.00 | 0.39 | 0.00 | 64.51 | 64.58 |
| 64.65 | 128.08 | 4.1390 | 98.11 | 2.45 | 2.50% | 2.607 | 0.73 | 38.61 | 2.42 | 2.40 | 116 | 0.226 | 0.193 | 0.65 | 1.705 | 0.436 | 984.00 | 3.978 | 2.434E+05 | 2.434E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.45 | 0.61 | <= | 2.04 | 0.016 | 0.00 | 0.37 | 0.00 | 64.58 | 64.65 |
| 64.70 | 128.58 | 4.1422 | 93.03 | 2.66 | 2.86% | 2.993 | 0.75 | 36.50 | 2.49 | 2.70 | 121 | 0.246 | 0.218 | 0.65 | 1.707 | 0.435 | 997.91 | 3.993 | 2.494E+05 | 2.494E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.51 | 0.70 | <= | 1.97 | 0.009 | 0.00 | 0.36 | 0.00 | 64.65 | 64.70 |
| 64.78 | 129.07 | 4.1473 | 92.84 | 2.85 | 3.07% | 3.213 | 0.76 | 36.38 | 2.51 | 2.82 | 126 | 0.264 | 0.235 | 0.65 | 1.709 | 0.435 | 1009.58 | 4.008 | 2.543E+05 | 2.543E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.54 | 0.75 | <= | 1.92 | 0.007 | 0.00 | 0.35 | 0.00 | 64.70 | 64.78 |
| 64.85 | 129.05 | 4.1519 | 92.84 | 2.84 | 3.06% | 3.202 | 0.76 | 36.34 | 2.51 | 2.81 | 125 | 0.263 | 0.234 | 0.65 | 1.711 | 0.435 | 1008.99 | 4.008 | 2.540E+05 | 2.540E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.54 | 0.75 | <= | 1.92 | 0.006 | 0.00 | 0.34 | 0.00 | 64.78 | 64.85 |
| 64.92 | 128.96 | 4.1564 | 92.64 | 2.81 | 3.03% | 3.176 | 0.76 | 36.22 | 2.51 | 2.80 | 125 | 0.260 | 0.231 | 0.65 | 1.714 | 0.434 | 1007.19 | 4.005 | 2.533E+05 | 2.533E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.54 | 0.74 | <= | 1.93 | 0.006 | 0.00 | 0.34 | 0.00 | 64.85 | 64.92 |
| 64.96 | 129.07 | 4.1590 | 98.01 | 2.80 | 2.86% | 2.983 | 0.75 | 38.40 | 2.47 | 2.61 | 124 | 0.258 | 0.211 | 0.65 | 1.715 | 0.434 | 1006.59 | 4.008 | 2.528E+05 | 2.528E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.49 | 0.67 | <= | 1.94 | 0.003 | 0.00 | 0.33 | 0.00 | 64.92 | 64.96 |
| 65.05 | 129.61 | 4.1648 | 118.02 | 2.83 | 2.40% | 2.486 | 0.71 | 46.52 | 2.34 | 2.09 | 124 | 0.259 | 0.168 | 0.65 | 1.718 | 0.434 | 1008.39 | 4.025 | 2.526E+05 | 2.526E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.39 | 0.54 | <= | 1.93 | 0.008 | 0.00 | 0.33 | 0.00 | 64.96 | 65.05 |
| 65.09 | 129.83 | 4.1674 | 132.47 | 2.81 | 2.12% | 2.190 | 0.69 | 52.40 | 2.26 | 1.82 | 125 | 0.262 | 0.262 | 0.65 | 1.719 | 0.434 | 1007.19 | 4.032 | 2.516E+05 | 2.516E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.61 | 0.84 | <= | 1.44 | 0.004 | 0.00 | 0.32 | 0.00 | 65.05 | 65.09 |
| 65.16 | 129.74 | 4.1719 | 147.11 | 2.68 | 1.82% | 1.875 | 0.66 | 58.32 | 2.17 | 1.60 | 125 | 0.262 | 0.262 | 0.65 | 1.721 | 0.433 | 999.18 | 4.029 | 2.478E+05 | 2.478E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.61 | 0.84 | <= | 1.43 | 0.007 | 0.00 | 0.32 | 0.00 | 65.09 | 65.16 |
| 65.23 | 129.42 | 4.1765 | 156.97 | 2.51 | 1.60% | 1.643 | 0.64 | 62.28 | 2.11 | 1.47 | 124 | 0.259 | 0.259 | 0.65 | 1.723 | 0.433 | 988.09 | 4.019 | 2.429E+05 | 2.429E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.60 | 0.83 | <= | 1.23 | 0.007 | 0.00 | 0.31 | 0.00 | 65.16 | 65.23 |
| 65.30 | 129.13 | 4.1810 | 163.61 | 2.38 | 1.45% | 1.493 | 0.63 | 64.92 | 2.06 | 1.39 | 124 | 0.258 | 0.258 | 0.65 | 1.725 | 0.433 | 979.09 | 4.010 | 2.390E+05 | 2.390E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.60 | 0.83 | <= | 1.23 | 0.007 | 0.00 | 0.30 | 0.00 | 65.23 | 65.30 |
| 65.37 | 129.11 | 4.1855 | 167.32 | 2.36 | 1.41% | 1.447 | 0.62 | 66.37 | 2.04 | 1.36 | 125 | 0.262 | 0.262 | 0.64 | 1.728 | 0.432 | 977.67 | 4.010 | 2.384E+05 | 2.384E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.61 | 0.84 | <= | 1.26 | 0.004 | 0.00 | 0.30 | 0.00 | 65.30 | 65.37 |
| 65.44 | 129.33 | 4.1900 | 168.39 | 2.42 | 1.44% | 1.474 | 0.62 | 66.74 | 2.05 | 1.37 | 126 | 0.267 | 0.267 | 0.64 | 1.730 | 0.432 | 981.91 | 4.016 | 2.401E+05 | 2.401E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.63 | 0.86 | <= | 1.31 | 0.004 | 0.00 | 0.29 | 0.00 | 65.37 | 65.44 |
| 65.50 | 129.50 | 4.1939 | 168.30 | 2.48 | 1.47% | 1.511 | 0.62 | 66.65 | 2.06 | 1.38 | 127 | 0.271 | 0.271 | 0.64 | 1.732 | 0.432 | 986.06 | 4.022 | 2.418E+05 | 2.418E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.63 | 0.87 | <= | 1.34 | 0.004 | 0.00 | 0.29 | 0.00 | 65.44 | 65.50 |
| 65.59 | 129.48 | 4.1997 | 166.15 | 2.48 | 1.49% | 1.531 | 0.63 | 65.69 | 2.06 | 1.39 | 126 | 0.267 | 0.267 | 0.64 | 1.734 | 0.431 | 986.06 | 4.021 | 2.418E+05 | 2.418E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.63 | 0.86 | <= | 1.31 | 0.005 | 0.00 | 0.28 | 0.00 | 65.50 | 65.59 |
| 65.63 | 129.43 | 4.2023 | 164.29 | 2.48 | 1.51% | 1.549 | 0.63 | 64.90 | 2.07 | 1.41 | 126 | 0.265 | 0.265 | 0.64 | 1.736 | 0.431 | 986.06 | 4.020 | 2.419E+05 | 2.419E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.62 | 0.85 | <= | 1.29 | 0.002 | 0.00 | 0.28 | 0.00 | 65.59 | 65.63 |
| 65.70 | 129.35 | 4.2069 | 162.63 | 2.46 | 1.51% | 1.553 | 0.63 | 64.16 | 2.08 | 1.41 | 125 | 0.261 | 0.261 | 0.64 | 1.738 | 0.431 | 984.69 | 4.017 | 2.414E+05 | 2.414E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.61 | 0.84 | <= | 1.27 | 0.004 | 0.00 | 0.28 | 0.00 | 65.63 | 65.70 |
| 65.76 | 129.34 | 4.2107 | 161.56 | 2.46 | 1.52% | 1.563 | 0.63 | 63.68 | 2.08 | 1.42 | 125 | 0.260 | 0.260 | 0.64 | 1.740 | 0.430 | 984.69 | 4.017 | 2.414E+05 | 2.414E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.61 | 0.84 | <= | 1.26 | 0.003 | 0.00 | 0.27 | 0.00 | 65.70 | 65.76 |
| 65.82 | 129.33 | 4.2146 | 161.51 | 2.46 | 1.52% | 1.564 | 0.63 | 63.60 | 2.08 | 1.42 | 124 | 0.259 | 0.259 | 0.64 | 1.742 | 0.430 | 984.69 | 4.016 | 2.414E+05 | 2.414E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.61 | 0.84 | <= | 1.25 | 0.003 | 0.00 | 0.27 | 0.00 | 65.76 | 65.82 |
| 65.88 | 129.30 | 4.2185 | 161.46 | 2.45 | 1.52% | 1.558 | 0.63 | 63.53 | 2.08 | 1.42 | 124 | 0.258 | 0.258 | 0.64 | 1.743 | 0.430 | 984.00 | 4.016 | 2.411E+05 | 2.411E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.61 | 0.84 | <= | 1.25 | 0.003 | 0.00 | 0.27 | 0.00 | 65.82 | 65.88 |
| 65.97 | 129.30 | 4.2243 | 166.15 | 2.42 | 1.46% | 1.495 | 0.63 | 65.34 | 2.06 | 1.38 | 125 | 0.262 | 0.262 | 0.64 | 1.746 | 0.430 | 981.91 | 4.016 | 2.401E+05 | 2.401E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.62 | 0.85 | <= | 1.29 | 0.005 | 0.00 | 0.26 | 0.00 | 65.88 | 65.97 |
| 66.03 | 129.23 | 4.2282 | 170.35 | 2.38 | 1.40% | 1.433 | 0.62 | 66.98 | 2.04 | 1.35 | 126 | 0.266 | 0.266 | 0.64 | 1.748 | 0.429 | 979.09 | 4.013 | 2.389E+05 | 2.389E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.63 | 0.86 | <= | 1.31 | 0.004 | 0.00 | 0.26 | 0.00 | 65.97 | 66.03 |
| 66.08 | 129.16 | 4.2314 | 172.10 | 2.35 | 1.37% | 1.400 | 0.62 | 67.64 | 2.02 | 1.33 | 126 | 0.266 | 0.266 | 0.64 | 1.750 | 0.429 | 976.95 | 4.011 | 2.379E+05 | 2.379E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.63 | 0.86 | <= | 1.32 | 0.003 | 0.00 | 0.25 | 0.00 | 66.03 | 66.08 |
| 66.14 | 129.08 | 4.2353 | 176.10 | 2.31 | 1.31% | 1.344 | 0.61 | 69.20 | 2.00 | 1.30 | 127 | 0.270 | 0.270 | 0.64 | 1.752 | 0.429 | 974.04 | 4.009 | 2.367E+05 | 2.367E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.64 | 0.88 | <= | 1.35 | 0.004 | 0.00 | 0.25 | 0.00 | 66.08 | 66.14 |
| 66.22 | 129.14 | 4.2405 | 178.06 | 2.31 | 1.30% | 1.329 | 0.61 | 69.91 | 2.00 | 1.30 | 128 | 0.273 | 0.273 | 0.64 | 1.754 | 0.428 | 974.04 | 4.011 | 2.366E+05 | 2.366E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.64 | 0.89 | <= | 1.38 | 0.006 | 0.00 | 0.25 | 0.00 | 66.14 | 66.22 |
| 66.30 | 127.73 | 4.2456 | 173.66 | 1.93 | 1.11% | 1.139 | 0.60 | 68.07 | 1.96 | 1.25 | 121 | 0.245 | 0.245 | 0.64 | 1.757 | 0.428 | 943.64 | 3.967 | 2.245E+05 | 2.245E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.58 | 0.79 | <= | 1.95 | 0.008 | 0.00 | 0.24 | 0.00 | 66.22 | 66.30 |
| 66.34 | 126.56 | 4.2481 | 167.12 | 1.66 | 0.99% | 1.019 | 0.59 | 65.40 | 1.94 | 1.23 | 115 | 0.221 | 0.221 | 0.64 | 1.758 | 0.428 | 918.15 | 3.930 | 2.145E+05 | 2.145E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.52 | 0.72 | <= | 1.74 | 0.006 | 0.00 | 0.23 | 0.00 | 66.30 | 66.34 |
| 66.43 | 128.77 | 4.2539 | 144.96 | 2.36 | 1.63% | 1.677 | 0.65 | 56.43 | 2.15 | 1.54 | 118 | 0.233 | 0.233 | 0.64 | 1.761 | 0.427 | 977.67 | 3.999 | 2.390E+05 | 2.390E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.55 | 0.76 | <= | 2.02 | 0.013 | 0.00 | 0.23 | 0.00 | 66.34 | 66.43 |
| 66.48 | 129.62 | 4.2571 | 120.27 | 2.82 | 2.34% | 2.431 | 0.71 | 46.50 | 2.33 | 2.06 | 124 | 0.255 | 0.158 | 0.64 | 1.762 | 0.427 | 1007.79 | 4.025 | 2.523E+05 | 2.523E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.37 | 0.51 | <= | 1.95 | 0.005 | 0.00 | 0.22 | 0.00 | 66.43 | 66.48 |
| 66.55 | 129.94 | 4.2617 | 94.49 | 3.19 | 3.38% | 3.535 | 0.77 | 36.13 | 2.54 | 2.98 | 132 | 0.293 | 0.244 | 0.63 | 1.764 | 0.427 | 1028.64 | 4.035 | 2.622E+05 | 2.622E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.58 | 0.80 | <= | 1.85 | 0.005 | 0.00 | 0.21 | 0.00 | 66.48 | 66.55 |
| 66.62 | 129.10 | 4.2662 | 74.09 | 3.08 | 4.16% | 4.411 | 0.82 | 27.93 | 2.70 | 4.01 | 132 | 0.295 | 0.295 | 0.63 | 1.767 | 0.426 | 1022.71 | 4.009 | 2.609E+05 | 2.609E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 66.69 | 128.05 | 4.2707 | 61.21 | 2.85 | 4.66% | 5.005 | 0.85 | 22.76 | 2.81 | 4.90 | 162 | 0.472 | 0.472 | 0.63 | 1.769 | 0.426 | 1009.58 | 3.977 | 2.563E+05 | 2.563E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 66.75 | 127.81 | 4.2745 | 59.94 | 2.77 | 4.62% | 4.976 | 0.85 | 22.23 | 2.82 | 4.95 | 163 | 0.485 | 0.485 | 0.63 | 1.771 | 0.426 | 1004.76 | 3.969 | 2.543E+05 | 2.543E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 66.80 | 127.85 | 4.2777 | 55.94 | 2.86 | 5.11% | 5.536 | 0.87 | 20.62 | 2.88 | 5.50 | 182 | 0.637 | 0.637 | 0.63 | 1.772 | 0.426 | 1010.17 | 3.970 | 2.570E+05 | 2.570E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 66.89 | 128.85 | 4.2835 | 56.03 | 3.27 | 5.84% | 6.319 | 0.88 | 20.63 | 2.92 | 5.92 | 195 | 0.774 | 0.774 | 0.63 | 1.775 | 0.425 | 1032.83 | 4.002 | 2.666E+05 | 2.666E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 66.93 | 129.44 | 4.2861 | 56.13 | 3.54 | 6.31% | 6.828 | 0.89 | 20.66 | 2.95 | 6.18 | 204 | 0.868 | 0.868 | 0.63 | 1.776 | 0.425 | 1046.26 | 4.020 | 2.723E+05 | 2.723E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.02 | 131.22 | 4.2920 | 78.58 | 4.04 | 5.14% | 5.438 | 0.83 | 29.56 | 2.75 | 4.39 | 150 | 0.395 | 0.395 | 0.63 | 1.779 | 0.425 | 1068.60 | 4.075 | 2.802E+05 | 2.802E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.07 | 131.86 | 4.2953 | 86.98 | 4.26 | 4.90% | 5.152 | 0.82 | 32.88 | 2.70 | 3.98 | 154 | 0.418 | 0.418 | 0.63 | 1.781 | 0.424 | 1077.57 | 4.095 | 2.836E+05 | 2.836E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.14 | 132.70 | 4.2999 | 97.81 | 4.60 | 4.70% | 4.919 | 0.80 | 37.15 | 2.64 | 3.59 | 159 | 0.456 | 0.456 | 0.63 | 1.783 | 0.424 | 1090.56 | 4.121 | 2.886E+05 | 2.886E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.20 | 133.18 | 4.3039 | 100.45 | 4.87 | 4.85% | 5.065 | 0.80 | 38.16 | 2.64 | 3.60 | 164 | 0.490 | 0.490 | 0.63 | 1.785 | 0.424 | 1100.21 | 4.136 | 2.927E+05 | 2.927E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.27 | 133.54 | 4.3086 | 101.13 | 5.10 | 5.04% | 5.267 | 0.80 | 38.39 | 2.65 | 3.68 | 168 | 0.521 | 0.521 | 0.63 | 1.787 | 0.423 | 1108.02 | 4.147 | 2.960E+05 | 2.960E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.34 | 133.82 | 4.3133 | 101.23 | 5.30 | 5.24% | 5.469 | 0.81 | 38.39 | 2.67 | 3.77 | 171 | 0.548 | 0.548 | 0.63 | 1.789 | 0.423 | 1114.53 | 4.156 | 2.989E+05 | 2.989E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.40 | 133.99 | 4.3173 | 100.25 | 5.44 | 5.43% | 5.671 | 0.81 | 37.97 | 2.68 | 3.88 | 174 | 0.569 | 0.569 | 0.63 | 1.791 | 0.423 | 1118.94 | 4.161 | 3.009E+05 | 3.009E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.47 | 134.16 | 4.3220 | 99.77 | 5.57 | 5.58% | 5.836 | 0.82 | 37.74 | 2.70 | 3.96 | 176 | 0.588 | 0.588 | 0.63 | 1.793 | 0.422 | 1122.93 | 4.166 | 3.026E+05 | 3.026E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.55 | 134.19 | 4.3274 | 98.40 | 5.62 | 5.71% | 5.974 | 0.82 | 37.16 | 2.71 | 4.06 | 177 | 0.595 | 0.595 | 0.63 | 1.796 | 0.422 | 1124.44 | 4.167 | 3.034E+05 | 3.034E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.59 | 134.15 | 4.3301 | 96.94 | 5.62 | 5.80% | 6.068 | 0.82 | 36.56 | 2.72 | 4.14 | 177 | 0.595 | 0.595 | 0.63 | 1.797 | 0.422 | 1124.44 | 4.166 | 3.035E+05 | 3.035E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.65 | 134.17 | 4.3341 | 98.50 | 5.60 | 5.69% | 5.947 | 0.82 | 37.14 | 2.71 | 4.05 | 176 | 0.591 | 0.591 | 0.63 | 1.799 | 0.422 | 1123.84 | 4.167 | 3.031E+05 | 3.031E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.74 | 134.04 | 4.3401 | 97.13 | 5.53 | 5.69% | 5.960 | 0.82 | 36.55 | 2.71 | 4.09 | 175 | 0.581 | 0.581 | 0.63 | 1.801 | 0.421 | 1121.71 | 4.163 | 3.023E+05 | 3.023E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.78 | 134.02 | 4.3428 | 98.60 | 5.49 | 5.57% | 5.824 | 0.82 | 37.11 | 2.70 | 4.00 | 174 | 0.574 | 0.574 | 0.62 | 1.803 | 0.421 | 1120.48 | 4.162 | 3.016E+05 | 3.016E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.85 | 133.98 | 4.3475 | 102.50 | 5.39 | 5.26% | 5.491 | 0.81 | 38.60 | 2.67 | 3.76 | 172 | 0.556 | 0.556 | 0.62 | 1.805 | 0.421 | 1117.37 | 4.161 | 3.001E+05 | 3.001E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.93 | 133.92 | 4.3528 | 105.33 | 5.30 | 5.03% | 5.249 | 0.80 | 39.67 | 2.64 | 3.60 | 171 | 0.541 | 0.541 | 0.62 | 1.807 | 0.420 | 1114.53 | 4.159 | 2.987E+05 | 2.987E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 67.99 | 133.87 | 4.3569 | 107.58 | 5.22 | 4.85% | 5.057 | 0.79 | 40.52 | 2.62 | 3.47 | 169 | 0.528 | 0.528 | 0.62 | 1.809 | 0.420 | 1111.95 | 4.157 | 2.974E+05 | 2.974E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 68.05 | 133.70 | 4.3609 | 109.82 | 5.07 | 4.62% | 4.808 | 0.79 | 41.36 | 2.60 | 3.32 | 166 | 0.506 | 0.506 | 0.62 | 1.811 | 0.420 | 1107.02 | 4.152 | 2.951E+05 | 2.951E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | | 1.22 | 1.68 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 68.12 | 133.52 | 4.3655 | 115.29 | 4.87 | 4.22% | 4.390 | 0.77 | 43.46 | 2.55 | 3.04 | 162 | 0.475 | 0.475 | 0.62 | 1.813 | 0.419 | 1100.21 | 4.147 | 2.919E+05 | 2.919E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | | 1.15 | 1.58 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 68.18 | 133.27 | 4.3695 | 117.24 | 4.68 | 3.99% | 4.146 | 0.77 | 44.19 | 2.53 | 2.90 | 158 | 0.449 | 0.449 | 0.62 | 1.815 | 0.419 | 1093.48 | 4.139 | 2.889E+05 | 2.889E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | | 1.08 | 1.49 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 68.25 | 132.50 | 4.3742 | 124.07 | 4.13 | 3.33% | 3.450 | 0.74 | 46.82 | 2.44 | 2.50 | 148 | 0.381 | 0.381 | 0.62 | 1.817 | 0.419 | 1072.33 | 4.115 | 2.794E+05 | 2.794E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | | 0.92 | 1.26 | <= | 0.27 | 0.000 | 0.00 | 0.21 | 0.00 | 68.18 | 68.25 |
| 68.31 | 128.37 | 4.3780 | 133.05 | 2.30 | 1.73% | 1.787 | 0.67 | 50.29 | 2.20 | 1.67 | 113 | 0.216 | 0.235 | 0.62 | 1.819 | 0.418 | 973.31 | 3.987 | 2.376E+05 | 2.376E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | | 0.57 | 0.78 | <= | 2.08 | 0.008 | 0.00 | 0.21 | 0.00 | 68.25 | 68.31 |
| 68.38 | 128.34 | 4.3825 | 147.31 | 2.21 | 1.50% | 1.546 | 0.64 | 55.81 | 2.12 | 1.49 | 115 | 0.221 | 0.221 | 0.62 | 1.821 | 0.418 | 966.56 | 3.986 | 2.344E+05 | 2.344E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | | 0.53 | 0.73 | <= | 2.06 | 0.010 | 0.00 | 0.20 | 0.00 | 68.31 | 68.38 |
| 68.44 | 128.70 | 4.3864 | 154.82 | 2.28 | 1.47% | 1.516 | 0.64 | 58.69 | 2.10 | 1.45 | 118 | 0.232 | 0.232 | 0.62 | 1.823 | 0.418 | 971.83 | 3.997 | 2.363E+05 | 2.363E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | | 0.56 | 0.77 | <= | 2.02 | 0.005 | 0.00 | 0.19 | 0.00 | 68.38 | 68.44 |
| 68.52 | 128.77 | 4.3915 | 171.81 | 2.23 | 1.30% | 1.332 | 0.61 | 65.25 | 2.02 | 1.32 | 122 | 0.251 | 0.251 | 0.62 | 1.826 | 0.417 | 968.08 | 3.999 | 2.344E+05 | 2.344E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | | 0.61 | 0.84 | <= | 1.27 | 0.005 | 0.00 | 0.18 | 0.00 | 68.44 | 68.52 |
| 68.59 | 129.28 | 4.3961 | 197.78 | 2.28 | 1.15% | 1.179 | 0.59 | 75.30 | 1.93 | 1.22 | 133 | 0.299 | 0.299 | 0.62 | 1.828 | 0.417 | 971.83 | 4.015 | 2.352E+05 | 2.352E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | | 0.73 | 1.00 | <= | 1.00 | 0.000 | 0.00 | 0.18 | 0.00 | 68.52 | 68.59 |
| 68.66 | 128.94 | 4.4006 | 203.73 | 2.16 | 1.06% | 1.084 | 0.58 | 77.55 | 1.89 | 1.18 | 134 | 0.306 | 0.306 | 0.62 | 1.830 | 0.417 | 962.69 | 4.004 | 2.314E+05 | 2.314E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | | 0.74 | 1.02 | <= | 0.50 | 0.000 | 0.00 | 0.18 | 0.00 | 68.59 | 68.66 |
| 68.71 | 128.23 | 4.4038 | 207.05 | 1.95 | 0.94% | 0.962 | 0.56 | 78.79 | 1.85 | 1.14 | 134 | 0.303 | 0.303 | 0.62 | 1.832 | 0.416 | 945.38 | 3.982 | 2.244E+05 | 2.244E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | | 0.74 | 1.01 | <= | 0.48 | 0.000 | 0.00 | 0.18 | 0.00 | 68.66 | 68.71 |
| 68.81 | 126.63 | 4.4101 | 201.09 | 1.58 | 0.79% | 0.803 | 0.55 | 76.37 | 1.80 | 1.11 | 127 | 0.273 | 0.273 | 0.62 | 1.835 | 0.416 | 909.79 | 3.933 | 2.105E+05 | 2.105E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | | 0.66 | 0.91 | <= | 0.75 | 0.005 | 0.00 | 0.18 | 0.00 | 68.71 | 68.81 |
| 68.85 | 126.02 | 4.4126 | 196.12 | 1.46 | 0.74% | 0.762 | 0.55 | 74.41 | 1.80 | 1.10 | 124 | 0.257 | 0.257 | 0.62 | 1.836 | 0.416 | 896.43 | 3.914 | 2.053E+05 | 2.053E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | | 0.62 | 0.86 | <= | 1.34 | 0.001 | 0.00 | 0.17 | 0.00 | 68.81 | 68.85 |
| 68.91 | 125.28 | 4.4164 | 188.31 | 1.34 | 0.71% | 0.729 | 0.55 | 71.32 | 1.80 | 1.11 | 119 | 0.237 | 0.237 | 0.62 | 1.838 | 0.415 | 881.92 | 3.891 | 1.999E+05 | 1.999E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | | 0.58 | 0.79 | <= | 1.97 | 0.003 | 0.00 | 0.17 | 0.00 | 68.85 | 68.91 |
| 68.97 | 124.93 | 4.4201 | 182.94 | 1.29 | 0.71% | 0.723 | 0.55 | 69.19 | 1.81 | 1.11 | 116 | 0.225 | 0.225 | 0.62 | 1.840 | 0.415 | 875.49 | 3.880 | 1.976E+05 | 1.976E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | | 0.55 | 0.75 | <= | 1.86 | 0.005 | 0.00 | 0.17 | 0.00 | 68.91 | 68.97 |
| 69.04 | 124.69 | 4.4245 | 173.86 | 1.27 | 0.73% | 0.750 | 0.56 | 65.61 | 1.84 | 1.14 | 111 | 0.208 | 0.212 | 0.61 | 1.842 | 0.415 | 872.85 | 3.872 | 1.967E+05 | 1.967E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | | 0.52 | 0.71 | <= | 1.78 | 0.010 | 0.00 | 0.16 | 0.00 | 68.97 | 69.04 |
| 69.11 | 124.54 | 4.4289 | 163.32 | 1.27 | 0.78% | 0.799 | 0.57 | 61.48 | 1.88 | 1.17 | 106 | 0.192 | 0.213 | 0.61 | 1.844 | 0.415 | 872.85 | 3.868 | 1.970E+05 | 1.970E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | | 0.52 | 0.71 | <= | 1.91 | 0.013 | 0.00 | 0.15 | 0.00 | 69.04 | 69.11 |
| 69.17 | 124.33 | 4.4326 | 154.73 | 1.26 | 0.81% | 0.838 | 0.58 | 58.11 | 1.92 | 1.21 | 103 | 0.180 | 0.229 | 0.61 | 1.846 | 0.414 | 871.51 | 3.861 | 1.967E+05 | 1.967E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | | 0.56 | 0.77 | <= | 2.17 | 0.011 | 0.00 | 0.14 | 0.00 | 69.11 | 69.17 |
| 69.23 | 123.91 | 4.4363 | 146.23 | 1.21 | 0.83% | 0.853 | 0.59 | 54.78 | 1.95 | 1.24 | 98 | 0.168 | 0.226 | 0.61 | 1.848 | 0.414 | 864.66 | 3.848 | 1.943E+05 | 1.943E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | | 0.55 | 0.76 | <= | 2.34 | 0.014 | 0.00 | 0.13 | 0.00 | 69.17 | 69.23 |
| 69.30 | 124.17 | 4.4407 | 132.47 | 1.30 | 0.98% | 1.015 | 0.62 | 49.42 | 2.04 | 1.35 | 94 | 0.158 | 0.236 | 0.61 | 1.850 | 0.414 | 876.80 | 3.856 | 1.994E+05 | 1.994E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | | 0.58 | 0.79 | <= | 2.41 | 0.017 | 0.00 | 0.11 | 0.00 | 69.23 | 69.30 |
| 69.37 | 124.61 | 4.4450 | 123.59 | 1.41 | 1.14% | 1.183 | 0.64 | 45.95 | 2.11 | 1.47 | 94 | 0.157 | 0.234 | 0.61 | 1.852 | 0.413 | 890.54 | 3.870 | 2.049E+05 | 2.049E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | | 0.57 | 0.79 | <= | 2.43 | 0.017 | 0.00 | 0.10 | 0.00 | 69.30 | 69.37 |
| 69.42 | 124.85 | 4.4481 | 115.97 | 1.49 | 1.28% | 1.336 | 0.66 | 42.99 | 2.17 | 1.59 | 94 | 0.156 | 0.244 | 0.61 | 1.854 | 0.413 | 899.87 | 3.877 | 2.088E+05 | 2.088E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | | 0.60 | 0.82 | <= | 1.86 | 0.011 | 0.00 | 0.08 | 0.00 | 69.37 | 69.42 |
| 69.52 | 125.06 | 4.4544 | 102.01 | 1.60 | 1.57% | 1.640 | 0.69 | 37.56 | 2.28 | 1.89 | 94 | 0.157 | 0.146 | 0.61 | 1.857 | 0.413 | 911.92 | 3.884 | 2.141E+05 | 2.141E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | | 0.36 | 0.49 | <= | 2.42 | 0.025 | 0.00 | 0.07 | 0.00 | 69.42 | 69.52 |
| 69.56 | 125.21 | 4.4569 | 98.79 | 1.65 | 1.67% | 1.749 | 0.70 | 36.30 | 2.31 | 1.99 | 95 | 0.160 | 0.153 | 0.61 | 1.858 | 0.412 | 917.13 | 3.889 | 2.163E+05 | 2.163E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | | 0.37 | 0.51 | <= | 2.41 | 0.010 | 0.00 | 0.04 | 0.00 | 69.52 | 69.56 |
| 69.65 | 126.66 | 4.4626 | 81.80 | 2.14 | 2.62% | 2.767 | 0.77 | 29.73 | 2.53 | 2.91 | 107 | 0.194 | 0.197 | 0.61 | 1.861 | 0.412 | 961.11 | 3.934 | 2.348E+05 | 2.348E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | | 0.48 | 0.66 | <= | 2.18 | 0.021 | 0.00 | 0.03 | 0.00 | 69.56 | 69.65 |
| 69.69 | 126.70 | 4.4651 | 71.07 | 2.25 | 3.17% | 3.378 | 0.80 | 25.59 | 2.64 | 3.60 | 119 | 0.237 | 0.237 | 0.61 | 1.862 | 0.412 | 969.59 | 3.935 | 2.389E+05 | 2.389E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.01 | 0.00 | | |
| 69.77 | 126.56 | 4.4702 | 58.57 | 2.36 | 4.03% | 4.362 | 0.85 | 20.76 | 2.80 | 4.78 | 158 | 0.444 | 0.444 | 0.61 | 1.865 | 0.411 | 977.67 | 3.930 | 2.432E+05 | 2.432E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.01 | 0.00 | | |
| 69.82 | 87.42 | 4.4724 | 51.74 | 0.00 | 0.00% | 0.002 | 0.78 | 18.14 | 2.57 | 3.17 | 105 | 0.187 | 0.187 | 0.61 | 1.866 | 0.411 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.407 | | 0.46 | 0.63 | <= | 2.22 | 0.013 | 0.00 | 0.01 | 0.00 | 69.77 | 69.82 |
| 69.92 | 87.42 | 4.4767 | 41.10 | 0.00 | 0.00% | 0.003 | 0.79 | 14.05 | 2.61 | 3.40 | 112 | 0.211 | 0.211 | 0.61 | 1.870 | 0.411 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.407 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.97 | 87.42 | 4.4789 | 36.80 | 0.00 | 0.00% | 0.003 | 0.80 | 12.39 | 2.63 | 3.54 | 117 | 0.228 | 0.228 | 0.61 | 1.871 | 0.411 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.02 | 87.42 | 4.4811 | 34.07 | 0.00 | 0.00% | 0.003 | 0.80 | 11.34 | 2.65 | 3.65 | 120 | 0.243 | 0.243 | 0.61 | 1.873 | 0.411 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.10 | 87.42 | 4.4846 | 33.97 | 0.00 | 0.00% | 0.003 | 0.80 | 11.30 | 2.65 | 3.66 | 121 | 0.243 | 0.243 | 0.61 | 1.875 | 0.410 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.15 | 87.42 | 4.4868 | 40.51 | 0.00 | 0.00% | 0.003 | 0.79 | 13.80 | 2.61 | 3.42 | 113 | 0.213 | 0.213 | 0.61 | 1.877 | 0.410 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |

a. Per $(N1)_{60CS}$ improvement correlation stipulated in Shenthan et.al (2006).

b. Vs = 118.8 $\log_{10}$ (fs) + 18.5; Vs in m/sec and fs in kilopascals.

c. Per the Rrd - Ar correlation stipulated in Rayamajhi et.al (2012)

d. CSR*= CSR x Rrd

| Total Wet Settlement (in) | 4.16 | Total Wet Settlement with Vibro Stone Columns within 50' Depth (in) | 2.33 |
|---|---|---|---|
| | | Total Dry Settlement with Vibro Stone Columns (in) * | 0.32 |

* Based on 5 ft OX

**LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA** | **TEST LOCATION:** CPT-4

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

**Project No.:** 7109.23

**D (ft):** 1 | **Magnitude:** 6.62 | **Magnitude Scaling Factor:** 1.38

**Groundwater Level:** 10 feet | **Accleration:** 0.606 g's

**Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular):** 2

**Discrete Column Spacing (ft):** 8.0 | **Unit Tributary Area, A (ft²):** 45.83 | **Discrete Column Shear Modulus, $G_G$ (psf):** 2,030,000

**Discrete Coumn Dia. (ft):** 3.0 | **Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft²):** 7.07 | **$A_R = A_{sc}/A$:** 0.154 | **Assumed Discrete Column Density (pcf):** 130.00

**Discrete Coumn Intalled Depth (ft):** from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.08 | 107.67 | 0.0043 | 12.7 | 0.3 | 2.36% | 2.363 | 0.58 | 2947.83 | 1.89 | 1.18 | ######### | # | # | 1.00 | 0.000 | 0.394 | 628.75 | 3.344 | 1.182E+05 | 1.182E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 19.63 | **27.01** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.13 | 109.47 | 0.0071 | 17.29 | 0.34 | 1.97% | 1.967 | 0.56 | 2428.89 | 1.84 | 1.14 | 227 | 1.169 | 5.697 | 1.00 | 0.000 | 0.394 | 649.92 | 3.400 | 1.242E+05 | 1.242E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 14.62 | **20.12** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.22 | 112.33 | 0.0122 | 24.91 | 0.45 | 1.81% | 1.807 | 0.55 | 2045.77 | 1.80 | 1.11 | 222 | 1.093 | 3.895 | 1.00 | 0.000 | 0.394 | 697.34 | 3.489 | 1.394E+05 | 1.394E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 10.00 | **13.76** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.27 | 113.36 | 0.0150 | 29.98 | 0.49 | 1.63% | 1.635 | 0.54 | 1997.08 | 1.76 | 1.08 | 216 | 1.016 | 3.164 | 1.00 | 0.000 | 0.394 | 711.74 | 3.520 | 1.439E+05 | 1.439E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 8.12 | **11.18** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.34 | 114.58 | 0.0190 | 32.82 | 0.56 | 1.71% | 1.707 | 0.54 | 1725.03 | 1.78 | 1.09 | 219 | 1.050 | 3.271 | 1.00 | 0.000 | 0.394 | 734.33 | 3.558 | 1.515E+05 | 1.515E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 8.40 | **11.56** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.40 | 115.28 | 0.0225 | 33.79 | 0.61 | 1.81% | 1.806 | 0.55 | 1502.58 | 1.81 | 1.11 | 222 | 1.104 | 3.033 | 1.00 | 0.000 | 0.394 | 748.80 | 3.580 | 1.566E+05 | 1.566E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 7.79 | **10.72** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.49 | 116.08 | 0.0277 | 33.70 | 0.68 | 2.02% | 2.019 | 0.57 | 1215.75 | 1.86 | 1.16 | 231 | 1.227 | 3.369 | 1.00 | 0.000 | 0.393 | 767.17 | 3.605 | 1.633E+05 | 1.633E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 8.66 | **11.91** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.53 | 116.61 | 0.0300 | 33.60 | 0.73 | 2.17% | 2.175 | 0.58 | 1117.92 | 1.89 | 1.18 | 236 | 1.308 | 3.594 | 1.00 | 0.000 | 0.393 | 779.18 | 3.621 | 1.676E+05 | 1.676E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 9.23 | **12.70** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.61 | 117.14 | 0.0347 | 33.31 | 0.79 | 2.37% | 2.374 | 0.59 | 958.54 | 1.94 | 1.22 | 245 | 1.446 | 3.972 | 1.00 | 0.000 | 0.393 | 792.54 | 3.638 | 1.727E+05 | 1.727E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 10.21 | **14.04** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.66 | 117.32 | 0.0376 | 32.82 | 0.81 | 2.47% | 2.471 | 0.60 | 870.77 | 1.96 | 1.25 | 250 | 1.536 | 4.217 | 1.00 | 0.000 | 0.393 | 796.77 | 3.643 | 1.742E+05 | 1.742E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 10.84 | **14.91** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.72 | 117.54 | 0.0412 | 30.96 | 0.85 | 2.75% | 2.749 | 0.61 | 750.94 | 2.01 | 1.32 | 263 | 1.779 | 4.886 | 1.00 | 0.000 | 0.393 | 804.92 | 3.650 | 1.775E+05 | 1.775E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 12.56 | **17.28** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.80 | 118.27 | 0.0459 | 30.96 | 0.94 | 3.04% | 3.041 | 0.62 | 673.44 | 2.06 | 1.38 | 276 | 2.032 | 5.582 | 1.00 | 0.000 | 0.393 | 821.95 | 3.673 | 1.839E+05 | 1.839E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 14.35 | **19.75** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.89 | 116.28 | 0.0511 | 32.04 | 0.71 | 2.22% | 2.220 | 0.60 | 625.55 | 1.97 | 1.26 | 237 | 1.316 | 3.614 | 1.00 | 0.000 | 0.393 | 774.48 | 3.611 | 1.661E+05 | 1.661E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 9.29 | **12.78** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 0.93 | 115.19 | 0.0534 | 32.43 | 0.61 | 1.88% | 1.884 | 0.59 | 605.84 | 1.93 | 1.22 | 217 | 1.026 | 2.818 | 1.00 | 0.000 | 0.393 | 748.80 | 3.577 | 1.567E+05 | 1.567E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 7.25 | **9.97** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.01 | 116.01 | 0.0581 | 34.48 | 0.67 | 1.94% | 1.946 | 0.59 | 592.65 | 1.94 | 1.22 | 222 | 1.093 | 2.665 | 1.00 | 0.000 | 0.393 | 764.67 | 3.603 | 1.623E+05 | 1.623E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 6.85 | **9.43** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.07 | 116.52 | 0.0616 | 33.40 | 0.72 | 2.16% | 2.160 | 0.60 | 541.41 | 1.98 | 1.27 | 224 | 1.123 | 2.738 | 1.00 | 0.000 | 0.393 | 776.84 | 3.619 | 1.668E+05 | 1.668E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 7.04 | **9.69** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.12 | 116.88 | 0.0645 | 31.94 | 0.77 | 2.41% | 2.416 | 0.62 | 494.20 | 2.03 | 1.34 | 227 | 1.169 | 3.211 | 1.00 | 0.000 | 0.393 | 788.20 | 3.630 | 1.712E+05 | 1.712E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 8.26 | **11.37** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.19 | 116.70 | 0.0686 | 26.27 | 0.80 | 3.05% | 3.053 | 0.65 | 382.04 | 2.14 | 1.54 | 228 | 1.181 | 3.677 | 1.00 | 0.000 | 0.393 | 794.67 | 3.624 | 1.742E+05 | 1.742E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 9.46 | **13.02** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.27 | 117.13 | 0.0733 | 29.20 | 0.82 | 2.81% | 2.815 | 0.64 | 397.53 | 2.11 | 1.47 | 225 | 1.133 | 3.113 | 1.00 | 0.000 | 0.393 | 798.84 | 3.638 | 1.754E+05 | 1.754E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 8.01 | **11.02** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.33 | 117.32 | 0.0768 | 29.20 | 0.84 | 2.88% | 2.884 | 0.64 | 379.27 | 2.12 | 1.49 | 224 | 1.126 | 3.093 | 1.00 | 0.000 | 0.393 | 802.92 | 3.643 | 1.769E+05 | 1.769E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 7.96 | **10.95** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.42 | 117.63 | 0.0821 | 29.50 | 0.88 | 2.98% | 2.991 | 0.65 | 358.40 | 2.14 | 1.53 | 225 | 1.138 | 3.126 | 1.00 | 0.000 | 0.393 | 810.79 | 3.653 | 1.800E+05 | 1.800E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 8.05 | **11.07** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.45 | 117.47 | 0.0838 | 29.40 | 0.86 | 2.93% | 2.934 | 0.65 | 349.65 | 2.14 | 1.52 | 220 | 1.074 | 2.949 | 1.00 | 0.000 | 0.393 | 806.90 | 3.648 | 1.785E+05 | 1.785E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 7.59 | **10.45** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.52 | 117.22 | 0.0879 | 31.06 | 0.81 | 2.61% | 2.615 | 0.64 | 352.17 | 2.10 | 1.45 | 209 | 0.927 | 2.261 | 1.00 | 0.000 | 0.392 | 796.77 | 3.640 | 1.744E+05 | 1.744E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 5.82 | **8.01** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.60 | 116.42 | 0.0926 | 33.60 | 0.71 | 2.11% | 2.119 | 0.62 | 361.84 | 2.03 | 1.34 | 192 | 0.737 | 1.797 | 1.00 | 0.000 | 0.392 | 774.48 | 3.616 | 1.659E+05 | 1.659E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 4.63 | **6.37** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.64 | 116.04 | 0.0949 | 35.36 | 0.66 | 1.87% | 1.872 | 0.60 | 371.51 | 1.99 | 1.28 | 185 | 0.667 | 1.625 | 1.00 | 0.000 | 0.392 | 762.12 | 3.604 | 1.612E+05 | 1.612E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 4.19 | **5.76** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.72 | 115.16 | 0.0995 | 38.97 | 0.57 | 1.46% | 1.466 | 0.58 | 390.54 | 1.91 | 1.19 | 174 | 0.569 | 1.386 | 1.00 | 0.000 | 0.392 | 737.33 | 3.576 | 1.520E+05 | 1.520E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 3.57 | **4.91** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.77 | 114.62 | 0.1024 | 43.76 | 0.51 | 1.17% | 1.168 | 0.55 | 426.36 | 1.82 | 1.12 | 170 | 0.541 | 1.174 | 1.00 | 0.000 | 0.392 | 718.51 | 3.560 | 1.450E+05 | 1.450E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 3.02 | **4.16** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.86 | 113.21 | 0.1075 | 49.52 | 0.40 | 0.81% | 0.810 | 0.52 | 459.69 | 1.71 | 1.04 | 161 | 0.470 | 0.908 | 1.00 | 0.000 | 0.392 | 677.41 | 3.516 | 1.305E+05 | 1.305E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.91 | 112.47 | 0.1103 | 52.84 | 0.36 | 0.68% | 0.683 | 0.50 | 478.05 | 1.65 | 1.01 | 158 | 0.447 | 0.864 | 1.00 | 0.000 | 0.392 | 659.59 | 3.493 | 1.246E+05 | 1.246E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.23 | **3.06** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 1.99 | 111.98 | 0.1148 | 56.45 | 0.33 | 0.58% | 0.586 | 0.50 | 490.81 | 1.60 | 1.00 | 163 | 0.483 | 0.934 | 1.00 | 0.000 | 0.392 | 644.87 | 3.478 | 1.196E+05 | 1.196E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.41 | **3.31** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.04 | 111.88 | 0.1176 | 58.41 | 0.32 | 0.55% | 0.549 | 0.50 | 495.78 | 1.57 | 1.00 | 167 | 0.511 | 0.874 | 1.00 | 0.000 | 0.392 | 639.67 | 3.475 | 1.178E+05 | 1.178E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.25 | **3.10** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.12 | 111.96 | 0.1221 | 60.46 | 0.32 | 0.53% | 0.530 | 0.50 | 494.34 | 1.56 | 1.00 | 169 | 0.532 | 0.910 | 0.99 | 0.000 | 0.392 | 639.67 | 3.477 | 1.177E+05 | 1.177E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.35 | **3.23** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.17 | 111.99 | 0.1249 | 61.14 | 0.32 | 0.52% | 0.524 | 0.50 | 488.68 | 1.56 | 1.00 | 169 | 0.531 | 0.909 | 0.99 | 0.000 | 0.392 | 639.67 | 3.478 | 1.176E+05 | 1.176E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.34 | **3.23** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.27 | 112.02 | 0.1305 | 61.34 | 0.32 | 0.52% | 0.523 | 0.50 | 469.19 | 1.56 | 1.00 | 166 | 0.507 | 0.867 | 0.99 | 0.000 | 0.392 | 639.67 | 3.479 | 1.176E+05 | 1.176E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.24 | **3.08** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.31 | 112.04 | 0.1327 | 61.14 | 0.32 | 0.52% | 0.525 | 0.50 | 459.74 | 1.57 | 1.00 | 164 | 0.492 | 0.841 | 0.99 | 0.000 | 0.392 | 639.67 | 3.480 | 1.176E+05 | 1.176E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 2.17 | **2.99** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.37 | 112.17 | 0.1361 | 59.68 | 0.33 | 0.55% | 0.554 | 0.50 | 437.62 | 1.59 | 1.00 | 158 | 0.449 | 0.768 | 0.99 | 0.000 | 0.392 | 644.87 | 3.484 | 1.194E+05 | 1.194E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 1.98 | **2.73** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.44 | 112.17 | 0.1400 | 57.53 | 0.33 | 0.57% | 0.575 | 0.50 | 409.96 | 1.62 | 1.00 | 150 | 0.396 | 0.678 | 0.99 | 0.000 | 0.392 | 644.87 | 3.484 | 1.194E+05 | 1.194E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.75 | **2.41** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.49 | 112.12 | 0.1428 | 54.69 | 0.34 | 0.62% | 0.623 | 0.51 | 382.00 | 1.66 | 1.01 | 145 | 0.362 | 0.700 | 0.99 | 0.000 | 0.392 | 649.92 | 3.482 | 1.213E+05 | 1.213E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.81 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.58 | 111.88 | 0.1478 | 50.89 | 0.33 | 0.65% | 0.650 | 0.52 | 343.25 | 1.70 | 1.03 | 138 | 0.326 | 0.630 | 0.99 | 0.000 | 0.391 | 644.87 | 3.475 | 1.197E+05 | 1.197E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.63 | **2.24** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.66 | 111.50 | 0.1523 | 46.10 | 0.33 | 0.72% | 0.718 | 0.53 | 301.72 | 1.75 | 1.07 | 132 | 0.293 | 0.636 | 0.99 | 0.000 | 0.391 | 644.87 | 3.463 | 1.201E+05 | 1.201E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.64 | **2.26** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.71 | 111.19 | 0.1551 | 42.88 | 0.32 | 0.75% | 0.749 | 0.54 | 275.53 | 1.78 | 1.09 | 126 | 0.268 | 0.581 | 0.99 | 0.000 | 0.391 | 639.67 | 3.453 | 1.185E+05 | 1.185E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.50 | **2.06** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.76 | 110.82 | 0.1578 | 39.65 | 0.31 | 0.78% | 0.785 | 0.55 | 250.21 | 1.82 | 1.12 | 121 | 0.244 | 0.595 | 0.99 | 0.000 | 0.391 | 634.30 | 3.442 | 1.169E+05 | 1.169E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.54 | **2.12** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.84 | 110.04 | 0.1622 | 35.26 | 0.29 | 0.82% | 0.826 | 0.57 | 216.33 | 1.87 | 1.16 | 113 | 0.213 | 0.585 | 0.99 | 0.000 | 0.391 | 623.01 | 3.417 | 1.136E+05 | 1.136E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.51 | **2.08** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.89 | 109.54 | 0.1650 | 32.62 | 0.28 | 0.86% | 0.863 | 0.58 | 196.72 | 1.90 | 1.19 | 108 | 0.197 | 0.542 | 0.99 | 0.000 | 0.391 | 617.08 | 3.402 | 1.119E+05 | 1.119E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.40 | **1.93** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 2.96 | 108.63 | 0.1688 | 29.30 | 0.26 | 0.89% | 0.893 | 0.59 | 172.60 | 1.95 | 1.24 | 102 | 0.178 | 0.553 | 0.99 | 0.000 | 0.391 | 604.54 | 3.374 | 1.083E+05 | 1.083E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.43 | **1.97** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.02 | 107.94 | 0.1720 | 27.15 | 0.24 | 0.88% | 0.890 | 0.60 | 156.83 | 1.97 | 1.26 | 96 | 0.164 | 0.509 | 0.99 | 0.000 | 0.391 | 591.00 | 3.352 | 1.042E+05 | 1.042E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.32 | **1.81** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.11 | 107.45 | 0.1769 | 25.98 | 0.23 | 0.89% | 0.891 | 0.61 | 145.90 | 1.99 | 1.29 | 93 | 0.156 | 0.484 | 0.99 | 0.000 | 0.391 | 583.80 | 3.337 | 1.021E+05 | 1.021E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.25 | **1.72** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.16 | 107.30 | 0.1795 | 25.39 | 0.22 | 0.87% | 0.873 | 0.61 | 140.42 | 2.00 | 1.29 | 91 | 0.150 | 0.468 | 0.99 | 0.000 | 0.391 | 576.28 | 3.332 | 9.966E+04 | 9.966E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.21 | **1.66** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.25 | 107.28 | 0.1844 | 25.93 | 0.22 | 0.85% | 0.855 | 0.60 | 139.65 | 1.99 | 1.29 | 91 | 0.149 | 0.465 | 0.99 | 0.000 | 0.391 | 576.28 | 3.332 | 9.968E+04 | 9.968E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.20 | **1.65** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.29 | 107.03 | 0.1865 | 25.49 | 0.22 | 0.86% | 0.869 | 0.61 | 135.67 | 2.00 | 1.30 | 90 | 0.148 | 0.460 | 0.99 | 0.000 | 0.391 | 576.28 | 3.324 | 9.991E+04 | 9.991E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.19 | **1.64** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.35 | 105.24 | 0.1897 | 25.88 | 0.17 | 0.66% | 0.662 | 0.59 | 135.45 | 1.94 | 1.23 | 83 | 0.134 | 0.476 | 0.99 | 0.000 | 0.391 | 532.67 | 3.268 | 8.681E+04 | 8.681E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.23 | **1.69** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.42 | 99.82 | 0.1932 | 26.57 | 0.08 | 0.30% | 0.303 | 0.55 | 136.56 | 1.81 | 1.11 | 71 | 0.113 | 0.404 | 0.99 | 0.000 | 0.391 | 405.16 | 3.100 | 5.295E+04 | 5.295E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.05 | **1.44** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.50 | 100.79 | 0.1972 | 27.15 | 0.09 | 0.33% | 0.334 | 0.55 | 136.69 | 1.82 | 1.12 | 73 | 0.116 | 0.413 | 0.99 | 0.000 | 0.391 | 425.08 | 3.130 | 5.773E+04 | 5.773E+04 | 1.00 | 0.1542 | 0.989 | 0.387 | | 1.07 | **1.47** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.56 | 101.48 | 0.2002 | 27.45 | 0.10 | 0.36% | 0.367 | 0.56 | 136.09 | 1.83 | 1.13 | 74 | 0.118 | 0.420 | 0.99 | 0.000 | 0.391 | 442.91 | 3.152 | 6.224E+04 | 6.224E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.09 | **1.50** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.65 | 102.67 | 0.2049 | 30.18 | 0.11 | 0.36% | 0.367 | 0.55 | 146.33 | 1.80 | 1.11 | 78 | 0.124 | 0.386 | 0.99 | 0.000 | 0.390 | 459.03 | 3.189 | 6.608E+04 | 6.608E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.00 | **1.38** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.69 | 103.23 | 0.2069 | 32.62 | 0.12 | 0.37% | 0.370 | 0.54 | 156.65 | 1.78 | 1.09 | 82 | 0.131 | 0.407 | 0.99 | 0.000 | 0.390 | 473.75 | 3.206 | 7.001E+04 | 7.001E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.05 | **1.45** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.75 | 103.49 | 0.2100 | 31.16 | 0.12 | 0.39% | 0.388 | 0.55 | 147.37 | 1.81 | 1.11 | 80 | 0.127 | 0.395 | 0.99 | 0.000 | 0.390 | 473.75 | 3.214 | 6.983E+04 | 6.983E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.02 | **1.41** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.81 | 104.59 | 0.2132 | 36.04 | 0.14 | 0.39% | 0.391 | 0.54 | 168.08 | 1.76 | 1.08 | 87 | 0.141 | 0.388 | 0.99 | 0.000 | 0.390 | 499.82 | 3.248 | 7.691E+04 | 7.691E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.01 | **1.38** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.88 | 105.71 | 0.2169 | 40.83 | 0.15 | 0.37% | 0.369 | 0.52 | 187.28 | 1.71 | 1.05 | 93 | 0.154 | 0.376 | 0.99 | 0.000 | 0.390 | 511.49 | 3.283 | 7.969E+04 | 7.969E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 0.97 | **1.34** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 3.96 | 106.82 | 0.2211 | 45.12 | 0.17 | 0.38% | 0.379 | 0.51 | 203.04 | 1.69 | 1.03 | 99 | 0.169 | 0.368 | 0.99 | 0.000 | 0.390 | 532.67 | 3.317 | 8.553E+04 | 8.553E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 0.95 | **1.31** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.01 | 107.35 | 0.2238 | 47.96 | 0.18 | 0.38% | 0.377 | 0.51 | 213.29 | 1.67 | 1.02 | 102 | 0.179 | 0.389 | 0.99 | 0.000 | 0.390 | 542.34 | 3.334 | 8.822E+04 | 8.822E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.01 | **1.39** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.11 | 108.02 | 0.2292 | 51.76 | 0.20 | 0.39% | 0.388 | 0.50 | 224.81 | 1.65 | 1.01 | 107 | 0.194 | 0.375 | 0.99 | 0.000 | 0.390 | 560.16 | 3.355 | 9.354E+04 | 9.354E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 0.97 | **1.34** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.14 | 108.20 | 0.2308 | 53.03 | 0.20 | 0.38% | 0.379 | 0.50 | 228.73 | 1.64 | 1.00 | 108 | 0.197 | 0.380 | 0.99 | 0.000 | 0.390 | 560.16 | 3.360 | 9.338E+04 | 9.338E+04 | 1.00 | 0.1542 | 0.989 | 0.386 | | 0.98 | **1.35** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.23 | 109.32 | 0.2358 | 57.04 | 0.23 | 0.40% | 0.405 | 0.50 | 240.94 | 1.64 | 1.00 | 115 | 0.220 | 0.377 | 0.99 | 0.000 | 0.390 | 583.80 | 3.395 | 1.004E+05 | 1.004E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 0.98 | **1.34** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.27 | 109.67 | 0.2380 | 58.50 | 0.24 | 0.41% | 0.412 | 0.50 | 244.85 | 1.63 | 1.00 | 117 | 0.229 | 0.392 | 0.99 | 0.000 | 0.390 | 591.00 | 3.406 | 1.026E+05 | 1.026E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.02 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.33 | 110.26 | 0.2413 | 62.22 | 0.25 | 0.40% | 0.403 | 0.50 | 256.90 | 1.61 | 1.00 | 124 | 0.256 | 0.383 | 0.99 | 0.000 | 0.390 | 597.91 | 3.424 | 1.044E+05 | 1.044E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.41 | 111.07 | 0.2457 | 65.73 | 0.27 | 0.41% | 0.412 | 0.50 | 266.52 | 1.59 | 1.00 | 130 | 0.282 | 0.421 | 0.99 | 0.000 | 0.390 | 610.93 | 3.449 | 1.082E+05 | 1.082E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.09 | **1.50** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.49 | 111.67 | 0.2502 | 69.15 | 0.29 | 0.42% | 0.421 | 0.50 | 275.41 | 1.58 | 1.00 | 135 | 0.309 | 0.391 | 0.99 | 0.000 | 0.390 | 623.01 | 3.468 | 1.119E+05 | 1.119E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.01 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.54 | 111.95 | 0.2530 | 70.81 | 0.30 | 0.42% | 0.425 | 0.50 | 278.92 | 1.58 | 1.00 | 138 | 0.322 | 0.408 | 0.99 | 0.000 | 0.390 | 628.75 | 3.477 | 1.137E+05 | 1.137E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.06 | **1.45** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.60 | 112.28 | 0.2563 | 72.76 | 0.31 | 0.43% | 0.428 | 0.50 | 282.85 | 1.57 | 1.00 | 140 | 0.338 | 0.427 | 0.99 | 0.000 | 0.390 | 634.30 | 3.487 | 1.154E+05 | 1.154E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.11 | **1.52** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.67 | 112.52 | 0.2603 | 73.94 | 0.32 | 0.43% | 0.434 | 0.50 | 283.09 | 1.57 | 1.00 | 142 | 0.344 | 0.344 | 0.99 | 0.000 | 0.390 | 639.67 | 3.494 | 1.171E+05 | 1.171E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 0.89 | **1.23** | <= | 0.25 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.73 | 112.82 | 0.2637 | 75.69 | 0.33 | 0.44% | 0.438 | 0.50 | 286.08 | 1.57 | 1.00 | 144 | 0.358 | 0.366 | 0.99 | 0.000 | 0.389 | 644.87 | 3.504 | 1.187E+05 | 1.187E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 0.95 | **1.31** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.80 | 113.15 | 0.2676 | 77.65 | 0.34 | 0.44% | 0.439 | 0.50 | 289.15 | 1.56 | 1.00 | 147 | 0.373 | 0.394 | 0.99 | 0.000 | 0.389 | 649.92 | 3.514 | 1.202E+05 | 1.202E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.02 | **1.41** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.90 | 113.62 | 0.2733 | 79.89 | 0.36 | 0.45% | 0.452 | 0.50 | 291.32 | 1.56 | 1.00 | 149 | 0.390 | 0.390 | 0.99 | 0.000 | 0.389 | 659.59 | 3.529 | 1.233E+05 | 1.233E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.01 | **1.39** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 4.94 | 113.86 | 0.2756 | 81.55 | 0.37 | 0.45% | 0.455 | 0.50 | 294.93 | 1.56 | 1.00 | 152 | 0.405 | 0.405 | 0.99 | 0.000 | 0.389 | 664.22 | 3.536 | 1.248E+05 | 1.248E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.05 | **1.45** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.03 | 129.31 | 0.2814 | 83.90 | 0.20 | 0.24% | 0.239 | 0.50 | 297.16 | 1.41 | 1.00 | 155 | 0.423 | 0.488 | 0.99 | 0.000 | 0.389 | 560.16 | 4.016 | 7.813E+04 | 2.030E+06 | 25.98 | 0.1542 | 0.881 | 0.343 | | 1.42 | **1.96** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.07 | 130.57 | 0.2840 | 85.56 | 0.23 | 0.27% | 0.270 | 0.50 | 300.26 | 1.43 | 1.00 | 157 | 0.439 | 0.439 | 0.99 | 0.000 | 0.389 | 583.80 | 4.055 | 8.405E+04 | 2.030E+06 | 24.15 | 0.1542 | 0.886 | 0.345 | | 1.27 | **1.75** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.13 | 131.79 | 0.2880 | 87.41 | 0.27 | 0.31% | 0.310 | 0.50 | 302.55 | 1.45 | 1.00 | 159 | 0.455 | 0.455 | 0.99 | 0.000 | 0.389 | 610.93 | 4.093 | 9.119E+04 | 2.030E+06 | 22.26 | 0.1542 | 0.891 | 0.347 | | 1.31 | **1.81** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.19 | 132.75 | 0.2919 | 88.78 | 0.31 | 0.35% | 0.350 | 0.50 | 303.10 | 1.48 | 1.00 | 161 | 0.465 | 0.465 | 0.99 | 0.000 | 0.389 | 634.30 | 4.123 | 9.759E+04 | 2.030E+06 | 20.80 | 0.1542 | 0.895 | 0.348 | | 1.34 | **1.84** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.30 | 133.85 | 0.2993 | 90.74 | 0.36 | 0.40% | 0.398 | 0.50 | 302.17 | 1.50 | 1.00 | 162 | 0.476 | 0.476 | 0.99 | 0.000 | 0.389 | 659.59 | 4.157 | 1.047E+05 | 2.030E+06 | 19.40 | 0.1542 | 0.898 | 0.349 | | 1.36 | **1.88** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.34 | 134.20 | 0.3020 | 90.93 | 0.37 | 0.41% | 0.408 | 0.50 | 300.10 | 1.51 | 1.00 | 162 | 0.473 | 0.473 | 0.99 | 0.000 | 0.389 | 664.22 | 4.168 | 1.059E+05 | 2.030E+06 | 19.18 | 0.1542 | 0.899 | 0.350 | | 1.35 | **1.86** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.38 | 134.49 | 0.3047 | 90.00 | 0.39 | 0.43% | 0.435 | 0.50 | 294.39 | 1.53 | 1.00 | 159 | 0.456 | 0.456 | 0.99 | 0.000 | 0.389 | 673.13 | 4.177 | 1.085E+05 | 2.030E+06 | 18.71 | 0.1542 | 0.900 | 0.350 | | 1.30 | **1.79** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.47 | 135.09 | 0.3108 | 90.93 | 0.42 | 0.46% | 0.463 | 0.50 | 291.61 | 1.55 | 1.00 | 159 | 0.457 | 0.457 | 0.99 | 0.000 | 0.389 | 685.67 | 4.195 | 1.121E+05 | 2.030E+06 | 18.12 | 0.1542 | 0.902 | 0.351 | | 1.30 | **1.79** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.52 | 135.29 | 0.3141 | 89.07 | 0.44 | 0.49% | 0.496 | 0.50 | 282.54 | 1.57 | 1.00 | 155 | 0.428 | 0.428 | 0.99 | 0.000 | 0.389 | 693.54 | 4.202 | 1.145E+05 | 2.030E+06 | 17.73 | 0.1542 | 0.903 | 0.351 | | 1.22 | **1.68** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.60 | 135.83 | 0.3196 | 90.93 | 0.47 | 0.52% | 0.519 | 0.50 | 283.54 | 1.58 | 1.00 | 157 | 0.441 | 0.441 | 0.99 | 0.000 | 0.389 | 704.69 | 4.218 | 1.177E+05 | 2.030E+06 | 17.24 | 0.1542 | 0.904 | 0.351 | | 1.26 | **1.73** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.65 | 136.18 | 0.3230 | 92.30 | 0.49 | 0.53% | 0.533 | 0.50 | 284.78 | 1.58 | 1.00 | 159 | 0.452 | 0.452 | 0.99 | 0.000 | 0.389 | 711.74 | 4.229 | 1.198E+05 | 2.030E+06 | 16.95 | 0.1542 | 0.905 | 0.352 | | 1.28 | **1.77** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.71 | 136.49 | 0.3271 | 95.52 | 0.50 | 0.52% | 0.525 | 0.50 | 291.05 | 1.57 | 1.00 | 163 | 0.484 | 0.484 | 0.99 | 0.000 | 0.389 | 715.16 | 4.239 | 1.207E+05 | 2.030E+06 | 16.82 | 0.1542 | 0.905 | 0.352 | | 1.38 | **1.90** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.79 | 136.99 | 0.3326 | 97.47 | 0.54 | 0.55% | 0.556 | 0.50 | 292.10 | 1.58 | 1.00 | 165 | 0.499 | 0.499 | 0.99 | 0.000 | 0.388 | 728.18 | 4.254 | 1.246E+05 | 2.030E+06 | 16.29 | 0.1542 | 0.906 | 0.352 | | 1.42 | **1.95** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.88 | 137.16 | 0.3387 | 99.62 | 0.54 | 0.54% | 0.544 | 0.50 | 293.10 | 1.57 | 1.00 | 167 | 0.515 | 0.515 | 0.99 | 0.000 | 0.388 | 728.18 | 4.260 | 1.245E+05 | 2.030E+06 | 16.31 | 0.1542 | 0.906 | 0.352 | | 1.46 | **2.01** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.93 | 137.23 | 0.3422 | 100.99 | 0.55 | 0.54% | 0.546 | 0.50 | 294.16 | 1.57 | 1.00 | 169 | 0.527 | 0.527 | 0.99 | 0.000 | 0.388 | 731.28 | 4.262 | 1.255E+05 | 2.030E+06 | 16.18 | 0.1542 | 0.907 | 0.352 | | 1.50 | **2.06** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 5.99 | 137.33 | 0.3463 | 102.36 | 0.55 | 0.54% | 0.539 | 0.50 | 294.60 | 1.56 | 1.00 | 170 | 0.537 | 0.537 | 0.99 | 0.000 | 0.388 | 731.28 | 4.265 | 1.254E+05 | 2.030E+06 | 16.19 | 0.1542 | 0.907 | 0.352 | | 1.53 | **2.10** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.05 | 137.48 | 0.3504 | 103.14 | 0.56 | 0.54% | 0.545 | 0.50 | 293.35 | 1.56 | 1.00 | 170 | 0.539 | 0.539 | 0.99 | 0.000 | 0.388 | 734.33 | 4.270 | 1.263E+05 | 2.030E+06 | 16.07 | 0.1542 | 0.907 | 0.352 | | 1.53 | **2.11** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.13 | 137.88 | 0.3559 | 105.09 | 0.59 | 0.56% | 0.563 | 0.50 | 294.27 | 1.57 | 1.00 | 172 | 0.554 | 0.554 | 0.99 | 0.000 | 0.388 | 743.16 | 4.282 | 1.290E+05 | 2.030E+06 | 15.74 | 0.1542 | 0.908 | 0.352 | | 1.57 | **2.17** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.18 | 138.44 | 0.3594 | 107.14 | 0.63 | 0.59% | 0.590 | 0.50 | 297.13 | 1.58 | 1.00 | 175 | 0.576 | 0.576 | 0.99 | 0.000 | 0.388 | 754.26 | 4.299 | 1.323E+05 | 2.030E+06 | 15.34 | 0.1542 | 0.909 | 0.353 | | 1.63 | **2.25** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.24 | 139.08 | 0.3635 | 109.59 | 0.68 | 0.62% | 0.623 | 0.50 | 300.45 | 1.59 | 1.00 | 178 | 0.601 | 0.601 | 0.99 | 0.000 | 0.388 | 767.17 | 4.319 | 1.363E+05 | 2.030E+06 | 14.90 | 0.1542 | 0.910 | 0.353 | | 1.70 | **2.34** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.33 | 139.62 | 0.3698 | 115.15 | 0.72 | 0.63% | 0.627 | 0.50 | 310.36 | 1.58 | 1.00 | 185 | 0.670 | 0.670 | 0.98 | 0.000 | 0.388 | 776.84 | 4.336 | 1.392E+05 | 2.030E+06 | 14.59 | 0.1542 | 0.911 | 0.353 | | 1.89 | **2.61** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.37 | 139.85 | 0.3726 | 118.08 | 0.74 | 0.63% | 0.629 | 0.50 | 315.88 | 1.57 | 1.00 | 189 | 0.709 | 0.709 | 0.98 | 0.000 | 0.388 | 781.48 | 4.343 | 1.406E+05 | 2.030E+06 | 14.44 | 0.1542 | 0.911 | 0.353 | | 2.01 | **2.76** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.46 | 139.92 | 0.3789 | 122.09 | 0.74 | 0.61% | 0.608 | 0.50 | 321.20 | 1.55 | 1.00 | 194 | 0.758 | 0.758 | 0.98 | 0.000 | 0.388 | 781.48 | 4.345 | 1.405E+05 | 2.030E+06 | 14.44 | 0.1542 | 0.911 | 0.353 | | 2.14 | **2.95** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.51 | 139.97 | 0.3824 | 124.82 | 0.74 | 0.59% | 0.595 | 0.50 | 325.39 | 1.54 | 1.00 | 197 | 0.794 | 0.794 | 0.98 | 0.000 | 0.388 | 781.48 | 4.347 | 1.405E+05 | 2.030E+06 | 14.45 | 0.1542 | 0.911 | 0.353 | | 2.25 | **3.09** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.59 | 140.07 | 0.3880 | 128.92 | 0.74 | 0.57% | 0.576 | 0.50 | 331.25 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.388 | 781.48 | 4.350 | 1.404E+05 | 2.030E+06 | 14.46 | 0.1542 | 0.911 | 0.353 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.64 | 140.11 | 0.3915 | 131.37 | 0.74 | 0.56% | 0.565 | 0.50 | 334.53 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.388 | 781.48 | 4.351 | 1.404E+05 | 2.030E+06 | 14.46 | 0.1542 | 0.911 | 0.353 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.71 | 140.22 | 0.3964 | 135.96 | 0.74 | 0.54% | 0.546 | 0.50 | 341.95 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.388 | 781.48 | 4.355 | 1.402E+05 | 2.030E+06 | 14.47 | 0.1542 | 0.911 | 0.353 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.77 | 140.42 | 0.4006 | 139.18 | 0.76 | 0.55% | 0.548 | 0.50 | 346.39 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.388 | 785.99 | 4.361 | 1.417E+05 | 2.030E+06 | 14.33 | 0.1542 | 0.911 | 0.353 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.86 | 140.84 | 0.4070 | 142.89 | 0.80 | 0.56% | 0.561 | 0.50 | 350.09 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 794.67 | 4.374 | 1.444E+05 | 2.030E+06 | 14.06 | 0.1542 | 0.912 | 0.353 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.90 | 140.91 | 0.4098 | 144.36 | 0.80 | 0.55% | 0.556 | 0.50 | 351.26 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 794.67 | 4.376 | 1.443E+05 | 2.030E+06 | 14.07 | 0.1542 | 0.912 | 0.353 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 6.97 | 141.05 | 0.4147 | 147.09 | 0.81 | 0.55% | 0.552 | 0.50 | 353.65 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 796.77 | 4.380 | 1.449E+05 | 2.030E+06 | 14.01 | 0.1542 | 0.912 | 0.353 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.04 | 141.20 | 0.4197 | 148.95 | 0.83 | 0.56% | 0.559 | 0.50 | 353.91 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 800.89 | 4.385 | 1.463E+05 | 2.030E+06 | 13.88 | 0.1542 | 0.912 | 0.353 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.09 | 141.41 | 0.4232 | 150.31 | 0.85 | 0.57% | 0.567 | 0.50 | 354.16 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 804.92 | 4.392 | 1.475E+05 | 2.030E+06 | 13.76 | 0.1542 | 0.913 | 0.354 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.16 | 141.65 | 0.4282 | 152.27 | 0.87 | 0.57% | 0.573 | 0.50 | 354.62 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 808.86 | 4.399 | 1.487E+05 | 2.030E+06 | 13.65 | 0.1542 | 0.913 | 0.354 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.22 | 141.83 | 0.4324 | 153.83 | 0.89 | 0.58% | 0.580 | 0.50 | 354.73 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 812.70 | 4.405 | 1.500E+05 | 2.030E+06 | 13.54 | 0.1542 | 0.913 | 0.354 | | 2.33 | **3.21** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.30 | 139.97 | 0.4380 | 154.32 | 0.69 | 0.45% | 0.448 | 0.50 | 351.30 | 1.41 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 769.64 | 4.347 | 1.363E+05 | 2.030E+06 | 14.90 | 0.1542 | 0.910 | 0.352 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.39 | 137.53 | 0.4442 | 155.20 | 0.49 | 0.32% | 0.317 | 0.50 | 348.38 | 1.33 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 711.74 | 4.271 | 1.186E+05 | 2.030E+06 | 17.12 | 0.1542 | 0.904 | 0.350 | | 2.35 | **3.24** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.42 | 137.99 | 0.4463 | 155.00 | 0.53 | 0.34% | 0.343 | 0.50 | 346.31 | 1.35 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 725.02 | 4.285 | 1.227E+05 | 2.030E+06 | 16.55 | 0.1542 | 0.906 | 0.350 | | 2.35 | **3.24** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.49 | 138.72 | 0.4511 | 155.25 | 0.58 | 0.37% | 0.375 | 0.50 | 343.12 | 1.37 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 740.27 | 4.308 | 1.272E+05 | 2.030E+06 | 15.96 | 0.1542 | 0.907 | 0.351 | | 2.35 | **3.23** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.57 | 139.35 | 0.4567 | 154.42 | 0.63 | 0.41% | 0.409 | 0.50 | 337.11 | 1.40 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 754.26 | 4.328 | 1.315E+05 | 2.030E+06 | 15.44 | 0.1542 | 0.908 | 0.351 | | 2.34 | **3.23** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.62 | 139.54 | 0.4602 | 155.29 | 0.65 | 0.42% | 0.420 | 0.50 | 336.43 | 1.40 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 759.54 | 4.334 | 1.331E+05 | 2.030E+06 | 15.25 | 0.1542 | 0.909 | 0.352 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.70 | 139.86 | 0.4658 | 147.09 | 0.69 | 0.47% | 0.471 | 0.50 | 314.78 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 769.64 | 4.343 | 1.364E+05 | 2.030E+06 | 14.89 | 0.1542 | 0.910 | 0.352 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.75 | 140.16 | 0.4693 | 150.22 | 0.71 | 0.47% | 0.474 | 0.50 | 319.09 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 774.48 | 4.353 | 1.378E+05 | 2.030E+06 | 14.73 | 0.1542 | 0.910 | 0.352 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.84 | 140.79 | 0.4756 | 151.49 | 0.78 | 0.51% | 0.517 | 0.50 | 317.50 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 790.38 | 4.372 | 1.429E+05 | 2.030E+06 | 14.21 | 0.1542 | 0.912 | 0.352 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.88 | 141.02 | 0.4785 | 151.49 | 0.80 | 0.53% | 0.530 | 0.50 | 315.62 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.387 | 794.67 | 4.380 | 1.442E+05 | 2.030E+06 | 14.08 | 0.1542 | 0.912 | 0.353 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 7.98 | 141.20 | 0.4855 | 151.49 | 0.82 | 0.54% | 0.543 | 0.50 | 311.01 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.386 | 798.84 | 4.385 | 1.455E+05 | 2.030E+06 | 13.95 | 0.1542 | 0.912 | 0.353 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.02 | 141.29 | 0.4883 | 152.46 | 0.83 | 0.54% | 0.546 | 0.50 | 311.20 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.386 | 800.89 | 4.388 | 1.462E+05 | 2.030E+06 | 13.89 | 0.1542 | 0.912 | 0.353 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.07 | 141.37 | 0.4919 | 152.75 | 0.84 | 0.55% | 0.552 | 0.50 | 309.54 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.386 | 802.92 | 4.390 | 1.468E+05 | 2.030E+06 | 13.82 | 0.1542 | 0.913 | 0.353 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.15 | 141.38 | 0.4975 | 150.31 | 0.84 | 0.56% | 0.561 | 0.50 | 301.11 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.386 | 802.92 | 4.391 | 1.468E+05 | 2.030E+06 | 13.83 | 0.1542 | 0.913 | 0.353 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.21 | 141.32 | 0.5018 | 147.48 | 0.84 | 0.57% | 0.572 | 0.50 | 292.92 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.98 | 0.000 | 0.386 | 802.92 | 4.389 | 1.469E+05 | 2.030E+06 | 13.82 | 0.1542 | 0.913 | 0.352 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.27 | 141.22 | 0.5060 | 144.16 | 0.84 | 0.58% | 0.585 | 0.50 | 283.89 | 1.53 | 1.00 | 198 | 0.802 | 0.802 | 0.98 | 0.000 | 0.386 | 802.92 | 4.386 | 1.470E+05 | 2.030E+06 | 13.81 | 0.1542 | 0.913 | 0.352 | | 2.28 | **3.13** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.34 | 141.08 | 0.5110 | 141.23 | 0.83 | 0.59% | 0.590 | 0.50 | 275.41 | 1.54 | 1.00 | 193 | 0.749 | 0.749 | 0.98 | 0.000 | 0.386 | 800.89 | 4.381 | 1.464E+05 | 2.030E+06 | 13.87 | 0.1542 | 0.913 | 0.352 | | 2.13 | **2.92** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.40 | 141.04 | 0.5152 | 137.81 | 0.83 | 0.60% | 0.605 | 0.50 | 266.50 | 1.56 | 1.00 | 188 | 0.694 | 0.694 | 0.98 | 0.000 | 0.386 | 800.89 | 4.380 | 1.464E+05 | 2.030E+06 | 13.86 | 0.1542 | 0.913 | 0.352 | | 1.97 | **2.71** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.47 | 141.01 | 0.5201 | 135.86 | 0.83 | 0.61% | 0.613 | 0.50 | 260.21 | 1.57 | 1.00 | 184 | 0.660 | 0.660 | 0.98 | 0.000 | 0.386 | 800.89 | 4.379 | 1.465E+05 | 2.030E+06 | 13.86 | 0.1542 | 0.913 | 0.352 | | 1.87 | **2.58** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.56 | 141.01 | 0.5265 | 134.88 | 0.83 | 0.62% | 0.618 | 0.50 | 255.20 | 1.58 | 1.00 | 182 | 0.637 | 0.637 | 0.98 | 0.000 | 0.386 | 800.89 | 4.379 | 1.465E+05 | 2.030E+06 | 13.86 | 0.1542 | 0.913 | 0.352 | | 1.81 | **2.49** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.61 | 141.04 | 0.5300 | 134.59 | 0.84 | 0.62% | 0.627 | 0.50 | 252.95 | 1.58 | 1.00 | 181 | 0.628 | 0.628 | 0.98 | 0.000 | 0.386 | 802.92 | 4.380 | 1.472E+05 | 2.030E+06 | 13.79 | 0.1542 | 0.913 | 0.352 | | 1.78 | **2.45** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.69 | 141.12 | 0.5356 | 133.61 | 0.85 | 0.64% | 0.639 | 0.50 | 248.44 | 1.59 | 1.00 | 178 | 0.607 | 0.607 | 0.98 | 0.000 | 0.386 | 804.92 | 4.383 | 1.478E+05 | 2.030E+06 | 13.73 | 0.1542 | 0.913 | 0.352 | | 1.72 | **2.37** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.74 | 141.21 | 0.5392 | 134.30 | 0.86 | 0.64% | 0.643 | 0.50 | 248.09 | 1.59 | 1.00 | 179 | 0.610 | 0.610 | 0.98 | 0.000 | 0.386 | 806.90 | 4.385 | 1.485E+05 | 2.030E+06 | 13.67 | 0.1542 | 0.913 | 0.352 | | 1.73 | **2.38** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.81 | 141.45 | 0.5441 | 133.61 | 0.89 | 0.67% | 0.669 | 0.50 | 244.55 | 1.61 | 1.00 | 177 | 0.595 | 0.595 | 0.98 | 0.000 | 0.386 | 812.70 | 4.393 | 1.504E+05 | 2.030E+06 | 13.50 | 0.1542 | 0.913 | 0.352 | | 1.69 | **2.32** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.86 | 141.55 | 0.5477 | 132.24 | 0.90 | 0.68% | 0.683 | 0.50 | 240.47 | 1.62 | 1.00 | 174 | 0.574 | 0.574 | 0.98 | 0.000 | 0.386 | 814.59 | 4.396 | 1.509E+05 | 2.030E+06 | 13.45 | 0.1542 | 0.914 | 0.352 | | 1.63 | **2.24** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 8.93 | 141.63 | 0.5526 | 130.39 | 0.92 | 0.71% | 0.709 | 0.50 | 234.95 | 1.64 | 1.00 | 171 | 0.547 | 0.547 | 0.98 | 0.000 | 0.386 | 818.31 | 4.398 | 1.522E+05 | 2.030E+06 | 13.33 | 0.1542 | 0.914 | 0.352 | | 1.55 | **2.14** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.01 | 141.81 | 0.5583 | 127.85 | 0.94 | 0.74% | 0.738 | 0.50 | 228.01 | 1.65 | 1.01 | 169 | 0.526 | 0.526 | 0.98 | 0.000 | 0.385 | 821.95 | 4.404 | 1.534E+05 | 2.030E+06 | 13.23 | 0.1542 | 0.914 | 0.352 | | 1.49 | **2.05** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.09 | 142.00 | 0.5640 | 126.09 | 0.97 | 0.77% | 0.773 | 0.51 | 222.58 | 1.67 | 1.02 | 168 | 0.521 | 0.521 | 0.98 | 0.000 | 0.385 | 827.26 | 4.410 | 1.552E+05 | 2.030E+06 | 13.08 | 0.1542 | 0.915 | 0.352 | | 1.48 | **2.03** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.14 | 142.00 | 0.5675 | 124.33 | 0.98 | 0.79% | 0.792 | 0.51 | 218.08 | 1.68 | 1.03 | 167 | 0.512 | 0.512 | 0.98 | 0.000 | 0.385 | 829.00 | 4.410 | 1.558E+05 | 2.030E+06 | 13.03 | 0.1542 | 0.915 | 0.352 | | 1.45 | **2.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.22 | 142.01 | 0.5732 | 123.26 | 0.98 | 0.80% | 0.799 | 0.52 | 214.04 | 1.69 | 1.03 | 165 | 0.501 | 0.501 | 0.98 | 0.000 | 0.385 | 829.00 | 4.410 | 1.558E+05 | 2.030E+06 | 13.03 | 0.1542 | 0.915 | 0.352 | | 1.42 | **1.96** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.27 | 142.06 | 0.5767 | 125.02 | 0.98 | 0.78% | 0.788 | 0.51 | 215.77 | 1.68 | 1.03 | 166 | 0.508 | 0.508 | 0.98 | 0.000 | 0.385 | 829.00 | 4.412 | 1.558E+05 | 2.030E+06 | 13.03 | 0.1542 | 0.915 | 0.352 | | 1.44 | **1.98** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.35 | 142.18 | 0.5824 | 129.61 | 0.99 | 0.76% | 0.767 | 0.51 | 221.53 | 1.67 | 1.02 | 169 | 0.530 | 0.530 | 0.98 | 0.000 | 0.385 | 830.71 | 4.416 | 1.563E+05 | 2.030E+06 | 12.99 | 0.1542 | 0.915 | 0.352 | | 1.50 | **2.07** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.41 | 142.22 | 0.5867 | 133.12 | 0.98 | 0.74% | 0.739 | 0.50 | 225.90 | 1.65 | 1.00 | 171 | 0.541 | 0.541 | 0.98 | 0.000 | 0.385 | 829.00 | 4.417 | 1.556E+05 | 2.030E+06 | 13.05 | 0.1542 | 0.915 | 0.352 | | 1.54 | **2.11** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.45 | 142.26 | 0.5895 | 137.42 | 0.98 | 0.71% | 0.716 | 0.50 | 232.10 | 1.63 | 1.00 | 175 | 0.576 | 0.576 | 0.98 | 0.000 | 0.385 | 829.00 | 4.418 | 1.556E+05 | 2.030E+06 | 13.05 | 0.1542 | 0.915 | 0.352 | | 1.64 | **2.25** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.54 | 142.38 | 0.5960 | 143.38 | 0.98 | 0.68% | 0.686 | 0.50 | 239.59 | 1.61 | 1.00 | 181 | 0.635 | 0.635 | 0.98 | 0.000 | 0.385 | 829.00 | 4.422 | 1.554E+05 | 2.030E+06 | 13.06 | 0.1542 | 0.915 | 0.352 | | 1.80 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.59 | 142.43 | 0.5995 | 146.70 | 0.98 | 0.67% | 0.671 | 0.50 | 243.70 | 1.59 | 1.00 | 185 | 0.669 | 0.669 | 0.98 | 0.000 | 0.385 | 829.00 | 4.423 | 1.554E+05 | 2.030E+06 | 13.07 | 0.1542 | 0.915 | 0.352 | | 1.90 | **2.62** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.67 | 142.52 | 0.6052 | 150.90 | 0.98 | 0.65% | 0.652 | 0.50 | 248.33 | 1.58 | 1.00 | 189 | 0.712 | 0.712 | 0.98 | 0.000 | 0.385 | 829.00 | 4.426 | 1.553E+05 | 2.030E+06 | 13.07 | 0.1542 | 0.915 | 0.352 | | 2.02 | **2.78** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.72 | 142.55 | 0.6088 | 153.15 | 0.98 | 0.64% | 0.642 | 0.50 | 250.57 | 1.57 | 1.00 | 192 | 0.735 | 0.735 | 0.98 | 0.000 | 0.385 | 829.00 | 4.427 | 1.552E+05 | 2.030E+06 | 13.08 | 0.1542 | 0.915 | 0.352 | | 2.09 | **2.87** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.81 | 142.74 | 0.6152 | 155.98 | 1.00 | 0.64% | 0.644 | 0.50 | 252.54 | 1.57 | 1.00 | 194 | 0.762 | 0.762 | 0.98 | 0.000 | 0.385 | 832.41 | 4.433 | 1.563E+05 | 2.030E+06 | 12.99 | 0.1542 | 0.915 | 0.352 | | 2.16 | **2.98** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.85 | 141.47 | 0.6180 | 156.56 | 0.84 | 0.54% | 0.539 | 0.50 | 252.32 | 1.52 | 1.00 | 195 | 0.764 | 0.764 | 0.98 | 0.000 | 0.385 | 802.92 | 4.393 | 1.467E+05 | 2.030E+06 | 13.83 | 0.1542 | 0.913 | 0.351 | | 2.18 | **3.00** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.92 | 136.52 | 0.6228 | 158.13 | 0.43 | 0.27% | 0.273 | 0.50 | 252.90 | 1.35 | 1.00 | 196 | 0.777 | 0.777 | 0.98 | 0.000 | 0.385 | 689.65 | 4.240 | 1.122E+05 | 2.030E+06 | 18.10 | 0.1542 | 0.902 | 0.347 | | 2.24 | **3.08** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 9.99 | 137.46 | 0.6276 | 158.52 | 0.49 | 0.31% | 0.310 | 0.50 | 251.57 | 1.38 | 1.00 | 195 | 0.774 | 0.774 | 0.98 | 0.000 | 0.385 | 711.74 | 4.269 | 1.187E+05 | 2.030E+06 | 17.11 | 0.1542 | 0.904 | 0.348 | | 2.23 | **3.06** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.05 | 138.34 | 0.6318 | 158.71 | 0.55 | 0.35% | 0.348 | 0.50 | 250.83 | 1.40 | 1.00 | 195 | 0.772 | 0.772 | 0.98 | 0.002 | 0.385 | 731.28 | 4.296 | 1.245E+05 | 2.030E+06 | 16.31 | 0.1542 | 0.906 | 0.349 | | 2.21 | **3.04** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.12 | 139.23 | 0.6366 | 159.01 | 0.62 | 0.39% | 0.391 | 0.50 | 250.24 | 1.43 | 1.00 | 195 | 0.772 | 0.772 | 0.98 | 0.004 | 0.387 | 751.55 | 4.324 | 1.306E+05 | 2.030E+06 | 15.54 | 0.1542 | 0.908 | 0.351 | | 2.20 | **3.02** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.18 | 139.69 | 0.6408 | 151.09 | 0.67 | 0.44% | 0.445 | 0.50 | 236.85 | 1.48 | 1.00 | 185 | 0.670 | 0.670 | 0.98 | 0.006 | 0.388 | 764.67 | 4.338 | 1.348E+05 | 2.030E+06 | 15.06 | 0.1542 | 0.909 | 0.353 | | 1.90 | **2.61** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.24 | 139.97 | 0.6450 | 144.26 | 0.70 | 0.49% | 0.487 | 0.50 | 225.26 | 1.52 | 1.00 | 176 | 0.590 | 0.590 | 0.98 | 0.007 | 0.389 | 772.08 | 4.347 | 1.371E+05 | 2.030E+06 | 14.80 | 0.1542 | 0.910 | 0.354 | | 1.67 | **2.29** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.32 | 140.72 | 0.6507 | 152.07 | 0.77 | 0.51% | 0.509 | 0.50 | 236.34 | 1.52 | 1.00 | 186 | 0.674 | 0.674 | 0.98 | 0.010 | 0.390 | 788.20 | 4.370 | 1.422E+05 | 2.030E+06 | 14.28 | 0.1542 | 0.911 | 0.356 | | 1.89 | **2.61** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.37 | 141.17 | 0.6542 | 152.46 | 0.82 | 0.54% | 0.540 | 0.50 | 236.22 | 1.53 | 1.00 | 186 | 0.675 | 0.675 | 0.98 | 0.012 | 0.391 | 798.84 | 4.384 | 1.456E+05 | 2.030E+06 | 13.95 | 0.1542 | 0.912 | 0.357 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.47 | 141.63 | 0.6613 | 152.85 | 0.87 | 0.57% | 0.572 | 0.50 | 235.36 | 1.55 | 1.00 | 186 | 0.674 | 0.674 | 0.98 | 0.015 | 0.393 | 808.86 | 4.398 | 1.487E+05 | 2.030E+06 | 13.65 | 0.1542 | 0.913 | 0.359 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.51 | 141.79 | 0.6641 | 152.75 | 0.89 | 0.58% | 0.585 | 0.50 | 234.63 | 1.56 | 1.00 | 185 | 0.671 | 0.671 | 0.98 | 0.016 | 0.394 | 812.70 | 4.403 | 1.500E+05 | 2.030E+06 | 13.53 | 0.1542 | 0.913 | 0.359 | | 1.87 | **2.57** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.58 | 142.00 | 0.6691 | 152.66 | 0.91 | 0.60% | 0.599 | 0.50 | 233.48 | 1.56 | 1.00 | 185 | 0.666 | 0.666 | 0.97 | 0.018 | 0.395 | 816.46 | 4.410 | 1.512E+05 | 2.030E+06 | 13.43 | 0.1542 | 0.914 | 0.361 | | 1.85 | **2.54** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.65 | 142.11 | 0.6741 | 152.56 | 0.93 | 0.61% | 0.612 | 0.50 | 232.32 | 1.57 | 1.00 | 184 | 0.661 | 0.661 | 0.97 | 0.020 | 0.396 | 820.14 | 4.413 | 1.524E+05 | 2.030E+06 | 13.32 | 0.1542 | 0.914 | 0.362 | | 1.83 | **2.51** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.71 | 142.15 | 0.6783 | 152.07 | 0.93 | 0.61% | 0.614 | 0.50 | 230.72 | 1.57 | 1.00 | 183 | 0.652 | 0.652 | 0.97 | 0.022 | 0.397 | 820.14 | 4.415 | 1.524E+05 | 2.030E+06 | 13.32 | 0.1542 | 0.914 | 0.363 | | 1.80 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.78 | 142.20 | 0.6833 | 151.78 | 0.94 | 0.62% | 0.622 | 0.50 | 229.30 | 1.58 | 1.00 | 183 | 0.645 | 0.645 | 0.97 | 0.024 | 0.398 | 821.95 | 4.416 | 1.530E+05 | 2.030E+06 | 13.27 | 0.1542 | 0.914 | 0.364 | | 1.77 | **2.44** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.83 | 142.23 | 0.6868 | 151.19 | 0.95 | 0.63% | 0.631 | 0.50 | 227.71 | 1.58 | 1.00 | 182 | 0.636 | 0.636 | 0.97 | 0.026 | 0.399 | 823.74 | 4.417 | 1.536E+05 | 2.030E+06 | 13.21 | 0.1542 | 0.914 | 0.365 | | 1.75 | **2.40** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.92 | 142.24 | 0.6932 | 148.95 | 0.95 | 0.64% | 0.641 | 0.50 | 223.09 | 1.59 | 1.00 | 178 | 0.607 | 0.607 | 0.97 | 0.029 | 0.400 | 823.74 | 4.417 | 1.536E+05 | 2.030E+06 | 13.22 | 0.1542 | 0.914 | 0.366 | | 1.66 | **2.28** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 10.96 | 142.23 | 0.6961 | 146.99 | 0.95 | 0.65% | 0.649 | 0.50 | 219.61 | 1.60 | 1.00 | 176 | 0.585 | 0.585 | 0.97 | 0.030 | 0.401 | 823.74 | 4.417 | 1.536E+05 | 2.030E+06 | 13.21 | 0.1542 | 0.914 | 0.367 | | 1.60 | **2.20** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 11.04 | 142.20 | 0.7018 | 145.53 | 0.95 | 0.65% | 0.656 | 0.50 | 216.38 | 1.61 | 1.00 | 174 | 0.566 | 0.566 | 0.97 | 0.032 | 0.402 | 823.74 | 4.416 | 1.536E+05 | 2.030E+06 | 13.21 | 0.1542 | 0.914 | 0.368 | | 1.54 | **2.12** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 11.10 | 142.16 | 0.7060 | 144.06 | 0.95 | 0.66% | 0.663 | 0.50 | 213.41 | 1.62 | 1.00 | 172 | 0.549 | 0.549 | 0.97 | 0.034 | 0.403 | 823.74 | 4.415 | 1.537E+05 | 2.030E+06 | 13.21 | 0.1542 | 0.914 | 0.369 | | 1.49 | **2.05** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 11.18 | 141.89 | 0.7117 | 139.28 | 0.93 | 0.67% | 0.671 | 0.50 | 205.31 | 1.63 | 1.00 | 165 | 0.501 | 0.501 | 0.97 | 0.037 | 0.404 | 820.14 | 4.407 | 1.526E+05 | 2.030E+06 | 13.30 | 0.1542 | 0.914 | 0.370 | | 1.35 | **1.86** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 11.23 | 141.71 | 0.7153 | 136.35 | 0.91 | 0.67% | 0.671 | 0.50 | 200.38 | 1.64 | 1.00 | 162 | 0.473 | 0.473 | 0.97 | 0.038 | 0.405 | 816.46 | 4.401 | 1.515E+05 | 2.030E+06 | 13.40 | 0.1542 | 0.914 | 0.370 | | 1.28 | **1.76** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 11.30 | 141.42 | 0.7202 | 131.17 | 0.89 | 0.68% | 0.682 | 0.51 | 191.94 | 1.66 | 1.01 | 157 | 0.438 | 0.438 | 0.97 | 0.041 | 0.406 | 812.70 | 4.392 | 1.504E+05 | 2.030E+06 | 13.50 | 0.1542 | 0.913 | 0.371 | | 1.18 | **1.62** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 11.36 | 141.11 | 0.7244 | 127.36 | 0.86 | 0.68% | 0.679 | 0.51 | 185.68 | 1.67 | 1.01 | 153 | 0.413 | 0.413 | 0.97 | 0.042 | 0.407 | 806.90 | 4.382 | 1.486E+05 | 2.030E+06 | 13.66 | 0.1542 | 0.913 | 0.372 | | 1.11 | **1.53** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 11.43 | 140.63 | 0.7294 | 119.65 | 0.82 | 0.69% | 0.690 | 0.52 | 173.67 | 1.69 | 1.03 | 146 | 0.371 | 0.371 | 0.97 | 0.045 | 0.408 | 798.84 | 4.367 | 1.461E+05 | 2.030E+06 | 13.89 | 0.1542 | 0.912 | 0.372 | | 1.00 | **1.37** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 11.49 | 139.03 | 0.7335 | 113.39 | 0.67 | 0.59% | 0.595 | 0.51 | 163.97 | 1.67 | 1.02 | 136 | 0.315 | 0.334 | 0.97 | 0.046 | 0.409 | 764.67 | 4.318 | 1.354E+05 | 2.030E+06 | 14.99 | 0.1542 | 0.910 | 0.372 | | 0.90 | **1.23** | <= | 0.26 | 0.002 | 0.00 | 3.56 | 0.00 | 11.43 | 11.49 |
| 11.55 | 133.02 | 0.7375 | 100.50 | 0.31 | 0.31% | 0.311 | 0.50 | 144.76 | 1.57 | 1.00 | 118 | 0.232 | 0.381 | 0.97 | 0.048 | 0.410 | 634.30 | 4.131 | 9.739E+04 | 2.030E+06 | 20.84 | 0.1542 | 0.895 | 0.367 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 11.63 | 132.90 | 0.7428 | 95.72 | 0.31 | 0.32% | 0.326 | 0.50 | 137.25 | 1.60 | 1.00 | 112 | 0.211 | 0.375 | 0.97 | 0.051 | 0.411 | 634.30 | 4.127 | 9.748E+04 | 2.030E+06 | 20.82 | 0.1542 | 0.895 | 0.368 | | 1.02 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 11.68 | 132.86 | 0.7462 | 94.15 | 0.31 | 0.33% | 0.332 | 0.50 | 134.64 | 1.61 | 1.00 | 110 | 0.204 | 0.364 | 0.97 | 0.052 | 0.412 | 634.30 | 4.126 | 9.751E+04 | 2.030E+06 | 20.82 | 0.1542 | 0.895 | 0.369 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 3.56 | 0.00 | | |
| 11.75 | 133.11 | 0.7508 | 91.91 | 0.32 | 0.35% | 0.351 | 0.50 | 130.93 | 1.63 | 1.00 | 107 | 0.194 | 0.348 | 0.97 | 0.055 | 0.413 | 639.67 | 4.134 | 9.898E+04 | 2.030E+06 | 20.51 | 0.1542 | 0.895 | 0.370 | | 0.94 | **1.29** | <= | 0.37 | 0.003 | 0.00 | 3.56 | 0.00 | 11.68 | 11.75 |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

TEST LOCATION: **CPT-4**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0
Unit Tributary Area, A (ft$^2$): 45.83
Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1
Magnitude: 6.62
Magnitude Scaling Factor: 1.38
Discrete Coumn Dia. (ft): 3.0
Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft$^2$): 7.07
$A_R = A_{sc}/A$: 0.154
Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet
Accleration: 0.606 g's
Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 a | rd | PORE PRESSURE (tsf) | CSR | Vs b (ft/sec) | ρ (lb-sec$^2$)/ft$^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) c | CSR* d | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.82 | 133.69 | 0.7555 | 85.27 | 0.36 | 0.42% | 0.426 | 0.52 | 120.96 | 1.70 | 1.04 | 104 | 0.183 | 0.354 | 0.97 | 0.057 | 0.414 | 659.59 | 4.152 | 1.048E+05 | 2.030E+06 | 19.37 | 0.1542 | 0.898 | 0.372 | | 0.95 | 1.31 | | 0.00 | 0.000 | 0.00 | 3.55 | 0.00 | | |
| 11.90 | 133.74 | 0.7609 | 54.89 | 0.42 | 0.77% | 0.776 | 0.60 | 77.15 | 1.99 | 1.29 | 85 | 0.137 | 0.352 | 0.97 | 0.059 | 0.415 | 685.67 | 4.153 | 1.132E+05 | 2.030E+06 | 17.93 | 0.1542 | 0.902 | 0.374 | | 0.94 | 1.29 | <= | 0.44 | 0.004 | 0.00 | 3.55 | 0.00 | 11.82 | 11.90 |
| 11.95 | 135.23 | 0.7642 | 67.88 | 0.47 | 0.69% | 0.700 | 0.58 | 95.42 | 1.89 | 1.18 | 95 | 0.161 | 0.359 | 0.97 | 0.061 | 0.416 | 704.69 | 4.200 | 1.182E+05 | 2.030E+06 | 17.17 | 0.1542 | 0.904 | 0.376 | | 0.96 | 1.32 | | 0.00 | 0.000 | 0.00 | 3.55 | 0.00 | | |
| 12.03 | 137.29 | 0.7697 | 63.29 | 0.64 | 1.01% | 1.024 | 0.61 | 88.51 | 2.01 | 1.31 | 100 | 0.173 | 0.387 | 0.97 | 0.063 | 0.417 | 756.92 | 4.264 | 1.344E+05 | 2.030E+06 | 15.11 | 0.1542 | 0.909 | 0.379 | | 1.02 | 1.40 | | 0.00 | 0.000 | 0.00 | 3.55 | 0.00 | | |
| 12.08 | 138.28 | 0.7732 | 58.80 | 0.76 | 1.29% | 1.310 | 0.64 | 81.93 | 2.10 | 1.45 | 103 | 0.183 | 0.411 | 0.97 | 0.065 | 0.418 | 785.99 | 4.294 | 1.439E+05 | 2.030E+06 | 14.11 | 0.1542 | 0.912 | 0.381 | | 1.08 | 1.48 | | 0.00 | 0.000 | 0.00 | 3.55 | 0.00 | | |
| 12.16 | 138.33 | 0.7787 | 50.30 | 0.80 | 1.59% | 1.615 | 0.67 | 69.62 | 2.21 | 1.68 | 103 | 0.183 | 0.441 | 0.97 | 0.067 | 0.419 | 794.67 | 4.296 | 1.470E+05 | 2.030E+06 | 13.81 | 0.1542 | 0.913 | 0.382 | | 1.15 | 1.59 | | 0.00 | 0.000 | 0.00 | 3.55 | 0.00 | | |
| 12.21 | 138.20 | 0.7822 | 46.88 | 0.81 | 1.73% | 1.757 | 0.68 | 64.63 | 2.25 | 1.81 | 104 | 0.183 | 0.476 | 0.97 | 0.069 | 0.419 | 796.77 | 4.292 | 1.479E+05 | 2.030E+06 | 13.72 | 0.1542 | 0.913 | 0.383 | | 1.24 | 1.71 | | 0.00 | 0.000 | 0.00 | 3.55 | 0.00 | | |
| 12.28 | 138.08 | 0.7870 | 45.42 | 0.80 | 1.76% | 1.792 | 0.69 | 62.35 | 2.27 | 1.85 | 103 | 0.181 | 0.471 | 0.97 | 0.071 | 0.420 | 794.67 | 4.288 | 1.473E+05 | 2.030E+06 | 13.78 | 0.1542 | 0.913 | 0.384 | | 1.23 | 1.69 | | 0.00 | 0.000 | 0.00 | 3.55 | 0.00 | | |
| 12.35 | 138.11 | 0.7918 | 46.49 | 0.80 | 1.72% | 1.751 | 0.68 | 63.60 | 2.26 | 1.82 | 103 | 0.181 | 0.471 | 0.97 | 0.073 | 0.421 | 794.67 | 4.289 | 1.472E+05 | 2.030E+06 | 13.79 | 0.1542 | 0.913 | 0.385 | | 1.23 | 1.69 | | 0.00 | 0.000 | 0.00 | 3.55 | 0.00 | | |
| 12.43 | 138.53 | 0.7974 | 59.38 | 0.78 | 1.31% | 1.331 | 0.64 | 81.19 | 2.10 | 1.46 | 104 | 0.184 | 0.418 | 0.97 | 0.076 | 0.422 | 790.38 | 4.302 | 1.452E+05 | 2.030E+06 | 13.98 | 0.1542 | 0.912 | 0.385 | | 1.09 | 1.49 | | 0.00 | 0.000 | 0.00 | 3.55 | 0.00 | | |
| 12.48 | 138.91 | 0.8009 | 72.67 | 0.77 | 1.06% | 1.071 | 0.60 | 99.34 | 1.98 | 1.27 | 110 | 0.202 | 0.400 | 0.97 | 0.077 | 0.423 | 788.20 | 4.314 | 1.440E+05 | 2.030E+06 | 14.10 | 0.1542 | 0.912 | 0.386 | | 1.04 | 1.43 | | 0.00 | 0.000 | 0.00 | 3.55 | 0.00 | | |
| 12.55 | 139.47 | 0.8057 | 94.93 | 0.76 | 0.80% | 0.807 | 0.55 | 129.62 | 1.82 | 1.12 | 124 | 0.256 | 0.371 | 0.97 | 0.080 | 0.424 | 785.99 | 4.331 | 1.426E+05 | 2.030E+06 | 14.23 | 0.1542 | 0.912 | 0.387 | | 0.96 | 1.32 | | 0.00 | 0.000 | 0.00 | 3.55 | 0.00 | | |
| 12.61 | 139.62 | 0.8099 | 109.19 | 0.74 | 0.68% | 0.683 | 0.53 | 148.77 | 1.73 | 1.06 | 133 | 0.298 | 0.350 | 0.97 | 0.081 | 0.425 | 781.48 | 4.336 | 1.408E+05 | 2.030E+06 | 14.41 | 0.1542 | 0.911 | 0.387 | | 0.91 | 1.25 | <= | 0.28 | 0.002 | 0.00 | 3.55 | 0.00 | 12.55 | 12.61 |
| 12.66 | 139.66 | 0.8134 | 121.70 | 0.72 | 0.59% | 0.596 | 0.51 | 165.50 | 1.66 | 1.01 | 140 | 0.337 | 0.342 | 0.97 | 0.083 | 0.425 | 776.84 | 4.337 | 1.391E+05 | 2.030E+06 | 14.59 | 0.1542 | 0.911 | 0.387 | | 0.88 | 1.21 | <= | 0.24 | 0.001 | 0.00 | 3.55 | 0.00 | 12.61 | 12.66 |
| 12.75 | 140.16 | 0.8197 | 130.58 | 0.75 | 0.57% | 0.578 | 0.50 | 176.80 | 1.63 | 1.00 | 149 | 0.385 | 0.385 | 0.97 | 0.086 | 0.427 | 783.75 | 4.353 | 1.411E+05 | 2.030E+06 | 14.39 | 0.1542 | 0.911 | 0.389 | | 0.99 | 1.36 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 12.82 | 140.51 | 0.8246 | 136.93 | 0.77 | 0.56% | 0.566 | 0.50 | 184.76 | 1.61 | 1.00 | 155 | 0.430 | 0.430 | 0.97 | 0.088 | 0.428 | 788.20 | 4.364 | 1.424E+05 | 2.030E+06 | 14.26 | 0.1542 | 0.912 | 0.390 | | 1.10 | 1.52 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 12.86 | 140.90 | 0.8275 | 140.35 | 0.81 | 0.58% | 0.581 | 0.50 | 189.00 | 1.60 | 1.00 | 159 | 0.455 | 0.455 | 0.97 | 0.089 | 0.428 | 796.77 | 4.376 | 1.451E+05 | 2.030E+06 | 13.99 | 0.1542 | 0.912 | 0.390 | | 1.17 | 1.61 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 12.93 | 141.48 | 0.8324 | 144.45 | 0.87 | 0.60% | 0.606 | 0.50 | 193.82 | 1.61 | 1.00 | 164 | 0.487 | 0.487 | 0.97 | 0.091 | 0.429 | 808.86 | 4.394 | 1.489E+05 | 2.030E+06 | 13.63 | 0.1542 | 0.913 | 0.392 | | 1.24 | 1.71 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.02 | 142.14 | 0.8388 | 147.58 | 0.94 | 0.64% | 0.641 | 0.50 | 197.08 | 1.62 | 1.00 | 167 | 0.511 | 0.511 | 0.97 | 0.094 | 0.430 | 821.95 | 4.414 | 1.530E+05 | 2.030E+06 | 13.26 | 0.1542 | 0.914 | 0.393 | | 1.30 | 1.79 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.10 | 142.69 | 0.8445 | 150.31 | 1.01 | 0.67% | 0.676 | 0.50 | 199.87 | 1.63 | 1.00 | 169 | 0.533 | 0.533 | 0.97 | 0.097 | 0.431 | 834.10 | 4.431 | 1.570E+05 | 2.030E+06 | 12.93 | 0.1542 | 0.915 | 0.394 | | 1.35 | 1.86 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.15 | 142.90 | 0.8481 | 152.07 | 1.03 | 0.68% | 0.681 | 0.50 | 201.68 | 1.62 | 1.00 | 171 | 0.547 | 0.547 | 0.97 | 0.098 | 0.432 | 837.41 | 4.438 | 1.580E+05 | 2.030E+06 | 12.85 | 0.1542 | 0.915 | 0.395 | | 1.38 | 1.91 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.19 | 143.10 | 0.8510 | 153.73 | 1.06 | 0.69% | 0.693 | 0.50 | 203.45 | 1.63 | 1.00 | 173 | 0.561 | 0.561 | 0.97 | 0.100 | 0.432 | 842.27 | 4.444 | 1.596E+05 | 2.030E+06 | 12.72 | 0.1542 | 0.915 | 0.396 | | 1.42 | 1.95 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.28 | 143.44 | 0.8574 | 155.59 | 1.11 | 0.71% | 0.717 | 0.50 | 204.93 | 1.63 | 1.00 | 175 | 0.575 | 0.575 | 0.97 | 0.102 | 0.433 | 850.07 | 4.455 | 1.622E+05 | 2.030E+06 | 12.51 | 0.1542 | 0.916 | 0.397 | | 1.45 | 1.99 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.32 | 143.65 | 0.8603 | 156.76 | 1.13 | 0.72% | 0.725 | 0.50 | 206.03 | 1.63 | 1.00 | 176 | 0.585 | 0.585 | 0.97 | 0.104 | 0.434 | 853.09 | 4.461 | 1.631E+05 | 2.030E+06 | 12.44 | 0.1542 | 0.916 | 0.397 | | 1.47 | 2.03 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.41 | 144.00 | 0.8668 | 157.74 | 1.19 | 0.75% | 0.759 | 0.50 | 206.31 | 1.65 | 1.00 | 176 | 0.591 | 0.591 | 0.97 | 0.106 | 0.435 | 861.84 | 4.472 | 1.661E+05 | 2.030E+06 | 12.22 | 0.1542 | 0.917 | 0.399 | | 1.48 | 2.04 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.46 | 144.17 | 0.8704 | 158.52 | 1.21 | 0.76% | 0.768 | 0.50 | 206.78 | 1.65 | 1.00 | 177 | 0.599 | 0.599 | 0.97 | 0.108 | 0.435 | 864.66 | 4.477 | 1.670E+05 | 2.030E+06 | 12.16 | 0.1542 | 0.917 | 0.399 | | 1.50 | 2.07 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.54 | 144.36 | 0.8761 | 159.40 | 1.24 | 0.78% | 0.782 | 0.50 | 207.03 | 1.65 | 1.00 | 179 | 0.610 | 0.610 | 0.97 | 0.110 | 0.436 | 868.80 | 4.483 | 1.684E+05 | 2.030E+06 | 12.06 | 0.1542 | 0.917 | 0.400 | | 1.52 | 2.10 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.59 | 144.47 | 0.8797 | 160.37 | 1.26 | 0.79% | 0.790 | 0.50 | 207.74 | 1.65 | 1.01 | 180 | 0.619 | 0.619 | 0.97 | 0.112 | 0.437 | 871.51 | 4.487 | 1.693E+05 | 2.030E+06 | 11.99 | 0.1542 | 0.917 | 0.401 | | 1.55 | 2.13 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.68 | 144.60 | 0.8863 | 162.23 | 1.28 | 0.79% | 0.793 | 0.50 | 209.15 | 1.65 | 1.00 | 181 | 0.632 | 0.632 | 0.97 | 0.115 | 0.438 | 874.17 | 4.491 | 1.702E+05 | 2.030E+06 | 11.93 | 0.1542 | 0.918 | 0.402 | | 1.57 | 2.17 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.73 | 144.63 | 0.8899 | 163.11 | 1.28 | 0.78% | 0.789 | 0.50 | 209.72 | 1.65 | 1.00 | 181 | 0.635 | 0.635 | 0.97 | 0.116 | 0.438 | 874.17 | 4.492 | 1.701E+05 | 2.030E+06 | 11.93 | 0.1542 | 0.917 | 0.402 | | 1.58 | 2.17 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.78 | 144.65 | 0.8935 | 164.57 | 1.28 | 0.78% | 0.782 | 0.50 | 211.05 | 1.64 | 1.00 | 182 | 0.641 | 0.641 | 0.97 | 0.118 | 0.439 | 874.17 | 4.492 | 1.701E+05 | 2.030E+06 | 11.93 | 0.1542 | 0.917 | 0.403 | | 1.59 | 2.19 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.85 | 144.60 | 0.8985 | 165.74 | 1.27 | 0.77% | 0.770 | 0.50 | 211.76 | 1.64 | 1.00 | 183 | 0.652 | 0.652 | 0.97 | 0.120 | 0.440 | 872.85 | 4.491 | 1.697E+05 | 2.030E+06 | 11.97 | 0.1542 | 0.917 | 0.403 | | 1.62 | 2.22 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.94 | 144.57 | 0.9051 | 166.14 | 1.26 | 0.76% | 0.763 | 0.50 | 211.26 | 1.63 | 1.00 | 183 | 0.652 | 0.652 | 0.97 | 0.123 | 0.441 | 871.51 | 4.490 | 1.692E+05 | 2.030E+06 | 12.00 | 0.1542 | 0.917 | 0.404 | | 1.61 | 2.22 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 13.99 | 142.75 | 0.9086 | 166.53 | 0.98 | 0.59% | 0.592 | 0.50 | 211.22 | 1.56 | 1.00 | 183 | 0.654 | 0.654 | 0.97 | 0.124 | 0.441 | 829.00 | 4.433 | 1.550E+05 | 2.030E+06 | 13.10 | 0.1542 | 0.915 | 0.404 | | 1.62 | 2.23 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.04 | 138.92 | 0.9121 | 166.82 | 0.58 | 0.35% | 0.350 | 0.50 | 211.07 | 1.43 | 1.00 | 183 | 0.655 | 0.655 | 0.97 | 0.126 | 0.442 | 740.27 | 4.314 | 1.270E+05 | 2.030E+06 | 15.98 | 0.1542 | 0.907 | 0.401 | | 1.63 | 2.25 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.12 | 139.91 | 0.9177 | 167.01 | 0.67 | 0.40% | 0.403 | 0.50 | 210.47 | 1.46 | 1.00 | 183 | 0.653 | 0.653 | 0.97 | 0.129 | 0.443 | 764.67 | 4.345 | 1.346E+05 | 2.030E+06 | 15.08 | 0.1542 | 0.909 | 0.403 | | 1.62 | 2.23 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.17 | 140.59 | 0.9212 | 168.09 | 0.73 | 0.43% | 0.437 | 0.50 | 211.31 | 1.48 | 1.00 | 184 | 0.662 | 0.662 | 0.97 | 0.130 | 0.443 | 779.18 | 4.366 | 1.391E+05 | 2.030E+06 | 14.60 | 0.1542 | 0.911 | 0.404 | | 1.64 | 2.26 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.26 | 141.30 | 0.9276 | 171.31 | 0.80 | 0.47% | 0.470 | 0.50 | 214.41 | 1.49 | 1.00 | 187 | 0.692 | 0.692 | 0.97 | 0.133 | 0.444 | 794.67 | 4.388 | 1.439E+05 | 2.030E+06 | 14.11 | 0.1542 | 0.912 | 0.405 | | 1.71 | 2.35 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.33 | 141.71 | 0.9325 | 171.21 | 0.84 | 0.49% | 0.493 | 0.50 | 213.53 | 1.51 | 1.00 | 187 | 0.688 | 0.688 | 0.97 | 0.135 | 0.445 | 802.92 | 4.401 | 1.465E+05 | 2.030E+06 | 13.86 | 0.1542 | 0.913 | 0.406 | | 1.69 | 2.33 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.38 | 142.15 | 0.9361 | 170.04 | 0.90 | 0.53% | 0.532 | 0.50 | 211.53 | 1.53 | 1.00 | 185 | 0.673 | 0.673 | 0.97 | 0.137 | 0.446 | 814.59 | 4.415 | 1.503E+05 | 2.030E+06 | 13.51 | 0.1542 | 0.913 | 0.407 | | 1.65 | 2.28 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.44 | 142.76 | 0.9404 | 176.20 | 0.97 | 0.55% | 0.553 | 0.50 | 218.57 | 1.53 | 1.00 | 192 | 0.737 | 0.737 | 0.97 | 0.139 | 0.446 | 827.26 | 4.434 | 1.544E+05 | 2.030E+06 | 13.15 | 0.1542 | 0.914 | 0.408 | | 1.81 | 2.49 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.53 | 143.52 | 0.9468 | 184.79 | 1.05 | 0.57% | 0.571 | 0.50 | 228.24 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.97 | 0.141 | 0.447 | 840.67 | 4.457 | 1.586E+05 | 2.030E+06 | 12.80 | 0.1542 | 0.915 | 0.409 | | 2.01 | 2.77 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.58 | 143.84 | 0.9504 | 186.94 | 1.10 | 0.59% | 0.591 | 0.50 | 230.32 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.97 | 0.143 | 0.448 | 848.54 | 4.467 | 1.612E+05 | 2.030E+06 | 12.59 | 0.1542 | 0.916 | 0.410 | | 2.01 | 2.77 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.67 | 144.37 | 0.9569 | 189.87 | 1.17 | 0.62% | 0.619 | 0.50 | 232.88 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.97 | 0.146 | 0.448 | 858.97 | 4.484 | 1.646E+05 | 2.030E+06 | 12.34 | 0.1542 | 0.916 | 0.411 | | 2.00 | 2.76 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.70 | 144.48 | 0.9591 | 190.26 | 1.19 | 0.63% | 0.629 | 0.50 | 233.00 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.97 | 0.147 | 0.449 | 861.84 | 4.487 | 1.655E+05 | 2.030E+06 | 12.26 | 0.1542 | 0.917 | 0.411 | | 2.00 | 2.76 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.77 | 144.58 | 0.9641 | 191.33 | 1.20 | 0.63% | 0.630 | 0.50 | 233.49 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.149 | 0.449 | 863.26 | 4.490 | 1.660E+05 | 2.030E+06 | 12.23 | 0.1542 | 0.917 | 0.412 | | 2.00 | 2.75 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.85 | 144.62 | 0.9699 | 191.14 | 1.21 | 0.63% | 0.636 | 0.50 | 232.31 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.151 | 0.450 | 864.66 | 4.491 | 1.665E+05 | 2.030E+06 | 12.19 | 0.1542 | 0.917 | 0.413 | | 2.00 | 2.75 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.91 | 144.62 | 0.9743 | 191.43 | 1.21 | 0.63% | 0.635 | 0.50 | 231.96 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.153 | 0.451 | 864.66 | 4.491 | 1.665E+05 | 2.030E+06 | 12.19 | 0.1542 | 0.917 | 0.413 | | 1.99 | 2.74 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 14.98 | 144.51 | 0.9793 | 192.02 | 1.19 | 0.62% | 0.623 | 0.50 | 231.86 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.155 | 0.452 | 861.84 | 4.488 | 1.655E+05 | 2.030E+06 | 12.27 | 0.1542 | 0.917 | 0.414 | | 1.99 | 2.74 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.04 | 144.36 | 0.9837 | 190.94 | 1.17 | 0.61% | 0.616 | 0.50 | 229.86 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.157 | 0.452 | 858.97 | 4.483 | 1.646E+05 | 2.030E+06 | 12.33 | 0.1542 | 0.916 | 0.414 | | 1.99 | 2.74 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.11 | 144.11 | 0.9887 | 188.31 | 1.14 | 0.61% | 0.609 | 0.50 | 225.89 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.159 | 0.453 | 854.58 | 4.475 | 1.632E+05 | 2.030E+06 | 12.44 | 0.1542 | 0.916 | 0.415 | | 1.99 | 2.73 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.16 | 143.89 | 0.9923 | 185.38 | 1.11 | 0.60% | 0.602 | 0.50 | 221.81 | 1.54 | 1.00 | 198 | 0.805 | 0.805 | 0.96 | 0.161 | 0.453 | 850.07 | 4.469 | 1.617E+05 | 2.030E+06 | 12.55 | 0.1542 | 0.916 | 0.415 | | 1.94 | 2.67 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.24 | 143.46 | 0.9980 | 179.42 | 1.06 | 0.59% | 0.594 | 0.50 | 213.80 | 1.55 | 1.00 | 192 | 0.733 | 0.733 | 0.96 | 0.163 | 0.454 | 842.27 | 4.455 | 1.592E+05 | 2.030E+06 | 12.75 | 0.1542 | 0.915 | 0.416 | | 1.76 | 2.43 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.29 | 143.17 | 1.0016 | 173.46 | 1.03 | 0.59% | 0.597 | 0.50 | 206.15 | 1.56 | 1.00 | 185 | 0.668 | 0.668 | 0.96 | 0.165 | 0.455 | 837.41 | 4.446 | 1.577E+05 | 2.030E+06 | 12.87 | 0.1542 | 0.915 | 0.416 | | 1.61 | 2.21 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.38 | 142.72 | 1.0080 | 162.33 | 0.99 | 0.61% | 0.614 | 0.50 | 192.01 | 1.59 | 1.00 | 173 | 0.558 | 0.558 | 0.96 | 0.168 | 0.455 | 830.71 | 4.432 | 1.557E+05 | 2.030E+06 | 13.04 | 0.1542 | 0.915 | 0.417 | | 1.34 | 1.84 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.43 | 142.45 | 1.0116 | 153.34 | 0.97 | 0.63% | 0.637 | 0.50 | 180.87 | 1.62 | 1.00 | 163 | 0.481 | 0.481 | 0.96 | 0.169 | 0.456 | 827.26 | 4.424 | 1.547E+05 | 2.030E+06 | 13.12 | 0.1542 | 0.914 | 0.417 | | 1.15 | 1.59 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.49 | 142.22 | 1.0159 | 143.96 | 0.96 | 0.67% | 0.672 | 0.51 | 169.25 | 1.66 | 1.01 | 154 | 0.421 | 0.421 | 0.96 | 0.171 | 0.456 | 825.51 | 4.417 | 1.543E+05 | 2.030E+06 | 13.16 | 0.1542 | 0.914 | 0.417 | | 1.01 | 1.39 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.56 | 141.95 | 1.0208 | 128.44 | 0.96 | 0.75% | 0.753 | 0.53 | 150.37 | 1.73 | 1.06 | 144 | 0.359 | 0.359 | 0.96 | 0.173 | 0.457 | 825.51 | 4.408 | 1.546E+05 | 2.030E+06 | 13.13 | 0.1542 | 0.914 | 0.418 | | 0.86 | 1.18 | <= | 0.41 | 0.003 | 0.00 | 3.54 | 0.00 | 15.49 | 15.56 |
| 15.65 | 141.97 | 1.0272 | 110.66 | 1.01 | 0.91% | 0.921 | 0.56 | 128.84 | 1.83 | 1.13 | 133 | 0.301 | 0.350 | 0.96 | 0.176 | 0.458 | 834.10 | 4.409 | 1.578E+05 | 2.030E+06 | 12.86 | 0.1542 | 0.915 | 0.419 | | 0.84 | 1.15 | <= | 0.39 | 0.004 | 0.00 | 3.54 | 0.00 | 15.56 | 15.65 |
| 15.69 | 142.00 | 1.0301 | 103.92 | 1.04 | 1.00% | 1.011 | 0.57 | 120.69 | 1.88 | 1.17 | 130 | 0.283 | 0.369 | 0.96 | 0.178 | 0.458 | 839.05 | 4.410 | 1.596E+05 | 2.030E+06 | 12.72 | 0.1542 | 0.915 | 0.419 | | 0.88 | 1.21 | <= | 0.25 | 0.001 | 0.00 | 3.54 | 0.00 | 15.65 | 15.69 |
| 15.77 | 141.94 | 1.0357 | 83.12 | 1.11 | 1.34% | 1.352 | 0.62 | 95.93 | 2.03 | 1.35 | 120 | 0.240 | 0.403 | 0.96 | 0.180 | 0.459 | 850.07 | 4.408 | 1.639E+05 | 2.030E+06 | 12.38 | 0.1542 | 0.916 | 0.421 | | 0.96 | 1.32 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.83 | 141.92 | 1.0400 | 69.93 | 1.17 | 1.67% | 1.698 | 0.65 | 80.28 | 2.16 | 1.56 | 117 | 0.231 | 0.444 | 0.96 | 0.182 | 0.459 | 858.97 | 4.407 | 1.674E+05 | 2.030E+06 | 12.13 | 0.1542 | 0.917 | 0.421 | | 1.05 | 1.45 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.91 | 142.19 | 1.0457 | 56.75 | 1.30 | 2.29% | 2.334 | 0.70 | 64.68 | 2.31 | 2.00 | 122 | 0.249 | 0.546 | 0.96 | 0.184 | 0.460 | 876.80 | 4.416 | 1.741E+05 | 2.030E+06 | 11.66 | 0.1542 | 0.918 | 0.423 | | 1.29 | 1.78 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 15.96 | 142.39 | 1.0492 | 52.35 | 1.38 | 2.64% | 2.690 | 0.72 | 59.42 | 2.38 | 2.24 | 126 | 0.268 | 0.589 | 0.96 | 0.186 | 0.461 | 886.90 | 4.422 | 1.779E+05 | 2.030E+06 | 11.41 | 0.1542 | 0.919 | 0.423 | | 1.39 | 1.91 | | 0.00 | 0.000 | 0.00 | 3.54 | 0.00 | | |
| 16.02 | 142.43 | 1.0535 | 47.76 | 1.43 | 2.99% | 3.062 | 0.74 | 53.95 | 2.45 | 2.53 | 130 | 0.285 | 0.325 | 0.96 | 0.188 | 0.461 | 892.92 | 4.423 | 1.803E+05 | 2.030E+06 | 11.26 | 0.1542 | 0.919 | 0.424 | | 0.77 | 1.06 | <= | 0.59 | 0.004 | 0.00 | 3.54 | 0.00 | 15.96 | 16.02 |
| 16.09 | 141.34 | 1.0585 | 44.05 | 1.26 | 2.86% | 2.931 | 0.75 | 49.50 | 2.46 | 2.59 | 123 | 0.251 | 0.295 | 0.96 | 0.190 | 0.462 | 871.51 | 4.389 | 1.730E+05 | 2.030E+06 | 11.73 | 0.1542 | 0.918 | 0.424 | | 0.70 | 0.96 | <= | 1.45 | 0.012 | 0.00 | 3.53 | 0.00 | 16.02 | 16.09 |
| 16.16 | 139.89 | 1.0634 | 38.29 | 1.09 | 2.85% | 2.928 | 0.76 | 42.73 | 2.51 | 2.81 | 115 | 0.222 | 0.276 | 0.96 | 0.192 | 0.462 | 846.99 | 4.344 | 1.651E+05 | 2.030E+06 | 12.29 | 0.1542 | 0.917 | 0.424 | | 0.65 | 0.89 | <= | 2.06 | 0.017 | 0.00 | 3.52 | 0.00 | 16.09 | 16.16 |
| 16.23 | 139.18 | 1.0682 | 33.31 | 1.03 | 3.09% | 3.195 | 0.78 | 36.90 | 2.58 | 3.21 | 114 | 0.218 | 0.276 | 0.96 | 0.194 | 0.463 | 837.41 | 4.322 | 1.622E+05 | 2.030E+06 | 12.51 | 0.1542 | 0.916 | 0.424 | | 0.65 | 0.89 | <= | 2.08 | 0.017 | 0.00 | 3.50 | 0.00 | 16.16 | 16.23 |
| 16.27 | 138.07 | 1.0710 | 28.62 | 0.93 | 3.25% | 3.376 | 0.80 | 31.47 | 2.65 | 3.62 | 120 | 0.239 | 0.315 | 0.96 | 0.196 | 0.463 | 820.14 | 4.288 | 1.569E+05 | 2.030E+06 | 12.94 | 0.1542 | 0.915 | 0.424 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.48 | 0.00 | | |
| 16.36 | 134.21 | 1.0770 | 28.03 | 0.55 | 1.96% | 2.041 | 0.76 | 30.68 | 2.52 | 2.86 | 94 | 0.158 | 0.212 | 0.96 | 0.198 | 0.464 | 731.28 | 4.168 | 1.283E+05 | 2.030E+06 | 15.82 | 0.1542 | 0.907 | 0.421 | | 0.50 | 0.69 | <= | 2.41 | 0.026 | 0.00 | 3.48 | 0.00 | 16.27 | 16.36 |
| 16.41 | 134.79 | 1.0804 | 31.84 | 0.57 | 1.79% | 1.853 | 0.74 | 34.94 | 2.45 | 2.52 | 84 | 0.136 | 0.179 | 0.96 | 0.200 | 0.465 | 737.33 | 4.186 | 1.299E+05 | 2.030E+06 | 15.63 | 0.1542 | 0.908 | 0.422 | | 0.42 | 0.58 | <= | 2.64 | 0.016 | 0.00 | 3.46 | 0.00 | 16.36 | 16.41 |
| 16.48 | 137.02 | 1.0852 | 52.16 | 0.66 | 1.27% | 1.292 | 0.66 | 57.84 | 2.18 | 1.63 | 89 | 0.146 | 0.393 | 0.96 | 0.202 | 0.465 | 762.12 | 4.255 | 1.365E+05 | 2.030E+06 | 14.87 | 0.1542 | 0.910 | 0.423 | | 0.93 | 1.28 | <= | 0.41 | 0.003 | 0.00 | 3.44 | 0.00 | 16.41 | 16.48 |
| 16.54 | 138.37 | 1.0893 | 63.68 | 0.74 | 1.16% | 1.182 | 0.64 | 70.70 | 2.09 | 1.44 | 96 | 0.163 | 0.362 | 0.96 | 0.204 | 0.466 | 781.48 | 4.297 | 1.421E+05 | 2.030E+06 | 14.28 | 0.1542 | 0.911 | 0.424 | | 0.85 | 1.17 | <= | 0.53 | 0.004 | 0.00 | 3.44 | 0.00 | 16.48 | 16.54 |
| 16.62 | 139.16 | 1.0949 | 63.49 | 0.83 | 1.31% | 1.330 | 0.65 | 70.24 | 2.13 | 1.50 | 100 | 0.173 | 0.386 | 0.96 | 0.207 | 0.466 | 800.89 | 4.322 | 1.484E+05 | 2.030E+06 | 13.68 | 0.1542 | 0.913 | 0.426 | | 0.91 | 1.25 | <= | 0.34 | 0.003 | 0.00 | 3.44 | 0.00 | 16.54 | 16.62 |
| 16.67 | 139.87 | 1.0984 | 74.03 | 0.87 | 1.18% | 1.193 | 0.62 | 81.92 | 2.05 | 1.36 | 105 | 0.189 | 0.372 | 0.96 | 0.208 | 0.467 | 808.86 | 4.344 | 1.506E+05 | 2.030E+06 | 13.48 | 0.1542 | 0.914 | 0.426 | | 0.87 | 1.20 | <= | 0.28 | 0.002 | 0.00 | 3.43 | 0.00 | 16.62 | 16.67 |
| 16.77 | 140.34 | 1.1054 | 78.23 | 0.91 | 1.16% | 1.180 | 0.62 | 86.25 | 2.03 | 1.33 | 109 | 0.199 | 0.369 | 0.96 | 0.211 | 0.468 | 816.46 | 4.358 | 1.529E+05 | 2.030E+06 | 13.27 | 0.1542 | 0.914 | 0.427 | | 0.86 | 1.19 | <= | 0.50 | 0.006 | 0.00 | 3.43 | 0.00 | 16.67 | 16.77 |
| 16.81 | 140.57 | 1.1082 | 79.11 | 0.94 | 1.19% | 1.205 | 0.62 | 87.08 | 2.03 | 1.34 | 110 | 0.204 | 0.378 | 0.96 | 0.212 | 0.468 | 821.95 | 4.366 | 1.548E+05 | 2.030E+06 | 13.12 | 0.1542 | 0.914 | 0.428 | | 0.88 | 1.22 | <= | 0.29 | 0.001 | 0.00 | 3.42 | 0.00 | 16.77 | 16.81 |
| 16.88 | 141.24 | 1.1132 | 79.89 | 1.02 | 1.28% | 1.295 | 0.62 | 87.67 | 2.04 | 1.36 | 113 | 0.214 | 0.373 | 0.96 | 0.215 | 0.468 | 835.76 | 4.386 | 1.592E+05 | 2.030E+06 | 12.75 | 0.1542 | 0.915 | 0.429 | | 0.87 | 1.20 | <= | 0.51 | 0.004 | 0.00 | 3.42 | 0.00 | 16.81 | 16.88 |
| 16.95 | 141.58 | 1.1181 | 80.09 | 1.07 | 1.34% | 1.355 | 0.63 | 87.62 | 2.06 | 1.38 | 115 | 0.221 | 0.385 | 0.96 | 0.217 | 0.469 | 843.86 | 4.397 | 1.620E+05 | 2.030E+06 | 12.53 | 0.1542 | 0.916 | 0.430 | | 0.90 | 1.23 | <= | 0.29 | 0.002 | 0.00 | 3.42 | 0.00 | 16.88 | 16.95 |
| 17.01 | 141.83 | 1.1224 | 79.89 | 1.11 | 1.39% | 1.409 | 0.63 | 87.16 | 2.07 | 1.40 | 116 | 0.225 | 0.394 | 0.96 | 0.219 | 0.470 | 850.07 | 4.405 | 1.641E+05 | 2.030E+06 | 12.37 | 0.1542 | 0.916 | 0.430 | | 0.92 | 1.26 | <= | 0.32 | 0.002 | 0.00 | 3.42 | 0.00 | 16.95 | 17.01 |
| 17.06 | 141.93 | 1.1259 | 79.41 | 1.12 | 1.41% | 1.431 | 0.63 | 86.44 | 2.08 | 1.41 | 116 | 0.226 | 0.395 | 0.96 | 0.220 | 0.470 | 851.58 | 4.408 | 1.645E+05 | 2.030E+06 | 12.34 | 0.1542 | 0.916 | 0.431 | | 0.92 | 1.26 | <= | 0.32 | 0.002 | 0.00 | 3.41 | 0.00 | 17.01 | 17.06 |
| 17.15 | 141.99 | 1.1323 | 79.21 | 1.14 | 1.44% | 1.460 | 0.63 | 85.87 | 2.08 | 1.43 | 117 | 0.227 | 0.399 | 0.96 | 0.223 | 0.471 | 854.58 | 4.410 | 1.656E+05 | 2.030E+06 | 12.26 | 0.1542 | 0.917 | 0.431 | | 0.93 | 1.27 | <= | 0.33 | 0.004 | 0.00 | 3.41 | 0.00 | 17.06 | 17.15 |
| 17.21 | 142.18 | 1.1366 | 80.38 | 1.16 | 1.44% | 1.464 | 0.63 | 86.92 | 2.08 | 1.42 | 118 | 0.231 | 0.407 | 0.96 | 0.225 | 0.471 | 857.52 | 4.416 | 1.665E+05 | 2.030E+06 | 12.19 | 0.1542 | 0.917 | 0.432 | | 0.94 | 1.30 | <= | 0.35 | 0.003 | 0.00 | 3.41 | 0.00 | 17.15 | 17.21 |
| 17.26 | 142.39 | 1.1402 | 82.53 | 1.18 | 1.43% | 1.450 | 0.63 | 89.08 | 2.07 | 1.40 | 119 | 0.237 | 0.390 | 0.96 | 0.227 | 0.471 | 860.41 | 4.422 | 1.674E+05 | 2.030E+06 | 12.13 | 0.1542 | 0.917 | 0.432 | | 0.90 | 1.24 | <= | 0.29 | 0.002 | 0.00 | 3.41 | 0.00 | 17.21 | 17.26 |
| 17.34 | 142.64 | 1.1459 | 87.51 | 1.20 | 1.37% | 1.389 | 0.62 | 94.20 | 2.04 | 1.35 | 122 | 0.247 | 0.380 | 0.96 | 0.229 | 0.472 | 863.26 | 4.430 | 1.682E+05 | 2.030E+06 | 12.07 | 0.1542 | 0.917 | 0.433 | | 0.88 | 1.21 | <= | 0.26 | 0.002 | 0.00 | 3.40 | 0.00 | 17.26 | 17.34 |
| 17.39 | 142.91 | 1.1494 | 92.40 | 1.22 | 1.32% | 1.337 | 0.61 | 99.31 | 2.01 | 1.31 | 124 | 0.259 | 0.399 | 0.96 | 0.231 | 0.472 | 866.05 | 4.438 | 1.690E+05 | 2.030E+06 | 12.01 | 0.1542 | 0.917 | 0.433 | | 0.92 | 1.27 | <= | 0.31 | 0.002 | 0.00 | 3.40 | 0.00 | 17.34 | 17.39 |
| 17.48 | 143.39 | 1.1559 | 96.69 | 1.29 | 1.33% | 1.350 | 0.61 | 103.56 | 2.00 | 1.30 | 128 | 0.277 | 0.395 | 0.96 | 0.233 | 0.473 | 875.49 | 4.453 | 1.721E+05 | 2.030E+06 | 11.79 | 0.1542 | 0.918 | 0.434 | | 0.91 | 1.25 | <= | 0.29 | 0.003 | 0.00 | 3.40 | 0.00 | 17.39 | 17.48 |
| 17.52 | 143.62 | 1.1588 | 98.84 | 1.32 | 1.34% | 1.351 | 0.61 | 105.70 | 1.99 | 1.29 | 130 | 0.286 | 0.374 | 0.96 | 0.235 | 0.473 | 879.38 | 4.460 | 1.734E+05 | 2.030E+06 | 11.71 | 0.1542 | 0.918 | 0.435 | | 0.86 | 1.18 | <= | 0.44 | 0.002 | 0.00 | 3.40 | 0.00 | 17.48 | 17.52 |
| 17.61 | 143.89 | 1.1652 | 99.72 | 1.36 | 1.36% | 1.380 | 0.61 | 106.22 | 2.00 | 1.30 | 132 | 0.293 | 0.385 | 0.96 | 0.237 | 0.474 | 884.43 | 4.469 | 1.750E+05 | 2.030E+06 | 11.60 | 0.1542 | 0.918 | 0.435 | | 0.88 | 1.22 | <= | 0.25 | 0.003 | 0.00 | 3.39 | 0.00 | 17.52 | 17.61 |
| 17.65 | 143.98 | 1.1681 | 98.26 | 1.39 | 1.41% | 1.432 | 0.61 | 104.46 | 2.01 | 1.32 | 132 | 0.293 | 0.386 | 0.96 | 0.239 | 0.474 | 888.12 | 4.471 | 1.764E+05 | 2.030E+06 | 11.51 | 0.1542 | 0.919 | 0.436 | | 0.89 | 1.22 | <= | 0.25 | 0.001 | 0.00 | 3.39 | 0.00 | 17.61 | 17.65 |
| 17.73 | 144.19 | 1.1739 | 100.79 | 1.41 | 1.40% | 1.415 | 0.61 | 106.80 | 2.00 | 1.30 | 133 | 0.301 | 0.398 | 0.96 | 0.241 | 0.475 | 890.54 | 4.478 | 1.771E+05 | 2.030E+06 | 11.46 | 0.1542 | 0.919 | 0.436 | | 0.91 | 1.26 | <= | 0.28 | 0.003 | 0.00 | 3.39 | 0.00 | 17.65 | 17.73 |
| 17.79 | 144.34 | 1.1782 | 102.55 | 1.44 | 1.40% | 1.421 | 0.61 | 108.40 | 2.00 | 1.30 | 135 | 0.309 | 0.371 | 0.96 | 0.243 | 0.475 | 894.10 | 4.483 | 1.783E+05 | 2.030E+06 | 11.38 | 0.1542 | 0.919 | 0.437 | | 0.85 | 1.17 | <= | 0.41 | 0.003 | 0.00 | 3.39 | 0.00 | 17.73 | 17.79 |
| 17.88 | 144.49 | 1.1847 | 104.21 | 1.46 | 1.40% | 1.417 | 0.61 | 109.73 | 1.99 | 1.29 | 136 | 0.315 | 0.380 | 0.96 | 0.246 | 0.476 | 896.43 | 4.487 | 1.791E+05 | 2.030E+06 | 11.34 | 0.1542 | 0.919 | 0.437 | | 0.87 | 1.20 | <= | 0.44 | 0.005 | 0.00 | 3.39 | 0.00 | 17.79 | 17.88 |
| 17.93 | 144.58 | 1.1883 | 104.31 | 1.48 | 1.42% | 1.435 | 0.61 | 109.60 | 2.00 | 1.30 | 137 | 0.317 | 0.384 | 0.96 | 0.247 | 0.476 | 898.73 | 4.490 | 1.799E+05 | 2.030E+06 | 11.28 | 0.1542 | 0.919 | 0.438 | | 0.88 | 1.21 | <= | 0.24 | 0.001 | 0.00 | 3.38 | 0.00 | 17.88 | 17.93 |
| 17.99 | 144.52 | 1.1927 | 103.33 | 1.47 | 1.42% | 1.439 | 0.61 | 108.27 | 2.00 | 1.30 | 136 | 0.313 | 0.380 | 0.96 | 0.249 | 0.477 | 897.59 | 4.488 | 1.795E+05 | 2.030E+06 | 11.31 | 0.1542 | 0.919 | 0.438 | | 0.87 | 1.19 | <= | 0.44 | 0.003 | 0.00 | 3.38 | 0.00 | 17.93 | 17.99 |
| 18.05 | 144.50 | 1.1970 | 101.97 | 1.47 | 1.44% | 1.459 | 0.61 | 106.54 | 2.01 | 1.31 | 135 | 0.309 | 0.376 | 0.96 | 0.251 | 0.477 | 897.59 | 4.488 | 1.795E+05 | 2.030E+06 | 11.31 | 0.1542 | 0.919 | 0.439 | | 0.86 | 1.18 | <= | 0.43 | 0.003 | 0.00 | 3.38 | 0.00 | 17.99 | 18.05 |
| 18.13 | 144.44 | 1.2028 | 98.55 | 1.48 | 1.50% | 1.520 | 0.62 | 102.57 | 2.03 | 1.35 | 133 | 0.301 | 0.407 | 0.96 | 0.254 | 0.478 | 898.73 | 4.486 | 1.801E+05 | 2.030E+06 | 11.27 | 0.1542 | 0.919 | 0.439 | | 0.93 | 1.27 | <= | 0.30 | 0.003 | 0.00 | 3.37 | 0.00 | 18.05 | 18.13 |
| 18.19 | 144.37 | 1.2071 | 97.38 | 1.47 | 1.51% | 1.528 | 0.62 | 101.07 | 2.04 | 1.36 | 133 | 0.296 | 0.402 | 0.96 | 0.256 | 0.478 | 897.59 | 4.484 | 1.797E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.439 | | 0.91 | 1.26 | <= | 0.29 | 0.002 | 0.00 | 3.37 | 0.00 | 18.13 | 18.19 |
| 18.28 | 144.41 | 1.2136 | 95.52 | 1.48 | 1.55% | 1.569 | 0.62 | 98.72 | 2.05 | 1.38 | 132 | 0.293 | 0.399 | 0.96 | 0.258 | 0.479 | 898.73 | 4.485 | 1.801E+05 | 2.030E+06 | 11.27 | 0.1542 | 0.919 | 0.440 | | 0.91 | 1.25 | <= | 0.28 | 0.003 | 0.00 | 3.37 | 0.00 | 18.19 | 18.28 |
| 18.31 | 144.32 | 1.2158 | 95.23 | 1.47 | 1.54% | 1.564 | 0.62 | 98.29 | 2.06 | 1.38 | 131 | 0.291 | 0.396 | 0.96 | 0.259 | 0.479 | 897.59 | 4.482 | 1.798E+05 | 2.030E+06 | 11.29 | 0.1542 | 0.919 | 0.440 | | 0.90 | 1.24 | <= | 0.27 | 0.001 | 0.00 | 3.36 | 0.00 | 18.28 | 18.31 |
| 18.41 | 144.43 | 1.2230 | 96.59 | 1.48 | 1.53% | 1.552 | 0.62 | 99.28 | 2.05 | 1.37 | 132 | 0.294 | 0.402 | 0.96 | 0.262 | 0.480 | 898.73 | 4.485 | 1.801E+05 | 2.030E+06 | 11.27 | 0.1542 | 0.919 | 0.441 | | 0.91 | 1.26 | <= | 0.29 | 0.003 | 0.00 | 3.36 | 0.00 | 18.31 | 18.41 |
| 18.45 | 144.55 | 1.2259 | 97.86 | 1.50 | 1.53% | 1.552 | 0.62 | 100.43 | 2.05 | 1.36 | 133 | 0.299 | 0.410 | 0.96 | 0.264 | 0.480 | 901.00 | 4.489 | 1.808E+05 | 2.030E+06 | 11.23 | 0.1542 | 0.919 | 0.441 | | 0.93 | 1.28 | <= | 0.31 | 0.001 | 0.00 | 3.36 | 0.00 | 18.41 | 18.45 |
| 18.51 | 144.68 | 1.2302 | 99.04 | 1.52 | 1.53% | 1.554 | 0.62 | 101.39 | 2.04 | 1.36 | 134 | 0.304 | 0.381 | 0.96 | 0.266 | 0.480 | 903.24 | 4.493 | 1.816E+05 | 2.030E+06 | 11.18 | 0.1542 | 0.919 | 0.442 | | 0.86 | 1.19 | <= | 0.44 | 0.003 | 0.00 | 3.36 | 0.00 | 18.45 | 18.51 |
| 18.57 | 144.77 | 1.2346 | 99.04 | 1.54 | 1.55% | 1.575 | 0.62 | 101.12 | 2.05 | 1.37 | 134 | 0.306 | 0.385 | 0.96 | 0.267 | 0.481 | 905.45 | 4.496 | 1.824E+05 | 2.030E+06 | 11.13 | 0.1542 | 0.920 | 0.442 | | 0.87 | 1.20 | <= | 0.45 | 0.003 | 0.00 | 3.36 | 0.00 | 18.51 | 18.57 |
| 18.64 | 144.88 | 1.2396 | 99.04 | 1.56 | 1.58% | 1.595 | 0.62 | 100.82 | 2.05 | 1.37 | 135 | 0.308 | 0.389 | 0.96 | 0.270 | 0.481 | 907.64 | 4.499 | 1.831E+05 | 2.030E+06 | 11.09 | 0.1542 | 0.920 | 0.442 | | 0.88 | 1.21 | <= | 0.24 | 0.002 | 0.00 | 3.35 | 0.00 | 18.57 | 18.64 |
| 18.71 | 144.96 | 1.2447 | 98.26 | 1.58 | 1.61% | 1.629 | 0.63 | 99.71 | 2.06 | 1.39 | 135 | 0.309 | 0.392 | 0.96 | 0.272 | 0.482 | 909.79 | 4.502 | 1.839E+05 | 2.030E+06 | 11.04 | 0.1542 | 0.920 | 0.443 | | 0.88 | 1.22 | <= | 0.25 | 0.002 | 0.00 | 3.35 | 0.00 | 18.64 | 18.71 |
| 18.77 | 145.00 | 1.2491 | 95.62 | 1.61 | 1.68% | 1.706 | 0.63 | 96.75 | 2.08 | 1.43 | 135 | 0.308 | 0.392 | 0.96 | 0.274 | 0.482 | 912.97 | 4.503 | 1.851E+05 | 2.030E+06 | 10.97 | 0.1542 | 0.920 | 0.443 | | 0.88 | 1.22 | <= | 0.25 | 0.002 | 0.00 | 3.35 | 0.00 | 18.71 | 18.77 |
| 18.86 | 140.25 | 1.2554 | 91.81 | 0.85 | 0.93% | 0.939 | 0.59 | 92.50 | 1.93 | 1.22 | 110 | 0.203 | 0.352 | 0.96 | 0.276 | 0.483 | 804.92 | 4.356 | 1.488E+05 | 2.030E+06 | 13.65 | 0.1542 | 0.913 | 0.441 | | 0.80 | 1.10 | <= | 0.37 | 0.004 | 0.00 | 3.35 | 0.00 | 18.77 | 18.86 |
| 18.91 | 140.78 | 1.2589 | 88.10 | 0.93 | 1.06% | 1.071 | 0.60 | 88.53 | 1.98 | 1.27 | 110 | 0.204 | 0.355 | 0.96 | 0.278 | 0.483 | 820.14 | 4.372 | 1.538E+05 | 2.030E+06 | 13.19 | 0.1542 | 0.914 | 0.441 | | 0.80 | 1.11 | <= | 0.38 | 0.002 | 0.00 | 3.34 | 0.00 | 18.86 | 18.91 |
| 18.97 | 141.39 | 1.2631 | 80.28 | 1.04 | 1.30% | 1.316 | 0.63 | 80.36 | 2.07 | 1.40 | 110 | 0.204 | 0.378 | 0.96 | 0.280 | 0.483 | 839.05 | 4.391 | 1.603E+05 | 2.030E+06 | 12.66 | 0.1542 | 0.916 | 0.442 | | 0.85 | 1.18 | <= | 0.48 | 0.003 | 0.00 | 3.34 | 0.00 | 18.91 | 18.97 |
| 19.04 | 141.75 | 1.2681 | 71.20 | 1.14 | 1.60% | 1.630 | 0.66 | 70.92 | 2.17 | 1.59 | 111 | 0.207 | 0.408 | 0.95 | 0.282 | 0.484 | 854.58 | 4.402 | 1.659E+05 | 2.030E+06 | 12.24 | 0.1542 | 0.917 | 0.443 | | 0.92 | 1.27 | <= | 0.34 | 0.003 | 0.00 | 3.34 | 0.00 | 18.97 | 19.04 |
| 19.13 | 141.93 | 1.2745 | 59.09 | 1.24 | 2.10% | 2.145 | 0.70 | 58.42 | 2.31 | 1.98 | 114 | 0.217 | 0.485 | 0.95 | 0.285 | 0.484 | 868.80 | 4.408 | 1.712E+05 | 2.030E+06 | 11.85 | 0.1542 | 0.918 | 0.444 | | 1.09 | 1.50 | | 0.00 | 0.000 | 0.00 | 3.33 | 0.00 | | |
| 19.18 | 141.05 | 1.2780 | 36.63 | 1.29 | 3.52% | 3.649 | 0.79 | 35.65 | 2.62 | 3.46 | 122 | 0.249 | 0.315 | 0.95 | 0.286 | 0.485 | 875.49 | 4.380 | 1.750E+05 | 2.030E+06 | 11.60 | 0.1542 | 0.918 | 0.445 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.33 | 0.00 | | |
| 19.25 | 141.09 | 1.2829 | 37.02 | 1.29 | 3.48% | 3.610 | 0.79 | 35.94 | 2.62 | 3.42 | 122 | 0.248 | 0.307 | 0.95 | 0.289 | 0.485 | 875.49 | 4.382 | 1.749E+05 | 2.030E+06 | 11.60 | 0.1542 | 0.918 | 0.445 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.33 | 0.00 | | |
| 19.31 | 140.96 | 1.2872 | 34.38 | 1.30 | 3.78% | 3.928 | 0.81 | 33.20 | 2.67 | 3.75 | 124 | 0.256 | 0.324 | 0.95 | 0.290 | 0.485 | 876.80 | 4.378 | 1.756E+05 | 2.030E+06 | 11.56 | 0.1542 | 0.918 | 0.446 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.33 | 0.00 | | |
| 19.36 | 141.00 | 1.2907 | 33.50 | 1.32 | 3.94% | 4.098 | 0.81 | 32.25 | 2.69 | 3.90 | 129 | 0.278 | 0.352 | 0.95 | 0.292 | 0.486 | 879.38 | 4.379 | 1.766E+05 | 2.030E+06 | 11.50 | 0.1542 | 0.919 | 0.446 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.33 | 0.00 | | |
| 19.44 | 140.67 | 1.2963 | 32.52 | 1.28 | 3.94% | 4.099 | 0.82 | 31.17 | 2.70 | 3.98 | 131 | 0.290 | 0.367 | 0.95 | 0.295 | 0.486 | 874.17 | 4.369 | 1.749E+05 | 2.030E+06 | 11.61 | 0.1542 | 0.918 | 0.447 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.33 | 0.00 | | |
| 19.53 | 141.63 | 1.3027 | 35.36 | 1.41 | 3.99% | 4.140 | 0.81 | 33.88 | 2.67 | 3.81 | 128 | 0.276 | 0.349 | 0.95 | 0.297 | 0.487 | 890.54 | 4.398 | 1.803E+05 | 2.030E+06 | 11.26 | 0.1542 | 0.919 | 0.447 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.33 | 0.00 | | |
| 19.55 | 142.10 | 1.3041 | 39.95 | 1.45 | 3.63% | 3.752 | 0.79 | 38.41 | 2.61 | 3.36 | 128 | 0.275 | 0.334 | 0.95 | 0.298 | 0.487 | 895.27 | 4.413 | 1.816E+05 | 2.030E+06 | 11.18 | 0.1542 | 0.919 | 0.448 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.33 | 0.00 | | |
| 19.62 | 143.22 | 1.3091 | 53.23 | 1.53 | 2.87% | 2.947 | 0.74 | 51.46 | 2.44 | 2.49 | 127 | 0.271 | 0.303 | 0.95 | 0.300 | 0.487 | 904.35 | 4.448 | 1.839E+05 | 2.030E+06 | 11.04 | 0.1542 | 0.920 | 0.448 | | 0.68 | 0.93 | <= | 1.07 | 0.009 | 0.00 | 3.33 | 0.00 | 19.55 | 19.62 |
| 19.71 | 144.16 | 1.3156 | 78.92 | 1.53 | 1.94% | 1.972 | 0.67 | 76.63 | 2.20 | 1.66 | 126 | 0.265 | 0.443 | 0.95 | 0.303 | 0.488 | 904.35 | 4.477 | 1.827E+05 | 2.030E+06 | 11.11 | 0.1542 | 0.920 | 0.449 | | 0.99 | 1.36 | | 0.00 | 0.000 | 0.00 | 3.33 | 0.00 | | |
| 19.76 | 144.39 | 1.3192 | 92.20 | 1.50 | 1.63% | 1.651 | 0.64 | 89.56 | 2.09 | 1.44 | 128 | 0.275 | 0.400 | 0.95 | 0.305 | 0.488 | 901.00 | 4.484 | 1.810E+05 | 2.030E+06 | 11.21 | 0.1542 | 0.919 | 0.449 | | 0.89 | 1.23 | <= | 0.27 | 0.002 | 0.00 | 3.33 | 0.00 | 19.71 | 19.76 |
| 19.84 | 144.64 | 1.3250 | 107.63 | 1.47 | 1.37% | 1.383 | 0.61 | 104.42 | 1.99 | 1.29 | 134 | 0.302 | 0.368 | 0.95 | 0.307 | 0.489 | 897.59 | 4.492 | 1.794E+05 | 2.030E+06 | 11.32 | 0.1542 | 0.919 | 0.449 | | 0.82 | 1.13 | <= | 0.36 | 0.003 | 0.00 | 3.32 | 0.00 | 19.76 | 19.84 |
| 19.89 | 144.76 | 1.3286 | 113.98 | 1.47 | 1.29% | 1.305 | 0.60 | 110.44 | 1.96 | 1.25 | 137 | 0.318 | 0.347 | 0.95 | 0.309 | 0.489 | 897.59 | 4.496 | 1.792E+05 | 2.030E+06 | 11.33 | 0.1542 | 0.919 | 0.449 | | 0.77 | 1.06 | <= | 0.58 | 0.003 | 0.00 | 3.32 | 0.00 | 19.84 | 19.89 |
| 19.97 | 144.81 | 1.3344 | 120.72 | 1.45 | 1.20% | 1.215 | 0.58 | 116.66 | 1.92 | 1.21 | 140 | 0.334 | 0.334 | 0.95 | 0.311 | 0.489 | 895.27 | 4.497 | 1.782E+05 | 2.030E+06 | 11.39 | 0.1542 | 0.919 | 0.450 | | 0.74 | 1.02 | <= | 0.49 | 0.005 | 0.00 | 3.32 | 0.00 | 19.89 | 19.97 |
| 20.03 | 144.97 | 1.3388 | 126.19 | 1.46 | 1.16% | 1.169 | 0.58 | 121.71 | 1.89 | 1.18 | 143 | 0.352 | 0.352 | 0.95 | 0.313 | 0.490 | 896.43 | 4.502 | 1.785E+05 | 2.030E+06 | 11.37 | 0.1542 | 0.919 | 0.450 | | 0.78 | 1.08 | <= | 0.59 | 0.004 | 0.00 | 3.31 | 0.00 | 19.97 | 20.03 |
| 20.10 | 145.59 | 1.3439 | 137.81 | 1.54 | 1.12% | 1.128 | 0.56 | 132.65 | 1.85 | 1.15 | 152 | 0.405 | 0.405 | 0.95 | 0.315 | 0.490 | 905.45 | 4.521 | 1.813E+05 | 2.030E+06 | 11.20 | 0.1542 | 0.919 | 0.451 | | 0.90 | 1.24 | <= | 0.24 | 0.002 | 0.00 | 3.31 | 0.00 | 20.03 | 20.10 |
| 20.16 | 146.17 | 1.3483 | 149.63 | 1.63 | 1.09% | 1.099 | 0.55 | 143.79 | 1.82 | 1.12 | 161 | 0.467 | 0.467 | 0.95 | 0.317 | 0.490 | 915.06 | 4.539 | 1.845E+05 | 2.030E+06 | 11.01 | 0.1542 | 0.920 | 0.451 | | 1.03 | 1.42 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.25 | 147.21 | 1.3549 | 165.74 | 1.81 | 1.09% | 1.101 | 0.55 | 158.81 | 1.79 | 1.10 | 174 | 0.572 | 0.572 | 0.95 | 0.320 | 0.491 | 932.78 | 4.572 | 1.903E+05 | 2.030E+06 | 10.67 | 0.1542 | 0.921 | 0.452 | | 1.27 | 1.74 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.29 | 147.62 | 1.3578 | 173.07 | 1.89 | 1.09% | 1.101 | 0.54 | 165.62 | 1.78 | 1.09 | 180 | 0.625 | 0.625 | 0.95 | 0.321 | 0.491 | 940.10 | 4.584 | 1.928E+05 | 2.030E+06 | 10.53 | 0.1542 | 0.921 | 0.452 | | 1.38 | 1.90 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.38 | 148.28 | 1.3645 | 186.65 | 2.01 | 1.08% | 1.085 | 0.53 | 178.05 | 1.75 | 1.07 | 191 | 0.727 | 0.727 | 0.95 | 0.324 | 0.492 | 950.51 | 4.605 | 1.962E+05 | 2.030E+06 | 10.35 | 0.1542 | 0.922 | 0.453 | | 1.60 | 2.21 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.42 | 148.56 | 1.3675 | 192.70 | 2.07 | 1.07% | 1.082 | 0.53 | 183.55 | 1.74 | 1.06 | 196 | 0.776 | 0.776 | 0.95 | 0.325 | 0.492 | 955.49 | 4.614 | 1.979E+05 | 2.030E+06 | 10.26 | 0.1542 | 0.922 | 0.453 | | 1.71 | 2.36 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.51 | 149.05 | 1.3742 | 201.69 | 2.18 | 1.08% | 1.088 | 0.53 | 191.46 | 1.73 | 1.06 | 203 | 0.857 | 0.857 | 0.95 | 0.328 | 0.492 | 964.25 | 4.629 | 2.009E+05 | 2.030E+06 | 10.11 | 0.1542 | 0.922 | 0.454 | | 1.89 | 2.60 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.56 | 149.19 | 1.3779 | 204.72 | 2.21 | 1.08% | 1.087 | 0.53 | 193.95 | 1.72 | 1.05 | 205 | 0.884 | 0.884 | 0.95 | 0.329 | 0.492 | 966.56 | 4.633 | 2.016E+05 | 2.030E+06 | 10.07 | 0.1542 | 0.922 | 0.454 | | 1.95 | 2.68 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.61 | 149.28 | 1.3816 | 208.62 | 2.23 | 1.07% | 1.076 | 0.52 | 197.25 | 1.72 | 1.05 | 208 | 0.914 | 0.914 | 0.95 | 0.331 | 0.493 | 968.08 | 4.636 | 2.022E+05 | 2.030E+06 | 10.04 | 0.1542 | 0.922 | 0.454 | | 2.01 | 2.77 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.69 | 149.26 | 1.3876 | 210.77 | 2.21 | 1.05% | 1.055 | 0.52 | 198.64 | 1.71 | 1.04 | 208 | 0.922 | 0.922 | 0.95 | 0.334 | 0.493 | 966.56 | 4.635 | 2.015E+05 | 2.030E+06 | 10.07 | 0.1542 | 0.922 | 0.455 | | 2.03 | 2.79 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.74 | 149.22 | 1.3913 | 211.75 | 2.20 | 1.04% | 1.046 | 0.52 | 199.15 | 1.70 | 1.04 | 208 | 0.916 | 0.916 | 0.95 | 0.335 | 0.493 | 965.79 | 4.634 | 2.013E+05 | 2.030E+06 | 10.09 | 0.1542 | 0.922 | 0.455 | | 2.01 | 2.77 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.81 | 147.39 | 1.3965 | 214.09 | 1.70 | 0.79% | 0.799 | 0.50 | 200.80 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.337 | 0.494 | 922.18 | 4.577 | 1.858E+05 | 2.030E+06 | 10.93 | 0.1542 | 0.920 | 0.454 | | 1.81 | 2.50 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.88 | 143.75 | 1.4015 | 217.51 | 1.03 | 0.47% | 0.477 | 0.50 | 203.48 | 1.46 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.339 | 0.494 | 837.41 | 4.464 | 1.571E+05 | 2.030E+06 | 12.92 | 0.1542 | 0.915 | 0.452 | | 1.82 | 2.51 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 20.96 | 144.22 | 1.4073 | 219.56 | 1.10 | 0.50% | 0.504 | 0.50 | 204.77 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.342 | 0.494 | 848.54 | 4.479 | 1.608E+05 | 2.030E+06 | 12.63 | 0.1542 | 0.916 | 0.453 | | 1.82 | 2.50 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.00 | 144.66 | 1.4102 | 221.22 | 1.16 | 0.52% | 0.528 | 0.50 | 206.01 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.343 | 0.495 | 857.52 | 4.493 | 1.637E+05 | 2.030E+06 | 12.40 | 0.1542 | 0.916 | 0.453 | | 1.82 | 2.50 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.09 | 145.44 | 1.4167 | 221.90 | 1.29 | 0.58% | 0.585 | 0.50 | 205.92 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.346 | 0.495 | 875.49 | 4.517 | 1.697E+05 | 2.030E+06 | 11.96 | 0.1542 | 0.917 | 0.454 | | 1.81 | 2.50 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.14 | 145.67 | 1.4204 | 219.37 | 1.34 | 0.61% | 0.615 | 0.50 | 203.16 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.95 | 0.348 | 0.495 | 881.92 | 4.524 | 1.719E+05 | 2.030E+06 | 11.81 | 0.1542 | 0.918 | 0.455 | | 1.81 | 2.49 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.20 | 145.50 | 1.4248 | 192.51 | 1.36 | 0.71% | 0.712 | 0.50 | 177.70 | 1.62 | 1.00 | 181 | 0.629 | 0.629 | 0.95 | 0.349 | 0.496 | 884.43 | 4.519 | 1.731E+05 | 2.030E+06 | 11.73 | 0.1542 | 0.918 | 0.455 | | 1.38 | 1.90 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.27 | 145.80 | 1.4299 | 203.84 | 1.39 | 0.68% | 0.687 | 0.50 | 187.72 | 1.59 | 1.00 | 191 | 0.729 | 0.729 | 0.95 | 0.352 | 0.496 | 888.12 | 4.528 | 1.742E+05 | 2.030E+06 | 11.65 | 0.1542 | 0.918 | 0.455 | | 1.60 | 2.20 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.35 | 146.07 | 1.4357 | 202.57 | 1.45 | 0.72% | 0.721 | 0.50 | 185.96 | 1.61 | 1.00 | 190 | 0.714 | 0.714 | 0.95 | 0.354 | 0.496 | 895.27 | 4.536 | 1.767E+05 | 2.030E+06 | 11.49 | 0.1542 | 0.919 | 0.456 | | 1.57 | 2.16 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.40 | 146.19 | 1.4394 | 202.47 | 1.47 | 0.73% | 0.731 | 0.50 | 185.51 | 1.61 | 1.00 | 189 | 0.711 | 0.711 | 0.95 | 0.356 | 0.497 | 897.59 | 4.540 | 1.775E+05 | 2.030E+06 | 11.44 | 0.1542 | 0.919 | 0.456 | | 1.56 | 2.15 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.47 | 146.26 | 1.4445 | 201.69 | 1.49 | 0.74% | 0.744 | 0.50 | 184.29 | 1.62 | 1.00 | 188 | 0.702 | 0.702 | 0.95 | 0.358 | 0.497 | 899.87 | 4.542 | 1.783E+05 | 2.030E+06 | 11.39 | 0.1542 | 0.919 | 0.457 | | 1.54 | 2.11 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.53 | 146.34 | 1.4489 | 202.37 | 1.50 | 0.74% | 0.747 | 0.50 | 184.48 | 1.62 | 1.00 | 189 | 0.706 | 0.706 | 0.95 | 0.360 | 0.497 | 901.00 | 4.545 | 1.786E+05 | 2.030E+06 | 11.36 | 0.1542 | 0.919 | 0.457 | | 1.54 | 2.13 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.61 | 146.32 | 1.4547 | 201.88 | 1.50 | 0.74% | 0.748 | 0.50 | 183.46 | 1.62 | 1.00 | 188 | 0.698 | 0.698 | 0.95 | 0.362 | 0.498 | 901.00 | 4.544 | 1.786E+05 | 2.030E+06 | 11.36 | 0.1542 | 0.919 | 0.457 | | 1.53 | 2.10 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.66 | 146.27 | 1.4584 | 201.10 | 1.49 | 0.74% | 0.746 | 0.50 | 182.39 | 1.62 | 1.00 | 187 | 0.689 | 0.689 | 0.95 | 0.364 | 0.498 | 899.87 | 4.543 | 1.783E+05 | 2.030E+06 | 11.39 | 0.1542 | 0.919 | 0.457 | | 1.51 | 2.07 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.76 | 146.18 | 1.4657 | 196.22 | 1.49 | 0.76% | 0.765 | 0.50 | 177.25 | 1.64 | 1.00 | 182 | 0.642 | 0.642 | 0.95 | 0.367 | 0.498 | 899.87 | 4.540 | 1.784E+05 | 2.030E+06 | 11.38 | 0.1542 | 0.919 | 0.458 | | 1.40 | 1.93 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.79 | 146.16 | 1.4679 | 195.24 | 1.48 | 0.76% | 0.764 | 0.50 | 176.15 | 1.64 | 1.00 | 181 | 0.633 | 0.633 | 0.95 | 0.368 | 0.498 | 898.73 | 4.539 | 1.779E+05 | 2.030E+06 | 11.41 | 0.1542 | 0.919 | 0.458 | | 1.38 | 1.90 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.89 | 145.89 | 1.4752 | 191.43 | 1.44 | 0.75% | 0.758 | 0.50 | 172.03 | 1.64 | 1.00 | 177 | 0.596 | 0.596 | 0.95 | 0.371 | 0.499 | 894.10 | 4.531 | 1.764E+05 | 2.030E+06 | 11.51 | 0.1542 | 0.919 | 0.458 | | 1.30 | 1.79 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 21.93 | 145.83 | 1.4781 | 188.89 | 1.44 | 0.76% | 0.768 | 0.50 | 169.47 | 1.65 | 1.00 | 176 | 0.583 | 0.583 | 0.95 | 0.372 | 0.499 | 894.10 | 4.529 | 1.765E+05 | 2.030E+06 | 11.50 | 0.1542 | 0.919 | 0.458 | | 1.27 | 1.75 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 22.00 | 145.72 | 1.4832 | 184.59 | 1.43 | 0.77% | 0.781 | 0.51 | 165.14 | 1.66 | 1.01 | 173 | 0.560 | 0.560 | 0.95 | 0.374 | 0.499 | 892.92 | 4.525 | 1.762E+05 | 2.030E+06 | 11.52 | 0.1542 | 0.919 | 0.459 | | 1.22 | 1.68 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 22.06 | 145.66 | 1.4876 | 180.88 | 1.42 | 0.79% | 0.792 | 0.51 | 161.43 | 1.68 | 1.02 | 170 | 0.539 | 0.539 | 0.95 | 0.376 | 0.500 | 891.73 | 4.524 | 1.758E+05 | 2.030E+06 | 11.55 | 0.1542 | 0.918 | 0.459 | | 1.18 | 1.62 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 22.15 | 145.72 | 1.4941 | 175.41 | 1.45 | 0.83% | 0.834 | 0.52 | 155.97 | 1.70 | 1.04 | 168 | 0.518 | 0.518 | 0.95 | 0.379 | 0.500 | 895.27 | 4.525 | 1.771E+05 | 2.030E+06 | 11.46 | 0.1542 | 0.919 | 0.459 | | 1.13 | 1.55 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 22.20 | 145.77 | 1.4978 | 172.87 | 1.47 | 0.85% | 0.858 | 0.52 | 153.41 | 1.72 | 1.05 | 166 | 0.508 | 0.508 | 0.95 | 0.381 | 0.500 | 897.59 | 4.527 | 1.780E+05 | 2.030E+06 | 11.41 | 0.1542 | 0.919 | 0.460 | | 1.11 | 1.52 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 22.24 | 145.83 | 1.5007 | 171.51 | 1.48 | 0.86% | 0.871 | 0.52 | 151.96 | 1.72 | 1.05 | 166 | 0.503 | 0.503 | 0.95 | 0.382 | 0.501 | 898.73 | 4.529 | 1.783E+05 | 2.030E+06 | 11.38 | 0.1542 | 0.919 | 0.460 | | 1.09 | 1.50 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 22.33 | 146.04 | 1.5072 | 169.85 | 1.53 | 0.90% | 0.909 | 0.53 | 149.96 | 1.74 | 1.06 | 165 | 0.501 | 0.501 | 0.95 | 0.385 | 0.501 | 904.35 | 4.535 | 1.803E+05 | 2.030E+06 | 11.26 | 0.1542 | 0.919 | 0.460 | | 1.09 | 1.50 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 22.38 | 146.15 | 1.5109 | 166.04 | 1.57 | 0.95% | 0.954 | 0.54 | 146.29 | 1.76 | 1.08 | 164 | 0.488 | 0.488 | 0.95 | 0.386 | 0.501 | 908.72 | 4.539 | 1.819E+05 | 2.030E+06 | 11.16 | 0.1542 | 0.919 | 0.461 | | 1.06 | 1.46 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 22.45 | 146.80 | 1.5160 | 155.20 | 1.75 | 1.13% | 1.139 | 0.56 | 136.29 | 1.84 | 1.13 | 160 | 0.462 | 0.462 | 0.95 | 0.388 | 0.501 | 927.08 | 4.559 | 1.885E+05 | 2.030E+06 | 10.77 | 0.1542 | 0.920 | 0.462 | | 1.00 | 1.38 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 22.51 | 147.27 | 1.5205 | 145.23 | 1.91 | 1.32% | 1.329 | 0.58 | 127.16 | 1.90 | 1.19 | 157 | 0.441 | 0.441 | 0.95 | 0.390 | 0.502 | 941.88 | 4.574 | 1.940E+05 | 2.030E+06 | 10.47 | 0.1542 | 0.921 | 0.462 | | 0.95 | 1.31 | | 0.00 | 0.000 | 0.00 | 3.31 | 0.00 | | |
| 22.60 | 148.04 | 1.5271 | 127.17 | 2.22 | 1.75% | 1.767 | 0.62 | 110.80 | 2.04 | 1.35 | 155 | 0.423 | 0.423 | 0.95 | 0.393 | 0.502 | 967.32 | 4.598 | 2.035E+05 | 2.030E+06 | 9.97 | 0.1542 | 0.923 | 0.463 | | 0.91 | 1.26 | <= | 0.26 | 0.003 | 0.00 | 3.31 | 0.00 | 22.51 | 22.60 |
| 22.64 | 148.29 | 1.5301 | 113.69 | 2.38 | 2.09% | 2.122 | 0.65 | 98.76 | 2.13 | 1.51 | 154 | 0.417 | 0.417 | 0.95 | 0.394 | 0.502 | 979.09 | 4.605 | 2.082E+05 | 2.030E+06 | 9.75 | 0.1542 | 0.924 | 0.464 | | 0.90 | 1.24 | <= | 0.24 | 0.001 | 0.00 | 3.30 | 0.00 | 22.60 | 22.64 |
| 22.73 | 142.02 | 1.5365 | 90.15 | 1.09 | 1.21% | 1.230 | 0.62 | 77.78 | 2.04 | 1.36 | 109 | 0.201 | 0.345 | 0.95 | 0.397 | 0.503 | 846.99 | 4.411 | 1.627E+05 | 2.030E+06 | 12.48 | 0.1542 | 0.916 | 0.460 | | 0.75 | 1.03 | <= | 0.61 | 0.007 | 0.00 | 3.30 | 0.00 | 22.64 | 22.73 |
| 22.78 | 142.40 | 1.5400 | 75.11 | 1.22 | 1.62% | 1.658 | 0.66 | 64.46 | 2.19 | 1.64 | 109 | 0.200 | 0.386 | 0.95 | 0.399 | 0.503 | 866.05 | 4.422 | 1.696E+05 | 2.030E+06 | 11.97 | 0.1542 | 0.917 | 0.461 | | 0.84 | 1.15 | <= | 0.45 | 0.003 | 0.00 | 3.30 | 0.00 | 22.73 | 22.78 |
| 22.86 | 142.99 | 1.5458 | 60.36 | 1.42 | 2.35% | 2.414 | 0.72 | 51.39 | 2.37 | 2.20 | 116 | 0.225 | 0.488 | 0.95 | 0.401 | 0.503 | 891.73 | 4.441 | 1.791E+05 | 2.030E+06 | 11.34 | 0.1542 | 0.919 | 0.462 | | 1.05 | 1.45 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 22.91 | 143.12 | 1.5493 | 58.31 | 1.47 | 2.52% | 2.590 | 0.73 | 49.51 | 2.40 | 2.33 | 118 | 0.234 | 0.536 | 0.95 | 0.403 | 0.503 | 897.59 | 4.445 | 1.813E+05 | 2.030E+06 | 11.20 | 0.1542 | 0.919 | 0.463 | | 1.16 | 1.59 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.00 | 143.52 | 1.5558 | 59.68 | 1.54 | 2.58% | 2.649 | 0.73 | 50.53 | 2.40 | 2.33 | 121 | 0.244 | 0.530 | 0.95 | 0.406 | 0.504 | 905.45 | 4.457 | 1.839E+05 | 2.030E+06 | 11.04 | 0.1542 | 0.920 | 0.463 | | 1.14 | 1.57 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.03 | 142.43 | 1.5579 | 35.84 | 1.57 | 4.38% | 4.580 | 0.83 | 29.77 | 2.74 | 4.27 | 141 | 0.341 | 0.341 | 0.95 | 0.407 | 0.504 | 908.72 | 4.423 | 1.867E+05 | 2.030E+06 | 10.87 | 0.1542 | 0.920 | 0.464 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.11 | 145.41 | 1.5637 | 103.63 | 1.66 | 1.60% | 1.626 | 0.63 | 88.39 | 2.08 | 1.42 | 130 | 0.285 | 0.375 | 0.95 | 0.409 | 0.504 | 918.15 | 4.516 | 1.867E+05 | 2.030E+06 | 10.87 | 0.1542 | 0.920 | 0.464 | | 0.81 | 1.11 | <= | 0.35 | 0.003 | 0.00 | 3.29 | 0.00 | 23.03 | 23.11 |
| 23.19 | 146.33 | 1.5696 | 136.64 | 1.71 | 1.25% | 1.266 | 0.58 | 116.63 | 1.91 | 1.20 | 147 | 0.373 | 0.373 | 0.95 | 0.412 | 0.505 | 923.17 | 4.544 | 1.875E+05 | 2.030E+06 | 10.82 | 0.1542 | 0.920 | 0.464 | | 0.80 | 1.11 | <= | 0.31 | 0.003 | 0.00 | 3.29 | 0.00 | 23.11 | 23.19 |
| 23.24 | 146.68 | 1.5733 | 154.51 | 1.72 | 1.11% | 1.125 | 0.56 | 131.82 | 1.84 | 1.14 | 157 | 0.441 | 0.441 | 0.94 | 0.413 | 0.505 | 924.15 | 4.555 | 1.875E+05 | 2.030E+06 | 10.83 | 0.1542 | 0.920 | 0.465 | | 0.95 | 1.31 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.30 | 146.93 | 1.5777 | 169.75 | 1.73 | 1.02% | 1.029 | 0.54 | 144.64 | 1.78 | 1.09 | 167 | 0.509 | 0.509 | 0.94 | 0.415 | 0.505 | 925.13 | 4.563 | 1.876E+05 | 2.030E+06 | 10.82 | 0.1542 | 0.920 | 0.465 | | 1.10 | 1.51 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.38 | 147.34 | 1.5836 | 186.35 | 1.77 | 0.95% | 0.958 | 0.53 | 158.45 | 1.73 | 1.06 | 177 | 0.597 | 0.597 | 0.94 | 0.417 | 0.505 | 929.00 | 4.576 | 1.886E+05 | 2.030E+06 | 10.76 | 0.1542 | 0.921 | 0.465 | | 1.28 | 1.77 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.43 | 147.65 | 1.5873 | 195.14 | 1.82 | 0.93% | 0.940 | 0.52 | 165.68 | 1.71 | 1.05 | 183 | 0.651 | 0.651 | 0.94 | 0.419 | 0.505 | 933.71 | 4.585 | 1.901E+05 | 2.030E+06 | 10.68 | 0.1542 | 0.921 | 0.465 | | 1.40 | 1.92 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.50 | 148.44 | 1.5924 | 203.45 | 2.00 | 0.98% | 0.991 | 0.52 | 172.34 | 1.71 | 1.05 | 191 | 0.729 | 0.729 | 0.94 | 0.421 | 0.506 | 949.67 | 4.610 | 1.956E+05 | 2.030E+06 | 10.38 | 0.1542 | 0.921 | 0.466 | | 1.56 | 2.15 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.56 | 148.99 | 1.5969 | 208.23 | 2.14 | 1.03% | 1.036 | 0.52 | 176.03 | 1.72 | 1.05 | 196 | 0.783 | 0.783 | 0.94 | 0.423 | 0.506 | 961.11 | 4.627 | 1.996E+05 | 2.030E+06 | 10.17 | 0.1542 | 0.922 | 0.466 | | 1.68 | 2.31 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.65 | 149.67 | 1.6037 | 213.60 | 2.33 | 1.09% | 1.099 | 0.53 | 180.00 | 1.73 | 1.06 | 202 | 0.851 | 0.851 | 0.94 | 0.426 | 0.506 | 975.50 | 4.648 | 2.047E+05 | 2.030E+06 | 9.92 | 0.1542 | 0.923 | 0.467 | | 1.82 | 2.51 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |

**LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA** | TEST LOCATION: **CPT-4**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2

Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A ($ft^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.70 | 149.98 | 1.6074 | 217.31 | 2.42 | 1.11% | 1.122 | 0.53 | 182.80 | 1.74 | 1.06 | 206 | 0.892 | 0.892 | 0.94 | 0.427 | 0.506 | 981.91 | 4.658 | 2.070E+05 | 2.030E+06 | 9.81 | 0.1542 | 0.923 | 0.468 | | 1.91 | 2.63 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.79 | 150.55 | 1.6142 | 220.83 | 2.60 | 1.18% | 1.186 | 0.53 | 185.16 | 1.75 | 1.07 | 211 | 0.949 | 0.949 | 0.94 | 0.430 | 0.507 | 994.05 | 4.675 | 2.113E+05 | 2.030E+06 | 9.61 | 0.1542 | 0.924 | 0.468 | | 2.03 | 2.79 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.83 | 150.77 | 1.6172 | 223.17 | 2.67 | 1.20% | 1.205 | 0.53 | 186.85 | 1.75 | 1.07 | 213 | 0.979 | 0.979 | 0.94 | 0.431 | 0.507 | 998.54 | 4.682 | 2.129E+05 | 2.030E+06 | 9.53 | 0.1542 | 0.925 | 0.469 | | 2.09 | 2.87 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.89 | 150.99 | 1.6217 | 224.59 | 2.74 | 1.22% | 1.229 | 0.53 | 187.59 | 1.76 | 1.08 | 215 | 1.000 | 1.000 | 0.94 | 0.433 | 0.507 | 1002.92 | 4.689 | 2.145E+05 | 2.030E+06 | 9.46 | 0.1542 | 0.925 | 0.469 | | 2.13 | 2.93 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 23.96 | 151.19 | 1.6270 | 225.52 | 2.81 | 1.25% | 1.255 | 0.54 | 187.91 | 1.76 | 1.08 | 216 | 1.017 | 1.017 | 0.94 | 0.436 | 0.507 | 1007.19 | 4.695 | 2.160E+05 | 2.030E+06 | 9.40 | 0.1542 | 0.925 | 0.470 | | 2.17 | 2.98 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.05 | 151.29 | 1.6338 | 224.54 | 2.86 | 1.27% | 1.283 | 0.54 | 186.46 | 1.77 | 1.09 | 216 | 1.016 | 1.016 | 0.94 | 0.438 | 0.508 | 1010.17 | 4.698 | 2.172E+05 | 2.030E+06 | 9.35 | 0.1542 | 0.926 | 0.470 | | 2.16 | 2.98 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.09 | 151.33 | 1.6369 | 225.57 | 2.87 | 1.27% | 1.282 | 0.54 | 187.04 | 1.77 | 1.09 | 217 | 1.025 | 1.025 | 0.94 | 0.440 | 0.508 | 1010.76 | 4.700 | 2.174E+05 | 2.030E+06 | 9.34 | 0.1542 | 0.926 | 0.470 | | 2.18 | 3.00 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.17 | 151.38 | 1.6429 | 224.54 | 2.89 | 1.29% | 1.297 | 0.54 | 185.62 | 1.78 | 1.09 | 216 | 1.017 | 1.017 | 0.94 | 0.442 | 0.508 | 1011.94 | 4.701 | 2.178E+05 | 2.030E+06 | 9.32 | 0.1542 | 0.926 | 0.470 | | 2.16 | 2.97 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.22 | 151.41 | 1.6467 | 225.62 | 2.90 | 1.29% | 1.295 | 0.54 | 186.17 | 1.77 | 1.09 | 217 | 1.025 | 1.025 | 0.94 | 0.444 | 0.508 | 1012.52 | 4.702 | 2.180E+05 | 2.030E+06 | 9.31 | 0.1542 | 0.926 | 0.471 | | 2.18 | 3.00 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.31 | 151.45 | 1.6535 | 227.76 | 2.90 | 1.27% | 1.283 | 0.54 | 187.32 | 1.77 | 1.08 | 217 | 1.028 | 1.028 | 0.94 | 0.446 | 0.509 | 1012.52 | 4.703 | 2.180E+05 | 2.030E+06 | 9.31 | 0.1542 | 0.926 | 0.471 | | 2.18 | 3.00 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.35 | 151.50 | 1.6565 | 229.82 | 2.92 | 1.27% | 1.280 | 0.54 | 188.75 | 1.77 | 1.08 | 216 | 1.023 | 1.023 | 0.94 | 0.448 | 0.509 | 1013.68 | 4.705 | 2.184E+05 | 2.030E+06 | 9.29 | 0.1542 | 0.926 | 0.471 | | 2.17 | 2.99 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.41 | 151.62 | 1.6611 | 232.45 | 2.95 | 1.27% | 1.278 | 0.54 | 190.50 | 1.76 | 1.08 | 216 | 1.016 | 1.016 | 0.94 | 0.450 | 0.509 | 1015.41 | 4.709 | 2.190E+05 | 2.030E+06 | 9.27 | 0.1542 | 0.926 | 0.471 | | 2.16 | 2.97 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.50 | 151.67 | 1.6679 | 234.50 | 2.96 | 1.26% | 1.271 | 0.54 | 191.55 | 1.76 | 1.08 | 215 | 1.010 | 1.010 | 0.94 | 0.452 | 0.509 | 1015.99 | 4.710 | 2.191E+05 | 2.030E+06 | 9.26 | 0.1542 | 0.926 | 0.472 | | 2.14 | 2.95 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.54 | 151.67 | 1.6709 | 234.11 | 2.97 | 1.27% | 1.278 | 0.54 | 190.95 | 1.76 | 1.08 | 216 | 1.014 | 1.014 | 0.94 | 0.454 | 0.509 | 1016.56 | 4.710 | 2.194E+05 | 2.030E+06 | 9.25 | 0.1542 | 0.926 | 0.472 | | 2.15 | 2.96 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.64 | 151.69 | 1.6785 | 231.77 | 2.98 | 1.29% | 1.295 | 0.54 | 188.33 | 1.77 | 1.08 | 217 | 1.028 | 1.028 | 0.94 | 0.457 | 0.510 | 1017.12 | 4.711 | 2.196E+05 | 2.030E+06 | 9.24 | 0.1542 | 0.926 | 0.472 | | 2.18 | 3.00 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.68 | 151.69 | 1.6816 | 229.91 | 2.99 | 1.30% | 1.310 | 0.54 | 186.53 | 1.77 | 1.09 | 218 | 1.040 | 1.040 | 0.94 | 0.458 | 0.510 | 1017.69 | 4.711 | 2.199E+05 | 2.030E+06 | 9.23 | 0.1542 | 0.926 | 0.472 | | 2.20 | 3.03 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.76 | 151.67 | 1.6876 | 227.47 | 3.00 | 1.32% | 1.329 | 0.54 | 183.99 | 1.78 | 1.09 | 217 | 1.033 | 1.033 | 0.94 | 0.461 | 0.510 | 1018.26 | 4.710 | 2.201E+05 | 2.030E+06 | 9.22 | 0.1542 | 0.926 | 0.472 | | 2.19 | 3.01 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.82 | 151.63 | 1.6922 | 225.81 | 2.99 | 1.32% | 1.334 | 0.54 | 182.24 | 1.79 | 1.10 | 216 | 1.015 | 1.015 | 0.94 | 0.462 | 0.510 | 1017.69 | 4.709 | 2.199E+05 | 2.030E+06 | 9.23 | 0.1542 | 0.926 | 0.473 | | 2.15 | 2.96 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.87 | 151.71 | 1.6960 | 224.35 | 3.03 | 1.35% | 1.361 | 0.55 | 180.72 | 1.80 | 1.10 | 215 | 1.009 | 1.009 | 0.94 | 0.464 | 0.510 | 1019.94 | 4.712 | 2.208E+05 | 2.030E+06 | 9.19 | 0.1542 | 0.926 | 0.473 | | 2.13 | 2.94 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 24.95 | 150.25 | 1.7020 | 221.42 | 2.49 | 1.12% | 1.133 | 0.53 | 177.83 | 1.74 | 1.06 | 205 | 0.885 | 0.885 | 0.94 | 0.466 | 0.511 | 986.74 | 4.666 | 2.087E+05 | 2.030E+06 | 9.73 | 0.1542 | 0.924 | 0.472 | | 1.88 | 2.58 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 25.03 | 147.10 | 1.7079 | 215.07 | 1.64 | 0.76% | 0.769 | 0.50 | 172.22 | 1.63 | 1.00 | 188 | 0.698 | 0.698 | 0.94 | 0.469 | 0.511 | 916.10 | 4.568 | 1.837E+05 | 2.030E+06 | 11.05 | 0.1542 | 0.920 | 0.470 | | 1.48 | 2.04 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 25.08 | 147.16 | 1.7115 | 209.21 | 1.66 | 0.79% | 0.800 | 0.50 | 167.20 | 1.65 | 1.00 | 183 | 0.651 | 0.651 | 0.94 | 0.470 | 0.511 | 918.15 | 4.570 | 1.845E+05 | 2.030E+06 | 11.01 | 0.1542 | 0.920 | 0.470 | | 1.39 | 1.91 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 25.14 | 147.27 | 1.7160 | 203.84 | 1.70 | 0.83% | 0.841 | 0.51 | 162.53 | 1.67 | 1.02 | 181 | 0.631 | 0.631 | 0.94 | 0.472 | 0.511 | 922.18 | 4.574 | 1.859E+05 | 2.030E+06 | 10.92 | 0.1542 | 0.920 | 0.470 | | 1.34 | 1.85 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 25.21 | 147.41 | 1.7211 | 198.07 | 1.75 | 0.88% | 0.891 | 0.52 | 157.51 | 1.70 | 1.04 | 179 | 0.609 | 0.609 | 0.94 | 0.475 | 0.511 | 927.08 | 4.578 | 1.877E+05 | 2.030E+06 | 10.81 | 0.1542 | 0.920 | 0.471 | | 1.29 | 1.78 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 25.27 | 147.17 | 1.7255 | 172.00 | 1.78 | 1.03% | 1.045 | 0.55 | 136.32 | 1.80 | 1.10 | 163 | 0.486 | 0.486 | 0.94 | 0.476 | 0.512 | 929.95 | 4.571 | 1.892E+05 | 2.030E+06 | 10.73 | 0.1542 | 0.921 | 0.471 | | 1.03 | 1.42 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 25.34 | 147.20 | 1.7307 | 173.56 | 1.78 | 1.03% | 1.036 | 0.55 | 137.24 | 1.79 | 1.10 | 164 | 0.492 | 0.492 | 0.94 | 0.479 | 0.512 | 929.95 | 4.571 | 1.892E+05 | 2.030E+06 | 10.73 | 0.1542 | 0.921 | 0.471 | | 1.04 | 1.44 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 25.40 | 147.16 | 1.7351 | 170.34 | 1.78 | 1.04% | 1.056 | 0.55 | 134.39 | 1.80 | 1.11 | 162 | 0.476 | 0.476 | 0.94 | 0.480 | 0.512 | 929.95 | 4.570 | 1.892E+05 | 2.030E+06 | 10.73 | 0.1542 | 0.921 | 0.471 | | 1.01 | 1.39 | | 0.00 | 0.000 | 0.00 | 3.29 | 0.00 | | |
| 25.47 | 147.06 | 1.7402 | 163.11 | 1.78 | 1.09% | 1.103 | 0.56 | 128.32 | 1.83 | 1.13 | 158 | 0.444 | 0.444 | 0.94 | 0.483 | 0.512 | 929.95 | 4.567 | 1.894E+05 | 2.030E+06 | 10.72 | 0.1542 | 0.921 | 0.472 | | 0.94 | 1.30 | <= | 0.29 | 0.002 | 0.00 | 3.29 | 0.00 | 25.40 | 25.47 |
| 25.56 | 146.67 | 1.7468 | 149.53 | 1.74 | 1.16% | 1.177 | 0.57 | 117.16 | 1.88 | 1.17 | 149 | 0.387 | 0.387 | 0.94 | 0.485 | 0.512 | 926.11 | 4.555 | 1.883E+05 | 2.030E+06 | 10.78 | 0.1542 | 0.920 | 0.472 | | 0.82 | 1.13 | <= | 0.34 | 0.004 | 0.00 | 3.28 | 0.00 | 25.47 | 25.56 |
| 25.61 | 146.21 | 1.7505 | 136.35 | 1.68 | 1.23% | 1.248 | 0.59 | 106.53 | 1.93 | 1.22 | 140 | 0.337 | 0.337 | 0.94 | 0.487 | 0.513 | 920.17 | 4.541 | 1.865E+05 | 2.030E+06 | 10.89 | 0.1542 | 0.920 | 0.472 | | 0.71 | 0.98 | <= | 0.89 | 0.005 | 0.00 | 3.28 | 0.00 | 25.56 | 25.61 |
| 25.68 | 145.60 | 1.7556 | 121.70 | 1.61 | 1.32% | 1.342 | 0.60 | 94.71 | 1.99 | 1.28 | 131 | 0.291 | 0.329 | 0.94 | 0.489 | 0.513 | 912.97 | 4.522 | 1.843E+05 | 2.030E+06 | 11.01 | 0.1542 | 0.920 | 0.472 | | 0.70 | 0.96 | <= | 0.89 | 0.008 | 0.00 | 3.27 | 0.00 | 25.61 | 25.68 |
| 25.74 | 145.15 | 1.7600 | 106.46 | 1.58 | 1.48% | 1.509 | 0.63 | 82.51 | 2.07 | 1.40 | 124 | 0.258 | 0.350 | 0.94 | 0.491 | 0.513 | 909.79 | 4.508 | 1.836E+05 | 2.030E+06 | 11.06 | 0.1542 | 0.920 | 0.472 | | 0.74 | 1.02 | <= | 0.53 | 0.004 | 0.00 | 3.27 | 0.00 | 25.68 | 25.74 |
| 25.80 | 144.86 | 1.7643 | 91.52 | 1.60 | 1.75% | 1.783 | 0.66 | 70.60 | 2.17 | 1.59 | 120 | 0.242 | 0.401 | 0.94 | 0.493 | 0.513 | 911.92 | 4.499 | 1.849E+05 | 2.030E+06 | 10.98 | 0.1542 | 0.920 | 0.472 | | 0.85 | 1.17 | <= | 0.44 | 0.003 | 0.00 | 3.26 | 0.00 | 25.74 | 25.80 |
| 25.87 | 144.71 | 1.7694 | 77.45 | 1.66 | 2.14% | 2.193 | 0.69 | 59.39 | 2.29 | 1.90 | 120 | 0.242 | 0.450 | 0.94 | 0.495 | 0.513 | 918.15 | 4.494 | 1.876E+05 | 2.030E+06 | 10.82 | 0.1542 | 0.920 | 0.473 | | 0.95 | 1.31 | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 25.92 | 144.59 | 1.7730 | 68.08 | 1.70 | 2.50% | 2.564 | 0.72 | 51.95 | 2.38 | 2.22 | 122 | 0.249 | 0.515 | 0.94 | 0.497 | 0.514 | 922.18 | 4.490 | 1.894E+05 | 2.030E+06 | 10.72 | 0.1542 | 0.921 | 0.473 | | 1.09 | 1.50 | | 0.00 | 0.000 | 0.00 | 3.26 | 0.00 | | |
| 26.01 | 144.02 | 1.7795 | 51.57 | 1.73 | 3.35% | 3.475 | 0.78 | 38.90 | 2.56 | 3.10 | 126 | 0.267 | 0.310 | 0.94 | 0.500 | 0.514 | 925.13 | 4.473 | 1.914E+05 | 2.030E+06 | 10.61 | 0.1542 | 0.921 | 0.473 | | 0.66 | 0.90 | <= | 0.73 | 0.008 | 0.00 | 3.26 | 0.00 | 25.92 | 26.01 |
| 26.07 | 143.29 | 1.7838 | 41.22 | 1.69 | 4.10% | 4.285 | 0.82 | 30.75 | 2.70 | 4.00 | 132 | 0.294 | 0.357 | 0.94 | 0.501 | 0.514 | 921.18 | 4.450 | 1.907E+05 | 2.030E+06 | 10.65 | 0.1542 | 0.921 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.12 | 142.45 | 1.7873 | 36.24 | 1.57 | 4.33% | 4.557 | 0.84 | 26.82 | 2.76 | 4.48 | 148 | 0.381 | 0.381 | 0.94 | 0.503 | 0.514 | 908.72 | 4.424 | 1.867E+05 | 2.030E+06 | 10.88 | 0.1542 | 0.920 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.18 | 141.33 | 1.7916 | 30.77 | 1.42 | 4.61% | 4.900 | 0.86 | 22.52 | 2.84 | 5.15 | 170 | 0.538 | 0.538 | 0.94 | 0.505 | 0.514 | 891.73 | 4.389 | 1.812E+05 | 2.030E+06 | 11.20 | 0.1542 | 0.919 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.25 | 140.57 | 1.7965 | 27.93 | 1.32 | 4.73% | 5.051 | 0.87 | 20.27 | 2.89 | 5.56 | 184 | 0.655 | 0.655 | 0.94 | 0.507 | 0.515 | 879.38 | 4.366 | 1.771E+05 | 2.030E+06 | 11.46 | 0.1542 | 0.919 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.32 | 140.12 | 1.8014 | 25.98 | 1.27 | 4.89% | 5.253 | 0.89 | 18.71 | 2.92 | 5.93 | 196 | 0.779 | 0.779 | 0.94 | 0.509 | 0.515 | 872.85 | 4.352 | 1.751E+05 | 2.030E+06 | 11.59 | 0.1542 | 0.918 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.41 | 139.49 | 1.8077 | 23.44 | 1.21 | 5.16% | 5.593 | 0.90 | 16.70 | 2.98 | 6.52 | 215 | 1.008 | 1.008 | 0.94 | 0.512 | 0.515 | 864.66 | 4.332 | 1.726E+05 | 2.030E+06 | 11.76 | 0.1542 | 0.918 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.45 | 139.23 | 1.8104 | 23.34 | 1.17 | 5.01% | 5.434 | 0.90 | 16.60 | 2.97 | 6.45 | 213 | 0.979 | 0.979 | 0.94 | 0.513 | 0.515 | 858.97 | 4.324 | 1.706E+05 | 2.030E+06 | 11.90 | 0.1542 | 0.918 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.51 | 138.78 | 1.8146 | 22.95 | 1.11 | 4.84% | 5.252 | 0.90 | 16.26 | 2.97 | 6.42 | 212 | 0.964 | 0.964 | 0.94 | 0.515 | 0.515 | 850.07 | 4.310 | 1.677E+05 | 2.030E+06 | 12.11 | 0.1542 | 0.917 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.59 | 138.31 | 1.8201 | 22.27 | 1.05 | 4.71% | 5.135 | 0.90 | 15.70 | 2.98 | 6.48 | 214 | 0.988 | 0.988 | 0.94 | 0.518 | 0.516 | 840.67 | 4.295 | 1.645E+05 | 2.030E+06 | 12.34 | 0.1542 | 0.916 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.64 | 138.13 | 1.8236 | 20.80 | 1.05 | 5.05% | 5.533 | 0.91 | 14.55 | 3.02 | 7.00 | 231 | 1.228 | 1.228 | 0.94 | 0.519 | 0.516 | 840.67 | 4.290 | 1.647E+05 | 2.030E+06 | 12.32 | 0.1542 | 0.916 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.72 | 138.32 | 1.8291 | 20.76 | 1.07 | 5.15% | 5.652 | 0.92 | 14.48 | 3.03 | 7.09 | 234 | 1.272 | 1.272 | 0.94 | 0.522 | 0.516 | 843.86 | 4.296 | 1.658E+05 | 2.030E+06 | 12.25 | 0.1542 | 0.917 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.78 | 138.39 | 1.8333 | 20.41 | 1.09 | 5.34% | 5.868 | 0.92 | 14.18 | 3.05 | 7.30 | 241 | 1.379 | 1.379 | 0.94 | 0.524 | 0.516 | 846.99 | 4.298 | 1.669E+05 | 2.030E+06 | 12.16 | 0.1542 | 0.917 | 0.473 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.85 | 138.61 | 1.8381 | 20.71 | 1.12 | 5.41% | 5.935 | 0.92 | 14.38 | 3.05 | 7.28 | 240 | 1.370 | 1.370 | 0.94 | 0.526 | 0.517 | 851.58 | 4.305 | 1.685E+05 | 2.030E+06 | 12.05 | 0.1542 | 0.917 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.94 | 138.88 | 1.8444 | 21.49 | 1.15 | 5.35% | 5.854 | 0.92 | 14.93 | 3.03 | 7.09 | 234 | 1.270 | 1.270 | 0.94 | 0.529 | 0.517 | 856.06 | 4.313 | 1.699E+05 | 2.030E+06 | 11.95 | 0.1542 | 0.917 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 26.98 | 139.00 | 1.8472 | 22.27 | 1.15 | 5.16% | 5.631 | 0.91 | 15.50 | 3.01 | 6.81 | 225 | 1.137 | 1.137 | 0.94 | 0.530 | 0.517 | 856.06 | 4.317 | 1.698E+05 | 2.030E+06 | 11.96 | 0.1542 | 0.917 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 27.04 | 139.28 | 1.8513 | 24.52 | 1.16 | 4.73% | 5.117 | 0.89 | 17.18 | 2.94 | 6.14 | 203 | 0.854 | 0.854 | 0.94 | 0.532 | 0.517 | 857.52 | 4.325 | 1.700E+05 | 2.030E+06 | 11.94 | 0.1542 | 0.917 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 27.12 | 139.67 | 1.8569 | 27.74 | 1.17 | 4.22% | 4.520 | 0.87 | 19.57 | 2.86 | 5.35 | 177 | 0.593 | 0.593 | 0.94 | 0.534 | 0.517 | 858.97 | 4.338 | 1.701E+05 | 2.030E+06 | 11.93 | 0.1542 | 0.917 | 0.475 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 27.17 | 139.96 | 1.8604 | 30.08 | 1.19 | 3.96% | 4.217 | 0.85 | 21.30 | 2.81 | 4.91 | 162 | 0.476 | 0.476 | 0.94 | 0.536 | 0.518 | 861.84 | 4.347 | 1.709E+05 | 2.030E+06 | 11.88 | 0.1542 | 0.918 | 0.475 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 27.25 | 139.80 | 1.8660 | 33.40 | 1.12 | 3.35% | 3.552 | 0.83 | 23.75 | 2.73 | 4.21 | 139 | 0.329 | 0.329 | 0.94 | 0.538 | 0.518 | 851.58 | 4.342 | 1.670E+05 | 2.030E+06 | 12.15 | 0.1542 | 0.917 | 0.475 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 27.30 | 139.14 | 1.8695 | 34.67 | 1.01 | 2.91% | 3.079 | 0.81 | 24.67 | 2.67 | 3.81 | 126 | 0.265 | 0.342 | 0.94 | 0.540 | 0.518 | 834.10 | 4.321 | 1.610E+05 | 2.030E+06 | 12.61 | 0.1542 | 0.916 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.25 | 0.00 | | |
| 27.39 | 135.82 | 1.8756 | 36.04 | 0.64 | 1.78% | 1.873 | 0.77 | 25.63 | 2.52 | 2.90 | 96 | 0.161 | 0.211 | 0.94 | 0.543 | 0.518 | 756.92 | 4.218 | 1.358E+05 | 2.030E+06 | 14.95 | 0.1542 | 0.910 | 0.471 | | 0.45 | 0.61 | <= | 2.39 | 0.026 | 0.00 | 3.25 | 0.00 | 27.30 | 27.39 |
| 27.43 | 136.97 | 1.8783 | 37.11 | 0.74 | 1.99% | 2.100 | 0.77 | 26.40 | 2.54 | 3.00 | 99 | 0.171 | 0.223 | 0.93 | 0.544 | 0.518 | 781.48 | 4.254 | 1.436E+05 | 2.030E+06 | 14.14 | 0.1542 | 0.912 | 0.473 | | 0.47 | 0.65 | <= | 2.32 | 0.011 | 0.00 | 3.23 | 0.00 | 27.39 | 27.43 |
| 27.51 | 138.43 | 1.8839 | 38.29 | 0.89 | 2.32% | 2.445 | 0.78 | 27.22 | 2.58 | 3.18 | 105 | 0.187 | 0.241 | 0.93 | 0.546 | 0.519 | 812.70 | 4.299 | 1.536E+05 | 2.030E+06 | 13.21 | 0.1542 | 0.914 | 0.474 | | 0.51 | 0.70 | <= | 2.22 | 0.021 | 0.00 | 3.22 | 0.00 | 27.43 | 27.51 |
| 27.57 | 138.83 | 1.8881 | 32.33 | 0.99 | 3.06% | 3.252 | 0.82 | 22.72 | 2.72 | 4.13 | 136 | 0.315 | 0.315 | 0.93 | 0.548 | 0.519 | 830.71 | 4.312 | 1.601E+05 | 2.030E+06 | 12.68 | 0.1542 | 0.916 | 0.475 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 3.19 | 0.00 | | |
| 27.65 | 140.65 | 1.8937 | 44.44 | 1.15 | 2.59% | 2.703 | 0.77 | 31.68 | 2.55 | 3.04 | 102 | 0.179 | 0.223 | 0.93 | 0.551 | 0.519 | 856.06 | 4.368 | 1.678E+05 | 2.030E+06 | 12.10 | 0.1542 | 0.917 | 0.476 | | 0.47 | 0.65 | <= | 2.27 | 0.022 | 0.00 | 3.19 | 0.00 | 27.57 | 27.65 |
| 27.70 | 140.95 | 1.8972 | 44.15 | 1.20 | 2.72% | 2.840 | 0.78 | 31.42 | 2.57 | 3.14 | 104 | 0.186 | 0.232 | 0.93 | 0.552 | 0.519 | 863.26 | 4.377 | 1.702E+05 | 2.030E+06 | 11.92 | 0.1542 | 0.918 | 0.476 | | 0.49 | 0.67 | <= | 2.23 | 0.013 | 0.00 | 3.17 | 0.00 | 27.65 | 27.70 |
| 27.78 | 141.38 | 1.9029 | 44.15 | 1.27 | 2.88% | 3.006 | 0.78 | 31.34 | 2.59 | 3.24 | 107 | 0.195 | 0.239 | 0.93 | 0.555 | 0.519 | 872.85 | 4.391 | 1.735E+05 | 2.030E+06 | 11.70 | 0.1542 | 0.918 | 0.477 | | 0.50 | 0.69 | <= | 2.18 | 0.021 | 0.00 | 3.16 | 0.00 | 27.70 | 27.78 |
| 27.83 | 141.62 | 1.9064 | 44.54 | 1.31 | 2.94% | 3.073 | 0.78 | 31.58 | 2.59 | 3.26 | 109 | 0.200 | 0.245 | 0.93 | 0.556 | 0.520 | 878.09 | 4.398 | 1.753E+05 | 2.030E+06 | 11.58 | 0.1542 | 0.918 | 0.477 | | 0.51 | 0.71 | <= | 2.15 | 0.013 | 0.00 | 3.14 | 0.00 | 27.78 | 27.83 |
| 27.92 | 141.87 | 1.9128 | 45.90 | 1.34 | 2.92% | 3.046 | 0.78 | 32.49 | 2.58 | 3.19 | 110 | 0.203 | 0.249 | 0.93 | 0.559 | 0.520 | 881.92 | 4.406 | 1.765E+05 | 2.030E+06 | 11.50 | 0.1542 | 0.919 | 0.477 | | 0.52 | 0.72 | <= | 2.14 | 0.023 | 0.00 | 3.12 | 0.00 | 27.83 | 27.92 |
| 27.96 | 142.00 | 1.9156 | 47.08 | 1.35 | 2.87% | 2.989 | 0.78 | 33.33 | 2.56 | 3.11 | 110 | 0.203 | 0.249 | 0.93 | 0.560 | 0.520 | 883.18 | 4.410 | 1.769E+05 | 2.030E+06 | 11.48 | 0.1542 | 0.919 | 0.478 | | 0.52 | 0.72 | <= | 2.14 | 0.010 | 0.00 | 3.10 | 0.00 | 27.92 | 27.96 |
| 28.02 | 142.16 | 1.9199 | 48.84 | 1.36 | 2.78% | 2.899 | 0.77 | 34.56 | 2.54 | 2.99 | 110 | 0.203 | 0.244 | 0.93 | 0.562 | 0.520 | 884.43 | 4.415 | 1.772E+05 | 2.030E+06 | 11.46 | 0.1542 | 0.919 | 0.478 | | 0.51 | 0.70 | <= | 2.14 | 0.015 | 0.00 | 3.09 | 0.00 | 27.96 | 28.02 |
| 28.09 | 142.29 | 1.9249 | 49.71 | 1.38 | 2.78% | 2.888 | 0.77 | 35.12 | 2.53 | 2.95 | 110 | 0.205 | 0.246 | 0.93 | 0.564 | 0.520 | 886.90 | 4.419 | 1.780E+05 | 2.030E+06 | 11.40 | 0.1542 | 0.919 | 0.478 | | 0.52 | 0.71 | <= | 2.13 | 0.018 | 0.00 | 3.08 | 0.00 | 28.02 | 28.09 |
| 28.19 | 142.60 | 1.9320 | 52.84 | 1.41 | 2.67% | 2.770 | 0.76 | 37.31 | 2.50 | 2.78 | 111 | 0.206 | 0.243 | 0.93 | 0.568 | 0.520 | 890.54 | 4.429 | 1.791E+05 | 2.030E+06 | 11.34 | 0.1542 | 0.919 | 0.478 | | 0.51 | 0.70 | <= | 2.13 | 0.026 | 0.00 | 3.06 | 0.00 | 28.09 | 28.19 |
| 28.23 | 142.76 | 1.9349 | 54.89 | 1.42 | 2.59% | 2.682 | 0.75 | 38.76 | 2.48 | 2.67 | 111 | 0.206 | 0.243 | 0.93 | 0.569 | 0.521 | 891.73 | 4.434 | 1.794E+05 | 2.030E+06 | 11.32 | 0.1542 | 0.919 | 0.478 | | 0.51 | 0.70 | <= | 2.13 | 0.010 | 0.00 | 3.03 | 0.00 | 28.19 | 28.23 |
| 28.30 | 142.97 | 1.9399 | 58.21 | 1.44 | 2.47% | 2.559 | 0.74 | 41.11 | 2.45 | 2.51 | 111 | 0.206 | 0.238 | 0.93 | 0.571 | 0.521 | 894.10 | 4.440 | 1.800E+05 | 2.030E+06 | 11.28 | 0.1542 | 0.919 | 0.479 | | 0.50 | 0.68 | <= | 2.12 | 0.018 | 0.00 | 3.02 | 0.00 | 28.23 | 28.30 |
| 28.36 | 143.10 | 1.9441 | 60.36 | 1.45 | 2.40% | 2.482 | 0.74 | 42.60 | 2.42 | 2.42 | 111 | 0.206 | 0.232 | 0.93 | 0.573 | 0.521 | 895.27 | 4.444 | 1.804E+05 | 2.030E+06 | 11.26 | 0.1542 | 0.919 | 0.479 | | 0.48 | 0.67 | <= | 2.12 | 0.015 | 0.00 | 3.00 | 0.00 | 28.30 | 28.36 |
| 28.41 | 143.22 | 1.9477 | 62.41 | 1.45 | 2.32% | 2.398 | 0.73 | 44.03 | 2.40 | 2.33 | 110 | 0.205 | 0.231 | 0.93 | 0.574 | 0.521 | 895.27 | 4.448 | 1.802E+05 | 2.030E+06 | 11.27 | 0.1542 | 0.919 | 0.479 | | 0.48 | 0.66 | <= | 2.13 | 0.013 | 0.00 | 2.99 | 0.00 | 28.36 | 28.41 |
| 28.50 | 143.23 | 1.9542 | 65.34 | 1.43 | 2.19% | 2.256 | 0.72 | 46.03 | 2.37 | 2.19 | 109 | 0.202 | 0.437 | 0.93 | 0.577 | 0.521 | 892.92 | 4.448 | 1.792E+05 | 2.030E+06 | 11.33 | 0.1542 | 0.919 | 0.479 | | 0.91 | 1.25 | <= | 0.33 | 0.004 | 0.00 | 2.98 | 0.00 | 28.41 | 28.50 |
| 28.55 | 143.22 | 1.9578 | 66.51 | 1.42 | 2.14% | 2.200 | 0.72 | 46.81 | 2.36 | 2.15 | 109 | 0.200 | 0.433 | 0.93 | 0.579 | 0.521 | 891.73 | 4.448 | 1.788E+05 | 2.030E+06 | 11.35 | 0.1542 | 0.919 | 0.479 | | 0.90 | 1.24 | <= | 0.32 | 0.002 | 0.00 | 2.97 | 0.00 | 28.50 | 28.55 |
| 28.63 | 143.33 | 1.9635 | 67.59 | 1.44 | 2.13% | 2.194 | 0.71 | 47.48 | 2.35 | 2.12 | 109 | 0.202 | 0.438 | 0.93 | 0.581 | 0.522 | 894.10 | 4.451 | 1.796E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.479 | | 0.91 | 1.26 | <= | 0.33 | 0.003 | 0.00 | 2.97 | 0.00 | 28.55 | 28.63 |
| 28.68 | 143.50 | 1.9671 | 68.95 | 1.46 | 2.12% | 2.180 | 0.71 | 48.39 | 2.34 | 2.09 | 110 | 0.204 | 0.443 | 0.93 | 0.583 | 0.522 | 896.43 | 4.457 | 1.803E+05 | 2.030E+06 | 11.26 | 0.1542 | 0.919 | 0.480 | | 0.92 | 1.27 | <= | 0.34 | 0.002 | 0.00 | 2.97 | 0.00 | 28.63 | 28.68 |
| 28.77 | 143.68 | 1.9735 | 71.79 | 1.48 | 2.06% | 2.120 | 0.70 | 50.30 | 2.32 | 2.02 | 111 | 0.206 | 0.426 | 0.93 | 0.586 | 0.522 | 898.73 | 4.462 | 1.810E+05 | 2.030E+06 | 11.21 | 0.1542 | 0.919 | 0.480 | | 0.89 | 1.22 | <= | 0.29 | 0.003 | 0.00 | 2.97 | 0.00 | 28.68 | 28.77 |
| 28.82 | 143.72 | 1.9771 | 73.25 | 1.48 | 2.02% | 2.077 | 0.70 | 51.28 | 2.31 | 1.98 | 111 | 0.206 | 0.426 | 0.93 | 0.587 | 0.522 | 898.73 | 4.463 | 1.810E+05 | 2.030E+06 | 11.22 | 0.1542 | 0.919 | 0.480 | | 0.89 | 1.22 | <= | 0.29 | 0.002 | 0.00 | 2.96 | 0.00 | 28.77 | 28.82 |
| 28.89 | 143.55 | 1.9822 | 74.81 | 1.43 | 1.91% | 1.964 | 0.69 | 52.29 | 2.29 | 1.90 | 109 | 0.200 | 0.414 | 0.93 | 0.589 | 0.522 | 892.92 | 4.458 | 1.788E+05 | 2.030E+06 | 11.35 | 0.1542 | 0.919 | 0.480 | | 0.86 | 1.19 | <= | 0.50 | 0.004 | 0.00 | 2.96 | 0.00 | 28.82 | 28.89 |
| 28.94 | 143.45 | 1.9857 | 75.21 | 1.41 | 1.87% | 1.926 | 0.69 | 52.50 | 2.28 | 1.88 | 108 | 0.197 | 0.410 | 0.93 | 0.591 | 0.522 | 890.54 | 4.455 | 1.780E+05 | 2.030E+06 | 11.40 | 0.1542 | 0.919 | 0.480 | | 0.85 | 1.18 | <= | 0.49 | 0.003 | 0.00 | 2.96 | 0.00 | 28.89 | 28.94 |
| 29.04 | 143.47 | 1.9929 | 75.21 | 1.41 | 1.87% | 1.926 | 0.69 | 52.34 | 2.28 | 1.88 | 108 | 0.197 | 0.410 | 0.93 | 0.594 | 0.523 | 890.54 | 4.456 | 1.780E+05 | 2.030E+06 | 11.41 | 0.1542 | 0.919 | 0.480 | | 0.85 | 1.17 | <= | 0.49 | 0.006 | 0.00 | 2.95 | 0.00 | 28.94 | 29.04 |
| 29.08 | 143.31 | 1.9958 | 75.21 | 1.38 | 1.83% | 1.885 | 0.69 | 52.28 | 2.27 | 1.86 | 107 | 0.194 | 0.403 | 0.93 | 0.595 | 0.523 | 886.90 | 4.451 | 1.767E+05 | 2.030E+06 | 11.49 | 0.1542 | 0.919 | 0.480 | | 0.84 | 1.15 | <= | 0.46 | 0.002 | 0.00 | 2.95 | 0.00 | 29.04 | 29.08 |
| 29.16 | 141.24 | 2.0014 | 74.91 | 1.04 | 1.39% | 1.426 | 0.67 | 51.94 | 2.19 | 1.65 | 95 | 0.160 | 0.350 | 0.93 | 0.598 | 0.523 | 839.05 | 4.386 | 1.605E+05 | 2.030E+06 | 12.65 | 0.1542 | 0.916 | 0.479 | | 0.73 | 1.00 | <= | 0.59 | 0.006 | 0.00 | 2.95 | 0.00 | 29.08 | 29.16 |
| 29.21 | 140.58 | 2.0049 | 74.52 | 0.96 | 1.29% | 1.324 | 0.66 | 51.59 | 2.18 | 1.61 | 92 | 0.152 | 0.334 | 0.93 | 0.599 | 0.523 | 825.51 | 4.366 | 1.561E+05 | 2.030E+06 | 13.01 | 0.1542 | 0.915 | 0.478 | | 0.70 | 0.96 | <= | 1.44 | 0.009 | 0.00 | 2.94 | 0.00 | 29.16 | 29.21 |
| 29.29 | 141.79 | 2.0106 | 74.52 | 1.13 | 1.52% | 1.558 | 0.67 | 51.47 | 2.22 | 1.72 | 98 | 0.167 | 0.367 | 0.93 | 0.602 | 0.523 | 853.09 | 4.403 | 1.653E+05 | 2.030E+06 | 12.28 | 0.1542 | 0.917 | 0.480 | | 0.77 | 1.05 | <= | 0.74 | 0.007 | 0.00 | 2.93 | 0.00 | 29.21 | 29.29 |
| 29.34 | 142.52 | 2.0142 | 74.52 | 1.25 | 1.68% | 1.724 | 0.68 | 51.39 | 2.25 | 1.80 | 102 | 0.179 | 0.374 | 0.93 | 0.603 | 0.523 | 870.16 | 4.426 | 1.711E+05 | 2.030E+06 | 11.87 | 0.1542 | 0.918 | 0.480 | | 0.78 | 1.07 | <= | 0.77 | 0.005 | 0.00 | 2.92 | 0.00 | 29.29 | 29.34 |
| 29.43 | 143.33 | 2.0206 | 74.52 | 1.39 | 1.87% | 1.917 | 0.69 | 51.26 | 2.28 | 1.90 | 107 | 0.193 | 0.405 | 0.93 | 0.606 | 0.523 | 888.12 | 4.451 | 1.772E+05 | 2.030E+06 | 11.46 | 0.1542 | 0.919 | 0.481 | | 0.84 | 1.16 | <= | 0.47 | 0.005 | 0.00 | 2.92 | 0.00 | 29.34 | 29.43 |
| 29.47 | 143.53 | 2.0235 | 75.01 | 1.43 | 1.91% | 1.959 | 0.69 | 51.54 | 2.29 | 1.91 | 108 | 0.198 | 0.394 | 0.93 | 0.607 | 0.524 | 892.92 | 4.457 | 1.789E+05 | 2.030E+06 | 11.35 | 0.1542 | 0.919 | 0.481 | | 0.82 | 1.13 | <= | 0.42 | 0.002 | 0.00 | 2.91 | 0.00 | 29.43 | 29.47 |
| 29.53 | 143.55 | 2.0278 | 75.50 | 1.43 | 1.89% | 1.946 | 0.69 | 51.80 | 2.28 | 1.90 | 108 | 0.198 | 0.394 | 0.93 | 0.609 | 0.524 | 892.92 | 4.458 | 1.788E+05 | 2.030E+06 | 11.35 | 0.1542 | 0.919 | 0.481 | | 0.82 | 1.13 | <= | 0.42 | 0.003 | 0.00 | 2.91 | 0.00 | 29.47 | 29.53 |
| 29.61 | 143.54 | 2.0336 | 77.75 | 1.41 | 1.81% | 1.862 | 0.69 | 53.26 | 2.26 | 1.83 | 108 | 0.196 | 0.391 | 0.93 | 0.612 | 0.524 | 890.54 | 4.458 | 1.779E+05 | 2.030E+06 | 11.41 | 0.1542 | 0.919 | 0.481 | | 0.81 | 1.12 | <= | 0.40 | 0.004 | 0.00 | 2.91 | 0.00 | 29.53 | 29.61 |
| 29.70 | 143.26 | 2.0400 | 80.19 | 1.35 | 1.68% | 1.727 | 0.68 | 54.83 | 2.23 | 1.74 | 106 | 0.190 | 0.380 | 0.93 | 0.615 | 0.524 | 883.18 | 4.449 | 1.753E+05 | 2.030E+06 | 11.58 | 0.1542 | 0.918 | 0.481 | | 0.79 | 1.09 | <= | 0.79 | 0.009 | 0.00 | 2.91 | 0.00 | 29.61 | 29.70 |
| 29.74 | 143.08 | 2.0429 | 81.46 | 1.31 | 1.61% | 1.650 | 0.67 | 55.65 | 2.21 | 1.69 | 105 | 0.186 | 0.373 | 0.93 | 0.616 | 0.524 | 878.09 | 4.443 | 1.735E+05 | 2.030E+06 | 11.70 | 0.1542 | 0.918 | 0.481 | | 0.78 | 1.07 | <= | 0.74 | 0.004 | 0.00 | 2.90 | 0.00 | 29.70 | 29.74 |
| 29.80 | 142.90 | 2.0471 | 83.70 | 1.26 | 1.51% | 1.543 | 0.66 | 57.12 | 2.18 | 1.62 | 103 | 0.182 | 0.348 | 0.93 | 0.618 | 0.524 | 871.51 | 4.438 | 1.711E+05 | 2.030E+06 | 11.86 | 0.1542 | 0.918 | 0.481 | | 0.72 | 0.99 | <= | 1.44 | 0.010 | 0.00 | 2.89 | 0.00 | 29.74 | 29.80 |
| 29.87 | 142.69 | 2.0521 | 84.87 | 1.22 | 1.44% | 1.473 | 0.66 | 57.83 | 2.16 | 1.58 | 102 | 0.179 | 0.342 | 0.93 | 0.620 | 0.524 | 866.05 | 4.431 | 1.693E+05 | 2.030E+06 | 11.99 | 0.1542 | 0.917 | 0.481 | | 0.71 | 0.98 | <= | 1.36 | 0.011 | 0.00 | 2.88 | 0.00 | 29.80 | 29.87 |
| 29.96 | 142.45 | 2.0586 | 85.95 | 1.18 | 1.37% | 1.407 | 0.65 | 58.43 | 2.15 | 1.55 | 101 | 0.176 | 0.337 | 0.93 | 0.623 | 0.525 | 860.41 | 4.424 | 1.673E+05 | 2.030E+06 | 12.13 | 0.1542 | 0.917 | 0.481 | | 0.70 | 0.96 | <= | 1.28 | 0.014 | 0.00 | 2.87 | 0.00 | 29.87 | 29.96 |
| 30.01 | 122.50 | 2.0616 | 86.34 | 1.19 | 1.38% | 1.412 | 0.65 | 58.64 | 2.15 | 1.55 | 101 | 0.177 | 0.339 | 0.93 | 0.624 | 0.526 | 861.84 | 3.804 | 1.952E+05 | 1.952E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.65 | 0.90 | <= | 2.25 | 0.013 | 0.00 | 2.86 | 0.00 | 29.96 | 30.01 |
| 30.07 | 122.49 | 2.0653 | 86.53 | 1.19 | 1.38% | 1.409 | 0.65 | 58.69 | 2.15 | 1.54 | 101 | 0.177 | 0.339 | 0.93 | 0.626 | 0.526 | 861.84 | 3.804 | 1.953E+05 | 1.953E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.65 | 0.90 | <= | 2.26 | 0.015 | 0.00 | 2.85 | 0.00 | 30.01 | 30.07 |
| 30.14 | 122.51 | 2.0696 | 86.44 | 1.19 | 1.38% | 1.410 | 0.65 | 58.54 | 2.15 | 1.55 | 101 | 0.177 | 0.339 | 0.93 | 0.628 | 0.526 | 861.84 | 3.805 | 1.952E+05 | 1.952E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.65 | 0.90 | <= | 2.26 | 0.018 | 0.00 | 2.83 | 0.00 | 30.07 | 30.14 |
| 30.18 | 122.56 | 2.0720 | 86.34 | 1.20 | 1.39% | 1.424 | 0.65 | 58.42 | 2.15 | 1.55 | 102 | 0.178 | 0.341 | 0.93 | 0.630 | 0.526 | 863.26 | 3.806 | 1.958E+05 | 1.958E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.65 | 0.90 | <= | 0.87 | 0.004 | 0.00 | 2.81 | 0.00 | 30.14 | 30.18 |
| 30.27 | 122.67 | 2.0775 | 85.36 | 1.22 | 1.43% | 1.465 | 0.66 | 57.63 | 2.16 | 1.58 | 102 | 0.179 | 0.343 | 0.93 | 0.632 | 0.526 | 866.05 | 3.810 | 1.969E+05 | 1.969E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.66 | 0.91 | <= | 0.91 | 0.010 | 0.00 | 2.81 | 0.00 | 30.18 | 30.27 |
| 30.32 | 122.71 | 2.0806 | 84.00 | 1.24 | 1.48% | 1.514 | 0.66 | 56.63 | 2.18 | 1.61 | 102 | 0.179 | 0.345 | 0.93 | 0.634 | 0.526 | 868.80 | 3.811 | 1.981E+05 | 1.981E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.66 | 0.91 | <= | 0.94 | 0.006 | 0.00 | 2.80 | 0.00 | 30.27 | 30.32 |
| 30.38 | 122.87 | 2.0843 | 81.46 | 1.28 | 1.57% | 1.613 | 0.67 | 54.80 | 2.21 | 1.69 | 103 | 0.182 | 0.367 | 0.93 | 0.636 | 0.526 | 874.17 | 3.816 | 2.003E+05 | 2.003E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.71 | 0.97 | <= | 1.30 | 0.009 | 0.00 | 2.79 | 0.00 | 30.32 | 30.38 |
| 30.45 | 122.84 | 2.0886 | 78.62 | 1.29 | 1.64% | 1.686 | 0.68 | 52.76 | 2.23 | 1.75 | 103 | 0.181 | 0.367 | 0.93 | 0.638 | 0.526 | 875.49 | 3.815 | 2.009E+05 | 2.009E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.70 | 0.97 | <= | 1.29 | 0.011 | 0.00 | 2.78 | 0.00 | 30.38 | 30.45 |
| 30.53 | 122.29 | 2.0935 | 74.62 | 1.21 | 1.62% | 1.668 | 0.68 | 49.92 | 2.25 | 1.80 | 100 | 0.172 | 0.366 | 0.93 | 0.641 | 0.526 | 864.66 | 3.798 | 1.969E+05 | 1.969E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.70 | 0.97 | <= | 1.34 | 0.013 | 0.00 | 2.77 | 0.00 | 30.45 | 30.53 |
| 30.59 | 121.77 | 2.0971 | 71.59 | 1.15 | 1.61% | 1.655 | 0.69 | 47.77 | 2.26 | 1.83 | 97 | 0.165 | 0.370 | 0.93 | 0.642 | 0.526 | 856.06 | 3.782 | 1.938E+05 | 1.938E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.71 | 0.98 | <= | 2.04 | 0.015 | 0.00 | 2.76 | 0.00 | 30.53 | 30.59 |
| 30.68 | 121.81 | 2.1026 | 68.76 | 1.17 | 1.70% | 1.755 | 0.70 | 45.74 | 2.29 | 1.93 | 98 | 0.167 | 0.373 | 0.93 | 0.645 | 0.526 | 858.97 | 3.783 | 1.950E+05 | 1.950E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.72 | 0.99 | <= | 2.16 | 0.023 | 0.00 | 2.74 | 0.00 | 30.59 | 30.68 |
| 30.72 | 121.89 | 2.1051 | 66.22 | 1.20 | 1.81% | 1.872 | 0.71 | 43.96 | 2.33 | 2.03 | 99 | 0.170 | 0.399 | 0.93 | 0.646 | 0.526 | 863.26 | 3.785 | 1.969E+05 | 1.969E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.77 | 1.05 | <= | 0.74 | 0.004 | 0.00 | 2.72 | 0.00 | 30.68 | 30.72 |
| 30.81 | 122.16 | 2.1106 | 61.24 | 1.27 | 2.07% | 2.148 | 0.73 | 40.46 | 2.39 | 2.29 | 102 | 0.177 | 0.203 | 0.92 | 0.649 | 0.526 | 872.85 | 3.794 | 2.008E+05 | 2.008E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.39 | 0.54 | <= | 2.28 | 0.023 | 0.00 | 2.72 | 0.00 | 30.72 | 30.81 |
| 30.85 | 122.32 | 2.1130 | 59.09 | 1.32 | 2.23% | 2.317 | 0.74 | 38.96 | 2.43 | 2.43 | 104 | 0.184 | 0.215 | 0.92 | 0.651 | 0.526 | 879.38 | 3.799 | 2.036E+05 | 2.036E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.41 | 0.57 | <= | 2.24 | 0.010 | 0.00 | 2.69 | 0.00 | 30.81 | 30.85 |
| 30.94 | 122.51 | 2.1185 | 55.77 | 1.38 | 2.47% | 2.572 | 0.75 | 36.62 | 2.48 | 2.67 | 106 | 0.192 | 0.225 | 0.92 | 0.653 | 0.526 | 886.90 | 3.805 | 2.067E+05 | 2.067E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.43 | 0.60 | <= | 2.19 | 0.023 | 0.00 | 2.68 | 0.00 | 30.85 | 30.94 |
| 30.97 | 122.51 | 2.1204 | 53.72 | 1.40 | 2.61% | 2.713 | 0.76 | 35.20 | 2.51 | 2.82 | 108 | 0.196 | 0.235 | 0.92 | 0.654 | 0.526 | 889.33 | 3.805 | 2.079E+05 | 2.079E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.45 | 0.62 | <= | 2.17 | 0.007 | 0.00 | 2.66 | 0.00 | 30.94 | 30.97 |
| 31.04 | 122.54 | 2.1246 | 50.50 | 1.43 | 2.83% | 2.956 | 0.78 | 32.95 | 2.56 | 3.07 | 109 | 0.202 | 0.242 | 0.92 | 0.656 | 0.526 | 892.92 | 3.806 | 2.095E+05 | 2.095E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.46 | 0.64 | <= | 2.14 | 0.017 | 0.00 | 2.65 | 0.00 | 30.97 | 31.04 |
| 31.12 | 122.43 | 2.1295 | 47.66 | 1.44 | 3.02% | 3.163 | 0.79 | 30.96 | 2.60 | 3.32 | 110 | 0.205 | 0.251 | 0.92 | 0.659 | 0.526 | 894.10 | 3.802 | 2.103E+05 | 2.103E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.48 | 0.66 | <= | 2.13 | 0.019 | 0.00 | 2.64 | 0.00 | 31.04 | 31.12 |
| 31.19 | 122.26 | 2.1338 | 43.95 | 1.44 | 3.28% | 3.444 | 0.80 | 28.39 | 2.65 | 3.66 | 121 | 0.244 | 0.304 | 0.92 | 0.661 | 0.526 | 894.10 | 3.797 | 2.105E+05 | 2.105E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.62 | 0.00 | | |
| 31.26 | 122.13 | 2.1381 | 40.73 | 1.45 | 3.56% | 3.757 | 0.82 | 26.17 | 2.71 | 4.04 | 133 | 0.300 | 0.300 | 0.92 | 0.663 | 0.526 | 895.27 | 3.793 | 2.113E+05 | 2.113E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.62 | 0.00 | | |
| 31.30 | 121.86 | 2.1405 | 39.75 | 1.41 | 3.55% | 3.749 | 0.82 | 25.48 | 2.71 | 4.10 | 135 | 0.310 | 0.310 | 0.92 | 0.665 | 0.526 | 890.54 | 3.784 | 2.096E+05 | 2.096E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.62 | 0.00 | | |
| 31.39 | 118.37 | 2.1459 | 36.43 | 0.90 | 2.47% | 2.625 | 0.80 | 23.19 | 2.64 | 3.61 | 119 | 0.237 | 0.308 | 0.92 | 0.667 | 0.526 | 814.59 | 3.676 | 1.805E+05 | 1.805E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.62 | 0.00 | | |
| 31.43 | 118.57 | 2.1482 | 35.94 | 0.93 | 2.59% | 2.752 | 0.81 | 22.84 | 2.66 | 3.73 | 123 | 0.254 | 0.330 | 0.92 | 0.669 | 0.526 | 820.14 | 3.682 | 1.827E+05 | 1.827E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.62 | 0.00 | | |
| 31.53 | 118.97 | 2.1542 | 34.58 | 1.00 | 2.89% | 3.084 | 0.82 | 21.87 | 2.71 | 4.07 | 134 | 0.305 | 0.305 | 0.92 | 0.672 | 0.526 | 832.41 | 3.695 | 1.875E+05 | 1.875E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.62 | 0.00 | | |
| 31.57 | 119.03 | 2.1566 | 33.89 | 1.01 | 2.98% | 3.183 | 0.83 | 21.39 | 2.73 | 4.19 | 138 | 0.326 | 0.326 | 0.92 | 0.673 | 0.526 | 834.10 | 3.697 | 1.882E+05 | 1.882E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.62 | 0.00 | | |
| 31.65 | 119.17 | 2.1613 | 32.52 | 1.05 | 3.23% | 3.459 | 0.84 | 20.43 | 2.77 | 4.50 | 149 | 0.385 | 0.385 | 0.92 | 0.675 | 0.526 | 840.67 | 3.701 | 1.910E+05 | 1.910E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.62 | 0.00 | | |
| 31.71 | 120.26 | 2.1649 | 43.56 | 1.10 | 2.53% | 2.657 | 0.78 | 27.83 | 2.58 | 3.22 | 106 | 0.192 | 0.239 | 0.92 | 0.677 | 0.526 | 848.54 | 3.735 | 1.928E+05 | 1.928E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.46 | 0.63 | <= | 2.19 | 0.016 | 0.00 | 2.62 | 0.00 | 31.65 | 31.71 |
| 31.79 | 121.40 | 2.1698 | 54.99 | 1.19 | 2.16% | 2.253 | 0.74 | 35.45 | 2.45 | 2.53 | 99 | 0.169 | 0.203 | 0.92 | 0.680 | 0.526 | 861.84 | 3.770 | 1.970E+05 | 1.970E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.39 | 0.54 | <= | 2.33 | 0.021 | 0.00 | 2.60 | 0.00 | 31.71 | 31.79 |
| 31.83 | 121.65 | 2.1722 | 63.49 | 1.17 | 1.84% | 1.908 | 0.71 | 41.12 | 2.35 | 2.13 | 97 | 0.165 | 0.392 | 0.92 | 0.681 | 0.526 | 858.97 | 3.778 | 1.953E+05 | 1.953E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.75 | 1.04 | <= | 0.69 | 0.003 | 0.00 | 2.58 | 0.00 | 31.79 | 31.83 |
| 31.91 | 121.93 | 2.1771 | 82.24 | 1.12 | 1.36% | 1.399 | 0.66 | 53.61 | 2.17 | 1.60 | 97 | 0.165 | 0.339 | 0.92 | 0.684 | 0.526 | 851.58 | 3.787 | 1.915E+05 | 1.915E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.65 | 0.90 | <= | 2.35 | 0.022 | 0.00 | 2.58 | 0.00 | 31.83 | 31.91 |
| 31.97 | 122.05 | 2.1808 | 91.91 | 1.10 | 1.20% | 1.226 | 0.64 | 60.01 | 2.09 | 1.44 | 99 | 0.170 | 0.317 | 0.92 | 0.685 | 0.526 | 848.54 | 3.790 | 1.900E+05 | 1.900E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.61 | 0.84 | <= | 1.87 | 0.013 | 0.00 | 2.56 | 0.00 | 31.91 | 31.97 |
| 32.05 | 122.41 | 2.1857 | 99.62 | 1.12 | 1.12% | 1.149 | 0.62 | 65.06 | 2.05 | 1.37 | 102 | 0.179 | 0.318 | 0.91 | 0.688 | 0.526 | 851.58 | 3.802 | 1.908E+05 | 1.908E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.61 | 0.84 | <= | 1.81 | 0.017 | 0.00 | 2.54 | 0.00 | 31.97 | 32.05 |
| 32.11 | 122.65 | 2.1893 | 103.24 | 1.14 | 1.10% | 1.128 | 0.62 | 67.39 | 2.03 | 1.34 | 104 | 0.184 | 0.311 | 0.91 | 0.690 | 0.526 | 854.58 | 3.809 | 1.917E+05 | 1.917E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.60 | 0.82 | <= | 1.64 | 0.012 | 0.00 | 2.52 | 0.00 | 32.05 | 32.11 |
| 32.15 | 122.76 | 2.1918 | 104.99 | 1.16 | 1.10% | 1.128 | 0.61 | 68.50 | 2.02 | 1.33 | 105 | 0.188 | 0.317 | 0.91 | 0.691 | 0.526 | 857.52 | 3.812 | 1.929E+05 | 1.929E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.61 | 0.84 | <= | 1.74 | 0.008 | 0.00 | 2.51 | 0.00 | 32.11 | 32.15 |
| 32.24 | 122.79 | 2.1973 | 105.09 | 1.16 | 1.10% | 1.127 | 0.61 | 68.44 | 2.02 | 1.33 | 105 | 0.188 | 0.318 | 0.91 | 0.694 | 0.526 | 857.52 | 3.813 | 1.928E+05 | 1.928E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.61 | 0.84 | <= | 1.75 | 0.019 | 0.00 | 2.50 | 0.00 | 32.15 | 32.24 |
| 32.29 | 122.74 | 2.2004 | 101.77 | 1.16 | 1.14% | 1.165 | 0.62 | 66.16 | 2.04 | 1.36 | 104 | 0.184 | 0.311 | 0.91 | 0.695 | 0.526 | 857.52 | 3.812 | 1.929E+05 | 1.929E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.60 | 0.82 | <= | 1.64 | 0.010 | 0.00 | 2.49 | 0.00 | 32.24 | 32.29 |
| 32.38 | 122.61 | 2.2059 | 92.20 | 1.18 | 1.28% | 1.311 | 0.64 | 59.69 | 2.11 | 1.48 | 101 | 0.176 | 0.330 | 0.91 | 0.698 | 0.525 | 860.41 | 3.808 | 1.944E+05 | 1.944E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.63 | 0.87 | <= | 2.08 | 0.022 | 0.00 | 2.48 | 0.00 | 32.29 | 32.38 |
| 32.42 | 122.55 | 2.2084 | 86.34 | 1.20 | 1.39% | 1.426 | 0.66 | 55.76 | 2.16 | 1.58 | 100 | 0.173 | 0.341 | 0.91 | 0.700 | 0.525 | 863.26 | 3.806 | 1.958E+05 | 1.958E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.66 | 0.90 | <= | 0.90 | 0.004 | 0.00 | 2.45 | 0.00 | 32.38 | 32.42 |
| 32.49 | 122.50 | 2.2126 | 77.94 | 1.23 | 1.58% | 1.624 | 0.68 | 50.12 | 2.24 | 1.76 | 99 | 0.171 | 0.355 | 0.91 | 0.702 | 0.525 | 867.43 | 3.804 | 1.978E+05 | 1.978E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.68 | 0.94 | <= | 1.16 | 0.010 | 0.00 | 2.45 | 0.00 | 32.42 | 32.49 |
| 32.55 | 122.46 | 2.2163 | 71.79 | 1.26 | 1.76% | 1.811 | 0.70 | 45.99 | 2.30 | 1.94 | 100 | 0.173 | 0.376 | 0.91 | 0.704 | 0.525 | 871.51 | 3.803 | 1.997E+05 | 1.997E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.72 | 1.00 | <= | 2.24 | 0.016 | 0.00 | 2.44 | 0.00 | 32.49 | 32.55 |
| 32.64 | 122.39 | 2.2218 | 64.17 | 1.29 | 2.01% | 2.082 | 0.72 | 40.88 | 2.38 | 2.22 | 101 | 0.176 | 0.198 | 0.91 | 0.706 | 0.525 | 875.49 | 3.801 | 2.017E+05 | 2.017E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.38 | 0.52 | <= | 2.29 | 0.024 | 0.00 | 2.42 | 0.00 | 32.55 | 32.64 |
| 32.68 | 122.22 | 2.2243 | 60.26 | 1.29 | 2.14% | 2.223 | 0.73 | 38.27 | 2.42 | 2.39 | 101 | 0.177 | 0.204 | 0.91 | 0.708 | 0.525 | 875.49 | 3.796 | 2.019E+05 | 2.019E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.39 | 0.54 | <= | 2.28 | 0.010 | 0.00 | 2.40 | 0.00 | 32.64 | 32.68 |
| 32.75 | 121.45 | 2.2285 | 54.40 | 1.20 | 2.21% | 2.300 | 0.75 | 34.35 | 2.47 | 2.60 | 98 | 0.169 | 0.203 | 0.91 | 0.710 | 0.525 | 863.26 | 3.772 | 1.976E+05 | 1.976E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.39 | 0.54 | <= | 2.34 | 0.019 | 0.00 | 2.39 | 0.00 | 32.68 | 32.75 |
| 32.82 | 120.45 | 2.2327 | 51.18 | 1.07 | 2.09% | 2.186 | 0.75 | 32.19 | 2.47 | 2.64 | 94 | 0.156 | 0.192 | 0.91 | 0.712 | 0.525 | 843.86 | 3.741 | 1.904E+05 | 1.904E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.37 | 0.51 | <= | 2.43 | 0.020 | 0.00 | 2.37 | 0.00 | 32.75 | 32.82 |
| 32.88 | 120.04 | 2.2363 | 46.88 | 1.04 | 2.22% | 2.330 | 0.77 | 29.32 | 2.53 | 2.90 | 96 | 0.161 | 0.202 | 0.91 | 0.714 | 0.525 | 839.05 | 3.728 | 1.888E+05 | 1.888E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | | 0.39 | 0.53 | <= | 2.39 | 0.017 | 0.00 | 2.35 | 0.00 | 32.82 | 32.88 |
| 32.95 | 120.00 | 2.2405 | 41.41 | 1.08 | 2.61% | 2.757 | 0.79 | 25.69 | 2.62 | 3.45 | 114 | 0.217 | 0.276 | 0.91 | 0.716 | 0.525 | 845.43 | 3.727 | 1.918E+05 | 1.918E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.02 | 119.84 | 2.2447 | 34.38 | 1.12 | 3.26% | 3.485 | 0.83 | 21.05 | 2.76 | 4.42 | 146 | 0.369 | 0.369 | 0.91 | 0.718 | 0.525 | 851.58 | 3.722 | 1.949E+05 | 1.949E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.09 | 119.51 | 2.2489 | 29.20 | 1.14 | 3.90% | 4.230 | 0.87 | 17.63 | 2.87 | 5.44 | 180 | 0.619 | 0.619 | 0.91 | 0.720 | 0.525 | 854.58 | 3.711 | 1.968E+05 | 1.968E+05 | 1.00 | 0.1542 | 0.989 | 0.520 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.17 | 118.94 | 2.2537 | 25.10 | 1.10 | 4.38% | 4.815 | 0.90 | 14.92 | 2.97 | 6.40 | 211 | 0.958 | 0.958 | 0.91 | 0.723 | 0.525 | 848.54 | 3.694 | 1.949E+05 | 1.949E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.22 | 118.48 | 2.2566 | 22.95 | 1.07 | 4.66% | 5.171 | 0.92 | 13.51 | 3.02 | 7.02 | 232 | 1.234 | 1.234 | 0.90 | 0.724 | 0.525 | 843.86 | 3.680 | 1.935E+05 | 1.935E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.27 | 117.97 | 2.2596 | 20.71 | 1.03 | 4.97% | 5.583 | 0.93 | 12.03 | 3.09 | 7.76 | 256 | 1.640 | 1.640 | 0.90 | 0.726 | 0.525 | 837.41 | 3.664 | 1.914E+05 | 1.914E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.35 | 117.49 | 2.2643 | 18.56 | 1.00 | 5.39% | 6.137 | 0.96 | 10.61 | 3.16 | 8.67 | 286 | 2.257 | 2.257 | 0.90 | 0.729 | 0.525 | 832.41 | 3.649 | 1.899E+05 | 1.899E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.40 | 117.50 | 2.2672 | 18.66 | 1.00 | 5.36% | 6.100 | 0.95 | 10.66 | 3.15 | 8.62 | 285 | 2.222 | 2.222 | 0.90 | 0.730 | 0.525 | 832.41 | 3.649 | 1.899E+05 | 1.899E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.48 | 117.50 | 2.2719 | 18.66 | 1.00 | 5.36% | 6.102 | 0.95 | 10.65 | 3.15 | 8.63 | 285 | 2.229 | 2.229 | 0.90 | 0.733 | 0.525 | 832.41 | 3.649 | 1.899E+05 | 1.899E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.57 | 117.32 | 2.2772 | 18.75 | 0.98 | 5.23% | 5.949 | 0.95 | 10.68 | 3.15 | 8.52 | 281 | 2.145 | 2.145 | 0.90 | 0.735 | 0.525 | 829.00 | 3.643 | 1.886E+05 | 1.886E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.60 | 117.71 | 2.2790 | 23.25 | 0.96 | 4.13% | 4.578 | 0.90 | 13.59 | 2.99 | 6.60 | 218 | 1.039 | 1.039 | 0.90 | 0.736 | 0.525 | 825.51 | 3.656 | 1.864E+05 | 1.864E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.67 | 118.46 | 2.2831 | 35.65 | 0.92 | 2.58% | 2.757 | 0.81 | 21.60 | 2.68 | 3.85 | 127 | 0.271 | 0.271 | 0.90 | 0.739 | 0.525 | 818.31 | 3.679 | 1.820E+05 | 1.820E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.33 | 0.00 | | |
| 33.75 | 119.89 | 2.2879 | 54.60 | 0.97 | 1.78% | 1.854 | 0.73 | 33.82 | 2.41 | 2.35 | 88 | 0.144 | 0.174 | 0.90 | 0.741 | 0.525 | 827.26 | 3.723 | 1.838E+05 | 1.838E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.34 | 0.46 | <= | 2.55 | 0.023 | 0.00 | 2.33 | 0.00 | 33.67 | 33.75 |
| 33.80 | 120.75 | 2.2909 | 68.08 | 1.01 | 1.48% | 1.535 | 0.69 | 42.49 | 2.27 | 1.87 | 90 | 0.148 | 0.358 | 0.90 | 0.743 | 0.525 | 834.10 | 3.750 | 1.855E+05 | 1.855E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.69 | 0.95 | <= | 1.74 | 0.010 | 0.00 | 2.31 | 0.00 | 33.75 | 33.80 |
| 33.87 | 120.48 | 2.2951 | 83.90 | 0.91 | 1.08% | 1.115 | 0.64 | 52.63 | 2.11 | 1.47 | 89 | 0.147 | 0.309 | 0.90 | 0.745 | 0.525 | 816.46 | 3.742 | 1.782E+05 | 1.782E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.59 | 0.82 | <= | 1.95 | 0.016 | 0.00 | 2.30 | 0.00 | 33.80 | 33.87 |
| 33.94 | 119.48 | 2.2993 | 92.79 | 0.77 | 0.83% | 0.851 | 0.61 | 58.29 | 2.00 | 1.30 | 89 | 0.145 | 0.305 | 0.90 | 0.747 | 0.525 | 788.20 | 3.711 | 1.674E+05 | 1.674E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.59 | 0.81 | <= | 1.91 | 0.016 | 0.00 | 2.28 | 0.00 | 33.87 | 33.94 |
| 34.02 | 120.49 | 2.3041 | 97.18 | 0.87 | 0.90% | 0.917 | 0.61 | 61.02 | 2.00 | 1.30 | 93 | 0.155 | 0.297 | 0.90 | 0.749 | 0.524 | 808.86 | 3.742 | 1.748E+05 | 1.748E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.57 | 0.79 | <= | 2.44 | 0.022 | 0.00 | 2.27 | 0.00 | 33.94 | 34.02 |
| 34.06 | 120.97 | 2.3066 | 98.16 | 0.93 | 0.95% | 0.970 | 0.61 | 61.61 | 2.01 | 1.32 | 95 | 0.160 | 0.306 | 0.90 | 0.751 | 0.524 | 820.14 | 3.757 | 1.790E+05 | 1.790E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.59 | 0.81 | <= | 1.76 | 0.008 | 0.00 | 2.25 | 0.00 | 34.02 | 34.06 |
| 34.15 | 121.93 | 2.3121 | 94.74 | 1.07 | 1.13% | 1.158 | 0.63 | 59.30 | 2.08 | 1.41 | 97 | 0.166 | 0.318 | 0.90 | 0.753 | 0.524 | 843.86 | 3.787 | 1.881E+05 | 1.881E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.61 | 0.84 | <= | 1.94 | 0.021 | 0.00 | 2.24 | 0.00 | 34.06 | 34.15 |
| 34.20 | 122.39 | 2.3151 | 90.64 | 1.15 | 1.27% | 1.302 | 0.65 | 56.62 | 2.13 | 1.50 | 98 | 0.168 | 0.323 | 0.90 | 0.755 | 0.524 | 856.06 | 3.801 | 1.928E+05 | 1.928E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.62 | 0.86 | <= | 2.02 | 0.012 | 0.00 | 2.22 | 0.00 | 34.15 | 34.20 |
| 34.25 | 122.72 | 2.3182 | 82.34 | 1.25 | 1.52% | 1.562 | 0.67 | 51.24 | 2.21 | 1.70 | 99 | 0.172 | 0.346 | 0.90 | 0.757 | 0.524 | 870.16 | 3.811 | 1.987E+05 | 1.987E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.67 | 0.92 | <= | 1.01 | 0.006 | 0.00 | 2.20 | 0.00 | 34.20 | 34.25 |
| 34.33 | 123.44 | 2.3231 | 81.26 | 1.38 | 1.70% | 1.748 | 0.68 | 50.47 | 2.25 | 1.80 | 103 | 0.183 | 0.369 | 0.90 | 0.759 | 0.524 | 886.90 | 3.834 | 2.052E+05 | 2.052E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.71 | 0.98 | <= | 1.34 | 0.013 | 0.00 | 2.20 | 0.00 | 34.25 | 34.33 |
| 34.39 | 123.90 | 2.3268 | 80.19 | 1.48 | 1.85% | 1.901 | 0.69 | 49.73 | 2.28 | 1.89 | 106 | 0.192 | 0.370 | 0.90 | 0.761 | 0.524 | 898.73 | 3.848 | 2.099E+05 | 2.099E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.71 | 0.98 | <= | 1.31 | 0.009 | 0.00 | 2.19 | 0.00 | 34.33 | 34.39 |
| 34.46 | 124.49 | 2.3312 | 79.31 | 1.61 | 2.03% | 2.091 | 0.70 | 49.09 | 2.31 | 1.99 | 111 | 0.206 | 0.397 | 0.89 | 0.763 | 0.524 | 912.97 | 3.866 | 2.156E+05 | 2.156E+05 | 1.00 | 0.1542 | 0.989 | 0.519 | | 0.76 | 1.05 | <= | 0.66 | 0.006 | 0.00 | 2.18 | 0.00 | 34.39 | 34.46 |
| 34.54 | 124.85 | 2.3362 | 83.41 | 1.66 | 1.99% | 2.048 | 0.69 | 51.62 | 2.29 | 1.92 | 112 | 0.211 | 0.389 | 0.89 | 0.766 | 0.524 | 918.15 | 3.877 | 2.174E+05 | 2.174E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.75 | 1.03 | <= | 0.60 | 0.006 | 0.00 | 2.17 | 0.00 | 34.46 | 34.54 |
| 34.58 | 125.04 | 2.3387 | 91.32 | 1.65 | 1.81% | 1.854 | 0.68 | 56.61 | 2.23 | 1.74 | 113 | 0.213 | 0.372 | 0.89 | 0.767 | 0.524 | 917.13 | 3.883 | 2.166E+05 | 2.166E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.72 | 0.99 | <= | 1.23 | 0.006 | 0.00 | 2.16 | 0.00 | 34.54 | 34.58 |
| 34.65 | 124.84 | 2.3431 | 102.94 | 1.55 | 1.51% | 1.541 | 0.65 | 63.91 | 2.13 | 1.52 | 112 | 0.211 | 0.332 | 0.89 | 0.769 | 0.524 | 906.55 | 3.877 | 2.120E+05 | 2.120E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.64 | 0.88 | <= | 1.96 | 0.016 | 0.00 | 2.16 | 0.00 | 34.58 | 34.65 |
| 34.73 | 124.63 | 2.3480 | 109.00 | 1.47 | 1.35% | 1.378 | 0.63 | 67.65 | 2.08 | 1.42 | 112 | 0.210 | 0.313 | 0.89 | 0.772 | 0.524 | 897.59 | 3.870 | 2.082E+05 | 2.082E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.60 | 0.83 | <= | 1.55 | 0.015 | 0.00 | 2.14 | 0.00 | 34.65 | 34.73 |
| 34.78 | 124.55 | 2.3512 | 113.49 | 1.44 | 1.27% | 1.296 | 0.62 | 70.43 | 2.05 | 1.37 | 113 | 0.213 | 0.317 | 0.89 | 0.773 | 0.524 | 894.10 | 3.868 | 2.067E+05 | 2.067E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.61 | 0.84 | <= | 1.47 | 0.009 | 0.00 | 2.13 | 0.00 | 34.73 | 34.78 |
| 34.85 | 124.39 | 2.3555 | 112.81 | 1.41 | 1.25% | 1.277 | 0.62 | 69.90 | 2.04 | 1.36 | 112 | 0.209 | 0.312 | 0.89 | 0.775 | 0.524 | 890.54 | 3.863 | 2.053E+05 | 2.053E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.60 | 0.83 | <= | 1.55 | 0.013 | 0.00 | 2.12 | 0.00 | 34.78 | 34.85 |
| 34.93 | 124.12 | 2.3605 | 104.51 | 1.39 | 1.33% | 1.361 | 0.64 | 64.54 | 2.09 | 1.44 | 108 | 0.198 | 0.331 | 0.89 | 0.778 | 0.523 | 888.12 | 3.855 | 2.046E+05 | 2.046E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.64 | 0.88 | <= | 1.99 | 0.019 | 0.00 | 2.11 | 0.00 | 34.85 | 34.93 |
| 34.99 | 123.80 | 2.3642 | 92.10 | 1.39 | 1.51% | 1.549 | 0.66 | 56.63 | 2.17 | 1.61 | 105 | 0.187 | 0.347 | 0.89 | 0.780 | 0.523 | 888.12 | 3.845 | 2.052E+05 | 2.052E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.67 | 0.92 | <= | 0.97 | 0.007 | 0.00 | 2.09 | 0.00 | 34.93 | 34.99 |
| 35.05 | 123.51 | 2.3679 | 81.65 | 1.39 | 1.70% | 1.753 | 0.68 | 49.98 | 2.25 | 1.81 | 103 | 0.182 | 0.354 | 0.89 | 0.782 | 0.523 | 888.12 | 3.836 | 2.056E+05 | 2.056E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.68 | 0.94 | <= | 1.11 | 0.008 | 0.00 | 2.08 | 0.00 | 34.99 | 35.05 |
| 35.13 | 123.16 | 2.3728 | 71.01 | 1.39 | 1.96% | 2.025 | 0.71 | 43.20 | 2.35 | 2.11 | 103 | 0.181 | 0.387 | 0.89 | 0.784 | 0.523 | 888.12 | 3.825 | 2.062E+05 | 2.062E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.75 | 1.03 | <= | 0.63 | 0.006 | 0.00 | 2.07 | 0.00 | 35.05 | 35.13 |
| 35.18 | 122.80 | 2.3759 | 61.34 | 1.39 | 2.27% | 2.357 | 0.74 | 37.08 | 2.44 | 2.50 | 103 | 0.183 | 0.209 | 0.89 | 0.786 | 0.523 | 888.12 | 3.814 | 2.068E+05 | 2.068E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.40 | 0.56 | <= | 2.25 | 0.013 | 0.00 | 2.07 | 0.00 | 35.13 | 35.18 |
| 35.26 | 122.36 | 2.3808 | 51.18 | 1.39 | 2.72% | 2.848 | 0.78 | 30.64 | 2.56 | 3.12 | 105 | 0.188 | 0.224 | 0.89 | 0.788 | 0.523 | 888.12 | 3.800 | 2.076E+05 | 2.076E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | | 0.43 | 0.60 | <= | 2.22 | 0.020 | 0.00 | 2.05 | 0.00 | 35.18 | 35.26 |
| 35.31 | 121.95 | 2.3838 | 42.29 | 1.40 | 3.31% | 3.508 | 0.82 | 25.03 | 2.70 | 3.97 | 131 | 0.288 | 0.288 | 0.89 | 0.790 | 0.523 | 889.33 | 3.787 | 2.088E+05 | 2.088E+05 | 1.00 | 0.1542 | 0.989 | 0.518 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 35.40 | 121.56 | 2.3893 | 35.26 | 1.41 | 4.00% | 4.290 | 0.85 | 20.59 | 2.82 | 4.98 | 164 | 0.492 | 0.492 | 0.89 | 0.792 | 0.523 | 890.54 | 3.775 | 2.101E+05 | 2.101E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 35.44 | 120.76 | 2.3917 | 27.64 | 1.37 | 4.96% | 5.426 | 0.90 | 15.80 | 2.98 | 6.55 | 216 | 1.021 | 1.021 | 0.89 | 0.794 | 0.523 | 885.67 | 3.750 | 2.092E+05 | 2.092E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 35.51 | 120.38 | 2.3959 | 30.77 | 1.26 | 4.09% | 4.441 | 0.87 | 17.73 | 2.88 | 5.54 | 183 | 0.649 | 0.649 | 0.89 | 0.796 | 0.523 | 871.51 | 3.739 | 2.032E+05 | 2.032E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

TEST LOCATION: **CPT-4**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 Unit Tributary Area, A ($ft^2$): 45.83 Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 Magnitude: 6.62 Magnitude Scaling Factor: 1.38 Discrete Coumn Dia. (ft): 3.0 Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 $A_R = A_{sc}/A$: 0.154 Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet Accleration: 0.606 g's Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35.57 | 119.69 | 2.3995 | 29.40 | 1.16 | 3.95% | 4.296 | 0.88 | 16.86 | 2.89 | 5.62 | 185 | 0.672 | 0.672 | 0.89 | 0.798 | 0.523 | 857.52 | 3.717 |
| 35.64 | 118.67 | 2.4037 | 24.71 | 1.07 | 4.33% | 4.797 | 0.91 | 13.91 | 2.99 | 6.64 | 219 | 1.059 | 1.059 | 0.89 | 0.800 | 0.523 | 843.86 | 3.685 |
| 35.71 | 117.89 | 2.4078 | 21.68 | 1.00 | 4.61% | 5.189 | 0.93 | 12.00 | 3.07 | 7.50 | 247 | 1.489 | 1.489 | 0.88 | 0.802 | 0.523 | 832.41 | 3.661 |
| 35.77 | 117.10 | 2.4113 | 19.63 | 0.93 | 4.74% | 5.401 | 0.94 | 10.71 | 3.12 | 8.14 | 269 | 1.881 | 1.881 | 0.88 | 0.804 | 0.523 | 820.14 | 3.637 |
| 35.84 | 115.78 | 2.4154 | 16.70 | 0.82 | 4.91% | 5.740 | 0.97 | 8.88 | 3.20 | 9.26 | 306 | 2.734 | 2.734 | 0.88 | 0.806 | 0.522 | 798.84 | 3.596 |
| 35.91 | 114.72 | 2.4194 | 15.63 | 0.73 | 4.67% | 5.526 | 0.97 | 8.20 | 3.22 | 9.51 | 314 | 2.956 | 2.956 | 0.88 | 0.808 | 0.522 | 779.18 | 3.563 |
| 35.97 | 113.77 | 2.4228 | 13.58 | 0.67 | 4.93% | 6.005 | 1.00 | 6.92 | 3.30 | 10.76 | 355 | 4.249 | 4.249 | 0.88 | 0.810 | 0.522 | 764.67 | 3.533 |
| 36.04 | 113.36 | 2.4268 | 14.06 | 0.62 | 4.41% | 5.330 | 0.98 | 7.21 | 3.26 | 10.05 | 332 | 3.468 | 3.468 | 0.88 | 0.812 | 0.522 | 751.55 | 3.520 |
| 36.12 | 112.14 | 2.4312 | 12.50 | 0.55 | 4.40% | 5.462 | 1.00 | 6.23 | 3.32 | 10.95 | 361 | 4.468 | 4.468 | 0.88 | 0.815 | 0.522 | 731.28 | 3.483 |
| 36.17 | 111.76 | 2.4340 | 12.01 | 0.53 | 4.41% | 5.535 | 1.00 | 5.92 | 3.34 | 11.29 | 372 | 4.883 | 4.883 | 0.88 | 0.817 | 0.522 | 725.02 | 3.471 |
| 36.26 | 111.62 | 2.4391 | 12.31 | 0.51 | 4.14% | 5.167 | 1.00 | 6.09 | 3.31 | 10.85 | 358 | 4.348 | 4.348 | 0.88 | 0.819 | 0.522 | 718.51 | 3.466 |
| 36.31 | 111.73 | 2.4419 | 12.31 | 0.52 | 4.22% | 5.269 | 1.00 | 6.09 | 3.31 | 10.93 | 361 | 4.448 | 4.448 | 0.88 | 0.821 | 0.522 | 721.79 | 3.470 |
| 36.39 | 112.08 | 2.4463 | 12.01 | 0.55 | 4.58% | 5.751 | 1.00 | 5.89 | 3.35 | 11.47 | 378 | 5.121 | 5.121 | 0.88 | 0.823 | 0.522 | 731.28 | 3.481 |
| 36.44 | 112.54 | 2.4492 | 12.50 | 0.58 | 4.64% | 5.771 | 1.00 | 6.19 | 3.33 | 11.21 | 370 | 4.787 | 4.787 | 0.88 | 0.825 | 0.522 | 740.27 | 3.495 |
| 36.48 | 113.04 | 2.4514 | 12.99 | 0.61 | 4.70% | 5.788 | 1.00 | 6.48 | 3.32 | 10.96 | 362 | 4.486 | 4.486 | 0.88 | 0.826 | 0.522 | 748.80 | 3.511 |
| 36.57 | 114.45 | 2.4566 | 15.24 | 0.70 | 4.59% | 5.476 | 0.98 | 7.85 | 3.23 | 9.70 | 320 | 3.127 | 3.127 | 0.88 | 0.829 | 0.522 | 772.08 | 3.554 |
| 36.62 | 115.01 | 2.4594 | 15.33 | 0.76 | 4.96% | 5.905 | 0.98 | 7.90 | 3.25 | 9.97 | 329 | 3.392 | 3.392 | 0.88 | 0.831 | 0.522 | 785.99 | 3.572 |
| 36.70 | 117.05 | 2.4641 | 18.46 | 0.94 | 5.09% | 5.877 | 0.96 | 9.81 | 3.17 | 8.86 | 292 | 2.406 | 2.406 | 0.88 | 0.833 | 0.522 | 821.95 | 3.635 |
| 36.75 | 118.20 | 2.4671 | 20.90 | 1.06 | 5.07% | 5.751 | 0.94 | 11.29 | 3.12 | 8.13 | 268 | 1.873 | 1.873 | 0.88 | 0.835 | 0.522 | 842.27 | 3.671 |
| 36.84 | 119.98 | 2.4725 | 25.00 | 1.27 | 5.08% | 5.638 | 0.92 | 13.78 | 3.04 | 7.21 | 238 | 1.331 | 1.331 | 0.88 | 0.837 | 0.522 | 872.85 | 3.726 |
| 36.88 | 120.96 | 2.4749 | 26.66 | 1.42 | 5.33% | 5.871 | 0.92 | 14.78 | 3.03 | 7.07 | 233 | 1.259 | 1.259 | 0.88 | 0.839 | 0.521 | 891.73 | 3.757 |
| 36.96 | 121.70 | 2.4798 | 28.71 | 1.54 | 5.36% | 5.871 | 0.91 | 16.01 | 3.00 | 6.76 | 223 | 1.111 | 1.111 | 0.87 | 0.841 | 0.521 | 905.45 | 3.780 |
| 37.02 | 122.13 | 2.4834 | 29.89 | 1.61 | 5.39% | 5.875 | 0.90 | 16.71 | 2.99 | 6.60 | 218 | 1.040 | 1.040 | 0.87 | 0.843 | 0.521 | 912.97 | 3.793 |
| 37.10 | 123.43 | 2.4884 | 35.65 | 1.81 | 5.08% | 5.458 | 0.88 | 20.19 | 2.90 | 5.70 | 188 | 0.700 | 0.700 | 0.87 | 0.846 | 0.521 | 932.78 | 3.833 |
| 37.16 | 124.27 | 2.4921 | 42.49 | 1.92 | 4.52% | 4.800 | 0.85 | 24.32 | 2.80 | 4.77 | 158 | 0.443 | 0.443 | 0.87 | 0.847 | 0.521 | 942.76 | 3.859 |
| 37.24 | 124.79 | 2.4971 | 49.71 | 1.95 | 3.92% | 4.130 | 0.82 | 28.66 | 2.70 | 3.98 | 131 | 0.290 | 0.290 | 0.87 | 0.850 | 0.521 | 945.38 | 3.875 |
| 37.27 | 124.62 | 2.4990 | 48.15 | 1.93 | 4.01% | 4.228 | 0.82 | 27.70 | 2.72 | 4.11 | 136 | 0.313 | 0.313 | 0.87 | 0.851 | 0.521 | 943.64 | 3.870 |
| 37.37 | 123.42 | 2.5051 | 37.31 | 1.79 | 4.80% | 5.143 | 0.87 | 21.08 | 2.87 | 5.39 | 178 | 0.603 | 0.603 | 0.87 | 0.854 | 0.521 | 930.90 | 3.833 |
| 37.42 | 120.87 | 2.5081 | 27.45 | 1.40 | 5.10% | 5.613 | 0.91 | 15.09 | 3.01 | 6.83 | 225 | 1.144 | 1.144 | 0.87 | 0.856 | 0.521 | 889.33 | 3.754 |
| 37.51 | 116.16 | 2.5134 | 21.68 | 0.79 | 3.64% | 4.122 | 0.91 | 11.58 | 3.01 | 6.88 | 227 | 1.168 | 1.168 | 0.87 | 0.858 | 0.521 | 792.54 | 3.607 |
| 37.55 | 116.10 | 2.5157 | 20.41 | 0.80 | 3.92% | 4.471 | 0.93 | 10.80 | 3.06 | 7.43 | 245 | 1.452 | 1.452 | 0.87 | 0.860 | 0.520 | 794.67 | 3.606 |
| 37.60 | 115.84 | 2.5186 | 19.44 | 0.79 | 4.06% | 4.669 | 0.94 | 10.21 | 3.09 | 7.83 | 258 | 1.684 | 1.684 | 0.87 | 0.861 | 0.520 | 792.54 | 3.598 |
| 37.69 | 115.49 | 2.5238 | 18.26 | 0.77 | 4.22% | 4.893 | 0.95 | 9.48 | 3.13 | 8.33 | 275 | 2.015 | 2.015 | 0.87 | 0.864 | 0.520 | 788.20 | 3.587 |
| 37.76 | 115.29 | 2.5278 | 16.80 | 0.77 | 4.58% | 5.395 | 0.97 | 8.59 | 3.19 | 9.18 | 303 | 2.664 | 2.664 | 0.87 | 0.866 | 0.520 | 788.20 | 3.580 |
| 37.81 | 115.36 | 2.5307 | 16.99 | 0.77 | 4.53% | 5.325 | 0.96 | 8.69 | 3.19 | 9.07 | 299 | 2.571 | 2.571 | 0.87 | 0.868 | 0.520 | 788.20 | 3.583 |
| 37.88 | 115.48 | 2.5348 | 16.99 | 0.78 | 4.59% | 5.396 | 0.97 | 8.68 | 3.19 | 9.12 | 301 | 2.619 | 2.619 | 0.87 | 0.870 | 0.520 | 790.38 | 3.586 |
| 37.93 | 115.41 | 2.5376 | 16.21 | 0.79 | 4.87% | 5.778 | 0.98 | 8.21 | 3.23 | 9.68 | 319 | 3.113 | 3.113 | 0.87 | 0.871 | 0.520 | 792.54 | 3.584 |
| 38.01 | 115.18 | 2.5422 | 15.63 | 0.77 | 4.93% | 5.883 | 0.98 | 7.84 | 3.25 | 9.99 | 330 | 3.413 | 3.413 | 0.87 | 0.874 | 0.520 | 788.20 | 3.577 |
| 38.09 | 114.90 | 2.5468 | 15.63 | 0.74 | 4.73% | 5.656 | 0.98 | 7.83 | 3.24 | 9.84 | 325 | 3.263 | 3.263 | 0.87 | 0.876 | 0.520 | 781.48 | 3.568 |
| 38.15 | 114.65 | 2.5503 | 15.63 | 0.72 | 4.61% | 5.505 | 0.98 | 7.82 | 3.23 | 9.74 | 321 | 3.164 | 3.164 | 0.86 | 0.878 | 0.520 | 776.84 | 3.561 |
| 38.19 | 114.50 | 2.5526 | 15.92 | 0.70 | 4.40% | 5.237 | 0.97 | 7.99 | 3.21 | 9.43 | 311 | 2.881 | 2.881 | 0.86 | 0.880 | 0.520 | 772.08 | 3.556 |
| 38.28 | 109.95 | 2.5575 | 14.85 | 0.39 | 2.63% | 3.173 | 0.94 | 7.34 | 3.11 | 8.08 | 266 | 1.840 | 1.840 | 0.86 | 0.882 | 0.520 | 673.13 | 3.415 |
| 38.33 | 108.64 | 2.5602 | 15.24 | 0.32 | 2.10% | 2.524 | 0.92 | 7.56 | 3.04 | 7.24 | 239 | 1.347 | 1.347 | 0.86 | 0.884 | 0.519 | 639.67 | 3.374 |
| 38.42 | 111.03 | 2.5652 | 15.24 | 0.44 | 2.89% | 3.471 | 0.95 | 7.55 | 3.12 | 8.23 | 272 | 1.943 | 1.943 | 0.86 | 0.887 | 0.519 | 693.54 | 3.448 |
| 38.46 | 112.36 | 2.5675 | 15.63 | 0.53 | 3.39% | 4.057 | 0.95 | 7.78 | 3.15 | 8.62 | 284 | 2.219 | 2.219 | 0.86 | 0.888 | 0.519 | 725.02 | 3.489 |
| 38.55 | 114.81 | 2.5726 | 16.90 | 0.72 | 4.26% | 5.025 | 0.96 | 8.52 | 3.18 | 8.95 | 295 | 2.473 | 2.473 | 0.86 | 0.891 | 0.519 | 776.84 | 3.566 |
| 38.60 | 115.20 | 2.5755 | 13.09 | 0.82 | 6.26% | 7.799 | 1.00 | 6.25 | 3.41 | 12.46 | 411 | 6.545 | 6.545 | 0.86 | 0.892 | 0.519 | 798.84 | 3.578 |
| 38.65 | 116.85 | 2.5784 | 18.17 | 0.92 | 5.06% | 5.901 | 0.97 | 9.26 | 3.19 | 9.15 | 302 | 2.643 | 2.643 | 0.86 | 0.894 | 0.519 | 818.31 | 3.629 |
| 38.74 | 117.76 | 2.5837 | 20.51 | 1.01 | 4.92% | 5.634 | 0.95 | 10.63 | 3.13 | 8.32 | 274 | 2.003 | 2.003 | 0.86 | 0.897 | 0.519 | 834.10 | 3.657 |
| 38.78 | 118.09 | 2.5861 | 21.59 | 1.03 | 4.77% | 5.420 | 0.94 | 11.26 | 3.10 | 7.92 | 261 | 1.737 | 1.737 | 0.86 | 0.898 | 0.519 | 837.41 | 3.667 |
| 38.87 | 118.04 | 2.5914 | 23.73 | 1.00 | 4.21% | 4.731 | 0.91 | 12.50 | 3.02 | 7.00 | 231 | 1.227 | 1.227 | 0.86 | 0.901 | 0.519 | 832.41 | 3.666 |
| 38.96 | 117.73 | 2.5967 | 24.52 | 0.94 | 3.83% | 4.288 | 0.90 | 12.95 | 2.98 | 6.55 | 216 | 1.018 | 1.018 | 0.86 | 0.904 | 0.519 | 821.95 | 3.656 |
| 38.99 | 117.51 | 2.5985 | 23.73 | 0.93 | 3.92% | 4.401 | 0.91 | 12.47 | 3.00 | 6.78 | 224 | 1.120 | 1.120 | 0.86 | 0.904 | 0.519 | 820.14 | 3.649 |
| 39.05 | 117.16 | 2.6020 | 22.17 | 0.90 | 4.06% | 4.599 | 0.92 | 11.54 | 3.04 | 7.24 | 239 | 1.348 | 1.348 | 0.86 | 0.906 | 0.518 | 814.59 | 3.639 |
| 39.14 | 116.19 | 2.6072 | 19.05 | 0.83 | 4.36% | 5.048 | 0.95 | 9.68 | 3.13 | 8.34 | 275 | 2.020 | 2.020 | 0.86 | 0.909 | 0.518 | 800.89 | 3.608 |
| 39.19 | 115.44 | 2.6101 | 17.58 | 0.77 | 4.38% | 5.144 | 0.96 | 8.81 | 3.17 | 8.87 | 293 | 2.409 | 2.409 | 0.86 | 0.911 | 0.518 | 788.20 | 3.585 |
| 39.27 | 113.81 | 2.6147 | 14.94 | 0.65 | 4.35% | 5.274 | 0.98 | 7.24 | 3.25 | 9.97 | 329 | 3.393 | 3.393 | 0.86 | 0.913 | 0.518 | 759.54 | 3.534 |
| 39.31 | 113.14 | 2.6169 | 14.65 | 0.60 | 4.10% | 4.986 | 0.98 | 7.07 | 3.24 | 9.88 | 326 | 3.303 | 3.303 | 0.86 | 0.914 | 0.518 | 746.00 | 3.514 |
| 39.38 | 112.36 | 2.6209 | 14.46 | 0.54 | 3.73% | 4.561 | 0.98 | 6.95 | 3.23 | 9.63 | 318 | 3.061 | 3.061 | 0.86 | 0.917 | 0.518 | 728.18 | 3.489 |
| 39.45 | 111.52 | 2.6248 | 13.58 | 0.49 | 3.61% | 4.473 | 0.98 | 6.42 | 3.25 | 9.98 | 329 | 3.399 | 3.399 | 0.85 | 0.919 | 0.518 | 711.74 | 3.463 |
| 39.53 | 110.74 | 2.6292 | 13.48 | 0.44 | 3.26% | 4.055 | 0.98 | 6.35 | 3.23 | 9.66 | 319 | 3.095 | 3.095 | 0.85 | 0.921 | 0.518 | 693.54 | 3.439 |
| 39.57 | 110.37 | 2.6314 | 13.77 | 0.42 | 3.05% | 3.771 | 0.97 | 6.52 | 3.20 | 9.26 | 306 | 2.733 | 2.733 | 0.85 | 0.923 | 0.518 | 685.67 | 3.428 |
| 39.65 | 110.43 | 2.6358 | 13.48 | 0.42 | 3.12% | 3.873 | 0.97 | 6.34 | 3.22 | 9.51 | 314 | 2.950 | 2.950 | 0.85 | 0.925 | 0.518 | 685.67 | 3.430 |
| 39.71 | 110.45 | 2.6391 | 13.48 | 0.43 | 3.19% | 3.966 | 0.98 | 6.33 | 3.22 | 9.60 | 317 | 3.036 | 3.036 | 0.85 | 0.927 | 0.518 | 689.65 | 3.430 |
| 39.77 | 110.54 | 2.6424 | 13.48 | 0.43 | 3.19% | 3.968 | 0.98 | 6.32 | 3.23 | 9.61 | 317 | 3.043 | 3.043 | 0.85 | 0.929 | 0.517 | 689.65 | 3.433 |
| 39.85 | 111.19 | 2.6469 | 13.58 | 0.47 | 3.46% | 4.299 | 0.98 | 6.37 | 3.24 | 9.87 | 326 | 3.290 | 3.290 | 0.85 | 0.931 | 0.517 | 704.69 | 3.453 |
| 39.93 | 112.08 | 2.6514 | 13.77 | 0.53 | 3.85% | 4.767 | 0.99 | 6.47 | 3.26 | 10.18 | 336 | 3.608 | 3.608 | 0.85 | 0.934 | 0.517 | 725.02 | 3.481 |
| 39.98 | 112.99 | 2.6542 | 15.14 | 0.58 | 3.83% | 4.645 | 0.97 | 7.26 | 3.21 | 9.46 | 312 | 2.908 | 2.908 | 0.85 | 0.935 | 0.517 | 740.27 | 3.509 |
| 40.03 | 113.67 | 2.6570 | 15.63 | 0.63 | 4.03% | 4.856 | 0.97 | 7.54 | 3.21 | 9.43 | 311 | 2.884 | 2.884 | 0.85 | 0.937 | 0.517 | 754.26 | 3.530 |
| 40.12 | 115.23 | 2.6622 | 17.39 | 0.75 | 4.31% | 5.092 | 0.96 | 8.55 | 3.18 | 8.97 | 296 | 2.495 | 2.495 | 0.85 | 0.940 | 0.517 | 783.75 | 3.579 |
| 40.16 | 115.76 | 2.6645 | 18.46 | 0.79 | 4.28% | 5.001 | 0.95 | 9.16 | 3.15 | 8.57 | 283 | 2.181 | 2.181 | 0.85 | 0.941 | 0.517 | 792.54 | 3.595 |
| 40.22 | 115.44 | 2.6680 | 20.41 | 0.73 | 3.58% | 4.115 | 0.92 | 10.28 | 3.05 | 7.36 | 243 | 1.412 | 1.412 | 0.85 | 0.943 | 0.517 | 779.18 | 3.585 |
| 40.30 | 110.95 | 2.6724 | 21.78 | 0.39 | 1.79% | 2.041 | 0.86 | 11.06 | 2.84 | 5.15 | 170 | 0.538 | 0.538 | 0.85 | 0.945 | 0.517 | 673.13 | 3.446 |
| 40.38 | 116.17 | 2.6771 | 22.07 | 0.79 | 3.58% | 4.074 | 0.91 | 11.21 | 3.02 | 6.96 | 230 | 1.206 | 1.206 | 0.85 | 0.948 | 0.516 | 792.54 | 3.608 |
| 40.43 | 118.00 | 2.6800 | 22.07 | 1.01 | 4.58% | 5.209 | 0.93 | 11.20 | 3.09 | 7.79 | 257 | 1.658 | 1.658 | 0.85 | 0.949 | 0.516 | 834.10 | 3.665 |
| 40.50 | 119.39 | 2.6842 | 22.17 | 1.22 | 5.50% | 6.261 | 0.95 | 11.25 | 3.14 | 8.45 | 279 | 2.096 | 2.096 | 0.85 | 0.952 | 0.516 | 866.05 | 3.708 |
| 40.56 | 120.02 | 2.6878 | 24.32 | 1.29 | 5.30% | 5.963 | 0.94 | 12.47 | 3.09 | 7.81 | 258 | 1.669 | 1.669 | 0.85 | 0.953 | 0.516 | 875.49 | 3.727 |
| 40.65 | 121.71 | 2.6933 | 37.99 | 1.40 | 3.69% | 3.966 | 0.85 | 20.32 | 2.80 | 4.78 | 158 | 0.444 | 0.444 | 0.84 | 0.956 | 0.516 | 889.33 | 3.780 |
| 40.70 | 122.52 | 2.6964 | 49.13 | 1.44 | 2.93% | 3.101 | 0.80 | 26.71 | 2.63 | 3.52 | 116 | 0.226 | 0.274 | 0.84 | 0.958 | 0.516 | 894.10 | 3.805 |
| 40.78 | 123.87 | 2.7013 | 78.04 | 1.48 | 1.90% | 1.964 | 0.71 | 43.27 | 2.33 | 2.04 | 103 | 0.181 | 0.192 | 0.84 | 0.960 | 0.516 | 898.73 | 3.847 |
| 40.83 | 124.47 | 2.7044 | 102.85 | 1.47 | 1.43% | 1.468 | 0.65 | 57.47 | 2.14 | 1.54 | 106 | 0.190 | 0.309 | 0.84 | 0.962 | 0.516 | 897.59 | 3.866 |
| 40.92 | 124.20 | 2.7100 | 133.90 | 1.30 | 0.97% | 0.991 | 0.59 | 75.17 | 1.93 | 1.22 | 114 | 0.216 | 0.278 | 0.84 | 0.965 | 0.515 | 876.80 | 3.857 |
| 40.97 | 123.83 | 2.7131 | 149.73 | 1.19 | 0.79% | 0.809 | 0.56 | 84.16 | 1.83 | 1.13 | 120 | 0.240 | 0.286 | 0.84 | 0.966 | 0.515 | 861.84 | 3.846 |
| 41.02 | 123.43 | 2.7162 | 162.33 | 1.09 | 0.67% | 0.683 | 0.53 | 91.29 | 1.76 | 1.08 | 125 | 0.262 | 0.286 | 0.84 | 0.968 | 0.515 | 846.99 | 3.833 |
| 41.09 | 123.26 | 2.7205 | 171.41 | 1.05 | 0.61% | 0.622 | 0.52 | 96.37 | 1.71 | 1.05 | 129 | 0.281 | 0.281 | 0.84 | 0.970 | 0.515 | 840.67 | 3.828 |
| 41.15 | 123.71 | 2.7242 | 181.37 | 1.10 | 0.61% | 0.616 | 0.51 | 101.95 | 1.69 | 1.03 | 135 | 0.310 | 0.310 | 0.84 | 0.972 | 0.515 | 848.54 | 3.842 |
| 41.21 | 123.54 | 2.7279 | 186.26 | 1.06 | 0.57% | 0.578 | 0.51 | 104.63 | 1.66 | 1.01 | 137 | 0.318 | 0.318 | 0.84 | 0.974 | 0.515 | 842.27 | 3.837 |
| 41.28 | 123.84 | 2.7323 | 190.16 | 1.10 | 0.58% | 0.587 | 0.50 | 106.72 | 1.66 | 1.01 | 139 | 0.332 | 0.332 | 0.84 | 0.976 | 0.515 | 848.54 | 3.846 |
| 41.37 | 124.14 | 2.7378 | 191.14 | 1.14 | 0.60% | 0.605 | 0.51 | 107.10 | 1.66 | 1.01 | 141 | 0.338 | 0.338 | 0.84 | 0.979 | 0.514 | 854.58 | 3.855 |
| 41.42 | 124.24 | 2.7410 | 189.58 | 1.16 | 0.61% | 0.621 | 0.51 | 106.12 | 1.67 | 1.02 | 140 | 0.336 | 0.336 | 0.84 | 0.980 | 0.514 | 857.52 | 3.858 |
| 41.50 | 124.45 | 2.7459 | 183.62 | 1.21 | 0.66% | 0.669 | 0.52 | 102.59 | 1.71 | 1.04 | 138 | 0.323 | 0.323 | 0.84 | 0.983 | 0.514 | 864.66 | 3.865 |
| 41.55 | 124.50 | 2.7490 | 176.10 | 1.23 | 0.70% | 0.710 | 0.53 | 98.23 | 1.74 | 1.06 | 134 | 0.304 | 0.304 | 0.84 | 0.984 | 0.514 | 867.43 | 3.866 |
| 41.62 | 124.58 | 2.7534 | 161.15 | 1.28 | 0.79% | 0.808 | 0.55 | 89.65 | 1.81 | 1.11 | 127 | 0.269 | 0.269 | 0.84 | 0.987 | 0.514 | 874.17 | 3.869 |
| 41.68 | 124.65 | 2.7571 | 145.62 | 1.34 | 0.92% | 0.938 | 0.57 | 80.77 | 1.89 | 1.18 | 119 | 0.238 | 0.265 | 0.84 | 0.988 | 0.514 | 881.92 | 3.871 |
| 41.77 | 124.83 | 2.7628 | 118.38 | 1.47 | 1.24% | 1.271 | 0.62 | 65.26 | 2.05 | 1.38 | 110 | 0.203 | 0.300 | 0.84 | 0.991 | 0.513 | 897.59 | 3.877 |
| 41.82 | 124.87 | 2.7659 | 103.14 | 1.55 | 1.50% | 1.544 | 0.66 | 56.61 | 2.16 | 1.57 | 107 | 0.194 | 0.320 | 0.84 | 0.993 | 0.513 | 906.55 | 3.878 |
| 41.87 | 124.63 | 2.7690 | 80.38 | 1.63 | 2.03% | 2.100 | 0.71 | 43.73 | 2.34 | 2.09 | 107 | 0.193 | 0.201 | 0.83 | 0.994 | 0.513 | 915.06 | 3.870 |
| 41.94 | 123.95 | 2.7733 | 61.34 | 1.63 | 2.66% | 2.783 | 0.77 | 32.96 | 2.52 | 2.89 | 108 | 0.198 | 0.222 | 0.83 | 0.997 | 0.513 | 915.06 | 3.849 |
| 42.02 | 122.51 | 2.7782 | 43.76 | 1.49 | 3.40% | 3.636 | 0.83 | 23.03 | 2.73 | 4.21 | 139 | 0.329 | 0.329 | 0.83 | 0.999 | 0.513 | 899.87 | 3.805 |
| 42.07 | 121.73 | 2.7813 | 37.80 | 1.41 | 3.73% | 4.026 | 0.85 | 19.67 | 2.81 | 4.90 | 162 | 0.474 | 0.474 | 0.83 | 1.001 | 0.513 | 890.54 | 3.780 |
| 42.13 | 120.65 | 2.7849 | 31.35 | 1.30 | 4.15% | 4.551 | 0.88 | 16.03 | 2.92 | 5.91 | 195 | 0.771 | 0.771 | 0.83 | 1.002 | 0.512 | 876.80 | 3.747 |
| 42.20 | 119.47 | 2.7891 | 26.57 | 1.17 | 4.40% | 4.920 | 0.91 | 13.33 | 3.01 | 6.85 | 226 | 1.156 | 1.156 | 0.83 | 1.005 | 0.512 | 858.97 | 3.710 |
| 42.26 | 118.55 | 2.7926 | 22.85 | 1.08 | 4.73% | 5.385 | 0.94 | 11.23 | 3.10 | 7.89 | 260 | 1.719 | 1.719 | 0.83 | 1.007 | 0.512 | 845.43 | 3.682 |
| 42.32 | 117.31 | 2.7962 | 21.49 | 0.93 | 4.33% | 4.975 | 0.94 | 10.46 | 3.10 | 7.92 | 261 | 1.742 | 1.742 | 0.83 | 1.008 | 0.512 | 820.14 | 3.643 |
| 42.40 | 114.99 | 2.8008 | 21.29 | 0.68 | 3.19% | 3.678 | 0.91 | 10.33 | 3.02 | 6.97 | 230 | 1.212 | 1.212 | 0.83 | 1.011 | 0.512 | 767.17 | 3.571 |
| 42.48 | 112.74 | 2.8053 | 21.59 | 0.50 | 2.32% | 2.662 | 0.89 | 10.48 | 2.93 | 5.98 | 197 | 0.796 | 0.796 | 0.83 | 1.013 | 0.512 | 715.16 | 3.501 |
| 42.53 | 111.54 | 2.8081 | 21.59 | 0.42 | 1.95% | 2.236 | 0.87 | 10.47 | 2.88 | 5.55 | 183 | 0.650 | 0.650 | 0.83 | 1.015 | 0.512 | 685.67 | 3.464 |
| 42.60 | 109.42 | 2.8119 | 21.59 | 0.32 | 1.48% | 1.704 | 0.85 | 10.46 | 2.82 | 4.94 | 163 | 0.483 | 0.483 | 0.83 | 1.017 | 0.512 | 639.67 | 3.398 |
| 42.65 | 108.75 | 2.8146 | 21.59 | 0.29 | 1.34% | 1.545 | 0.85 | 10.45 | 2.80 | 4.74 | 157 | 0.437 | 0.437 | 0.83 | 1.019 | 0.511 | 623.01 | 3.377 |
| 42.74 | 109.81 | 2.8195 | 22.17 | 0.33 | 1.49% | 1.705 | 0.85 | 10.76 | 2.81 | 4.84 | 160 | 0.460 | 0.460 | 0.83 | 1.021 | 0.511 | 644.87 | 3.410 |
| 42.80 | 110.15 | 2.8228 | 19.63 | 0.36 | 1.83% | 2.142 | 0.88 | 9.34 | 2.92 | 5.88 | 194 | 0.759 | 0.759 | 0.83 | 1.023 | 0.511 | 659.59 | 3.421 |
| 42.88 | 110.32 | 2.8273 | 16.41 | 0.39 | 2.38% | 2.871 | 0.93 | 7.54 | 3.07 | 7.61 | 251 | 1.553 | 1.553 | 0.83 | 1.026 | 0.511 | 673.13 | 3.426 |
| 42.93 | 110.41 | 2.8300 | 16.21 | 0.40 | 2.47% | 2.990 | 0.94 | 7.42 | 3.09 | 7.81 | 258 | 1.672 | 1.672 | 0.83 | 1.027 | 0.511 | 677.41 | 3.429 |
| 42.99 | 110.49 | 2.8333 | 16.21 | 0.40 | 2.47% | 2.990 | 0.94 | 7.41 | 3.09 | 7.82 | 258 | 1.675 | 1.675 | 0.83 | 1.029 | 0.511 | 677.41 | 3.431 |
| 43.05 | 110.86 | 2.8367 | 16.36 | 0.42 | 2.57% | 3.106 | 0.94 | 7.49 | 3.10 | 7.89 | 260 | 1.719 | 1.719 | 0.83 | 1.031 | 0.511 | 685.67 | 3.443 |
| 43.11 | 111.42 | 2.8400 | 16.51 | 0.45 | 2.73% | 3.292 | 0.94 | 7.57 | 3.11 | 8.03 | 265 | 1.808 | 1.808 | 0.82 | 1.033 | 0.511 | 697.34 | 3.460 |
| 43.18 | 112.89 | 2.8440 | 16.90 | 0.55 | 3.25% | 3.913 | 0.95 | 7.77 | 3.14 | 8.48 | 280 | 2.116 | 2.116 | 0.82 | 1.035 | 0.510 | 731.28 | 3.506 |
| 43.24 | 113.88 | 2.8474 | 17.29 | 0.62 | 3.59% | 4.293 | 0.96 | 7.98 | 3.16 | 8.68 | 286 | 2.263 | 2.263 | 0.82 | 1.037 | 0.510 | 751.55 | 3.537 |
| 43.34 | 114.95 | 2.8531 | 18.56 | 0.70 | 3.77% | 4.457 | 0.95 | 8.66 | 3.14 | 8.41 | 277 | 2.065 | 2.065 | 0.82 | 1.040 | 0.510 | 772.08 | 3.570 |
| 43.38 | 115.37 | 2.8554 | 19.53 | 0.73 | 3.74% | 4.378 | 0.94 | 9.19 | 3.11 | 8.06 | 266 | 1.830 | 1.830 | 0.82 | 1.041 | 0.510 | 779.18 | 3.583 |
| 43.47 | 116.00 | 2.8606 | 20.80 | 0.78 | 3.75% | 4.348 | 0.93 | 9.88 | 3.08 | 7.71 | 254 | 1.610 | 1.610 | 0.82 | 1.044 | 0.510 | 790.38 | 3.602 |
| 43.52 | 116.37 | 2.8636 | 21.19 | 0.81 | 3.82% | 4.420 | 0.93 | 10.08 | 3.08 | 7.67 | 253 | 1.588 | 1.588 | 0.82 | 1.046 | 0.510 | 796.77 | 3.614 |
| 43.57 | 117.17 | 2.8665 | 21.10 | 0.91 | 4.31% | 4.991 | 0.94 | 10.02 | 3.12 | 8.12 | 268 | 1.871 | 1.871 | 0.82 | 1.047 | 0.510 | 816.46 | 3.639 |
| 43.64 | 117.92 | 2.8706 | 20.90 | 1.01 | 4.83% | 5.602 | 0.95 | 9.90 | 3.15 | 8.61 | 284 | 2.213 | 2.213 | 0.82 | 1.050 | 0.509 | 834.10 | 3.662 |
| 43.72 | 118.41 | 2.8753 | 19.73 | 1.10 | 5.58% | 6.526 | 0.97 | 9.24 | 3.22 | 9.56 | 315 | 2.996 | 2.996 | 0.82 | 1.052 | 0.509 | 848.54 | 3.677 |
| 43.78 | 119.26 | 2.8789 | 19.83 | 1.23 | 6.20% | 7.256 | 0.98 | 9.29 | 3.25 | 9.98 | 329 | 3.402 | 3.402 | 0.82 | 1.054 | 0.509 | 867.43 | 3.704 |
| 43.86 | 120.81 | 2.8838 | 22.27 | 1.47 | 6.60% | 7.583 | 0.97 | 10.61 | 3.22 | 9.49 | 313 | 2.941 | 2.941 | 0.82 | 1.056 | 0.509 | 897.59 | 3.752 |
| 43.92 | 122.08 | 2.8874 | 27.05 | 1.64 | 6.06% | 6.787 | 0.94 | 13.21 | 3.11 | 8.03 | 265 | 1.808 | 1.808 | 0.82 | 1.058 | 0.509 | 916.10 | 3.791 |
| 43.97 | 123.24 | 2.8905 | 33.70 | 1.79 | 5.31% | 5.810 | 0.90 | 16.83 | 2.98 | 6.49 | 214 | 0.995 | 0.995 | 0.82 | 1.060 | 0.509 | 930.90 | 3.827 |
| 44.04 | 124.13 | 2.8948 | 39.17 | 1.92 | 4.90% | 5.293 | 0.88 | 19.79 | 2.89 | 5.63 | 186 | 0.677 | 0.677 | 0.82 | 1.062 | 0.508 | 942.76 | 3.855 |
| 44.09 | 124.40 | 2.8980 | 41.70 | 1.96 | 4.70% | 5.051 | 0.86 | 21.15 | 2.86 | 5.28 | 174 | 0.572 | 0.572 | 0.82 | 1.064 | 0.508 | 946.25 | 3.863 |
| 44.18 | 123.65 | 2.9035 | 37.90 | 1.83 | 4.83% | 5.229 | 0.88 | 19.05 | 2.90 | 5.72 | 189 | 0.706 | 0.706 | 0.82 | 1.066 | 0.508 | 934.64 | 3.840 |
| 44.23 | 122.89 | 2.9066 | 34.18 | 1.71 | 5.00% | 5.468 | 0.89 | 17.01 | 2.95 | 6.26 | 206 | 0.898 | 0.898 | 0.82 | 1.068 | 0.508 | 923.17 | 3.816 |
| 44.31 | 122.07 | 2.9115 | 29.11 | 1.61 | 5.53% | 6.145 | 0.92 | 14.23 | 3.05 | 7.34 | 242 | 1.402 | 1.402 | 0.82 | 1.070 | 0.508 | 912.97 | 3.791 |
| 44.36 | 121.67 | 2.9145 | 26.27 | 1.58 | 6.01% | 6.765 | 0.94 | 12.68 | 3.12 | 8.19 | 270 | 1.918 | 1.918 | 0.81 | 1.072 | 0.508 | 909.79 | 3.779 |
| 44.43 | 120.98 | 2.9188 | 23.15 | 1.50 | 6.48% | 7.414 | 0.97 | 10.97 | 3.20 | 9.24 | 305 | 2.713 | 2.713 | 0.81 | 1.074 | 0.507 | 901.00 | 3.757 |
| 44.49 | 120.70 | 2.9224 | 23.00 | 1.45 | 6.30% | 7.222 | 0.97 | 10.87 | 3.19 | 9.17 | 303 | 2.655 | 2.655 | 0.81 | 1.076 | 0.507 | 895.27 | 3.748 |
| 44.57 | 120.55 | 2.9272 | 23.00 | 1.42 | 6.17% | 7.074 | 0.96 | 10.86 | 3.19 | 9.09 | 300 | 2.589 | 2.589 | 0.81 | 1.079 | 0.507 | 891.73 | 3.744 |
| 44.63 | 120.59 | 2.9308 | 22.85 | 1.43 | 6.26% | 7.179 | 0.97 | 10.77 | 3.20 | 9.19 | 303 | 2.675 | 2.675 | 0.81 | 1.080 | 0.507 | 892.92 | 3.745 |
| 44.72 | 120.95 | 2.9363 | 26.76 | 1.42 | 5.31% | 5.960 | 0.93 | 12.86 | 3.08 | 7.65 | 253 | 1.579 | 1.579 | 0.81 | 1.083 | 0.507 | 891.73 | 3.756 |
| 44.77 | 121.12 | 2.9393 | 29.69 | 1.41 | 4.75% | 5.271 | 0.91 | 14.43 | 3.00 | 6.75 | 223 | 1.109 | 1.109 | 0.81 | 1.085 | 0.507 | 890.54 | 3.761 |
| 44.84 | 120.94 | 2.9435 | 32.91 | 1.33 | 4.04% | 4.438 | 0.88 | 16.14 | 2.91 | 5.80 | 191 | 0.731 | 0.731 | 0.81 | 1.087 | 0.506 | 880.66 | 3.756 |
| 44.89 | 120.73 | 2.9465 | 34.48 | 1.27 | 3.68% | 4.027 | 0.87 | 16.97 | 2.86 | 5.35 | 177 | 0.592 | 0.592 | 0.81 | 1.089 | 0.506 | 872.85 | 3.749 |
| 44.98 | 120.10 | 2.9519 | 32.23 | 1.19 | 3.69% | 4.064 | 0.88 | 15.74 | 2.89 | 5.63 | 186 | 0.677 | 0.677 | 0.81 | 1.091 | 0.506 | 861.84 | 3.730 |
| 45.03 | 119.72 | 2.9549 | 30.86 | 1.15 | 3.73% | 4.121 | 0.88 | 14.99 | 2.91 | 5.84 | 193 | 0.747 | 0.747 | 0.81 | 1.093 | 0.506 | 856.06 | 3.718 |
| 45.12 | 118.88 | 2.9603 | 27.15 | 1.07 | 3.94% | 4.423 | 0.90 | 12.97 | 2.99 | 6.60 | 218 | 1.041 | 1.041 | 0.81 | 1.096 | 0.506 | 843.86 | 3.692 |
| 45.15 | 118.75 | 2.9621 | 26.47 | 1.06 | 4.00% | 4.509 | 0.91 | 12.60 | 3.00 | 6.78 | 224 | 1.120 | 1.120 | 0.81 | 1.097 | 0.506 | 842.27 | 3.688 |
| 45.25 | 118.71 | 2.9680 | 25.20 | 1.07 | 4.25% | 4.813 | 0.92 | 11.90 | 3.04 | 7.23 | 239 | 1.342 | 1.342 | 0.81 | 1.100 | 0.505 | 843.86 | 3.687 |
| 45.30 | 118.67 | 2.9710 | 24.81 | 1.07 | 4.31% | 4.899 | 0.92 | 11.68 | 3.05 | 7.37 | 243 | 1.417 | 1.417 | 0.81 | 1.101 | 0.505 | 843.86 | 3.685 |
| 45.38 | 118.44 | 2.9757 | 22.46 | 1.07 | 4.76% | 5.492 | 0.95 | 10.41 | 3.13 | 8.29 | 274 | 1.985 | 1.985 | 0.81 | 1.104 | 0.505 | 843.86 | 3.678 |
| 45.43 | 118.34 | 2.9787 | 21.39 | 1.07 | 5.00% | 5.812 | 0.96 | 9.83 | 3.17 | 8.78 | 290 | 2.342 | 2.342 | 0.81 | 1.105 | 0.505 | 843.86 | 3.675 |
| 45.48 | 118.57 | 2.9816 | 22.61 | 1.09 | 4.82% | 5.553 | 0.95 | 10.47 | 3.13 | 8.31 | 274 | 1.995 | 1.995 | 0.81 | 1.107 | 0.505 | 846.99 | 3.682 |
| 45.56 | 118.22 | 2.9864 | 21.10 | 1.06 | 5.02% | 5.852 | 0.96 | 9.65 | 3.17 | 8.90 | 294 | 2.433 | 2.433 | 0.80 | 1.109 | 0.505 | 842.27 | 3.671 |
| 45.61 | 117.93 | 2.9893 | 22.76 | 0.99 | 4.35% | 5.007 | 0.94 | 10.53 | 3.10 | 7.90 | 261 | 1.729 | 1.729 | 0.80 | 1.111 | 0.504 | 830.71 | 3.662 |
| 45.68 | 115.77 | 2.9934 | 25.78 | 0.71 | 2.75% | 3.116 | 0.88 | 12.12 | 2.91 | 5.83 | 192 | 0.742 | 0.742 | 0.80 | 1.113 | 0.504 | 774.48 | 3.595 |
| 45.74 | 117.43 | 2.9969 | 28.32 | 0.86 | 3.04% | 3.396 | 0.88 | 13.46 | 2.90 | 5.68 | 187 | 0.693 | 0.693 | 0.80 | 1.115 | 0.504 | 806.90 | 3.647 |
| 45.80 | 118.51 | 3.0004 | 29.89 | 0.98 | 3.28% | 3.645 | 0.88 | 14.28 | 2.90 | 5.66 | 187 | 0.687 | 0.687 | 0.80 | 1.117 | 0.504 | 829.00 | 3.680 |
| 45.88 | 119.24 | 3.0052 | 29.20 | 1.09 | 3.73% | 4.161 | 0.89 | 13.89 | 2.94 | 6.14 | 203 | 0.855 | 0.855 | 0.80 | 1.119 | 0.504 | 846.99 | 3.703 |
| 45.96 | 119.54 | 3.0100 | 26.47 | 1.18 | 4.46% | 5.030 | 0.92 | 12.43 | 3.04 | 7.19 | 237 | 1.324 | 1.324 | 0.80 | 1.122 | 0.503 | 860.41 | 3.712 |
| 46.01 | 119.56 | 3.0130 | 25.69 | 1.19 | 4.63% | 5.248 | 0.93 | 12.00 | 3.06 | 7.49 | 247 | 1.483 | 1.483 | 0.80 | 1.124 | 0.503 | 861.84 | 3.713 |
| 46.10 | 119.17 | 3.0183 | 22.85 | 1.17 | 5.12% | 5.900 | 0.95 | 10.48 | 3.15 | 8.53 | 281 | 2.154 | 2.154 | 0.80 | 1.126 | 0.503 | 858.97 | 3.701 |
| 46.14 | 118.94 | 3.0207 | 21.78 | 1.15 | 5.28% | 6.130 | 0.96 | 9.91 | 3.18 | 8.95 | 295 | 2.475 | 2.475 | 0.80 | 1.128 | 0.503 | 856.06 | 3.694 |
| 46.23 | 118.62 | 3.0261 | 20.61 | 1.13 | 5.48% | 6.426 | 0.97 | 9.28 | 3.22 | 9.47 | 312 | 2.918 | 2.918 | 0.80 | 1.130 | 0.503 | 853.09 | 3.684 |
| 46.27 | 118.41 | 3.0284 | 19.92 | 1.11 | 5.57% | 6.571 | 0.98 | 8.91 | 3.24 | 9.77 | 322 | 3.198 | 3.198 | 0.80 | 1.132 | 0.503 | 850.07 | 3.677 |
| 46.36 | 118.09 | 3.0337 | 19.73 | 1.06 | 5.37% | 6.349 | 0.98 | 8.79 | 3.23 | 9.69 | 320 | 3.125 | 3.125 | 0.80 | 1.134 | 0.502 | 842.27 | 3.667 |
| 46.41 | 117.91 | 3.0367 | 19.83 | 1.03 | 5.19% | 6.133 | 0.97 | 8.84 | 3.22 | 9.53 | 314 | 2.969 | 2.969 | 0.80 | 1.136 | 0.502 | 837.41 | 3.662 |
| 46.49 | 117.96 | 3.0414 | 20.22 | 1.04 | 5.14% | 6.054 | 0.97 | 9.03 | 3.21 | 9.36 | 309 | 2.822 | 2.822 | 0.80 | 1.138 | 0.502 | 839.05 | 3.663 |
| 46.54 | 118.00 | 3.0444 | 20.51 | 1.04 | 5.07% | 5.955 | 0.97 | 9.17 | 3.20 | 9.21 | 304 | 2.695 | 2.695 | 0.80 | 1.140 | 0.502 | 839.05 | 3.665 |
| 46.62 | 118.09 | 3.0491 | 20.32 | 1.05 | 5.17% | 6.080 | 0.97 | 9.06 | 3.21 | 9.36 | 309 | 2.822 | 2.822 | 0.80 | 1.143 | 0.502 | 840.67 | 3.667 |
| 46.67 | 118.20 | 3.0520 | 20.32 | 1.07 | 5.27% | 6.196 | 0.97 | 9.05 | 3.21 | 9.44 | 312 | 2.895 | 2.895 | 0.80 | 1.144 | 0.502 | 843.86 | 3.671 |
| 46.76 | 118.33 | 3.0574 | 20.12 | 1.09 | 5.42% | 6.388 | 0.98 | 8.93 | 3.23 | 9.64 | 318 | 3.072 | 3.072 | 0.80 | 1.147 | 0.501 | 846.99 | 3.675 |
| 46.81 | 118.46 | 3.0603 | 19.92 | 1.11 | 5.57% | 6.584 | 0.98 | 8.82 | 3.24 | 9.83 | 324 | 3.255 | 3.255 | 0.79 | 1.148 | 0.501 | 850.07 | 3.679 |
| 46.85 | 118.66 | 3.0627 | 20.22 | 1.14 | 5.64% | 6.644 | 0.98 | 8.97 | 3.24 | 9.78 | 323 | 3.207 | 3.207 | 0.79 | 1.150 | 0.501 | 854.58 | 3.685 |
| 46.92 | 119.02 | 3.0669 | 20.71 | 1.19 | 5.75% | 6.745 | 0.98 | 9.21 | 3.23 | 9.70 | 320 | 3.135 | 3.135 | 0.79 | 1.152 | 0.501 | 861.84 | 3.696 |
| 47.01 | 119.70 | 3.0722 | 21.49 | 1.28 | 5.96% | 6.950 | 0.98 | 9.60 | 3.23 | 9.62 | 317 | 3.053 | 3.053 | 0.79 | 1.155 | 0.501 | 874.17 | 3.717 |
| 47.07 | 120.46 | 3.0759 | 22.07 | 1.41 | 6.39% | 7.423 | 0.98 | 9.90 | 3.24 | 9.75 | 322 | 3.175 | 3.175 | 0.79 | 1.157 | 0.500 | 890.54 | 3.741 |
| 47.12 | 121.01 | 3.0789 | 22.95 | 1.50 | 6.54% | 7.549 | 0.98 | 10.35 | 3.22 | 9.59 | 317 | 3.032 | 3.032 | 0.79 | 1.158 | 0.500 | 901.00 | 3.758 |
| 47.20 | 121.05 | 3.0837 | 25.20 | 1.47 | 5.83% | 6.647 | 0.95 | 11.50 | 3.15 | 8.56 | 282 | 2.174 | 2.174 | 0.79 | 1.161 | 0.500 | 897.59 | 3.759 |
| 47.25 | 121.13 | 3.0868 | 27.15 | 1.45 | 5.34% | 6.026 | 0.94 | 12.50 | 3.09 | 7.80 | 258 | 1.668 | 1.668 | 0.79 | 1.162 | 0.500 | 895.27 | 3.762 |
| 47.34 | 121.77 | 3.0922 | 29.89 | 1.53 | 5.12% | 5.709 | 0.92 | 13.90 | 3.04 | 7.16 | 236 | 1.307 | 1.307 | 0.79 | 1.165 | 0.500 | 904.35 | 3.782 |
| 47.38 | 122.31 | 3.0947 | 31.45 | 1.62 | 5.15% | 5.713 | 0.91 | 14.70 | 3.02 | 6.94 | 229 | 1.196 | 1.196 | 0.79 | 1.166 | 0.500 | 914.02 | 3.798 |

| DEPTH (ft) | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd $(\tau_s/\tau)$ [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35.57 | 1.978E+05 | 1.978E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 35.64 | 1.932E+05 | 1.932E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 35.71 | 1.893E+05 | 1.893E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 35.77 | 1.850E+05 | 1.850E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 35.84 | 1.775E+05 | 1.775E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 35.91 | 1.704E+05 | 1.704E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 35.97 | 1.655E+05 | 1.655E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.04 | 1.604E+05 | 1.604E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.12 | 1.536E+05 | 1.536E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.17 | 1.514E+05 | 1.514E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.26 | 1.489E+05 | 1.489E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.31 | 1.501E+05 | 1.501E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.39 | 1.536E+05 | 1.536E+05 | 1.00 | 0.1542 | 0.989 | 0.517 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.44 | 1.568E+05 | 1.568E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.48 | 1.597E+05 | 1.597E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.57 | 1.677E+05 | 1.677E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.62 | 1.730E+05 | 1.730E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.70 | 1.859E+05 | 1.859E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.75 | 1.933E+05 | 1.933E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.84 | 2.045E+05 | 2.045E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.88 | 2.117E+05 | 2.117E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 36.96 | 2.169E+05 | 2.169E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.02 | 2.198E+05 | 2.198E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.10 | 2.270E+05 | 2.270E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.16 | 2.303E+05 | 2.303E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.24 | 2.306E+05 | 2.306E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.27 | 2.301E+05 | 2.301E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.37 | 2.261E+05 | 2.261E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.42 | 2.107E+05 | 2.107E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.51 | 1.741E+05 | 1.741E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.55 | 1.751E+05 | 1.751E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.60 | 1.746E+05 | 1.746E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.69 | 1.732E+05 | 1.732E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.76 | 1.735E+05 | 1.735E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.81 | 1.734E+05 | 1.734E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.88 | 1.742E+05 | 1.742E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 37.93 | 1.752E+05 | 1.752E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.01 | 1.737E+05 | 1.737E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.09 | 1.711E+05 | 1.711E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.15 | 1.695E+05 | 1.695E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.19 | 1.676E+05 | 1.676E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.28 | 1.327E+05 | 1.327E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.33 | 1.213E+05 | 1.213E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.42 | 1.395E+05 | 1.395E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.46 | 1.506E+05 | 1.506E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.55 | 1.693E+05 | 1.693E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.60 | 1.784E+05 | 1.784E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.65 | 1.845E+05 | 1.845E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.74 | 1.902E+05 | 1.902E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.78 | 1.912E+05 | 1.912E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.87 | 1.890E+05 | 1.890E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.96 | 1.848E+05 | 1.848E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 38.99 | 1.843E+05 | 1.843E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.05 | 1.824E+05 | 1.824E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.14 | 1.778E+05 | 1.778E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.19 | 1.733E+05 | 1.733E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.27 | 1.632E+05 | 1.632E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.31 | 1.584E+05 | 1.584E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.38 | 1.520E+05 | 1.520E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.45 | 1.463E+05 | 1.463E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.53 | 1.399E+05 | 1.399E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.57 | 1.372E+05 | 1.372E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.65 | 1.371E+05 | 1.371E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.71 | 1.387E+05 | 1.387E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.77 | 1.385E+05 | 1.385E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.85 | 1.438E+05 | 1.438E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.93 | 1.510E+05 | 1.510E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 39.98 | 1.562E+05 | 1.562E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.03 | 1.612E+05 | 1.612E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.12 | 1.717E+05 | 1.717E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.16 | 1.747E+05 | 1.747E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.22 | 1.693E+05 | 1.693E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.30 | 1.315E+05 | 1.315E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.38 | 1.741E+05 | 1.741E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.43 | 1.898E+05 | 1.898E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.50 | 2.023E+05 | 2.023E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.56 | 2.056E+05 | 2.056E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.65 | 2.092E+05 | 2.092E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.70 | 2.101E+05 | 2.101E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.03 | 0.00 | | |
| 40.78 | 2.100E+05 | 2.100E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.38 | 0.52 | <= | 2.26 | 0.021 | 0.00 | 2.03 | 0.00 | 40.70 | 40.78 |
| 40.83 | 2.084E+05 | 2.084E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.61 | 0.83 | <= | 1.68 | 0.010 | 0.00 | 2.01 | 0.00 | 40.78 | 40.83 |
| 40.92 | 1.993E+05 | 1.993E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.54 | 0.75 | <= | 1.89 | 0.020 | 0.00 | 2.00 | 0.00 | 40.83 | 40.92 |
| 40.97 | 1.931E+05 | 1.931E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.56 | 0.77 | <= | 1.87 | 0.011 | 0.00 | 1.98 | 0.00 | 40.92 | 40.97 |
| 41.02 | 1.872E+05 | 1.872E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.56 | 0.77 | <= | 1.69 | 0.009 | 0.00 | 1.97 | 0.00 | 40.97 | 41.02 |
| 41.09 | 1.846E+05 | 1.846E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.55 | 0.76 | <= | 1.57 | 0.009 | 0.00 | 1.96 | 0.00 | 41.02 | 41.09 |
| 41.15 | 1.874E+05 | 1.874E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.61 | 0.84 | <= | 1.11 | 0.005 | 0.00 | 1.95 | 0.00 | 41.09 | 41.15 |
| 41.21 | 1.849E+05 | 1.849E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.63 | 0.86 | <= | 1.16 | 0.005 | 0.00 | 1.95 | 0.00 | 41.15 | 41.21 |
| 41.28 | 1.872E+05 | 1.872E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.65 | 0.90 | <= | 1.24 | 0.007 | 0.00 | 1.94 | 0.00 | 41.21 | 41.28 |
| 41.37 | 1.894E+05 | 1.894E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.66 | 0.91 | <= | 0.68 | 0.005 | 0.00 | 1.93 | 0.00 | 41.28 | 41.37 |
| 41.42 | 1.906E+05 | 1.906E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.66 | 0.91 | <= | 0.67 | 0.004 | 0.00 | 1.93 | 0.00 | 41.37 | 41.42 |
| 41.50 | 1.934E+05 | 1.934E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | | 0.64 | 0.87 | <= | 1.19 | 0.007 | 0.00 | 1.93 | 0.00 | 41.42 | 41.50 |
| 41.55 | 1.946E+05 | 1.946E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.60 | 0.82 | <= | 1.07 | 0.006 | 0.00 | 1.92 | 0.00 | 41.50 | 41.55 |
| 41.62 | 1.975E+05 | 1.975E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.53 | 0.73 | <= | 1.53 | 0.013 | 0.00 | 1.91 | 0.00 | 41.55 | 41.62 |
| 41.68 | 2.009E+05 | 2.009E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.52 | 0.72 | <= | 1.65 | 0.012 | 0.00 | 1.90 | 0.00 | 41.62 | 41.68 |
| 41.77 | 2.078E+05 | 2.078E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.59 | 0.81 | <= | 1.45 | 0.016 | 0.00 | 1.89 | 0.00 | 41.68 | 41.77 |
| 41.82 | 2.119E+05 | 2.119E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.63 | 0.87 | <= | 1.93 | 0.012 | 0.00 | 1.87 | 0.00 | 41.77 | 41.82 |
| 41.87 | 2.163E+05 | 2.163E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.40 | 0.54 | <= | 2.19 | 0.013 | 0.00 | 1.86 | 0.00 | 41.82 | 41.87 |
| 41.94 | 2.175E+05 | 2.175E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.44 | 0.60 | <= | 2.17 | 0.017 | 0.00 | 1.85 | 0.00 | 41.87 | 41.94 |
| 42.02 | 2.128E+05 | 2.128E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.07 | 2.098E+05 | 2.098E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.13 | 2.052E+05 | 2.052E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.20 | 1.989E+05 | 1.989E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.26 | 1.941E+05 | 1.941E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.32 | 1.846E+05 | 1.846E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.40 | 1.648E+05 | 1.648E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.48 | 1.461E+05 | 1.461E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.53 | 1.357E+05 | 1.357E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.60 | 1.204E+05 | 1.204E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.65 | 1.149E+05 | 1.149E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.74 | 1.219E+05 | 1.219E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.80 | 1.272E+05 | 1.272E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.88 | 1.323E+05 | 1.323E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.93 | 1.338E+05 | 1.338E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 42.99 | 1.337E+05 | 1.337E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.05 | 1.366E+05 | 1.366E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.11 | 1.405E+05 | 1.405E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.18 | 1.525E+05 | 1.525E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.24 | 1.597E+05 | 1.597E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.34 | 1.670E+05 | 1.670E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.38 | 1.694E+05 | 1.694E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.47 | 1.734E+05 | 1.734E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.52 | 1.757E+05 | 1.757E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.57 | 1.832E+05 | 1.832E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.64 | 1.900E+05 | 1.900E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.72 | 1.958E+05 | 1.958E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.78 | 2.032E+05 | 2.032E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.86 | 2.147E+05 | 2.147E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.92 | 2.214E+05 | 2.214E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 43.97 | 2.264E+05 | 2.264E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.04 | 2.306E+05 | 2.306E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.09 | 2.318E+05 | 2.318E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.18 | 2.275E+05 | 2.275E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.23 | 2.233E+05 | 2.233E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.31 | 2.199E+05 | 2.199E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.36 | 2.191E+05 | 2.191E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.43 | 2.161E+05 | 2.161E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.49 | 2.138E+05 | 2.138E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.57 | 2.124E+05 | 2.124E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.63 | 2.129E+05 | 2.129E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.72 | 2.117E+05 | 2.117E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.77 | 2.108E+05 | 2.108E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.84 | 2.065E+05 | 2.065E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.89 | 2.032E+05 | 2.032E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 44.98 | 1.991E+05 | 1.991E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.03 | 1.971E+05 | 1.971E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.12 | 1.929E+05 | 1.929E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.15 | 1.924E+05 | 1.924E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.25 | 1.932E+05 | 1.932E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.30 | 1.932E+05 | 1.932E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.38 | 1.936E+05 | 1.936E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.43 | 1.938E+05 | 1.938E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.48 | 1.948E+05 | 1.948E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.56 | 1.932E+05 | 1.932E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.61 | 1.884E+05 | 1.884E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.68 | 1.668E+05 | 1.668E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.74 | 1.785E+05 | 1.785E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.80 | 1.867E+05 | 1.867E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.88 | 1.937E+05 | 1.937E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 45.96 | 1.994E+05 | 1.994E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.01 | 2.000E+05 | 2.000E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.10 | 1.994E+05 | 1.994E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.14 | 1.984E+05 | 1.984E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.23 | 1.976E+05 | 1.976E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.27 | 1.965E+05 | 1.965E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.36 | 1.934E+05 | 1.934E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.41 | 1.915E+05 | 1.915E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.49 | 1.922E+05 | 1.922E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.54 | 1.921E+05 | 1.921E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.62 | 1.927E+05 | 1.927E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.67 | 1.940E+05 | 1.940E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.76 | 1.952E+05 | 1.952E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.81 | 1.964E+05 | 1.964E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.85 | 1.982E+05 | 1.982E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 46.92 | 2.010E+05 | 2.010E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.01 | 2.056E+05 | 2.056E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.07 | 2.120E+05 | 2.120E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.12 | 2.160E+05 | 2.160E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.20 | 2.143E+05 | 2.143E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.25 | 2.131E+05 | 2.131E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.34 | 2.163E+05 | 2.163E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.38 | 2.199E+05 | 2.199E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

TEST LOCATION: **CPT-4**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2

Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A (ft$^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38 | Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft$^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet | Accleration: 0.606 g's | Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | $\rho$ (lb-sec$^2$)/ft$^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47.48 | 123.13 | 3.1008 | 32.62 | 1.79 | 5.49% | 6.064 | 0.91 | 15.28 | 3.02 | 6.99 | 231 | 1.221 | 1.221 | 0.79 | 1.169 | 0.499 | 930.90 | 3.824 | 2.266E+05 | 2.266E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.51 | 122.97 | 3.1027 | 29.01 | 1.82 | 6.27% | 7.025 | 0.94 | 13.41 | 3.11 | 8.08 | 267 | 1.843 | 1.843 | 0.79 | 1.170 | 0.499 | 933.71 | 3.819 | 2.283E+05 | 2.283E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.58 | 123.50 | 3.1070 | 35.36 | 1.83 | 5.18% | 5.674 | 0.90 | 16.67 | 2.97 | 6.43 | 212 | 0.968 | 0.968 | 0.79 | 1.172 | 0.499 | 934.64 | 3.835 | 2.278E+05 | 2.278E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.66 | 123.30 | 3.1119 | 35.26 | 1.79 | 5.08% | 5.568 | 0.90 | 16.60 | 2.97 | 6.38 | 211 | 0.950 | 0.950 | 0.79 | 1.175 | 0.499 | 930.90 | 3.829 | 2.263E+05 | 2.263E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.71 | 123.08 | 3.1150 | 33.89 | 1.75 | 5.16% | 5.686 | 0.90 | 15.88 | 2.99 | 6.62 | 218 | 1.050 | 1.050 | 0.79 | 1.177 | 0.499 | 927.08 | 3.822 | 2.249E+05 | 2.249E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.80 | 122.77 | 3.1205 | 32.04 | 1.72 | 5.37% | 5.948 | 0.92 | 14.90 | 3.02 | 7.02 | 232 | 1.237 | 1.237 | 0.79 | 1.179 | 0.498 | 924.15 | 3.813 | 2.240E+05 | 2.240E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.84 | 122.77 | 3.1230 | 32.04 | 1.71 | 5.34% | 5.913 | 0.91 | 14.89 | 3.02 | 7.00 | 231 | 1.229 | 1.229 | 0.79 | 1.181 | 0.498 | 923.17 | 3.813 | 2.235E+05 | 2.235E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.93 | 122.82 | 3.1285 | 32.72 | 1.71 | 5.23% | 5.779 | 0.91 | 15.21 | 3.01 | 6.84 | 226 | 1.149 | 1.149 | 0.79 | 1.183 | 0.498 | 923.17 | 3.814 | 2.234E+05 | 2.234E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 47.98 | 122.83 | 3.1316 | 32.82 | 1.71 | 5.21% | 5.760 | 0.91 | 15.25 | 3.01 | 6.82 | 225 | 1.139 | 1.139 | 0.79 | 1.185 | 0.498 | 923.17 | 3.815 | 2.234E+05 | 2.234E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.06 | 123.17 | 3.1365 | 33.31 | 1.79 | 5.37% | 5.932 | 0.91 | 15.48 | 3.01 | 6.86 | 226 | 1.159 | 1.159 | 0.78 | 1.187 | 0.497 | 930.90 | 3.825 | 2.265E+05 | 2.265E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.11 | 123.28 | 3.1396 | 33.99 | 1.80 | 5.30% | 5.835 | 0.91 | 15.82 | 3.00 | 6.72 | 222 | 1.094 | 1.094 | 0.78 | 1.189 | 0.497 | 931.84 | 3.829 | 2.268E+05 | 2.268E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.18 | 123.33 | 3.1439 | 36.72 | 1.77 | 4.82% | 5.272 | 0.89 | 17.19 | 2.94 | 6.08 | 201 | 0.830 | 0.830 | 0.78 | 1.191 | 0.497 | 929.00 | 3.830 | 2.253E+05 | 2.253E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.24 | 123.49 | 3.1476 | 41.12 | 1.74 | 4.23% | 4.582 | 0.86 | 19.43 | 2.85 | 5.25 | 173 | 0.563 | 0.563 | 0.78 | 1.193 | 0.497 | 926.11 | 3.835 | 2.236E+05 | 2.236E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.33 | 123.70 | 3.1532 | 48.64 | 1.69 | 3.47% | 3.715 | 0.83 | 23.24 | 2.73 | 4.19 | 138 | 0.326 | 0.326 | 0.78 | 1.196 | 0.497 | 921.18 | 3.842 | 2.209E+05 | 2.209E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.37 | 123.79 | 3.1557 | 53.43 | 1.66 | 3.11% | 3.302 | 0.80 | 25.67 | 2.66 | 3.68 | 122 | 0.247 | 0.247 | 0.78 | 1.197 | 0.496 | 918.15 | 3.844 | 2.193E+05 | 2.193E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.83 | 0.00 | | |
| 48.44 | 123.62 | 3.1600 | 57.53 | 1.59 | 2.76% | 2.924 | 0.79 | 27.73 | 2.59 | 3.27 | 108 | 0.197 | 0.233 | 0.78 | 1.199 | 0.496 | 910.86 | 3.839 | 2.161E+05 | 2.161E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | | 0.47 | 0.65 | <= | 2.17 | 0.018 | 0.00 | 1.83 | 0.00 | 48.37 | 48.44 |
| 48.51 | 123.32 | 3.1643 | 59.68 | 1.50 | 2.51% | 2.654 | 0.77 | 28.79 | 2.55 | 3.03 | 101 | 0.175 | 0.202 | 0.78 | 1.202 | 0.496 | 901.00 | 3.830 | 2.120E+05 | 2.120E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | | 0.41 | 0.57 | <= | 2.29 | 0.019 | 0.00 | 1.81 | 0.00 | 48.44 | 48.51 |
| 48.56 | 123.19 | 3.1674 | 61.34 | 1.46 | 2.38% | 2.510 | 0.76 | 29.61 | 2.52 | 2.88 | 99 | 0.171 | 0.197 | 0.78 | 1.203 | 0.496 | 896.43 | 3.826 | 2.100E+05 | 2.100E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | | 0.40 | 0.55 | <= | 2.32 | 0.013 | 0.00 | 1.79 | 0.00 | 48.51 | 48.56 |
| 48.65 | 122.82 | 3.1729 | 63.29 | 1.38 | 2.18% | 2.296 | 0.75 | 30.56 | 2.48 | 2.69 | 96 | 0.163 | 0.188 | 0.78 | 1.206 | 0.496 | 886.90 | 3.814 | 2.062E+05 | 2.062E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | | 0.38 | 0.53 | <= | 2.38 | 0.025 | 0.00 | 1.78 | 0.00 | 48.56 | 48.65 |
| 48.73 | 122.65 | 3.1778 | 64.95 | 1.34 | 2.06% | 2.169 | 0.75 | 31.37 | 2.46 | 2.57 | 95 | 0.159 | 0.180 | 0.78 | 1.208 | 0.495 | 881.92 | 3.809 | 2.042E+05 | 2.042E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | | 0.37 | 0.51 | <= | 2.41 | 0.022 | 0.00 | 1.76 | 0.00 | 48.65 | 48.73 |
| 48.78 | 122.61 | 3.1809 | 66.71 | 1.32 | 1.98% | 2.078 | 0.74 | 32.23 | 2.44 | 2.46 | 94 | 0.157 | 0.178 | 0.78 | 1.210 | 0.495 | 879.38 | 3.808 | 2.031E+05 | 2.031E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | | 0.36 | 0.50 | <= | 2.43 | 0.014 | 0.00 | 1.73 | 0.00 | 48.73 | 48.78 |
| 48.83 | 122.50 | 3.1839 | 66.90 | 1.30 | 1.94% | 2.040 | 0.74 | 32.30 | 2.43 | 2.44 | 93 | 0.155 | 0.176 | 0.78 | 1.211 | 0.495 | 876.80 | 3.804 | 2.021E+05 | 2.021E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | | 0.36 | 0.49 | <= | 2.44 | 0.014 | 0.00 | 1.72 | 0.00 | 48.78 | 48.83 |
| 48.91 | 122.56 | 3.1888 | 68.27 | 1.30 | 1.90% | 1.998 | 0.73 | 32.95 | 2.42 | 2.38 | 93 | 0.155 | 0.176 | 0.78 | 1.214 | 0.495 | 876.80 | 3.806 | 2.020E+05 | 2.020E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | | 0.36 | 0.49 | <= | 2.44 | 0.023 | 0.00 | 1.71 | 0.00 | 48.83 | 48.91 |
| 48.95 | 122.47 | 3.1913 | 67.78 | 1.28 | 1.89% | 1.982 | 0.73 | 32.69 | 2.42 | 2.38 | 92 | 0.153 | 0.174 | 0.78 | 1.215 | 0.495 | 874.17 | 3.803 | 2.009E+05 | 2.009E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | | 0.36 | 0.49 | <= | 2.46 | 0.011 | 0.00 | 1.68 | 0.00 | 48.91 | 48.95 |
| 49.02 | 122.14 | 3.1956 | 67.39 | 1.23 | 1.83% | 1.916 | 0.73 | 32.45 | 2.41 | 2.35 | 91 | 0.149 | 0.170 | 0.78 | 1.217 | 0.494 | 867.43 | 3.793 | 1.984E+05 | 1.984E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | | 0.35 | 0.48 | <= | 2.50 | 0.020 | 0.00 | 1.67 | 0.00 | 48.95 | 49.02 |
| 49.09 | 121.93 | 3.1998 | 66.71 | 1.20 | 1.80% | 1.889 | 0.73 | 32.07 | 2.41 | 2.35 | 90 | 0.147 | 0.170 | 0.78 | 1.220 | 0.494 | 863.26 | 3.787 | 1.968E+05 | 1.968E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | | 0.35 | 0.48 | <= | 2.52 | 0.020 | 0.00 | 1.65 | 0.00 | 49.02 | 49.09 |
| 49.18 | 122.26 | 3.2053 | 67.29 | 1.25 | 1.86% | 1.951 | 0.73 | 32.32 | 2.42 | 2.38 | 91 | 0.151 | 0.171 | 0.78 | 1.222 | 0.494 | 870.16 | 3.797 | 1.994E+05 | 1.994E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | | 0.35 | 0.48 | <= | 2.48 | 0.026 | 0.00 | 1.63 | 0.00 | 49.09 | 49.18 |
| 49.23 | 122.09 | 3.2084 | 65.54 | 1.23 | 1.88% | 1.973 | 0.74 | 31.41 | 2.43 | 2.44 | 91 | 0.149 | 0.173 | 0.78 | 1.224 | 0.494 | 867.43 | 3.792 | 1.984E+05 | 1.984E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | | 0.35 | 0.49 | <= | 2.50 | 0.014 | 0.00 | 1.60 | 0.00 | 49.18 | 49.23 |
| 49.28 | 122.29 | 3.2114 | 64.66 | 1.27 | 1.96% | 2.067 | 0.74 | 30.94 | 2.45 | 2.52 | 92 | 0.153 | 0.177 | 0.77 | 1.226 | 0.494 | 872.85 | 3.798 | 2.006E+05 | 2.006E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | | 0.36 | 0.50 | <= | 2.46 | 0.014 | 0.00 | 1.59 | 0.00 | 49.23 | 49.28 |
| 49.35 | 122.27 | 3.2157 | 63.39 | 1.28 | 2.02% | 2.127 | 0.75 | 30.27 | 2.46 | 2.60 | 93 | 0.154 | 0.178 | 0.77 | 1.228 | 0.493 | 874.17 | 3.797 | 2.012E+05 | 2.012E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | | 0.37 | 0.50 | <= | 2.46 | 0.020 | 0.00 | 1.58 | 0.00 | 49.28 | 49.35 |
| 49.42 | 122.00 | 3.2200 | 62.22 | 1.24 | 1.99% | 2.102 | 0.75 | 29.65 | 2.47 | 2.61 | 91 | 0.151 | 0.175 | 0.77 | 1.230 | 0.493 | 868.80 | 3.789 | 1.992E+05 | 1.992E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | | 0.36 | 0.49 | <= | 2.48 | 0.020 | 0.00 | 1.56 | 0.00 | 49.35 | 49.42 |
| 49.49 | 121.95 | 3.2243 | 61.73 | 1.23 | 1.99% | 2.102 | 0.75 | 29.37 | 2.47 | 2.63 | 91 | 0.150 | 0.174 | 0.77 | 1.232 | 0.493 | 867.43 | 3.787 | 1.987E+05 | 1.987E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | | 0.36 | 0.49 | <= | 2.49 | 0.020 | 0.00 | 1.54 | 0.00 | 49.42 | 49.49 |
| 49.58 | 122.03 | 3.2298 | 60.26 | 1.26 | 2.09% | 2.209 | 0.76 | 28.59 | 2.50 | 2.75 | 92 | 0.153 | 0.180 | 0.77 | 1.235 | 0.493 | 871.51 | 3.790 | 2.004E+05 | 2.004E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | | 0.37 | 0.51 | <= | 2.47 | 0.026 | 0.00 | 1.52 | 0.00 | 49.49 | 49.58 |
| 49.63 | 121.01 | 3.2328 | 58.50 | 1.11 | 1.90% | 2.008 | 0.75 | 27.68 | 2.48 | 2.67 | 88 | 0.144 | 0.173 | 0.77 | 1.236 | 0.492 | 850.07 | 3.758 | 1.923E+05 | 1.923E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | | 0.35 | 0.49 | <= | 2.55 | 0.015 | 0.00 | 1.49 | 0.00 | 49.58 | 49.63 |
| 49.69 | 120.02 | 3.2364 | 56.06 | 0.98 | 1.75% | 1.855 | 0.75 | 26.44 | 2.47 | 2.64 | 87 | 0.142 | 0.173 | 0.77 | 1.238 | 0.492 | 829.00 | 3.727 | 1.844E+05 | 1.844E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | | 0.36 | 0.49 | <= | 2.58 | 0.019 | 0.00 | 1.47 | 0.00 | 49.63 | 49.69 |
| 49.76 | 120.36 | 3.2406 | 53.72 | 1.04 | 1.94% | 2.060 | 0.76 | 25.24 | 2.52 | 2.88 | 95 | 0.160 | 0.195 | 0.77 | 1.241 | 0.492 | 839.05 | 3.738 | 1.883E+05 | 1.883E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | | 0.40 | 0.55 | <= | 2.40 | 0.020 | 0.00 | 1.46 | 0.00 | 49.69 | 49.76 |
| 49.81 | 120.50 | 3.2436 | 51.47 | 1.08 | 2.10% | 2.239 | 0.78 | 24.09 | 2.56 | 3.10 | 102 | 0.180 | 0.220 | 0.77 | 1.242 | 0.492 | 845.43 | 3.742 | 1.910E+05 | 1.910E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | | 0.45 | 0.62 | <= | 2.26 | 0.014 | 0.00 | 1.44 | 0.00 | 49.76 | 49.81 |
| 49.88 | 120.75 | 3.2478 | 49.62 | 1.13 | 2.28% | 2.437 | 0.79 | 23.14 | 2.60 | 3.33 | 110 | 0.204 | 0.253 | 0.77 | 1.244 | 0.492 | 853.09 | 3.750 | 1.941E+05 | 1.941E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.42 | 0.00 | | |
| 49.94 | 121.10 | 3.2515 | 47.76 | 1.20 | 2.51% | 2.696 | 0.80 | 22.20 | 2.65 | 3.62 | 119 | 0.238 | 0.238 | 0.77 | 1.246 | 0.491 | 863.26 | 3.761 | 1.981E+05 | 1.981E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.42 | 0.00 | | |
| 50.02 | 121.91 | 3.2563 | 45.90 | 1.35 | 2.94% | 3.166 | 0.82 | 21.24 | 2.71 | 4.06 | 134 | 0.303 | 0.303 | 0.77 | 1.249 | 0.491 | 883.18 | 3.786 | 2.060E+05 | 2.060E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.42 | 0.00 | | |
| 50.07 | 122.22 | 3.2594 | 43.66 | 1.44 | 3.30% | 3.564 | 0.84 | 20.11 | 2.76 | 4.48 | 148 | 0.380 | 0.380 | 0.77 | 1.250 | 0.491 | 894.10 | 3.796 | 2.106E+05 | 2.106E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.42 | 0.00 | | |
| 50.14 | 122.54 | 3.2637 | 39.65 | 1.55 | 3.91% | 4.260 | 0.86 | 18.09 | 2.85 | 5.26 | 174 | 0.567 | 0.567 | 0.77 | 1.252 | 0.491 | 906.55 | 3.806 | 2.160E+05 | 2.160E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.42 | 0.00 | | |
| 50.20 | 122.88 | 3.2674 | 37.02 | 1.66 | 4.48% | 4.918 | 0.89 | 16.77 | 2.92 | 5.94 | 196 | 0.780 | 0.780 | 0.77 | 1.254 | 0.491 | 918.15 | 3.816 | 2.209E+05 | 2.209E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.42 | 0.00 | | |
| 50.28 | 123.45 | 3.2723 | 35.55 | 1.82 | 5.12% | 5.639 | 0.90 | 16.01 | 2.98 | 6.55 | 216 | 1.017 | 1.017 | 0.77 | 1.257 | 0.490 | 933.71 | 3.834 | 2.274E+05 | 2.274E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.42 | 0.00 | | |
| 50.34 | 123.94 | 3.2760 | 38.09 | 1.90 | 4.99% | 5.458 | 0.89 | 17.26 | 2.95 | 6.16 | 203 | 0.862 | 0.862 | 0.77 | 1.259 | 0.490 | 940.99 | 3.849 | 2.300E+05 | 2.300E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.42 | 0.00 | | |
| 50.40 | 124.72 | 3.2798 | 47.86 | 1.96 | 4.10% | 4.397 | 0.85 | 22.08 | 2.79 | 4.73 | 156 | 0.434 | 0.434 | 0.77 | 1.260 | 0.490 | 946.25 | 3.873 | 2.312E+05 | 2.312E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.42 | 0.00 | | |
| 50.46 | 125.23 | 3.2835 | 55.67 | 2.00 | 3.59% | 3.818 | 0.82 | 25.92 | 2.69 | 3.96 | 131 | 0.287 | 0.287 | 0.77 | 1.262 | 0.490 | 949.67 | 3.889 | 2.319E+05 | 2.319E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.42 | 0.00 | | |
| 50.55 | 125.25 | 3.2892 | 65.54 | 1.90 | 2.90% | 3.052 | 0.78 | 30.76 | 2.57 | 3.12 | 111 | 0.209 | 0.228 | 0.76 | 1.265 | 0.489 | 940.99 | 3.890 | 2.276E+05 | 2.276E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | | 0.47 | 0.65 | <= | 2.11 | 0.022 | 0.00 | 1.42 | 0.00 | 50.46 | 50.55 |
| 50.61 | 125.02 | 3.2929 | 70.52 | 1.80 | 2.55% | 2.677 | 0.76 | 33.18 | 2.50 | 2.76 | 108 | 0.196 | 0.215 | 0.76 | 1.267 | 0.489 | 931.84 | 3.883 | 2.236E+05 | 2.236E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | | 0.44 | 0.61 | <= | 2.17 | 0.015 | 0.00 | 1.40 | 0.00 | 50.55 | 50.61 |
| 50.67 | 125.09 | 3.2967 | 78.72 | 1.75 | 2.22% | 2.320 | 0.73 | 37.20 | 2.42 | 2.38 | 106 | 0.190 | 0.197 | 0.76 | 1.269 | 0.489 | 927.08 | 3.885 | 2.212E+05 | 2.212E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | | 0.41 | 0.56 | <= | 2.21 | 0.015 | 0.00 | 1.39 | 0.00 | 50.61 | 50.67 |
| 50.74 | 124.73 | 3.3010 | 83.80 | 1.63 | 1.95% | 2.025 | 0.71 | 39.66 | 2.35 | 2.12 | 102 | 0.179 | 0.181 | 0.76 | 1.271 | 0.489 | 915.06 | 3.874 | 2.162E+05 | 2.162E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | | 0.37 | 0.51 | <= | 2.27 | 0.018 | 0.00 | 1.37 | 0.00 | 50.67 | 50.74 |
| 50.81 | 123.86 | 3.3054 | 90.64 | 1.41 | 1.56% | 1.614 | 0.68 | 42.98 | 2.25 | 1.81 | 96 | 0.163 | 0.310 | 0.76 | 1.273 | 0.489 | 890.54 | 3.847 | 2.062E+05 | 2.062E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | | 0.64 | 0.88 | <= | 2.38 | 0.019 | 0.00 | 1.35 | 0.00 | 50.74 | 50.81 |
| 50.87 | 123.98 | 3.3091 | 93.37 | 1.42 | 1.52% | 1.577 | 0.68 | 44.28 | 2.24 | 1.76 | 97 | 0.164 | 0.300 | 0.76 | 1.275 | 0.488 | 891.73 | 3.850 | 2.065E+05 | 2.065E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | | 0.62 | 0.86 | <= | 2.37 | 0.016 | 0.00 | 1.33 | 0.00 | 50.81 | 50.87 |
| 50.96 | 123.65 | 3.3147 | 95.13 | 1.35 | 1.42% | 1.470 | 0.67 | 45.08 | 2.21 | 1.69 | 95 | 0.160 | 0.293 | 0.76 | 1.278 | 0.488 | 883.18 | 3.840 | 2.031E+05 | 2.031E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | | 0.61 | 0.83 | <= | 1.91 | 0.021 | 0.00 | 1.32 | 0.00 | 50.87 | 50.96 |
| 51.00 | 123.94 | 3.3171 | 94.54 | 1.41 | 1.49% | 1.546 | 0.68 | 44.76 | 2.23 | 1.74 | 97 | 0.164 | 0.300 | 0.76 | 1.279 | 0.488 | 890.54 | 3.849 | 2.060E+05 | 2.060E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | | 0.62 | 0.85 | <= | 2.03 | 0.010 | 0.00 | 1.29 | 0.00 | 50.96 | 51.00 |
| 51.09 | 124.60 | 3.3227 | 91.22 | 1.56 | 1.71% | 1.775 | 0.69 | 43.07 | 2.28 | 1.89 | 100 | 0.174 | 0.171 | 0.76 | 1.282 | 0.488 | 907.64 | 3.870 | 2.129E+05 | 2.129E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.35 | 0.49 | <= | 2.30 | 0.024 | 0.00 | 1.29 | 0.00 | 51.00 | 51.09 |
| 51.14 | 124.89 | 3.3259 | 87.22 | 1.65 | 1.89% | 1.967 | 0.71 | 41.08 | 2.33 | 2.05 | 102 | 0.180 | 0.182 | 0.76 | 1.284 | 0.487 | 917.13 | 3.879 | 2.169E+05 | 2.169E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.38 | 0.52 | <= | 2.26 | 0.013 | 0.00 | 1.26 | 0.00 | 51.09 | 51.14 |
| 51.19 | 125.16 | 3.3290 | 84.00 | 1.73 | 2.06% | 2.145 | 0.72 | 39.47 | 2.37 | 2.19 | 105 | 0.187 | 0.189 | 0.76 | 1.285 | 0.487 | 925.13 | 3.887 | 2.202E+05 | 2.202E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.39 | 0.54 | <= | 2.22 | 0.013 | 0.00 | 1.25 | 0.00 | 51.14 | 51.19 |
| 51.27 | 124.62 | 3.3340 | 73.35 | 1.68 | 2.29% | 2.399 | 0.74 | 34.22 | 2.45 | 2.55 | 104 | 0.183 | 0.196 | 0.76 | 1.288 | 0.487 | 920.17 | 3.870 | 2.188E+05 | 2.188E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.41 | 0.56 | <= | 2.24 | 0.021 | 0.00 | 1.24 | 0.00 | 51.19 | 51.27 |
| 51.32 | 124.23 | 3.3371 | 66.51 | 1.64 | 2.47% | 2.596 | 0.76 | 30.85 | 2.51 | 2.84 | 103 | 0.182 | 0.204 | 0.76 | 1.289 | 0.487 | 916.10 | 3.858 | 2.175E+05 | 2.175E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.42 | 0.58 | <= | 2.25 | 0.013 | 0.00 | 1.21 | 0.00 | 51.27 | 51.32 |
| 51.39 | 124.06 | 3.3414 | 57.33 | 1.69 | 2.95% | 3.130 | 0.80 | 26.34 | 2.63 | 3.50 | 115 | 0.223 | 0.223 | 0.76 | 1.291 | 0.486 | 921.18 | 3.853 | 2.202E+05 | 2.202E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.20 | 0.00 | | |
| 51.45 | 124.21 | 3.3451 | 49.81 | 1.81 | 3.63% | 3.895 | 0.83 | 22.64 | 2.75 | 4.35 | 144 | 0.355 | 0.355 | 0.76 | 1.293 | 0.486 | 932.78 | 3.857 | 2.256E+05 | 2.256E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.20 | 0.00 | | |
| 51.54 | 123.35 | 3.3507 | 41.41 | 1.71 | 4.13% | 4.493 | 0.87 | 18.52 | 2.86 | 5.32 | 176 | 0.584 | 0.584 | 0.76 | 1.296 | 0.486 | 923.17 | 3.831 | 2.225E+05 | 2.225E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.20 | 0.00 | | |
| 51.59 | 122.77 | 3.3538 | 36.63 | 1.64 | 4.48% | 4.928 | 0.89 | 16.18 | 2.94 | 6.06 | 200 | 0.825 | 0.825 | 0.76 | 1.298 | 0.486 | 916.10 | 3.813 | 2.201E+05 | 2.201E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.20 | 0.00 | | |
| 51.65 | 122.32 | 3.3574 | 33.99 | 1.58 | 4.65% | 5.158 | 0.90 | 14.88 | 2.98 | 6.52 | 215 | 1.007 | 1.007 | 0.76 | 1.299 | 0.486 | 909.79 | 3.799 | 2.179E+05 | 2.179E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.20 | 0.00 | | |
| 51.72 | 122.85 | 3.3617 | 45.81 | 1.54 | 3.36% | 3.628 | 0.84 | 20.61 | 2.76 | 4.44 | 147 | 0.372 | 0.372 | 0.76 | 1.302 | 0.485 | 905.45 | 3.815 | 2.149E+05 | 2.149E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.20 | 0.00 | | |
| 51.81 | 125.18 | 3.3674 | 82.14 | 1.74 | 2.12% | 2.209 | 0.72 | 38.19 | 2.39 | 2.27 | 105 | 0.187 | 0.190 | 0.75 | 1.304 | 0.485 | 926.11 | 3.888 | 2.206E+05 | 2.206E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.40 | 0.54 | <= | 2.22 | 0.023 | 0.00 | 1.20 | 0.00 | 51.72 | 51.81 |
| 51.85 | 125.92 | 3.3699 | 93.57 | 1.85 | 1.98% | 2.051 | 0.70 | 43.70 | 2.32 | 2.01 | 108 | 0.196 | 0.181 | 0.75 | 1.306 | 0.485 | 936.48 | 3.911 | 2.243E+05 | 2.243E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.38 | 0.52 | <= | 2.17 | 0.010 | 0.00 | 1.18 | 0.00 | 51.81 | 51.85 |
| 51.93 | 126.34 | 3.3749 | 86.14 | 2.01 | 2.33% | 2.429 | 0.73 | 40.05 | 2.40 | 2.32 | 112 | 0.210 | 0.201 | 0.75 | 1.308 | 0.485 | 950.51 | 3.924 | 2.303E+05 | 2.303E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.42 | 0.58 | <= | 2.11 | 0.020 | 0.00 | 1.17 | 0.00 | 51.85 | 51.93 |
| 51.99 | 126.24 | 3.3787 | 73.55 | 2.09 | 2.84% | 2.978 | 0.76 | 33.92 | 2.52 | 2.89 | 115 | 0.222 | 0.232 | 0.75 | 1.310 | 0.484 | 957.11 | 3.920 | 2.337E+05 | 2.337E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.48 | 0.67 | <= | 2.06 | 0.014 | 0.00 | 1.15 | 0.00 | 51.93 | 51.99 |
| 52.08 | 124.89 | 3.3844 | 61.34 | 1.85 | 3.02% | 3.192 | 0.79 | 27.98 | 2.61 | 3.39 | 112 | 0.211 | 0.211 | 0.75 | 1.313 | 0.484 | 936.48 | 3.879 | 2.261E+05 | 2.261E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.13 | 0.00 | | |
| 52.12 | 123.72 | 3.3868 | 55.09 | 1.63 | 2.96% | 3.153 | 0.80 | 24.95 | 2.65 | 3.63 | 120 | 0.240 | 0.240 | 0.75 | 1.314 | 0.484 | 915.06 | 3.842 | 2.179E+05 | 2.179E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.13 | 0.00 | | |
| 52.17 | 122.49 | 3.3899 | 46.59 | 1.46 | 3.13% | 3.380 | 0.83 | 20.83 | 2.73 | 4.24 | 140 | 0.335 | 0.335 | 0.75 | 1.316 | 0.484 | 896.43 | 3.804 | 2.112E+05 | 2.112E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.13 | 0.00 | | |
| 52.25 | 123.22 | 3.3948 | 42.00 | 1.67 | 3.98% | 4.326 | 0.86 | 18.59 | 2.85 | 5.20 | 172 | 0.550 | 0.550 | 0.75 | 1.318 | 0.483 | 919.16 | 3.827 | 2.208E+05 | 2.208E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.13 | 0.00 | | |
| 52.30 | 123.24 | 3.3979 | 38.09 | 1.73 | 4.54% | 4.987 | 0.89 | 16.69 | 2.93 | 5.98 | 197 | 0.796 | 0.796 | 0.75 | 1.320 | 0.483 | 925.13 | 3.827 | 2.236E+05 | 2.236E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.13 | 0.00 | | |
| 52.37 | 123.56 | 3.4022 | 42.39 | 1.74 | 4.10% | 4.463 | 0.86 | 18.74 | 2.85 | 5.26 | 174 | 0.567 | 0.567 | 0.75 | 1.322 | 0.483 | 926.11 | 3.837 | 2.235E+05 | 2.235E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.13 | 0.00 | | |
| 52.44 | 124.32 | 3.4066 | 53.98 | 1.78 | 3.30% | 3.520 | 0.82 | 24.29 | 2.69 | 3.92 | 130 | 0.282 | 0.282 | 0.75 | 1.324 | 0.483 | 929.95 | 3.861 | 2.240E+05 | 2.240E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.13 | 0.00 | | |
| 52.52 | 123.81 | 3.4115 | 42.78 | 1.80 | 4.21% | 4.572 | 0.87 | 18.88 | 2.86 | 5.30 | 175 | 0.579 | 0.579 | 0.75 | 1.327 | 0.482 | 931.84 | 3.845 | 2.258E+05 | 2.258E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.13 | 0.00 | | |
| 52.57 | 124.18 | 3.4146 | 51.96 | 1.77 | 3.41% | 3.646 | 0.82 | 23.27 | 2.72 | 4.11 | 136 | 0.313 | 0.313 | 0.75 | 1.328 | 0.482 | 929.00 | 3.857 | 2.238E+05 | 2.238E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.13 | 0.00 | | |
| 52.64 | 124.20 | 3.4190 | 65.24 | 1.65 | 2.53% | 2.669 | 0.77 | 29.60 | 2.54 | 2.96 | 103 | 0.181 | 0.204 | 0.75 | 1.330 | 0.482 | 917.13 | 3.857 | 2.181E+05 | 2.181E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.43 | 0.59 | <= | 2.26 | 0.018 | 0.00 | 1.13 | 0.00 | 52.57 | 52.64 |
| 52.71 | 124.08 | 3.4233 | 79.99 | 1.51 | 1.89% | 1.972 | 0.72 | 36.62 | 2.37 | 2.19 | 98 | 0.166 | 0.175 | 0.75 | 1.333 | 0.482 | 902.13 | 3.853 | 2.112E+05 | 2.112E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.37 | 0.51 | <= | 2.35 | 0.019 | 0.00 | 1.12 | 0.00 | 52.64 | 52.71 |
| 52.76 | 124.17 | 3.4264 | 90.15 | 1.47 | 1.63% | 1.695 | 0.69 | 41.45 | 2.28 | 1.88 | 97 | 0.164 | 0.164 | 0.75 | 1.334 | 0.482 | 897.59 | 3.856 | 2.089E+05 | 2.089E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.34 | 0.47 | <= | 2.37 | 0.014 | 0.00 | 1.10 | 0.00 | 52.71 | 52.76 |
| 52.84 | 124.29 | 3.4314 | 94.64 | 1.47 | 1.55% | 1.612 | 0.68 | 43.54 | 2.25 | 1.79 | 97 | 0.166 | 0.296 | 0.75 | 1.337 | 0.481 | 897.59 | 3.860 | 2.087E+05 | 2.087E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.62 | 0.85 | <= | 2.36 | 0.022 | 0.00 | 1.08 | 0.00 | 52.76 | 52.84 |
| 52.93 | 124.23 | 3.4370 | 91.71 | 1.48 | 1.61% | 1.677 | 0.69 | 42.08 | 2.27 | 1.86 | 97 | 0.165 | 0.165 | 0.75 | 1.339 | 0.481 | 898.73 | 3.858 | 2.094E+05 | 2.094E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.35 | 0.48 | <= | 2.36 | 0.025 | 0.00 | 1.06 | 0.00 | 52.84 | 52.93 |
| 52.98 | 124.50 | 3.4401 | 88.59 | 1.55 | 1.75% | 1.820 | 0.70 | 40.56 | 2.31 | 1.97 | 99 | 0.170 | 0.169 | 0.74 | 1.341 | 0.481 | 906.55 | 3.866 | 2.126E+05 | 2.126E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.36 | 0.49 | <= | 2.33 | 0.013 | 0.00 | 1.04 | 0.00 | 52.93 | 52.98 |
| 53.02 | 124.87 | 3.4426 | 91.42 | 1.61 | 1.76% | 1.830 | 0.70 | 41.89 | 2.30 | 1.94 | 101 | 0.175 | 0.169 | 0.74 | 1.342 | 0.481 | 912.97 | 3.878 | 2.149E+05 | 2.149E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.35 | 0.49 | <= | 2.30 | 0.011 | 0.00 | 1.02 | 0.00 | 52.98 | 53.02 |
| 53.09 | 125.06 | 3.4470 | 85.56 | 1.69 | 1.98% | 2.058 | 0.72 | 39.05 | 2.36 | 2.15 | 103 | 0.180 | 0.180 | 0.74 | 1.344 | 0.480 | 921.18 | 3.884 | 2.185E+05 | 2.185E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.38 | 0.52 | <= | 2.26 | 0.018 | 0.00 | 1.01 | 0.00 | 53.02 | 53.09 |
| 53.15 | 125.68 | 3.4507 | 91.13 | 1.81 | 1.99% | 2.064 | 0.71 | 41.66 | 2.34 | 2.07 | 106 | 0.190 | 0.184 | 0.74 | 1.346 | 0.480 | 932.78 | 3.903 | 2.229E+05 | 2.229E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.39 | 0.53 | <= | 2.20 | 0.015 | 0.00 | 0.99 | 0.00 | 53.09 | 53.15 |
| 53.25 | 126.71 | 3.4571 | 104.02 | 1.99 | 1.91% | 1.979 | 0.69 | 47.71 | 2.28 | 1.87 | 111 | 0.208 | 0.179 | 0.74 | 1.349 | 0.480 | 948.82 | 3.935 | 2.288E+05 | 2.288E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.38 | 0.52 | <= | 2.12 | 0.024 | 0.00 | 0.98 | 0.00 | 53.15 | 53.25 |
| 53.29 | 127.13 | 3.4596 | 107.73 | 2.08 | 1.93% | 1.995 | 0.69 | 49.44 | 2.27 | 1.84 | 114 | 0.216 | 0.322 | 0.74 | 1.351 | 0.480 | 956.30 | 3.948 | 2.316E+05 | 2.316E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.68 | 0.93 | <= | 0.95 | 0.005 | 0.00 | 0.95 | 0.00 | 53.25 | 53.29 |
| 53.36 | 127.55 | 3.4641 | 112.61 | 2.17 | 1.93% | 1.988 | 0.68 | 51.70 | 2.25 | 1.80 | 116 | 0.226 | 0.301 | 0.74 | 1.353 | 0.479 | 963.47 | 3.961 | 2.343E+05 | 2.343E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.63 | 0.87 | <= | 1.83 | 0.015 | 0.00 | 0.95 | 0.00 | 53.29 | 53.36 |
| 53.42 | 127.85 | 3.4679 | 115.74 | 2.24 | 1.94% | 1.995 | 0.68 | 53.13 | 2.24 | 1.77 | 118 | 0.233 | 0.311 | 0.74 | 1.355 | 0.479 | 968.84 | 3.970 | 2.364E+05 | 2.364E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.66 | 0.90 | <= | 0.77 | 0.006 | 0.00 | 0.93 | 0.00 | 53.36 | 53.42 |
| 53.48 | 128.22 | 3.4718 | 119.94 | 2.33 | 1.94% | 2.001 | 0.68 | 55.06 | 2.23 | 1.74 | 121 | 0.243 | 0.305 | 0.74 | 1.357 | 0.479 | 975.50 | 3.982 | 2.390E+05 | 2.390E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.64 | 0.88 | <= | 1.86 | 0.013 | 0.00 | 0.93 | 0.00 | 53.42 | 53.48 |
| 53.56 | 128.45 | 3.4769 | 118.08 | 2.42 | 2.05% | 2.112 | 0.68 | 54.11 | 2.25 | 1.80 | 122 | 0.250 | 0.314 | 0.74 | 1.359 | 0.479 | 981.91 | 3.989 | 2.417E+05 | 2.417E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.66 | 0.91 | <= | 0.78 | 0.007 | 0.00 | 0.92 | 0.00 | 53.48 | 53.56 |
| 53.64 | 129.27 | 3.4821 | 113.39 | 2.74 | 2.42% | 2.493 | 0.70 | 51.83 | 2.32 | 2.01 | 129 | 0.279 | 0.180 | 0.74 | 1.362 | 0.478 | 1002.92 | 4.015 | 2.505E+05 | 2.505E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.38 | 0.52 | <= | 1.88 | 0.013 | 0.00 | 0.91 | 0.00 | 53.56 | 53.64 |
| 53.69 | 129.89 | 3.4853 | 116.91 | 2.95 | 2.52% | 2.601 | 0.71 | 53.45 | 2.32 | 2.03 | 134 | 0.302 | 0.179 | 0.74 | 1.363 | 0.478 | 1015.41 | 4.034 | 2.556E+05 | 2.556E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.38 | 0.52 | <= | 1.83 | 0.004 | 0.00 | 0.90 | 0.00 | 53.64 | 53.69 |
| 53.78 | 130.93 | 3.4912 | 137.62 | 3.22 | 2.34% | 2.401 | 0.68 | 63.11 | 2.24 | 1.78 | 141 | 0.340 | 0.340 | 0.74 | 1.366 | 0.478 | 1030.23 | 4.066 | 2.610E+05 | 2.610E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.72 | 0.99 | <= | 0.90 | 0.005 | 0.00 | 0.89 | 0.00 | 53.69 | 53.78 |
| 53.82 | 131.36 | 3.4938 | 154.22 | 3.29 | 2.13% | 2.183 | 0.66 | 70.87 | 2.17 | 1.60 | 145 | 0.363 | 0.363 | 0.74 | 1.367 | 0.478 | 1033.87 | 4.080 | 2.620E+05 | 2.620E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.77 | 1.06 | <= | 0.54 | 0.002 | 0.00 | 0.89 | 0.00 | 53.78 | 53.82 |
| 53.91 | 131.94 | 3.4998 | 173.36 | 3.43 | 1.98% | 2.019 | 0.64 | 79.75 | 2.11 | 1.47 | 152 | 0.405 | 0.405 | 0.74 | 1.370 | 0.477 | 1040.92 | 4.098 | 2.644E+05 | 2.644E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.86 | 1.18 | <= | 0.40 | 0.003 | 0.00 | 0.88 | 0.00 | 53.82 | 53.91 |
| 53.95 | 132.02 | 3.5024 | 177.56 | 3.44 | 1.94% | 1.976 | 0.64 | 81.67 | 2.09 | 1.44 | 153 | 0.414 | 0.414 | 0.74 | 1.371 | 0.477 | 1041.41 | 4.100 | 2.645E+05 | 2.645E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.88 | 1.21 | <= | 0.22 | 0.001 | 0.00 | 0.88 | 0.00 | 53.91 | 53.95 |
| 54.04 | 131.95 | 3.5084 | 185.28 | 3.36 | 1.81% | 1.848 | 0.63 | 85.17 | 2.06 | 1.38 | 154 | 0.421 | 0.421 | 0.74 | 1.374 | 0.477 | 1037.43 | 4.098 | 2.626E+05 | 2.626E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.89 | 1.23 | <= | 0.23 | 0.000 | 0.00 | 0.88 | 0.00 | 53.95 | 54.04 |
| 54.09 | 131.64 | 3.5116 | 188.60 | 3.20 | 1.70% | 1.729 | 0.62 | 86.65 | 2.03 | 1.34 | 153 | 0.414 | 0.414 | 0.74 | 1.376 | 0.477 | 1029.17 | 4.088 | 2.591E+05 | 2.591E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.88 | 1.21 | <= | 0.22 | 0.000 | 0.00 | 0.88 | 0.00 | 54.04 | 54.09 |
| 54.14 | 131.23 | 3.5149 | 190.16 | 3.02 | 1.59% | 1.618 | 0.61 | 87.31 | 2.01 | 1.31 | 151 | 0.401 | 0.401 | 0.74 | 1.377 | 0.476 | 1019.38 | 4.075 | 2.550E+05 | 2.550E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.85 | 1.17 | <= | 0.39 | 0.002 | 0.00 | 0.88 | 0.00 | 54.09 | 54.14 |
| 54.22 | 130.16 | 3.5201 | 190.26 | 2.60 | 1.37% | 1.392 | 0.59 | 87.24 | 1.96 | 1.25 | 146 | 0.368 | 0.368 | 0.73 | 1.380 | 0.476 | 994.05 | 4.042 | 2.445E+05 | 2.445E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.78 | 1.07 | <= | 0.57 | 0.004 | 0.00 | 0.88 | 0.00 | 54.14 | 54.22 |
| 54.27 | 129.10 | 3.5234 | 191.82 | 2.25 | 1.17% | 1.195 | 0.58 | 87.90 | 1.90 | 1.19 | 142 | 0.347 | 0.347 | 0.73 | 1.381 | 0.476 | 969.59 | 4.009 | 2.345E+05 | 2.345E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.74 | 1.01 | <= | 0.47 | 0.003 | 0.00 | 0.88 | 0.00 | 54.22 | 54.27 |
| 54.36 | 129.56 | 3.5292 | 192.60 | 2.39 | 1.24% | 1.264 | 0.58 | 88.14 | 1.92 | 1.21 | 144 | 0.358 | 0.358 | 0.73 | 1.384 | 0.475 | 979.80 | 4.024 | 2.386E+05 | 2.386E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.76 | 1.05 | <= | 0.52 | 0.004 | 0.00 | 0.87 | 0.00 | 54.27 | 54.36 |
| 54.42 | 129.97 | 3.5331 | 194.46 | 2.52 | 1.30% | 1.320 | 0.59 | 88.92 | 1.93 | 1.22 | 146 | 0.371 | 0.371 | 0.73 | 1.386 | 0.475 | 988.76 | 4.036 | 2.422E+05 | 2.422E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.79 | 1.09 | <= | 0.59 | 0.003 | 0.00 | 0.87 | 0.00 | 54.36 | 54.42 |
| 54.49 | 130.35 | 3.5377 | 196.61 | 2.64 | 1.34% | 1.367 | 0.59 | 89.82 | 1.94 | 1.23 | 149 | 0.385 | 0.385 | 0.73 | 1.388 | 0.475 | 996.63 | 4.048 | 2.454E+05 | 2.454E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.82 | 1.13 | <= | 0.34 | 0.002 | 0.00 | 0.87 | 0.00 | 54.42 | 54.49 |
| 54.53 | 130.52 | 3.5403 | 197.88 | 2.70 | 1.36% | 1.389 | 0.59 | 90.35 | 1.94 | 1.23 | 150 | 0.393 | 0.393 | 0.73 | 1.389 | 0.475 | 1000.43 | 4.053 | 2.469E+05 | 2.469E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.84 | 1.15 | <= | 0.36 | 0.001 | 0.00 | 0.86 | 0.00 | 54.49 | 54.53 |
| 54.63 | 130.88 | 3.5468 | 197.98 | 2.84 | 1.43% | 1.461 | 0.60 | 90.25 | 1.96 | 1.25 | 151 | 0.403 | 0.403 | 0.73 | 1.392 | 0.474 | 1008.99 | 4.065 | 2.505E+05 | 2.505E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.86 | 1.18 | <= | 0.40 | 0.003 | 0.00 | 0.86 | 0.00 | 54.53 | 54.63 |
| 54.68 | 131.08 | 3.5501 | 202.47 | 2.89 | 1.43% | 1.453 | 0.59 | 92.26 | 1.95 | 1.24 | 154 | 0.419 | 0.419 | 0.73 | 1.394 | 0.474 | 1011.94 | 4.071 | 2.516E+05 | 2.516E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.89 | 1.23 | <= | 0.24 | 0.000 | 0.00 | 0.86 | 0.00 | 54.63 | 54.68 |
| 54.73 | 131.21 | 3.5534 | 205.59 | 2.93 | 1.43% | 1.450 | 0.59 | 93.63 | 1.94 | 1.23 | 156 | 0.431 | 0.431 | 0.73 | 1.396 | 0.474 | 1014.26 | 4.075 | 2.525E+05 | 2.525E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.92 | 1.27 | <= | 0.26 | 0.000 | 0.00 | 0.86 | 0.00 | 54.68 | 54.73 |
| 54.81 | 131.32 | 3.5586 | 209.01 | 2.96 | 1.42% | 1.441 | 0.59 | 95.09 | 1.94 | 1.23 | 157 | 0.443 | 0.443 | 0.73 | 1.398 | 0.474 | 1015.99 | 4.078 | 2.531E+05 | 2.531E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.95 | 1.30 | | 0.00 | 0.000 | 0.00 | 0.86 | 0.00 | | |
| 54.87 | 131.28 | 3.5626 | 210.38 | 2.93 | 1.39% | 1.417 | 0.59 | 95.63 | 1.93 | 1.22 | 158 | 0.444 | 0.444 | 0.73 | 1.400 | 0.473 | 1014.26 | 4.077 | 2.523E+05 | 2.523E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.95 | 1.31 | | 0.00 | 0.000 | 0.00 | 0.86 | 0.00 | | |
| 54.94 | 131.20 | 3.5671 | 210.97 | 2.90 | 1.37% | 1.398 | 0.59 | 95.80 | 1.92 | 1.21 | 158 | 0.443 | 0.443 | 0.73 | 1.402 | 0.473 | 1012.52 | 4.075 | 2.516E+05 | 2.516E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.95 | 1.30 | | 0.00 | 0.000 | 0.00 | 0.86 | 0.00 | | |
| 54.99 | 131.17 | 3.5704 | 210.87 | 2.89 | 1.37% | 1.394 | 0.59 | 95.67 | 1.92 | 1.21 | 157 | 0.442 | 0.442 | 0.73 | 1.404 | 0.473 | 1011.94 | 4.074 | 2.514E+05 | 2.514E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.94 | 1.30 | <= | 0.29 | 0.000 | 0.00 | 0.86 | 0.00 | 54.94 | 54.99 |
| 55.08 | 131.08 | 3.5763 | 206.08 | 2.88 | 1.40% | 1.422 | 0.59 | 93.33 | 1.94 | 1.23 | 155 | 0.426 | 0.426 | 0.73 | 1.406 | 0.473 | 1011.35 | 4.071 | 2.513E+05 | 2.513E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.91 | 1.25 | <= | 0.25 | 0.000 | 0.00 | 0.86 | 0.00 | 54.99 | 55.08 |
| 55.12 | 131.01 | 3.5789 | 204.62 | 2.85 | 1.39% | 1.418 | 0.59 | 92.59 | 1.94 | 1.23 | 154 | 0.419 | 0.419 | 0.73 | 1.408 | 0.472 | 1009.58 | 4.069 | 2.505E+05 | 2.505E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.90 | 1.23 | <= | 0.24 | 0.000 | 0.00 | 0.86 | 0.00 | 55.08 | 55.12 |
| 55.19 | 130.99 | 3.5835 | 201.30 | 2.86 | 1.42% | 1.447 | 0.59 | 90.96 | 1.95 | 1.24 | 153 | 0.410 | 0.410 | 0.73 | 1.410 | 0.472 | 1010.17 | 4.068 | 2.508E+05 | 2.508E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.88 | 1.21 | <= | 0.22 | 0.000 | 0.00 | 0.86 | 0.00 | 55.12 | 55.19 |
| 55.26 | 131.23 | 3.5881 | 194.56 | 2.99 | 1.54% | 1.566 | 0.61 | 87.76 | 1.99 | 1.29 | 151 | 0.402 | 0.402 | 0.73 | 1.412 | 0.472 | 1017.69 | 4.075 | 2.541E+05 | 2.541E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.86 | 1.18 | <= | 0.40 | 0.002 | 0.00 | 0.86 | 0.00 | 55.19 | 55.26 |
| 55.33 | 131.88 | 3.5927 | 182.74 | 3.34 | 1.83% | 1.864 | 0.63 | 82.24 | 2.07 | 1.40 | 152 | 0.405 | 0.405 | 0.73 | 1.414 | 0.472 | 1036.42 | 4.096 | 2.623E+05 | 2.623E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.87 | 1.19 | <= | 0.41 | 0.002 | 0.00 | 0.86 | 0.00 | 55.26 | 55.33 |
| 55.39 | 132.26 | 3.5967 | 169.16 | 3.61 | 2.13% | 2.180 | 0.65 | 75.93 | 2.15 | 1.55 | 152 | 0.407 | 0.407 | 0.73 | 1.416 | 0.471 | 1049.57 | 4.107 | 2.682E+05 | 2.682E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | | 0.87 | 1.20 | <= | 0.21 | 0.002 | 0.00 | 0.86 | 0.00 | 55.33 | 55.39 |
| 55.48 | 132.09 | 3.6027 | 153.83 | 3.64 | 2.37% | 2.423 | 0.67 | 68.80 | 2.21 | 1.70 | 149 | 0.390 | 0.390 | 0.72 | 1.419 | 0.471 | 1050.97 | 4.102 | 2.693E+05 | 2.693E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | | 0.84 | 1.15 | <= | 0.37 | 0.002 | 0.00 | 0.85 | 0.00 | 55.39 | 55.48 |
| 55.52 | 131.75 | 3.6053 | 145.14 | 3.54 | 2.44% | 2.501 | 0.68 | 64.77 | 2.24 | 1.78 | 146 | 0.372 | 0.372 | 0.72 | 1.420 | 0.471 | 1046.26 | 4.092 | 2.675E+05 | 2.675E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | | 0.80 | 1.10 | <= | 0.61 | 0.002 | 0.00 | 0.85 | 0.00 | 55.48 | 55.52 |
| 55.60 | 130.85 | 3.6105 | 137.32 | 3.19 | 2.32% | 2.386 | 0.68 | 61.12 | 2.25 | 1.79 | 139 | 0.328 | 0.328 | 0.72 | 1.423 | 0.470 | 1028.64 | 4.064 | 2.604E+05 | 2.604E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | | 0.71 | 0.97 | <= | 0.86 | 0.004 | 0.00 | 0.85 | 0.00 | 55.52 | 55.60 |
| 55.66 | 130.39 | 3.6144 | 147.38 | 2.92 | 1.98% | 2.031 | 0.66 | 65.65 | 2.17 | 1.60 | 135 | 0.310 | 0.310 | 0.72 | 1.425 | 0.470 | 1013.68 | 4.049 | 2.538E+05 | 2.538E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | | 0.67 | 0.92 | <= | 0.72 | 0.005 | 0.00 | 0.84 | 0.00 | 55.60 | 55.66 |
| 55.71 | 130.54 | 3.6177 | 180.00 | 2.80 | 1.56% | 1.587 | 0.61 | 80.48 | 2.02 | 1.33 | 143 | 0.350 | 0.350 | 0.72 | 1.426 | 0.470 | 1006.59 | 4.054 | 2.499E+05 | 2.499E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | | 0.75 | 1.04 | <= | 0.51 | 0.003 | 0.00 | 0.84 | 0.00 | 55.66 | 55.71 |
| 55.78 | 130.74 | 3.6223 | 240.85 | 2.61 | 1.08% | 1.100 | 0.55 | 108.13 | 1.80 | 1.11 | 168 | 0.521 | 0.521 | 0.72 | 1.428 | 0.470 | 994.70 | 4.060 | 2.437E+05 | 2.437E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | | 1.12 | 1.54 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 55.84 | 130.91 | 3.6262 | 287.83 | 2.52 | 0.88% | 0.887 | 0.51 | 129.42 | 1.67 | 1.02 | 190 | 0.722 | 0.722 | 0.72 | 1.430 | 0.469 | 988.76 | 4.066 | 2.405E+05 | 2.405E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 1.55 | 2.14 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 55.91 | 130.64 | 3.6308 | 301.11 | 2.39 | 0.79% | 0.803 | 0.50 | 135.32 | 1.63 | 1.00 | 197 | 0.788 | 0.788 | 0.72 | 1.432 | 0.469 | 979.80 | 4.057 | 2.366E+05 | 2.366E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 1.70 | 2.34 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 55.97 | 130.22 | 3.6347 | 323.48 | 2.20 | 0.68% | 0.688 | 0.50 | 145.36 | 1.56 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.434 | 0.469 | 965.79 | 4.044 | 2.306E+05 | 2.306E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 1.78 | 2.44 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.06 | 129.07 | 3.6405 | 330.81 | 1.87 | 0.57% | 0.572 | 0.50 | 148.48 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.437 | 0.469 | 938.30 | 4.008 | 2.196E+05 | 2.196E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.10 | 128.80 | 3.6431 | 334.03 | 1.79 | 0.54% | 0.542 | 0.50 | 149.85 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.438 | 0.468 | 930.90 | 4.000 | 2.166E+05 | 2.166E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.19 | 129.41 | 3.6489 | 337.55 | 1.94 | 0.57% | 0.581 | 0.50 | 151.24 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.441 | 0.468 | 944.51 | 4.019 | 2.220E+05 | 2.220E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.24 | 129.84 | 3.6521 | 340.28 | 2.05 | 0.60% | 0.609 | 0.50 | 152.36 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.443 | 0.468 | 953.84 | 4.032 | 2.256E+05 | 2.256E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.33 | 129.84 | 3.6580 | 349.36 | 2.04 | 0.58% | 0.590 | 0.50 | 156.25 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.445 | 0.467 | 953.02 | 4.032 | 2.252E+05 | 2.252E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.37 | 129.93 | 3.6606 | 357.37 | 2.05 | 0.57% | 0.580 | 0.50 | 159.77 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.447 | 0.467 | 953.84 | 4.035 | 2.255E+05 | 2.255E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.45 | 130.28 | 3.6658 | 367.92 | 2.12 | 0.58% | 0.582 | 0.50 | 164.33 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.449 | 0.467 | 959.52 | 4.046 | 2.276E+05 | 2.276E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 1.78 | 2.45 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.51 | 130.04 | 3.6697 | 374.76 | 2.04 | 0.54% | 0.550 | 0.50 | 167.27 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.451 | 0.467 | 953.02 | 4.039 | 2.249E+05 | 2.249E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 1.78 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.58 | 130.96 | 3.6743 | 380.91 | 2.31 | 0.61% | 0.612 | 0.50 | 169.85 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.453 | 0.466 | 974.04 | 4.067 | 2.333E+05 | 2.333E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.64 | 131.59 | 3.6782 | 383.74 | 2.51 | 0.65% | 0.660 | 0.50 | 170.96 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.72 | 1.455 | 0.466 | 988.09 | 4.087 | 2.389E+05 | 2.389E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.70 | 131.74 | 3.6822 | 359.03 | 2.61 | 0.73% | 0.734 | 0.50 | 159.70 | 1.55 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.457 | 0.466 | 994.70 | 4.091 | 2.418E+05 | 2.418E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.79 | 132.15 | 3.6881 | 367.53 | 2.74 | 0.75% | 0.753 | 0.50 | 163.28 | 1.55 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.460 | 0.466 | 1002.92 | 4.104 | 2.451E+05 | 2.451E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.83 | 132.26 | 3.6908 | 367.24 | 2.79 | 0.76% | 0.767 | 0.50 | 163.05 | 1.55 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.461 | 0.465 | 1005.98 | 4.107 | 2.464E+05 | 2.464E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.91 | 132.39 | 3.6961 | 363.33 | 2.85 | 0.78% | 0.792 | 0.50 | 161.09 | 1.57 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.464 | 0.465 | 1009.58 | 4.111 | 2.479E+05 | 2.479E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.79 | 2.46 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 56.97 | 132.45 | 3.7000 | 360.01 | 2.88 | 0.80% | 0.808 | 0.50 | 159.45 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.465 | 0.465 | 1011.35 | 4.113 | 2.487E+05 | 2.487E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.79 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.03 | 132.50 | 3.7040 | 358.25 | 2.90 | 0.81% | 0.818 | 0.50 | 158.52 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.467 | 0.464 | 1012.52 | 4.115 | 2.491E+05 | 2.491E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 1.79 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.10 | 132.52 | 3.7086 | 354.93 | 2.92 | 0.82% | 0.831 | 0.50 | 156.86 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.470 | 0.464 | 1013.68 | 4.116 | 2.497E+05 | 2.497E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 1.79 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.16 | 132.59 | 3.7126 | 353.17 | 2.95 | 0.84% | 0.844 | 0.50 | 155.92 | 1.60 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.471 | 0.464 | 1015.41 | 4.118 | 2.504E+05 | 2.504E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 1.80 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.23 | 132.70 | 3.7173 | 350.14 | 3.01 | 0.86% | 0.869 | 0.50 | 154.40 | 1.61 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.474 | 0.464 | 1018.82 | 4.121 | 2.519E+05 | 2.519E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 1.80 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.32 | 132.62 | 3.7232 | 347.02 | 2.98 | 0.86% | 0.868 | 0.50 | 152.79 | 1.61 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.476 | 0.463 | 1017.12 | 4.119 | 2.512E+05 | 2.512E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.80 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.36 | 132.57 | 3.7259 | 345.07 | 2.97 | 0.86% | 0.870 | 0.50 | 151.83 | 1.61 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.478 | 0.463 | 1016.56 | 4.117 | 2.510E+05 | 2.510E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.80 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.44 | 131.40 | 3.7311 | 337.84 | 2.55 | 0.75% | 0.763 | 0.50 | 148.43 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.480 | 0.463 | 990.76 | 4.081 | 2.405E+05 | 2.405E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.80 | 2.48 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.50 | 130.15 | 3.7350 | 332.08 | 2.16 | 0.65% | 0.658 | 0.50 | 145.73 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.482 | 0.462 | 962.69 | 4.042 | 2.293E+05 | 2.293E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 1.80 | 2.48 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.57 | 129.58 | 3.7396 | 325.73 | 2.01 | 0.62% | 0.624 | 0.50 | 142.76 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.484 | 0.462 | 950.51 | 4.024 | 2.245E+05 | 2.245E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 1.80 | 2.48 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.64 | 129.14 | 3.7441 | 322.21 | 1.90 | 0.59% | 0.597 | 0.50 | 141.06 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.486 | 0.462 | 940.99 | 4.011 | 2.208E+05 | 2.208E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 1.80 | 2.48 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.68 | 128.87 | 3.7467 | 322.41 | 1.83 | 0.57% | 0.574 | 0.50 | 141.06 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.488 | 0.462 | 934.64 | 4.002 | 2.183E+05 | 2.183E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 1.80 | 2.48 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.75 | 128.37 | 3.7512 | 310.30 | 1.73 | 0.56% | 0.564 | 0.50 | 135.56 | 1.52 | 1.00 | 200 | 0.823 | 0.823 | 0.71 | 1.490 | 0.461 | 925.13 | 3.987 | 2.147E+05 | 2.147E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 1.80 | 2.48 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.82 | 128.32 | 3.7557 | 315.28 | 1.71 | 0.54% | 0.549 | 0.50 | 137.62 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.492 | 0.461 | 923.17 | 3.985 | 2.139E+05 | 2.139E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 1.81 | 2.48 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.89 | 128.27 | 3.7602 | 310.88 | 1.71 | 0.55% | 0.557 | 0.50 | 135.53 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.71 | 1.494 | 0.461 | 923.17 | 3.984 | 2.139E+05 | 2.139E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 1.81 | 2.49 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 57.97 | 128.18 | 3.7653 | 300.92 | 1.71 | 0.57% | 0.575 | 0.50 | 130.99 | 1.54 | 1.00 | 193 | 0.753 | 0.753 | 0.70 | 1.497 | 0.461 | 923.17 | 3.981 | 2.141E+05 | 2.141E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 1.65 | 2.27 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.02 | 127.98 | 3.7685 | 292.62 | 1.68 | 0.57% | 0.582 | 0.50 | 127.23 | 1.55 | 1.00 | 188 | 0.698 | 0.698 | 0.70 | 1.498 | 0.460 | 920.17 | 3.975 | 2.130E+05 | 2.130E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.53 | 2.11 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.11 | 127.40 | 3.7742 | 285.98 | 1.56 | 0.55% | 0.553 | 0.50 | 124.15 | 1.54 | 1.00 | 184 | 0.655 | 0.655 | 0.70 | 1.501 | 0.460 | 907.64 | 3.957 | 2.082E+05 | 2.082E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.44 | 1.98 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.16 | 127.06 | 3.7774 | 283.63 | 1.49 | 0.53% | 0.532 | 0.50 | 123.02 | 1.54 | 1.00 | 182 | 0.640 | 0.640 | 0.70 | 1.503 | 0.460 | 899.87 | 3.946 | 2.052E+05 | 2.052E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.41 | 1.94 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.21 | 126.60 | 3.7806 | 279.14 | 1.41 | 0.51% | 0.512 | 0.50 | 120.96 | 1.53 | 1.00 | 179 | 0.613 | 0.613 | 0.70 | 1.504 | 0.460 | 890.54 | 3.932 | 2.017E+05 | 2.017E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.35 | 1.86 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.27 | 126.06 | 3.7843 | 277.58 | 1.31 | 0.47% | 0.478 | 0.50 | 120.17 | 1.52 | 1.00 | 178 | 0.603 | 0.603 | 0.70 | 1.506 | 0.459 | 878.09 | 3.915 | 1.970E+05 | 1.970E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.33 | 1.83 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.34 | 125.68 | 3.7887 | 277.38 | 1.25 | 0.45% | 0.457 | 0.50 | 119.97 | 1.50 | 1.00 | 178 | 0.601 | 0.601 | 0.70 | 1.508 | 0.459 | 870.16 | 3.903 | 1.940E+05 | 1.940E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.32 | 1.82 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.42 | 125.58 | 3.7938 | 276.89 | 1.23 | 0.44% | 0.450 | 0.50 | 119.62 | 1.50 | 1.00 | 177 | 0.598 | 0.598 | 0.70 | 1.511 | 0.459 | 867.43 | 3.900 | 1.929E+05 | 1.929E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.32 | 1.81 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.47 | 125.55 | 3.7969 | 272.89 | 1.23 | 0.45% | 0.457 | 0.50 | 117.78 | 1.51 | 1.00 | 175 | 0.575 | 0.575 | 0.70 | 1.512 | 0.459 | 867.43 | 3.899 | 1.930E+05 | 1.930E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.27 | 1.74 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.56 | 125.50 | 3.8025 | 267.22 | 1.23 | 0.46% | 0.467 | 0.50 | 115.16 | 1.52 | 1.00 | 171 | 0.543 | 0.543 | 0.70 | 1.515 | 0.458 | 867.43 | 3.898 | 1.931E+05 | 1.931E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.20 | 1.65 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.61 | 125.46 | 3.8057 | 262.93 | 1.23 | 0.47% | 0.475 | 0.50 | 113.20 | 1.53 | 1.00 | 168 | 0.521 | 0.521 | 0.70 | 1.517 | 0.458 | 867.43 | 3.896 | 1.931E+05 | 1.931E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.15 | 1.58 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.69 | 124.98 | 3.8107 | 255.89 | 1.16 | 0.45% | 0.460 | 0.50 | 110.00 | 1.54 | 1.00 | 163 | 0.485 | 0.485 | 0.70 | 1.519 | 0.458 | 857.52 | 3.881 | 1.895E+05 | 1.895E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.07 | 1.47 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.73 | 124.68 | 3.8132 | 253.26 | 1.12 | 0.44% | 0.449 | 0.50 | 108.80 | 1.53 | 1.00 | 162 | 0.472 | 0.472 | 0.70 | 1.520 | 0.457 | 851.58 | 3.872 | 1.873E+05 | 1.873E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.04 | 1.43 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.80 | 124.71 | 3.8175 | 248.96 | 1.13 | 0.45% | 0.461 | 0.50 | 106.82 | 1.55 | 1.00 | 159 | 0.452 | 0.452 | 0.70 | 1.523 | 0.457 | 853.09 | 3.873 | 1.879E+05 | 1.879E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.00 | 1.37 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.87 | 124.77 | 3.8219 | 246.52 | 1.14 | 0.46% | 0.470 | 0.50 | 105.65 | 1.56 | 1.00 | 157 | 0.440 | 0.440 | 0.70 | 1.525 | 0.457 | 854.58 | 3.875 | 1.885E+05 | 1.885E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 0.97 | 1.34 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 58.95 | 124.68 | 3.8269 | 244.27 | 1.13 | 0.46% | 0.470 | 0.50 | 104.56 | 1.56 | 1.00 | 155 | 0.430 | 0.430 | 0.70 | 1.527 | 0.457 | 853.09 | 3.872 | 1.880E+05 | 1.880E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 0.95 | 1.31 | | 0.00 | 0.000 | 0.00 | 0.84 | 0.00 | | |
| 59.00 | 124.54 | 3.8300 | 243.49 | 1.11 | 0.46% | 0.463 | 0.50 | 104.15 | 1.56 | 1.00 | 155 | 0.426 | 0.426 | 0.70 | 1.529 | 0.456 | 850.07 | 3.868 | 1.868E+05 | 1.868E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 0.94 | 1.30 | <= | 0.29 | 0.000 | 0.00 | 0.84 | 0.00 | 58.95 | 59.00 |
| 59.07 | 124.24 | 3.8344 | 237.58 | 1.08 | 0.45% | 0.462 | 0.50 | 101.48 | 1.56 | 1.00 | 151 | 0.400 | 0.400 | 0.70 | 1.531 | 0.456 | 845.43 | 3.858 | 1.852E+05 | 1.852E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 0.89 | 1.22 | <= | 0.23 | 0.000 | 0.00 | 0.84 | 0.00 | 59.00 | 59.07 |
| 59.13 | 124.18 | 3.8381 | 230.89 | 1.08 | 0.47% | 0.476 | 0.50 | 98.49 | 1.58 | 1.00 | 147 | 0.373 | 0.373 | 0.70 | 1.533 | 0.456 | 845.43 | 3.857 | 1.853E+05 | 1.853E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 0.83 | 1.14 | <= | 0.35 | 0.000 | 0.00 | 0.84 | 0.00 | 59.07 | 59.13 |
| 59.21 | 124.73 | 3.8431 | 227.96 | 1.17 | 0.51% | 0.522 | 0.50 | 97.12 | 1.61 | 1.00 | 145 | 0.362 | 0.362 | 0.69 | 1.535 | 0.456 | 858.97 | 3.874 | 1.905E+05 | 1.905E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 0.80 | 1.10 | <= | 0.31 | 0.003 | 0.00 | 0.84 | 0.00 | 59.13 | 59.21 |
| 59.29 | 124.14 | 3.8480 | 220.15 | 1.09 | 0.50% | 0.504 | 0.50 | 93.63 | 1.61 | 1.00 | 140 | 0.333 | 0.333 | 0.69 | 1.538 | 0.455 | 846.99 | 3.855 | 1.861E+05 | 1.861E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 0.74 | 1.02 | <= | 0.48 | 0.004 | 0.00 | 0.83 | 0.00 | 59.21 | 59.29 |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-4

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

**Project No.:** 7109.23

| | | | |
|---|---|---|---|
| D (ft): | 1 | Magnitude: | 6.62 |
| Groundwater Level: | 10 feet | Accleration: | 0.606 g's |
| Magnitude Scaling Factor: | 1.38 | | |
| Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): | 2 | | |
| Discrete Column Spacing (ft): | 8.0 | Unit Tributary Area, A (ft$^2$): | 45.83 |
| Discrete Column Shear Modulus, $G_G$ (psf): | 2,030,000 | | |
| Discrete Coumn Dia. (ft): | 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft$^2$): | 7.07 |
| $A_R = A_{sc}/A$: | 0.154 | Assumed Discrete Column Density (pcf): | 130.00 |
| Discrete Coumn Intalled Depth (ft): | from 5.0 | to | 30.0 |

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec$^2$)/ft$^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_s$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.34 | 122.94 | 3.8511 | 212.24 | 0.94 | 0.44% | 0.451 | 0.50 | 90.15 | 1.60 | 1.00 | 134 | 0.306 | 0.306 | 0.69 | 1.539 | 0.455 | 821.95 | 3.818 | 1.769E+05 | 1.769E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 0.68 | 0.93 | <= | 0.78 | 0.003 | 0.00 | 0.83 | 0.00 | 59.29 | 59.34 |
| 59.38 | 121.77 | 3.8535 | 203.93 | 0.81 | 0.40% | 0.405 | 0.50 | 86.51 | 1.59 | 1.00 | 129 | 0.280 | 0.280 | 0.69 | 1.541 | 0.455 | 796.77 | 3.782 | 1.679E+05 | 1.679E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 0.62 | 0.86 | <= | 1.25 | 0.004 | 0.00 | 0.83 | 0.00 | 59.34 | 59.38 |
| 59.46 | 123.10 | 3.8585 | 193.68 | 0.99 | 0.51% | 0.522 | 0.51 | 81.99 | 1.67 | 1.02 | 124 | 0.256 | 0.256 | 0.69 | 1.543 | 0.454 | 830.71 | 3.823 | 1.805E+05 | 1.805E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 0.57 | 0.78 | <= | 1.75 | 0.011 | 0.00 | 0.82 | 0.00 | 59.38 | 59.46 |
| 59.52 | 122.24 | 3.8621 | 186.84 | 0.89 | 0.48% | 0.486 | 0.51 | 78.97 | 1.67 | 1.02 | 119 | 0.237 | 0.253 | 0.69 | 1.545 | 0.454 | 812.70 | 3.796 | 1.740E+05 | 1.740E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 0.56 | 0.77 | <= | 1.82 | 0.012 | 0.00 | 0.81 | 0.00 | 59.46 | 59.52 |
| 59.59 | 123.47 | 3.8665 | 181.37 | 1.06 | 0.58% | 0.597 | 0.53 | 76.53 | 1.74 | 1.06 | 119 | 0.235 | 0.235 | 0.69 | 1.547 | 0.454 | 842.27 | 3.834 | 1.850E+05 | 1.850E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 0.52 | 0.72 | <= | 1.66 | 0.014 | 0.00 | 0.80 | 0.00 | 59.52 | 59.59 |
| 59.66 | 124.32 | 3.8708 | 180.10 | 1.19 | 0.66% | 0.675 | 0.54 | 75.91 | 1.77 | 1.09 | 119 | 0.239 | 0.239 | 0.69 | 1.549 | 0.454 | 861.84 | 3.861 | 1.924E+05 | 1.924E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 0.53 | 0.73 | <= | 1.71 | 0.009 | 0.00 | 0.79 | 0.00 | 59.59 | 59.66 |
| 59.73 | 125.63 | 3.8752 | 172.19 | 1.45 | 0.84% | 0.861 | 0.57 | 72.44 | 1.86 | 1.15 | 118 | 0.235 | 0.235 | 0.69 | 1.552 | 0.453 | 895.27 | 3.902 | 2.054E+05 | 2.054E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 0.52 | 0.72 | <= | 1.67 | 0.014 | 0.00 | 0.78 | 0.00 | 59.66 | 59.73 |
| 59.79 | 126.78 | 3.8790 | 158.22 | 1.75 | 1.11% | 1.134 | 0.60 | 66.37 | 1.97 | 1.27 | 116 | 0.226 | 0.226 | 0.69 | 1.553 | 0.453 | 927.08 | 3.937 | 2.183E+05 | 2.183E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 0.50 | 0.69 | <= | 2.04 | 0.012 | 0.00 | 0.76 | 0.00 | 59.73 | 59.79 |
| 59.88 | 127.43 | 3.8847 | 121.79 | 2.08 | 1.71% | 1.764 | 0.67 | 50.64 | 2.21 | 1.69 | 111 | 0.208 | 0.277 | 0.69 | 1.556 | 0.453 | 956.30 | 3.957 | 2.311E+05 | 2.311E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 0.62 | 0.85 | <= | 1.72 | 0.019 | 0.00 | 0.75 | 0.00 | 59.79 | 59.88 |
| 59.92 | 127.16 | 3.8873 | 96.59 | 2.17 | 2.25% | 2.341 | 0.72 | 39.79 | 2.38 | 2.24 | 111 | 0.208 | 0.186 | 0.69 | 1.558 | 0.453 | 963.47 | 3.949 | 2.351E+05 | 2.351E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 0.42 | 0.57 | <= | 2.12 | 0.010 | 0.00 | 0.73 | 0.00 | 59.88 | 59.92 |
| 59.99 | 126.53 | 3.8917 | 76.67 | 2.15 | 2.80% | 2.954 | 0.77 | 31.21 | 2.54 | 2.98 | 112 | 0.210 | 0.219 | 0.69 | 1.560 | 0.452 | 961.90 | 3.930 | 2.355E+05 | 2.355E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 0.49 | 0.67 | <= | 2.11 | 0.017 | 0.00 | 0.72 | 0.00 | 59.92 | 59.99 |
| 60.05 | 125.74 | 3.8955 | 64.85 | 2.04 | 3.15% | 3.347 | 0.80 | 26.12 | 2.64 | 3.59 | 118 | 0.234 | 0.234 | 0.69 | 1.562 | 0.452 | 953.02 | 3.905 | 2.326E+05 | 2.326E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.12 | 124.57 | 3.8998 | 51.08 | 1.88 | 3.68% | 3.985 | 0.84 | 20.20 | 2.79 | 4.67 | 154 | 0.421 | 0.421 | 0.69 | 1.564 | 0.452 | 939.20 | 3.869 | 2.280E+05 | 2.280E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.19 | 123.55 | 3.9042 | 43.17 | 1.73 | 4.01% | 4.406 | 0.87 | 16.79 | 2.88 | 5.54 | 183 | 0.648 | 0.648 | 0.69 | 1.566 | 0.451 | 925.13 | 3.837 | 2.231E+05 | 2.231E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.27 | 122.26 | 3.9091 | 37.02 | 1.53 | 4.13% | 4.621 | 0.90 | 14.15 | 2.96 | 6.31 | 208 | 0.921 | 0.921 | 0.69 | 1.568 | 0.451 | 904.35 | 3.797 | 2.154E+05 | 2.154E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.32 | 121.24 | 3.9121 | 33.79 | 1.37 | 4.05% | 4.585 | 0.91 | 12.76 | 3.00 | 6.70 | 221 | 1.084 | 1.084 | 0.69 | 1.570 | 0.451 | 885.67 | 3.765 | 2.083E+05 | 2.083E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.38 | 119.85 | 3.9157 | 30.77 | 1.17 | 3.80% | 4.357 | 0.91 | 11.46 | 3.02 | 6.98 | 230 | 1.215 | 1.215 | 0.68 | 1.572 | 0.451 | 858.97 | 3.722 | 1.982E+05 | 1.982E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.44 | 118.38 | 3.9192 | 30.91 | 0.95 | 3.07% | 3.520 | 0.90 | 11.51 | 2.96 | 6.28 | 207 | 0.909 | 0.909 | 0.68 | 1.574 | 0.450 | 823.74 | 3.676 | 1.846E+05 | 1.846E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.50 | 117.01 | 3.9227 | 30.91 | 0.79 | 2.56% | 2.927 | 0.88 | 11.50 | 2.91 | 5.76 | 190 | 0.719 | 0.719 | 0.68 | 1.576 | 0.450 | 792.54 | 3.634 | 1.729E+05 | 1.729E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.59 | 117.16 | 3.9280 | 31.06 | 0.80 | 2.58% | 2.949 | 0.88 | 11.55 | 2.91 | 5.76 | 190 | 0.720 | 0.720 | 0.68 | 1.578 | 0.450 | 794.67 | 3.639 | 1.736E+05 | 1.736E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.64 | 117.38 | 3.9310 | 33.60 | 0.81 | 2.41% | 2.730 | 0.86 | 12.62 | 2.85 | 5.23 | 173 | 0.559 | 0.559 | 0.68 | 1.580 | 0.450 | 796.77 | 3.645 | 1.742E+05 | 1.742E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.71 | 118.37 | 3.9351 | 37.02 | 0.89 | 2.40% | 2.690 | 0.85 | 14.06 | 2.81 | 4.83 | 159 | 0.456 | 0.456 | 0.68 | 1.582 | 0.449 | 812.70 | 3.676 | 1.797E+05 | 1.797E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.77 | 120.01 | 3.9387 | 39.85 | 1.09 | 2.74% | 3.035 | 0.85 | 15.25 | 2.81 | 4.86 | 160 | 0.463 | 0.463 | 0.68 | 1.584 | 0.449 | 846.99 | 3.727 | 1.925E+05 | 1.925E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.86 | 121.74 | 3.9442 | 43.76 | 1.34 | 3.06% | 3.365 | 0.85 | 16.89 | 2.80 | 4.79 | 158 | 0.446 | 0.446 | 0.68 | 1.587 | 0.449 | 881.92 | 3.781 | 2.057E+05 | 2.057E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.90 | 122.19 | 3.9466 | 43.27 | 1.43 | 3.30% | 3.637 | 0.86 | 16.67 | 2.83 | 5.03 | 166 | 0.505 | 0.505 | 0.68 | 1.588 | 0.449 | 892.92 | 3.795 | 2.101E+05 | 2.101E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 60.97 | 123.39 | 3.9509 | 49.52 | 1.61 | 3.25% | 3.533 | 0.84 | 19.30 | 2.77 | 4.50 | 148 | 0.384 | 0.384 | 0.68 | 1.590 | 0.448 | 912.97 | 3.832 | 2.175E+05 | 2.175E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 61.03 | 123.57 | 3.9546 | 49.62 | 1.65 | 3.33% | 3.613 | 0.84 | 19.33 | 2.77 | 4.55 | 150 | 0.395 | 0.395 | 0.68 | 1.592 | 0.448 | 917.13 | 3.838 | 2.192E+05 | 2.192E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 61.10 | 123.88 | 3.9590 | 49.32 | 1.73 | 3.51% | 3.814 | 0.85 | 19.18 | 2.79 | 4.71 | 155 | 0.429 | 0.429 | 0.68 | 1.594 | 0.448 | 925.13 | 3.847 | 2.225E+05 | 2.225E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 61.18 | 123.91 | 3.9639 | 51.37 | 1.71 | 3.33% | 3.607 | 0.84 | 20.03 | 2.76 | 4.44 | 147 | 0.373 | 0.373 | 0.68 | 1.597 | 0.448 | 923.17 | 3.848 | 2.215E+05 | 2.215E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 61.24 | 123.79 | 3.9677 | 60.26 | 1.60 | 2.66% | 2.842 | 0.80 | 23.76 | 2.62 | 3.48 | 115 | 0.220 | 0.220 | 0.68 | 1.599 | 0.447 | 911.92 | 3.844 | 2.163E+05 | 2.163E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.71 | 0.00 | | |
| 61.33 | 124.18 | 3.9732 | 86.34 | 1.50 | 1.74% | 1.821 | 0.71 | 34.73 | 2.35 | 2.12 | 93 | 0.156 | 0.160 | 0.68 | 1.601 | 0.447 | 901.00 | 3.857 | 2.105E+05 | 2.105E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 0.36 | 0.50 | <= | 2.44 | 0.025 | 0.00 | 0.71 | 0.00 | 61.24 | 61.33 |
| 61.37 | 124.39 | 3.9757 | 100.31 | 1.46 | 1.46% | 1.516 | 0.68 | 40.60 | 2.24 | 1.77 | 93 | 0.156 | 0.151 | 0.68 | 1.603 | 0.447 | 896.43 | 3.863 | 2.080E+05 | 2.080E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 0.34 | 0.47 | <= | 2.44 | 0.011 | 0.00 | 0.68 | 0.00 | 61.33 | 61.37 |
| 61.43 | 124.38 | 3.9795 | 106.17 | 1.44 | 1.36% | 1.409 | 0.67 | 43.03 | 2.20 | 1.66 | 94 | 0.157 | 0.271 | 0.68 | 1.605 | 0.446 | 894.10 | 3.863 | 2.070E+05 | 2.070E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 0.61 | 0.84 | <= | 2.01 | 0.014 | 0.00 | 0.67 | 0.00 | 61.37 | 61.43 |
| 61.50 | 124.11 | 3.9838 | 106.66 | 1.38 | 1.29% | 1.344 | 0.66 | 43.20 | 2.18 | 1.62 | 93 | 0.154 | 0.265 | 0.68 | 1.607 | 0.446 | 886.90 | 3.854 | 2.041E+05 | 2.041E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 0.60 | 0.83 | <= | 1.92 | 0.016 | 0.00 | 0.66 | 0.00 | 61.43 | 61.50 |
| 61.55 | 123.75 | 3.9869 | 103.14 | 1.33 | 1.29% | 1.341 | 0.67 | 41.69 | 2.19 | 1.65 | 91 | 0.149 | 0.269 | 0.68 | 1.608 | 0.446 | 880.66 | 3.843 | 2.018E+05 | 2.018E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 0.61 | 0.84 | <= | 2.50 | 0.014 | 0.00 | 0.64 | 0.00 | 61.50 | 61.55 |
| 61.64 | 123.04 | 3.9924 | 96.79 | 1.23 | 1.27% | 1.325 | 0.67 | 38.97 | 2.21 | 1.70 | 87 | 0.141 | 0.265 | 0.67 | 1.611 | 0.446 | 867.43 | 3.821 | 1.969E+05 | 1.969E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 0.60 | 0.83 | <= | 2.58 | 0.026 | 0.00 | 0.63 | 0.00 | 61.55 | 61.64 |
| 61.72 | 122.97 | 3.9974 | 91.71 | 1.24 | 1.35% | 1.414 | 0.68 | 36.80 | 2.25 | 1.81 | 87 | 0.140 | 0.144 | 0.67 | 1.614 | 0.445 | 868.80 | 3.819 | 1.977E+05 | 1.977E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 0.33 | 0.45 | <= | 2.59 | 0.023 | 0.00 | 0.60 | 0.00 | 61.64 | 61.72 |
| 61.78 | 122.92 | 4.0010 | 88.10 | 1.25 | 1.42% | 1.486 | 0.69 | 35.25 | 2.29 | 1.90 | 86 | 0.140 | 0.148 | 0.67 | 1.616 | 0.445 | 870.16 | 3.817 | 1.984E+05 | 1.984E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.34 | 0.46 | <= | 2.59 | 0.017 | 0.00 | 0.58 | 0.00 | 61.72 | 61.78 |
| 61.82 | 122.89 | 4.0035 | 86.14 | 1.26 | 1.46% | 1.534 | 0.70 | 34.41 | 2.30 | 1.96 | 87 | 0.140 | 0.148 | 0.67 | 1.617 | 0.445 | 871.51 | 3.816 | 1.990E+05 | 1.990E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.34 | 0.46 | <= | 2.59 | 0.012 | 0.00 | 0.56 | 0.00 | 61.78 | 61.82 |
| 61.91 | 123.09 | 4.0090 | 80.87 | 1.32 | 1.63% | 1.717 | 0.72 | 32.17 | 2.36 | 2.16 | 88 | 0.143 | 0.155 | 0.67 | 1.620 | 0.444 | 879.38 | 3.823 | 2.023E+05 | 2.023E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.35 | 0.48 | <= | 2.56 | 0.026 | 0.00 | 0.55 | 0.00 | 61.82 | 61.91 |
| 61.95 | 123.56 | 4.0115 | 76.18 | 1.43 | 1.88% | 1.981 | 0.74 | 30.19 | 2.43 | 2.43 | 91 | 0.151 | 0.166 | 0.67 | 1.621 | 0.444 | 892.92 | 3.837 | 2.078E+05 | 2.078E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.38 | 0.52 | <= | 2.48 | 0.011 | 0.00 | 0.52 | 0.00 | 61.91 | 61.95 |
| 62.02 | 124.42 | 4.0159 | 71.30 | 1.65 | 2.31% | 2.452 | 0.76 | 28.12 | 2.52 | 2.86 | 98 | 0.167 | 0.184 | 0.67 | 1.623 | 0.444 | 917.13 | 3.864 | 2.177E+05 | 2.177E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | | 0.42 | 0.58 | <= | 2.35 | 0.018 | 0.00 | 0.51 | 0.00 | 61.95 | 62.02 |
| 62.09 | 125.03 | 4.0202 | 66.22 | 1.84 | 2.78% | 2.958 | 0.79 | 25.97 | 2.60 | 3.35 | 110 | 0.205 | 0.205 | 0.67 | 1.625 | 0.444 | 935.56 | 3.883 | 2.254E+05 | 2.254E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.49 | 0.00 | | |
| 62.17 | 125.28 | 4.0253 | 58.70 | 1.98 | 3.37% | 3.621 | 0.82 | 22.80 | 2.71 | 4.09 | 135 | 0.308 | 0.308 | 0.67 | 1.628 | 0.443 | 947.97 | 3.891 | 2.310E+05 | 2.310E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.49 | 0.00 | | |
| 62.22 | 125.04 | 4.0284 | 54.01 | 1.97 | 3.65% | 3.941 | 0.84 | 20.83 | 2.77 | 4.54 | 150 | 0.393 | 0.393 | 0.67 | 1.629 | 0.443 | 947.11 | 3.883 | 2.310E+05 | 2.310E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.49 | 0.00 | | |
| 62.28 | 124.46 | 4.0321 | 49.71 | 1.87 | 3.76% | 4.094 | 0.85 | 19.02 | 2.81 | 4.91 | 162 | 0.476 | 0.476 | 0.67 | 1.631 | 0.443 | 938.30 | 3.865 | 2.278E+05 | 2.278E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.49 | 0.00 | | |
| 62.35 | 123.58 | 4.0364 | 54.21 | 1.61 | 2.97% | 3.209 | 0.82 | 20.88 | 2.71 | 4.05 | 134 | 0.301 | 0.301 | 0.67 | 1.633 | 0.443 | 912.97 | 3.838 | 2.172E+05 | 2.172E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.49 | 0.00 | | |
| 62.44 | 122.62 | 4.0420 | 51.86 | 1.43 | 2.76% | 2.991 | 0.82 | 19.88 | 2.70 | 4.02 | 133 | 0.298 | 0.298 | 0.67 | 1.636 | 0.442 | 892.92 | 3.808 | 2.094E+05 | 2.094E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.49 | 0.00 | | |
| 62.49 | 123.54 | 4.0450 | 54.40 | 1.60 | 2.94% | 3.177 | 0.82 | 20.92 | 2.70 | 4.02 | 133 | 0.297 | 0.297 | 0.67 | 1.638 | 0.442 | 911.92 | 3.837 | 2.168E+05 | 2.168E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.49 | 0.00 | | |
| 62.54 | 124.34 | 4.0482 | 54.89 | 1.78 | 3.24% | 3.501 | 0.83 | 21.11 | 2.73 | 4.21 | 139 | 0.330 | 0.330 | 0.67 | 1.639 | 0.442 | 929.95 | 3.861 | 2.240E+05 | 2.240E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.49 | 0.00 | | |
| 62.61 | 124.56 | 4.0525 | 54.60 | 1.83 | 3.35% | 3.620 | 0.83 | 20.96 | 2.74 | 4.31 | 142 | 0.348 | 0.348 | 0.67 | 1.641 | 0.442 | 934.64 | 3.868 | 2.258E+05 | 2.258E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.49 | 0.00 | | |
| 62.71 | 123.95 | 4.0587 | 51.67 | 1.72 | 3.33% | 3.613 | 0.84 | 19.72 | 2.76 | 4.48 | 148 | 0.381 | 0.381 | 0.67 | 1.645 | 0.441 | 924.15 | 3.849 | 2.219E+05 | 2.219E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.49 | 0.00 | | |
| 62.75 | 121.95 | 4.0611 | 54.21 | 1.29 | 2.38% | 2.572 | 0.80 | 20.76 | 2.64 | 3.60 | 119 | 0.236 | 0.236 | 0.67 | 1.646 | 0.441 | 875.49 | 3.787 | 2.024E+05 | 2.024E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.49 | 0.00 | | |
| 62.80 | 120.03 | 4.0641 | 59.38 | 0.96 | 1.62% | 1.735 | 0.76 | 22.89 | 2.49 | 2.73 | 90 | 0.148 | 0.179 | 0.67 | 1.647 | 0.441 | 825.51 | 3.728 | 1.828E+05 | 1.828E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 0.41 | 0.57 | <= | 2.51 | 0.015 | 0.00 | 0.49 | 0.00 | 62.75 | 62.80 |
| 62.89 | 122.36 | 4.0697 | 84.19 | 1.18 | 1.40% | 1.473 | 0.70 | 33.11 | 2.30 | 1.96 | 84 | 0.135 | 0.146 | 0.66 | 1.650 | 0.440 | 860.41 | 3.800 | 1.948E+05 | 1.948E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 0.34 | 0.46 | <= | 2.66 | 0.026 | 0.00 | 0.48 | 0.00 | 62.80 | 62.89 |
| 62.96 | 123.83 | 4.0740 | 102.75 | 1.35 | 1.31% | 1.368 | 0.67 | 40.75 | 2.20 | 1.68 | 90 | 0.149 | 0.271 | 0.66 | 1.652 | 0.440 | 883.18 | 3.846 | 2.028E+05 | 2.028E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 0.62 | 0.86 | <= | 2.50 | 0.019 | 0.00 | 0.45 | 0.00 | 62.89 | 62.96 |
| 63.02 | 124.83 | 4.0777 | 115.54 | 1.48 | 1.28% | 1.328 | 0.65 | 45.99 | 2.15 | 1.55 | 96 | 0.162 | 0.260 | 0.66 | 1.654 | 0.440 | 898.73 | 3.877 | 2.084E+05 | 2.084E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 0.60 | 0.82 | <= | 1.82 | 0.013 | 0.00 | 0.43 | 0.00 | 62.96 | 63.02 |
| 63.06 | 124.95 | 4.0802 | 104.70 | 1.56 | 1.49% | 1.550 | 0.68 | 41.50 | 2.24 | 1.76 | 96 | 0.162 | 0.148 | 0.66 | 1.655 | 0.440 | 907.64 | 3.880 | 2.123E+05 | 2.123E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 0.34 | 0.47 | <= | 2.39 | 0.010 | 0.00 | 0.42 | 0.00 | 63.02 | 63.06 |
| 63.14 | 125.90 | 4.0853 | 120.62 | 1.69 | 1.40% | 1.450 | 0.66 | 48.01 | 2.16 | 1.58 | 101 | 0.177 | 0.259 | 0.66 | 1.658 | 0.439 | 921.18 | 3.910 | 2.170E+05 | 2.170E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 0.60 | 0.82 | <= | 1.67 | 0.016 | 0.00 | 0.41 | 0.00 | 63.06 | 63.14 |
| 63.20 | 126.40 | 4.0891 | 121.50 | 1.81 | 1.49% | 1.542 | 0.66 | 48.33 | 2.18 | 1.61 | 104 | 0.184 | 0.257 | 0.66 | 1.660 | 0.439 | 932.78 | 3.925 | 2.217E+05 | 2.217E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 0.59 | 0.82 | <= | 1.57 | 0.011 | 0.00 | 0.39 | 0.00 | 63.14 | 63.20 |
| 63.26 | 127.00 | 4.0929 | 119.25 | 1.98 | 1.66% | 1.719 | 0.67 | 47.37 | 2.22 | 1.71 | 107 | 0.194 | 0.271 | 0.66 | 1.662 | 0.439 | 947.97 | 3.944 | 2.278E+05 | 2.278E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 0.62 | 0.86 | <= | 1.86 | 0.013 | 0.00 | 0.38 | 0.00 | 63.20 | 63.26 |
| 63.33 | 127.69 | 4.0973 | 113.69 | 2.21 | 1.94% | 2.017 | 0.69 | 45.04 | 2.29 | 1.90 | 111 | 0.208 | 0.161 | 0.66 | 1.664 | 0.438 | 966.56 | 3.966 | 2.356E+05 | 2.356E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 0.37 | 0.51 | <= | 2.12 | 0.016 | 0.00 | 0.37 | 0.00 | 63.26 | 63.33 |
| 63.40 | 128.32 | 4.1018 | 100.01 | 2.51 | 2.51% | 2.617 | 0.73 | 39.38 | 2.42 | 2.38 | 118 | 0.231 | 0.197 | 0.66 | 1.666 | 0.438 | 988.09 | 3.985 | 2.450E+05 | 2.450E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.45 | 0.62 | <= | 2.02 | 0.016 | 0.00 | 0.35 | 0.00 | 63.33 | 63.40 |
| 63.46 | 128.28 | 4.1057 | 87.32 | 2.61 | 2.99% | 3.136 | 0.77 | 34.14 | 2.52 | 2.89 | 121 | 0.243 | 0.231 | 0.66 | 1.668 | 0.438 | 994.70 | 3.984 | 2.484E+05 | 2.484E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.53 | 0.73 | <= | 1.98 | 0.013 | 0.00 | 0.34 | 0.00 | 63.40 | 63.46 |
| 63.55 | 127.47 | 4.1114 | 66.12 | 2.56 | 3.87% | 4.128 | 0.82 | 25.41 | 2.71 | 4.10 | 135 | 0.310 | 0.310 | 0.66 | 1.671 | 0.437 | 991.43 | 3.959 | 2.483E+05 | 2.483E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.32 | 0.00 | | |
| 63.60 | 126.74 | 4.1146 | 55.87 | 2.45 | 4.39% | 4.734 | 0.85 | 21.19 | 2.82 | 4.97 | 164 | 0.490 | 0.490 | 0.66 | 1.672 | 0.437 | 984.00 | 3.936 | 2.460E+05 | 2.460E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.32 | 0.00 | | |
| 63.69 | 125.66 | 4.1202 | 44.34 | 2.29 | 5.16% | 5.694 | 0.90 | 16.45 | 2.97 | 6.40 | 211 | 0.958 | 0.958 | 0.66 | 1.675 | 0.437 | 972.57 | 3.902 | 2.424E+05 | 2.424E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.32 | 0.00 | | |
| 63.74 | 125.19 | 4.1234 | 39.56 | 2.23 | 5.64% | 6.293 | 0.92 | 14.48 | 3.05 | 7.26 | 240 | 1.360 | 1.360 | 0.66 | 1.677 | 0.437 | 968.08 | 3.888 | 2.411E+05 | 2.411E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.32 | 0.00 | | |
| 63.82 | 124.34 | 4.1283 | 35.36 | 2.06 | 5.83% | 6.596 | 0.94 | 12.75 | 3.11 | 7.99 | 264 | 1.787 | 1.787 | 0.66 | 1.679 | 0.436 | 954.67 | 3.861 | 2.360E+05 | 2.360E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.32 | 0.00 | | |
| 63.87 | 124.44 | 4.1315 | 38.97 | 2.02 | 5.18% | 5.798 | 0.92 | 14.22 | 3.03 | 7.04 | 232 | 1.247 | 1.247 | 0.66 | 1.681 | 0.436 | 951.35 | 3.865 | 2.342E+05 | 2.342E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.32 | 0.00 | | |
| 63.92 | 124.22 | 4.1346 | 33.99 | 2.05 | 6.03% | 6.866 | 0.95 | 12.17 | 3.13 | 8.37 | 276 | 2.037 | 2.037 | 0.66 | 1.682 | 0.436 | 953.84 | 3.858 | 2.358E+05 | 2.358E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.32 | 0.00 | | |
| 63.98 | 124.82 | 4.1383 | 38.38 | 2.13 | 5.55% | 6.220 | 0.92 | 13.95 | 3.05 | 7.38 | 243 | 1.421 | 1.421 | 0.66 | 1.684 | 0.436 | 960.32 | 3.876 | 2.379E+05 | 2.379E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.32 | 0.00 | | |
| 64.05 | 125.59 | 4.1427 | 43.76 | 2.27 | 5.19% | 5.730 | 0.90 | 16.13 | 2.98 | 6.50 | 214 | 0.997 | 0.997 | 0.66 | 1.686 | 0.435 | 971.09 | 3.900 | 2.418E+05 | 2.418E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.32 | 0.00 | | |
| 64.13 | 127.40 | 4.1478 | 65.15 | 2.54 | 3.90% | 4.164 | 0.83 | 24.81 | 2.72 | 4.18 | 138 | 0.324 | 0.324 | 0.65 | 1.689 | 0.435 | 990.10 | 3.957 | 2.478E+05 | 2.478E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.32 | 0.00 | | |
| 64.18 | 128.14 | 4.1510 | 76.08 | 2.67 | 3.51% | 3.712 | 0.80 | 29.23 | 2.63 | 3.52 | 123 | 0.251 | 0.251 | 0.65 | 1.690 | 0.435 | 998.54 | 3.980 | 2.506E+05 | 2.506E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.32 | 0.00 | | |
| 64.24 | 129.49 | 4.1549 | 99.43 | 2.95 | 2.97% | 3.096 | 0.75 | 38.69 | 2.48 | 2.65 | 127 | 0.270 | 0.223 | 0.65 | 1.692 | 0.434 | 1015.41 | 4.021 | 2.564E+05 | 2.564E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.52 | 0.71 | <= | 1.90 | 0.006 | 0.00 | 0.32 | 0.00 | 64.18 | 64.24 |
| 64.32 | 130.60 | 4.1601 | 125.90 | 3.17 | 2.52% | 2.604 | 0.71 | 49.38 | 2.34 | 2.07 | 131 | 0.291 | 0.291 | 0.65 | 1.695 | 0.434 | 1027.58 | 4.056 | 2.603E+05 | 2.603E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.68 | 0.93 | <= | 0.79 | 0.005 | 0.00 | 0.32 | 0.00 | 64.24 | 64.32 |
| 64.40 | 130.91 | 4.1653 | 145.43 | 3.16 | 2.17% | 2.237 | 0.68 | 57.24 | 2.24 | 1.76 | 133 | 0.298 | 0.298 | 0.65 | 1.697 | 0.434 | 1027.05 | 4.066 | 2.595E+05 | 2.595E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.69 | 0.96 | <= | 0.86 | 0.003 | 0.00 | 0.31 | 0.00 | 64.32 | 64.40 |
| 64.45 | 130.87 | 4.1686 | 153.05 | 3.08 | 2.01% | 2.069 | 0.67 | 60.28 | 2.19 | 1.65 | 133 | 0.297 | 0.297 | 0.65 | 1.699 | 0.433 | 1022.71 | 4.064 | 2.573E+05 | 2.573E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.69 | 0.95 | <= | 0.86 | 0.002 | 0.00 | 0.31 | 0.00 | 64.40 | 64.45 |
| 64.54 | 130.39 | 4.1745 | 158.13 | 2.86 | 1.81% | 1.858 | 0.65 | 62.26 | 2.15 | 1.54 | 130 | 0.284 | 0.284 | 0.65 | 1.702 | 0.433 | 1010.17 | 4.049 | 2.520E+05 | 2.520E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.66 | 0.91 | <= | 0.73 | 0.006 | 0.00 | 0.31 | 0.00 | 64.45 | 64.54 |
| 64.58 | 130.89 | 4.1771 | 158.52 | 3.06 | 1.93% | 1.983 | 0.66 | 62.38 | 2.17 | 1.59 | 133 | 0.300 | 0.300 | 0.65 | 1.703 | 0.433 | 1021.61 | 4.065 | 2.568E+05 | 2.568E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.70 | 0.96 | <= | 0.89 | 0.002 | 0.00 | 0.30 | 0.00 | 64.54 | 64.58 |
| 64.66 | 132.01 | 4.1824 | 156.56 | 3.58 | 2.29% | 2.349 | 0.68 | 61.52 | 2.23 | 1.74 | 141 | 0.343 | 0.343 | 0.65 | 1.705 | 0.432 | 1048.16 | 4.100 | 2.680E+05 | 2.680E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.80 | 1.10 | <= | 0.32 | 0.000 | 0.00 | 0.30 | 0.00 | 64.58 | 64.66 |
| 64.70 | 132.41 | 4.1850 | 161.55 | 3.74 | 2.32% | 2.377 | 0.67 | 63.49 | 2.22 | 1.72 | 145 | 0.363 | 0.363 | 0.65 | 1.707 | 0.432 | 1055.55 | 4.112 | 2.710E+05 | 2.710E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.85 | 1.17 | <= | 0.39 | 0.000 | 0.00 | 0.30 | 0.00 | 64.66 | 64.70 |
| 64.80 | 132.99 | 4.1917 | 169.65 | 3.98 | 2.35% | 2.405 | 0.67 | 66.67 | 2.21 | 1.69 | 150 | 0.393 | 0.393 | 0.65 | 1.710 | 0.432 | 1066.07 | 4.130 | 2.752E+05 | 2.752E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.92 | 1.27 | <= | 0.27 | 0.000 | 0.00 | 0.30 | 0.00 | 64.70 | 64.80 |
| 64.84 | 131.94 | 4.1943 | 174.83 | 3.42 | 1.96% | 2.004 | 0.65 | 68.71 | 2.14 | 1.53 | 142 | 0.348 | 0.348 | 0.65 | 1.711 | 0.432 | 1040.42 | 4.098 | 2.642E+05 | 2.642E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.81 | 1.12 | <= | 0.34 | 0.000 | 0.00 | 0.30 | 0.00 | 64.80 | 64.84 |
| 64.93 | 130.05 | 4.2002 | 177.66 | 2.62 | 1.47% | 1.510 | 0.62 | 69.76 | 2.04 | 1.35 | 132 | 0.292 | 0.292 | 0.65 | 1.714 | 0.431 | 995.35 | 4.039 | 2.453E+05 | 2.453E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.68 | 0.94 | <= | 0.82 | 0.004 | 0.00 | 0.30 | 0.00 | 64.84 | 64.93 |
| 64.98 | 130.21 | 4.2034 | 169.85 | 2.72 | 1.60% | 1.642 | 0.63 | 66.58 | 2.08 | 1.42 | 130 | 0.287 | 0.287 | 0.65 | 1.715 | 0.431 | 1001.68 | 4.044 | 2.481E+05 | 2.481E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.67 | 0.92 | <= | 0.77 | 0.002 | 0.00 | 0.30 | 0.00 | 64.93 | 64.98 |
| 65.03 | 130.29 | 4.2067 | 153.15 | 2.85 | 1.86% | 1.913 | 0.66 | 59.82 | 2.17 | 1.59 | 128 | 0.277 | 0.277 | 0.65 | 1.717 | 0.431 | 1009.58 | 4.046 | 2.519E+05 | 2.519E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.65 | 0.89 | <= | 1.83 | 0.003 | 0.00 | 0.29 | 0.00 | 64.98 | 65.03 |
| 65.10 | 130.30 | 4.2112 | 136.44 | 2.96 | 2.17% | 2.239 | 0.69 | 53.06 | 2.26 | 1.83 | 128 | 0.273 | 0.273 | 0.65 | 1.719 | 0.430 | 1015.99 | 4.047 | 2.551E+05 | 2.551E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.64 | 0.88 | <= | 1.75 | 0.004 | 0.00 | 0.29 | 0.00 | 65.03 | 65.10 |
| 65.16 | 130.04 | 4.2151 | 123.75 | 2.96 | 2.39% | 2.476 | 0.71 | 47.93 | 2.33 | 2.04 | 127 | 0.268 | 0.152 | 0.65 | 1.721 | 0.430 | 1015.99 | 4.039 | 2.556E+05 | 2.556E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.36 | 0.49 | <= | 1.91 | 0.006 | 0.00 | 0.29 | 0.00 | 65.10 | 65.16 |
| 65.24 | 130.05 | 4.2203 | 131.76 | 2.90 | 2.20% | 2.274 | 0.69 | 51.08 | 2.28 | 1.88 | 126 | 0.265 | 0.265 | 0.65 | 1.723 | 0.430 | 1012.52 | 4.039 | 2.538E+05 | 2.538E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.62 | 0.86 | <= | 1.58 | 0.008 | 0.00 | 0.28 | 0.00 | 65.16 | 65.24 |
| 65.30 | 130.22 | 4.2243 | 140.94 | 2.90 | 2.06% | 2.121 | 0.68 | 54.71 | 2.23 | 1.75 | 127 | 0.270 | 0.270 | 0.65 | 1.725 | 0.430 | 1012.52 | 4.044 | 2.535E+05 | 2.535E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.64 | 0.87 | <= | 1.69 | 0.003 | 0.00 | 0.27 | 0.00 | 65.24 | 65.30 |
| 65.36 | 130.47 | 4.2282 | 154.42 | 2.91 | 1.88% | 1.938 | 0.66 | 60.05 | 2.17 | 1.60 | 129 | 0.281 | 0.281 | 0.64 | 1.727 | 0.429 | 1013.10 | 4.052 | 2.533E+05 | 2.533E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.66 | 0.91 | <= | 0.73 | 0.004 | 0.00 | 0.27 | 0.00 | 65.30 | 65.36 |
| 65.43 | 130.72 | 4.2327 | 180.59 | 2.86 | 1.58% | 1.622 | 0.63 | 70.45 | 2.06 | 1.38 | 135 | 0.311 | 0.311 | 0.64 | 1.729 | 0.429 | 1010.17 | 4.060 | 2.514E+05 | 2.514E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.73 | 1.01 | <= | 0.47 | 0.002 | 0.00 | 0.27 | 0.00 | 65.36 | 65.43 |
| 65.50 | 130.63 | 4.2373 | 200.61 | 2.73 | 1.36% | 1.390 | 0.60 | 78.37 | 1.97 | 1.26 | 141 | 0.340 | 0.340 | 0.64 | 1.732 | 0.429 | 1002.30 | 4.057 | 2.476E+05 | 2.476E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.80 | 1.10 | <= | 0.32 | 0.000 | 0.00 | 0.26 | 0.00 | 65.43 | 65.50 |
| 65.59 | 130.11 | 4.2432 | 211.65 | 2.50 | 1.18% | 1.205 | 0.58 | 82.67 | 1.91 | 1.19 | 143 | 0.352 | 0.352 | 0.64 | 1.734 | 0.428 | 987.41 | 4.041 | 2.413E+05 | 2.413E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.83 | 1.14 | <= | 0.36 | 0.000 | 0.00 | 0.26 | 0.00 | 65.50 | 65.59 |
| 65.62 | 129.79 | 4.2451 | 215.36 | 2.38 | 1.11% | 1.127 | 0.57 | 84.12 | 1.88 | 1.17 | 143 | 0.354 | 0.354 | 0.64 | 1.735 | 0.428 | 979.09 | 4.031 | 2.378E+05 | 2.378E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | | 0.84 | 1.15 | <= | 0.37 | 0.000 | 0.00 | 0.26 | 0.00 | 65.59 | 65.62 |
| 65.69 | 129.15 | 4.2496 | 219.17 | 2.17 | 0.99% | 1.010 | 0.56 | 85.55 | 1.84 | 1.13 | 143 | 0.353 | 0.353 | 0.64 | 1.738 | 0.428 | 963.47 | 4.011 | 2.314E+05 | 2.314E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.83 | 1.15 | <= | 0.37 | 0.000 | 0.00 | 0.26 | 0.00 | 65.62 | 65.69 |
| 65.75 | 128.74 | 4.2535 | 225.03 | 2.03 | 0.90% | 0.919 | 0.55 | 87.82 | 1.80 | 1.10 | 145 | 0.362 | 0.362 | 0.64 | 1.739 | 0.427 | 952.19 | 3.998 | 2.268E+05 | 2.268E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.86 | 1.18 | <= | 0.40 | 0.000 | 0.00 | 0.26 | 0.00 | 65.69 | 65.75 |
| 65.82 | 128.47 | 4.2580 | 224.74 | 1.96 | 0.87% | 0.889 | 0.54 | 87.62 | 1.79 | 1.10 | 144 | 0.357 | 0.357 | 0.64 | 1.742 | 0.427 | 946.25 | 3.990 | 2.244E+05 | 2.244E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | | 0.84 | 1.16 | <= | 0.39 | 0.000 | 0.00 | 0.26 | 0.00 | 65.75 | 65.82 |
| 65.91 | 128.34 | 4.2638 | 217.02 | 1.95 | 0.90% | 0.917 | 0.55 | 84.45 | 1.81 | 1.11 | 140 | 0.335 | 0.335 | 0.64 | 1.744 | 0.427 | 945.38 | 3.986 | 2.242E+05 | 2.242E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.79 | 1.09 | <= | 0.63 | 0.000 | 0.00 | 0.26 | 0.00 | 65.82 | 65.91 |
| 65.95 | 128.22 | 4.2663 | 210.77 | 1.93 | 0.92% | 0.935 | 0.56 | 81.92 | 1.83 | 1.13 | 137 | 0.318 | 0.318 | 0.64 | 1.746 | 0.427 | 943.64 | 3.982 | 2.236E+05 | 2.236E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.75 | 1.04 | <= | 0.53 | 0.000 | 0.00 | 0.26 | 0.00 | 65.91 | 65.95 |
| 66.04 | 127.89 | 4.2721 | 197.58 | 1.89 | 0.96% | 0.978 | 0.57 | 76.60 | 1.87 | 1.16 | 130 | 0.285 | 0.285 | 0.64 | 1.748 | 0.426 | 940.10 | 3.972 | 2.225E+05 | 2.225E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.68 | 0.93 | <= | 0.79 | 0.004 | 0.00 | 0.26 | 0.00 | 65.95 | 66.04 |
| 66.08 | 127.72 | 4.2746 | 191.24 | 1.86 | 0.97% | 0.995 | 0.57 | 74.05 | 1.88 | 1.17 | 127 | 0.270 | 0.270 | 0.64 | 1.750 | 0.426 | 937.39 | 3.966 | 2.215E+05 | 2.215E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.64 | 0.88 | <= | 1.37 | 0.001 | 0.00 | 0.26 | 0.00 | 66.04 | 66.08 |
| 66.17 | 127.40 | 4.2804 | 181.08 | 1.82 | 1.01% | 1.029 | 0.58 | 69.94 | 1.91 | 1.20 | 122 | 0.248 | 0.248 | 0.64 | 1.753 | 0.426 | 933.71 | 3.957 | 2.204E+05 | 2.204E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.59 | 0.81 | <= | 1.19 | 0.005 | 0.00 | 0.26 | 0.00 | 66.08 | 66.17 |
| 66.21 | 127.24 | 4.2829 | 177.56 | 1.79 | 1.01% | 1.033 | 0.58 | 68.51 | 1.92 | 1.21 | 120 | 0.241 | 0.241 | 0.64 | 1.754 | 0.425 | 930.90 | 3.952 | 2.193E+05 | 2.193E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.57 | 0.79 | <= | 1.93 | 0.004 | 0.00 | 0.25 | 0.00 | 66.17 | 66.21 |
| 66.29 | 127.06 | 4.2880 | 173.66 | 1.76 | 1.01% | 1.039 | 0.59 | 66.90 | 1.93 | 1.22 | 118 | 0.232 | 0.232 | 0.64 | 1.756 | 0.425 | 928.04 | 3.946 | 2.183E+05 | 2.183E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.55 | 0.76 | <= | 1.86 | 0.007 | 0.00 | 0.25 | 0.00 | 66.21 | 66.29 |
| 66.34 | 127.03 | 4.2912 | 173.07 | 1.75 | 1.01% | 1.037 | 0.59 | 66.62 | 1.93 | 1.22 | 117 | 0.231 | 0.231 | 0.64 | 1.758 | 0.425 | 927.08 | 3.945 | 2.179E+05 | 2.179E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.55 | 0.76 | <= | 1.84 | 0.004 | 0.00 | 0.24 | 0.00 | 66.29 | 66.34 |
| 66.42 | 126.91 | 4.2963 | 172.58 | 1.73 | 1.00% | 1.028 | 0.59 | 66.36 | 1.93 | 1.22 | 117 | 0.229 | 0.229 | 0.64 | 1.760 | 0.424 | 925.13 | 3.941 | 2.172E+05 | 2.172E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.55 | 0.75 | <= | 1.83 | 0.007 | 0.00 | 0.24 | 0.00 | 66.34 | 66.42 |
| 66.49 | 126.76 | 4.3007 | 170.73 | 1.70 | 1.00% | 1.021 | 0.59 | 65.57 | 1.93 | 1.22 | 116 | 0.224 | 0.224 | 0.64 | 1.762 | 0.424 | 922.18 | 3.937 | 2.160E+05 | 2.160E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.53 | 0.74 | <= | 1.79 | 0.005 | 0.00 | 0.23 | 0.00 | 66.42 | 66.49 |
| 66.55 | 126.65 | 4.3045 | 166.62 | 1.69 | 1.01% | 1.041 | 0.59 | 63.90 | 1.95 | 1.24 | 114 | 0.218 | 0.218 | 0.63 | 1.764 | 0.424 | 921.18 | 3.933 | 2.157E+05 | 2.157E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 0.52 | 0.71 | <= | 1.74 | 0.008 | 0.00 | 0.22 | 0.00 | 66.49 | 66.55 |
| 66.62 | 126.63 | 4.3089 | 159.88 | 1.70 | 1.06% | 1.093 | 0.60 | 61.19 | 1.98 | 1.27 | 111 | 0.208 | 0.208 | 0.63 | 1.767 | 0.424 | 922.18 | 3.933 | 2.162E+05 | 2.162E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 0.50 | 0.68 | <= | 2.12 | 0.009 | 0.00 | 0.22 | 0.00 | 66.55 | 66.62 |
| 66.68 | 126.62 | 4.3127 | 151.68 | 1.73 | 1.14% | 1.174 | 0.61 | 57.92 | 2.02 | 1.33 | 109 | 0.200 | 0.215 | 0.63 | 1.768 | 0.423 | 925.13 | 3.932 | 2.177E+05 | 2.177E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 0.51 | 0.71 | <= | 2.16 | 0.013 | 0.00 | 0.21 | 0.00 | 66.62 | 66.68 |
| 66.74 | 126.91 | 4.3165 | 142.21 | 1.84 | 1.29% | 1.334 | 0.63 | 54.16 | 2.09 | 1.43 | 107 | 0.195 | 0.227 | 0.63 | 1.770 | 0.423 | 935.56 | 3.941 | 2.221E+05 | 2.221E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 0.54 | 0.75 | <= | 2.18 | 0.012 | 0.00 | 0.19 | 0.00 | 66.68 | 66.74 |
| 66.83 | 127.60 | 4.3223 | 124.92 | 2.11 | 1.69% | 1.750 | 0.67 | 47.31 | 2.22 | 1.71 | 109 | 0.199 | 0.137 | 0.63 | 1.773 | 0.423 | 958.72 | 3.963 | 2.319E+05 | 2.319E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 0.33 | 0.45 | <= | 2.16 | 0.017 | 0.00 | 0.18 | 0.00 | 66.74 | 66.83 |
| 66.89 | 128.11 | 4.3261 | 114.57 | 2.33 | 2.03% | 2.113 | 0.70 | 43.21 | 2.31 | 1.98 | 112 | 0.211 | 0.163 | 0.63 | 1.775 | 0.422 | 975.50 | 3.979 | 2.392E+05 | 2.392E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 0.39 | 0.54 | <= | 2.10 | 0.013 | 0.00 | 0.17 | 0.00 | 66.83 | 66.89 |
| 66.93 | 128.35 | 4.3287 | 101.87 | 2.51 | 2.46% | 2.573 | 0.73 | 38.21 | 2.42 | 2.38 | 116 | 0.224 | 0.190 | 0.63 | 1.776 | 0.422 | 988.09 | 3.986 | 2.449E+05 | 2.449E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 0.46 | 0.63 | <= | 2.05 | 0.005 | 0.00 | 0.15 | 0.00 | 66.89 | 66.93 |
| 67.02 | 126.57 | 4.3344 | 74.52 | 2.18 | 2.93% | 3.106 | 0.79 | 27.47 | 2.59 | 3.29 | 109 | 0.202 | 0.202 | 0.63 | 1.779 | 0.422 | 964.25 | 3.931 | 2.365E+05 | 2.365E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | | 0.48 | 0.67 | <= | 2.15 | 0.021 | 0.00 | 0.15 | 0.00 | 66.93 | 67.02 |
| 67.07 | 125.85 | 4.3375 | 59.09 | 2.13 | 3.60% | 3.890 | 0.83 | 21.41 | 2.75 | 4.40 | 145 | 0.364 | 0.364 | 0.63 | 1.781 | 0.421 | 960.32 | 3.908 | 2.360E+05 | 2.360E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.16 | 124.83 | 4.3431 | 47.86 | 1.99 | 4.16% | 4.573 | 0.87 | 17.00 | 2.89 | 5.57 | 184 | 0.657 | 0.657 | 0.63 | 1.783 | 0.421 | 948.82 | 3.877 | 2.322E+05 | 2.322E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.20 | 124.47 | 4.3456 | 43.95 | 1.95 | 4.44% | 4.924 | 0.89 | 15.46 | 2.94 | 6.14 | 203 | 0.853 | 0.853 | 0.63 | 1.785 | 0.421 | 945.38 | 3.866 | 2.312E+05 | 2.312E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.28 | 124.04 | 4.3506 | 38.77 | 1.92 | 4.95% | 5.578 | 0.92 | 13.43 | 3.03 | 7.13 | 235 | 1.289 | 1.289 | 0.63 | 1.787 | 0.421 | 942.76 | 3.852 | 2.307E+05 | 2.307E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.35 | 123.85 | 4.3549 | 37.11 | 1.89 | 5.09% | 5.770 | 0.93 | 12.77 | 3.06 | 7.47 | 246 | 1.470 | 1.470 | 0.63 | 1.789 | 0.420 | 940.10 | 3.846 | 2.298E+05 | 2.298E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.39 | 123.76 | 4.3574 | 37.21 | 1.87 | 5.03% | 5.692 | 0.93 | 12.80 | 3.06 | 7.40 | 244 | 1.436 | 1.436 | 0.63 | 1.791 | 0.420 | 938.30 | 3.843 | 2.291E+05 | 2.291E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.47 | 123.48 | 4.3623 | 35.36 | 1.83 | 5.18% | 5.904 | 0.94 | 12.06 | 3.09 | 7.80 | 257 | 1.667 | 1.667 | 0.63 | 1.793 | 0.420 | 934.64 | 3.835 | 2.278E+05 | 2.278E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.53 | 123.24 | 4.3660 | 32.82 | 1.81 | 5.51% | 6.361 | 0.95 | 11.07 | 3.14 | 8.50 | 280 | 2.130 | 2.130 | 0.63 | 1.795 | 0.419 | 932.78 | 3.827 | 2.273E+05 | 2.273E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.60 | 123.23 | 4.3704 | 32.96 | 1.81 | 5.49% | 6.331 | 0.95 | 11.11 | 3.14 | 8.46 | 279 | 2.103 | 2.103 | 0.63 | 1.797 | 0.419 | 932.78 | 3.827 | 2.274E+05 | 2.274E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.66 | 123.27 | 4.3740 | 31.74 | 1.84 | 5.80% | 6.724 | 0.96 | 10.63 | 3.18 | 8.92 | 294 | 2.454 | 2.454 | 0.63 | 1.799 | 0.419 | 935.56 | 3.828 | 2.286E+05 | 2.286E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.75 | 123.42 | 4.3796 | 33.11 | 1.85 | 5.59% | 6.439 | 0.95 | 11.15 | 3.15 | 8.51 | 281 | 2.141 | 2.141 | 0.63 | 1.802 | 0.418 | 936.48 | 3.833 | 2.288E+05 | 2.288E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.79 | 123.61 | 4.3821 | 33.99 | 1.88 | 5.53% | 6.350 | 0.95 | 11.48 | 3.13 | 8.31 | 274 | 2.001 | 2.001 | 0.62 | 1.803 | 0.418 | 939.20 | 3.839 | 2.298E+05 | 2.298E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.86 | 123.99 | 4.3864 | 34.28 | 1.98 | 5.78% | 6.623 | 0.95 | 11.58 | 3.14 | 8.44 | 279 | 2.091 | 2.091 | 0.62 | 1.805 | 0.418 | 947.97 | 3.851 | 2.334E+05 | 2.334E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.92 | 124.18 | 4.3901 | 33.79 | 2.04 | 6.04% | 6.939 | 0.96 | 11.38 | 3.16 | 8.72 | 288 | 2.294 | 2.294 | 0.62 | 1.807 | 0.418 | 953.02 | 3.857 | 2.355E+05 | 2.355E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 67.98 | 124.66 | 4.3939 | 34.23 | 2.16 | 6.31% | 7.240 | 0.96 | 11.54 | 3.17 | 8.83 | 291 | 2.379 | 2.379 | 0.62 | 1.809 | 0.417 | 962.69 | 3.871 | 2.394E+05 | 2.394E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 68.06 | 125.88 | 4.3989 | 34.18 | 2.56 | 7.49% | 8.596 | 0.98 | 11.51 | 3.22 | 9.59 | 317 | 3.032 | 3.032 | 0.62 | 1.811 | 0.417 | 991.43 | 3.909 | 2.514E+05 | 2.514E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 68.12 | 126.71 | 4.4027 | 37.41 | 2.78 | 7.43% | 8.422 | 0.96 | 12.75 | 3.18 | 9.00 | 297 | 2.515 | 2.515 | 0.62 | 1.813 | 0.417 | 1005.37 | 3.935 | 2.569E+05 | 2.569E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 68.19 | 126.90 | 4.4072 | 40.92 | 2.77 | 6.77% | 7.586 | 0.94 | 14.09 | 3.11 | 8.09 | 267 | 1.851 | 1.851 | 0.62 | 1.816 | 0.416 | 1004.76 | 3.941 | 2.562E+05 | 2.562E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 68.28 | 126.62 | 4.4129 | 44.54 | 2.59 | 5.81% | 6.454 | 0.92 | 15.47 | 3.03 | 7.07 | 233 | 1.259 | 1.259 | 0.62 | 1.818 | 0.416 | 993.40 | 3.932 | 2.510E+05 | 2.510E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 68.31 | 126.56 | 4.4148 | 48.05 | 2.51 | 5.22% | 5.752 | 0.90 | 16.81 | 2.96 | 6.33 | 209 | 0.929 | 0.929 | 0.62 | 1.819 | 0.416 | 988.09 | 3.930 | 2.484E+05 | 2.484E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 68.39 | 126.57 | 4.4198 | 67.00 | 2.25 | 3.36% | 3.595 | 0.81 | 24.09 | 2.69 | 3.89 | 128 | 0.277 | 0.277 | 0.62 | 1.822 | 0.415 | 969.59 | 3.931 | 2.392E+05 | 2.392E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.13 | 0.00 | | |
| 68.46 | 126.66 | 4.4243 | 93.27 | 2.04 | 2.19% | 2.296 | 0.73 | 34.17 | 2.42 | 2.39 | 104 | 0.185 | 0.177 | 0.62 | 1.824 | 0.415 | 953.02 | 3.934 | 2.309E+05 | 2.309E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | | 0.43 | 0.59 | <= | 2.23 | 0.016 | 0.00 | 0.13 | 0.00 | 68.39 | 68.46 |
| 68.50 | 126.69 | 4.4268 | 109.59 | 1.95 | 1.78% | 1.854 | 0.70 | 40.42 | 2.29 | 1.92 | 103 | 0.181 | 0.156 | 0.62 | 1.825 | 0.415 | 945.38 | 3.934 | 2.272E+05 | 2.272E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | | 0.38 | 0.52 | <= | 2.26 | 0.009 | 0.00 | 0.11 | 0.00 | 68.46 | 68.50 |
| 68.59 | 125.19 | 4.4324 | 117.11 | 1.55 | 1.32% | 1.376 | 0.66 | 43.26 | 2.17 | 1.61 | 95 | 0.160 | 0.250 | 0.62 | 1.828 | 0.415 | 906.55 | 3.888 | 2.114E+05 | 2.114E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | | 0.61 | 0.84 | <= | 1.95 | 0.021 | 0.00 | 0.10 | 0.00 | 68.50 | 68.59 |
| 68.64 | 123.82 | 4.4355 | 114.66 | 1.30 | 1.13% | 1.179 | 0.65 | 42.30 | 2.14 | 1.53 | 89 | 0.146 | 0.249 | 0.62 | 1.830 | 0.414 | 876.80 | 3.845 | 1.999E+05 | 1.999E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | | 0.61 | 0.84 | <= | 2.07 | 0.012 | 0.00 | 0.08 | 0.00 | 68.59 | 68.64 |
| 68.73 | 123.47 | 4.4411 | 108.22 | 1.26 | 1.16% | 1.214 | 0.66 | 39.78 | 2.17 | 1.60 | 87 | 0.141 | 0.250 | 0.62 | 1.832 | 0.414 | 871.51 | 3.834 | 1.981E+05 | 1.981E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | | 0.61 | 0.84 | <= | 2.58 | 0.024 | 0.00 | 0.07 | 0.00 | 68.64 | 68.73 |
| 68.77 | 123.78 | 4.4435 | 102.55 | 1.34 | 1.31% | 1.366 | 0.68 | 37.59 | 2.23 | 1.73 | 88 | 0.143 | 0.137 | 0.62 | 1.834 | 0.414 | 881.92 | 3.844 | 2.023E+05 | 2.023E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | | 0.33 | 0.46 | <= | 2.56 | 0.011 | 0.00 | 0.04 | 0.00 | 68.73 | 68.77 |
| 68.86 | 125.09 | 4.4492 | 93.47 | 1.65 | 1.77% | 1.853 | 0.71 | 34.07 | 2.35 | 2.13 | 95 | 0.159 | 0.157 | 0.62 | 1.836 | 0.413 | 917.13 | 3.885 | 2.165E+05 | 2.165E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | | 0.38 | 0.53 | <= | 2.41 | 0.023 | 0.00 | 0.03 | 0.00 | 68.77 | 68.86 |
| 68.90 | 125.94 | 4.4517 | 87.51 | 1.90 | 2.17% | 2.288 | 0.74 | 31.77 | 2.44 | 2.50 | 101 | 0.175 | 0.178 | 0.62 | 1.838 | 0.413 | 940.99 | 3.911 | 2.264E+05 | 2.264E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | | 0.43 | 0.60 | <= | 2.29 | 0.010 | 0.00 | 0.01 | 0.00 | 68.86 | 68.90 |
| 69.00 | 126.80 | 4.4580 | 70.71 | 2.29 | 3.24% | 3.457 | 0.80 | 25.31 | 2.65 | 3.68 | 121 | 0.246 | 0.246 | 0.62 | 1.841 | 0.413 | 972.57 | 3.938 | 2.402E+05 | 2.402E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.04 | 126.81 | 4.4606 | 66.22 | 2.34 | 3.53% | 3.789 | 0.82 | 23.59 | 2.71 | 4.06 | 134 | 0.304 | 0.304 | 0.61 | 1.842 | 0.413 | 976.23 | 3.938 | 2.420E+05 | 2.420E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.13 | 126.00 | 4.4662 | 57.82 | 2.19 | 3.79% | 4.105 | 0.84 | 20.35 | 2.79 | 4.67 | 154 | 0.421 | 0.421 | 0.61 | 1.845 | 0.412 | 965.02 | 3.913 | 2.380E+05 | 2.380E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.19 | 124.87 | 4.4700 | 52.55 | 1.94 | 3.69% | 4.035 | 0.85 | 18.33 | 2.82 | 4.95 | 163 | 0.485 | 0.485 | 0.61 | 1.847 | 0.412 | 944.51 | 3.878 | 2.300E+05 | 2.300E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.23 | 123.99 | 4.4725 | 49.62 | 1.75 | 3.53% | 3.876 | 0.86 | 17.20 | 2.83 | 5.05 | 167 | 0.509 | 0.509 | 0.61 | 1.848 | 0.412 | 927.08 | 3.851 | 2.232E+05 | 2.232E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.32 | 121.87 | 4.4779 | 39.85 | 1.41 | 3.54% | 3.986 | 0.89 | 13.46 | 2.93 | 5.99 | 198 | 0.800 | 0.800 | 0.61 | 1.851 | 0.411 | 890.54 | 3.785 | 2.095E+05 | 2.095E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.38 | 121.02 | 4.4816 | 33.70 | 1.33 | 3.95% | 4.552 | 0.92 | 11.11 | 3.04 | 7.22 | 238 | 1.336 | 1.336 | 0.61 | 1.853 | 0.411 | 880.66 | 3.758 | 2.064E+05 | 2.064E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.45 | 120.32 | 4.4858 | 29.11 | 1.27 | 4.36% | 5.158 | 0.95 | 9.36 | 3.14 | 8.48 | 280 | 2.118 | 2.118 | 0.61 | 1.855 | 0.411 | 872.85 | 3.737 | 2.039E+05 | 2.039E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.50 | 119.77 | 4.4888 | 26.66 | 1.21 | 4.54% | 5.458 | 0.97 | 8.42 | 3.20 | 9.25 | 305 | 2.723 | 2.723 | 0.61 | 1.856 | 0.410 | 864.66 | 3.720 | 2.010E+05 | 2.010E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.58 | 118.97 | 4.4935 | 25.78 | 1.10 | 4.27% | 5.168 | 0.97 | 8.08 | 3.20 | 9.25 | 305 | 2.722 | 2.722 | 0.61 | 1.859 | 0.410 | 848.54 | 3.695 | 1.949E+05 | 1.949E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.64 | 118.36 | 4.4971 | 25.59 | 1.01 | 3.95% | 4.788 | 0.96 | 8.00 | 3.18 | 8.99 | 297 | 2.511 | 2.511 | 0.61 | 1.861 | 0.410 | 834.10 | 3.676 | 1.893E+05 | 1.893E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.70 | 117.79 | 4.5006 | 25.59 | 0.94 | 3.67% | 4.457 | 0.96 | 7.99 | 3.16 | 8.72 | 288 | 2.296 | 2.296 | 0.61 | 1.863 | 0.410 | 821.95 | 3.658 | 1.847E+05 | 1.847E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.77 | 117.36 | 4.5047 | 25.49 | 0.88 | 3.45% | 4.193 | 0.95 | 7.95 | 3.15 | 8.52 | 281 | 2.147 | 2.147 | 0.61 | 1.865 | 0.409 | 810.79 | 3.645 | 1.804E+05 | 1.804E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.83 | 117.32 | 4.5083 | 25.20 | 0.88 | 3.49% | 4.253 | 0.95 | 7.83 | 3.16 | 8.65 | 285 | 2.242 | 2.242 | 0.61 | 1.867 | 0.409 | 810.79 | 3.643 | 1.804E+05 | 1.804E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.90 | 117.54 | 4.5124 | 25.20 | 0.91 | 3.61% | 4.399 | 0.96 | 7.83 | 3.17 | 8.78 | 290 | 2.343 | 2.343 | 0.61 | 1.869 | 0.409 | 816.46 | 3.650 | 1.826E+05 | 1.826E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.96 | 117.63 | 4.5159 | 25.20 | 0.92 | 3.65% | 4.448 | 0.96 | 7.82 | 3.17 | 8.83 | 291 | 2.379 | 2.379 | 0.61 | 1.871 | 0.408 | 818.31 | 3.653 | 1.833E+05 | 1.833E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.04 | 118.01 | 4.5206 | 25.20 | 0.97 | 3.85% | 4.691 | 0.96 | 7.81 | 3.18 | 9.04 | 298 | 2.548 | 2.548 | 0.61 | 1.873 | 0.408 | 827.26 | 3.665 | 1.867E+05 | 1.867E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.08 | 118.33 | 4.5230 | 26.08 | 1.00 | 3.83% | 4.639 | 0.96 | 8.14 | 3.17 | 8.78 | 290 | 2.342 | 2.342 | 0.61 | 1.874 | 0.408 | 832.41 | 3.675 | 1.886E+05 | 1.886E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.17 | 119.32 | 4.5284 | 27.05 | 1.13 | 4.18% | 5.017 | 0.96 | 8.50 | 3.17 | 8.86 | 292 | 2.407 | 2.407 | 0.61 | 1.877 | 0.407 | 853.09 | 3.706 | 1.964E+05 | 1.964E+05 | 1.00 | 0.1542 | 0.989 | 0.403 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.23 | 119.93 | 4.5320 | 28.71 | 1.21 | 4.21% | 5.005 | 0.95 | 9.11 | 3.14 | 8.49 | 280 | 2.128 | 2.128 | 0.61 | 1.879 | 0.407 | 864.66 | 3.725 | 2.007E+05 | 2.007E+05 | 1.00 | 0.1542 | 0.989 | 0.403 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.31 | 120.91 | 4.5368 | 30.57 | 1.35 | 4.42% | 5.186 | 0.95 | 9.80 | 3.13 | 8.27 | 273 | 1.971 | 1.971 | 0.60 | 1.882 | 0.407 | 883.18 | 3.755 | 2.077E+05 | 2.077E+05 | 1.00 | 0.1542 | 0.989 | 0.403 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.36 | 121.54 | 4.5398 | 32.62 | 1.44 | 4.41% | 5.128 | 0.94 | 10.57 | 3.10 | 7.87 | 260 | 1.709 | 1.709 | 0.60 | 1.883 | 0.407 | 894.10 | 3.775 | 2.118E+05 | 2.118E+05 | 1.00 | 0.1542 | 0.989 | 0.402 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.43 | 87.42 | 4.5429 | 34.77 | 0.00 | 0.00% | 0.003 | 0.80 | 11.37 | 2.65 | 3.67 | 121 | 0.245 | 0.245 | 0.60 | 1.885 | 0.406 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.402 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.49 | 87.42 | 4.5455 | 36.92 | 0.00 | 0.00% | 0.003 | 0.80 | 12.18 | 2.64 | 3.58 | 118 | 0.233 | 0.233 | 0.60 | 1.887 | 0.406 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.402 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.57 | 87.42 | 4.5490 | 38.97 | 0.00 | 0.00% | 0.003 | 0.80 | 12.94 | 2.63 | 3.51 | 116 | 0.224 | 0.224 | 0.60 | 1.890 | 0.406 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.402 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.62 | 87.42 | 4.5512 | 40.44 | 0.00 | 0.00% | 0.003 | 0.79 | 13.49 | 2.62 | 3.46 | 114 | 0.219 | 0.219 | 0.60 | 1.891 | 0.406 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.401 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.70 | 87.42 | 4.5547 | 42.58 | 0.00 | 0.00% | 0.003 | 0.79 | 14.29 | 2.61 | 3.40 | 112 | 0.211 | 0.211 | 0.60 | 1.894 | 0.405 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.401 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.74 | 87.42 | 4.5480 | 43.07 | 0.00 | 0.00% | 0.003 | 0.79 | 14.52 | 2.61 | 3.38 | 112 | 0.209 | 0.209 | 0.60 | 1.895 | 0.406 | -336.11 | 2.715 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.402 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |

a. Per $(N1)_{60CS}$ improvement correlation stipulated in Shenthan et.al (2006).

b. Vs = 118.8 $\log_{10}$ (fs) + 18.5; Vs in m/sec and fs in kilopascals.

c. Per the Rrd - Ar correlation stipulated in Rayamajhi et.al (2012)

d. CSR*= CSR x Rrd

| | |
|---|---|
| Total Wet Settlement (in) | 3.56 |
| Total Wet Settlement with Vibro Stone Columns within 50' Depth (in) | 2.12 |
| Total Dry Settlement with Vibro Stone Columns (in) * | 0.00 |

* Based on 5 ft OX

**LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA** TEST LOCATION: **CPT-5**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 Unit Tributary Area, A ($ft^2$): 45.83 Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 Magnitude: 6.62 Magnitude Scaling Factor: 1.38 Discrete Coumn Dia. (ft): 3.0 Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 $A_R = A_{sc}/A$: 0.154 Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet Accleration: 0.606 g's Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0.00 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0.07 | 105.62 | 0.0037 | 9.96 | 0.24 | 2.41% | 2.411 | 0.59 | 2693.29 | 1.92 | 1.21 | ######### | # | # | 1.00 | 0.000 | 0.394 | 591.00 | 3.280 | 1.065E+05 | 1.065E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 17.96 | **24.71** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.16 | 107.59 | 0.0086 | 14.35 | 0.28 | 1.95% | 1.952 | 0.58 | 1666.21 | 1.89 | 1.18 | 236 | 1.303 | 7.647 | 1.00 | 0.000 | 0.394 | 617.08 | 3.341 | 1.140E+05 | 1.140E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 19.63 | **27.01** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.21 | 108.52 | 0.0113 | 17.86 | 0.30 | 1.68% | 1.681 | 0.56 | 1576.71 | 1.84 | 1.14 | 227 | 1.174 | 5.724 | 1.00 | 0.000 | 0.394 | 628.75 | 3.370 | 1.173E+05 | 1.173E+05 | 1.00 | 0.1542 | 0.989 | 0.390 | | 14.69 | **20.22** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.29 | 109.77 | 0.0157 | 25.97 | 0.31 | 1.19% | 1.194 | 0.52 | 1651.98 | 1.72 | 1.05 | 210 | 0.937 | 3.339 | 1.00 | 0.000 | 0.394 | 634.30 | 3.409 | 1.180E+05 | 1.180E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 8.57 | **11.80** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.34 | 110.37 | 0.0185 | 31.04 | 0.32 | 1.03% | 1.032 | 0.51 | 1679.54 | 1.66 | 1.01 | 202 | 0.847 | 2.636 | 1.00 | 0.000 | 0.394 | 639.67 | 3.428 | 1.194E+05 | 1.194E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 6.77 | **9.32** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.42 | 110.47 | 0.0229 | 35.34 | 0.31 | 0.88% | 0.878 | 0.50 | 1542.97 | 1.61 | 1.00 | 200 | 0.824 | 2.566 | 1.00 | 0.000 | 0.394 | 634.30 | 3.431 | 1.173E+05 | 1.173E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 6.59 | **9.07** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.47 | 110.37 | 0.0256 | 36.61 | 0.30 | 0.82% | 0.820 | 0.50 | 1426.39 | 1.59 | 1.00 | 200 | 0.824 | 2.566 | 1.00 | 0.000 | 0.393 | 628.75 | 3.428 | 1.153E+05 | 1.153E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 6.59 | **9.07** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.55 | 109.82 | 0.0300 | 36.71 | 0.28 | 0.76% | 0.763 | 0.50 | 1220.99 | 1.60 | 1.00 | 200 | 0.824 | 2.566 | 1.00 | 0.000 | 0.393 | 617.08 | 3.411 | 1.116E+05 | 1.116E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 6.59 | **9.07** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.61 | 109.56 | 0.0333 | 36.22 | 0.27 | 0.75% | 0.746 | 0.50 | 1085.78 | 1.61 | 1.00 | 194 | 0.763 | 2.376 | 1.00 | 0.000 | 0.393 | 610.93 | 3.402 | 1.097E+05 | 1.097E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 6.10 | **8.40** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.70 | 109.43 | 0.0383 | 34.27 | 0.27 | 0.79% | 0.789 | 0.51 | 894.90 | 1.66 | 1.01 | 177 | 0.593 | 1.847 | 1.00 | 0.000 | 0.393 | 610.93 | 3.398 | 1.098E+05 | 1.098E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 4.75 | **6.53** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.74 | 109.31 | 0.0404 | 32.61 | 0.27 | 0.83% | 0.829 | 0.51 | 805.41 | 1.69 | 1.03 | 172 | 0.552 | 1.718 | 1.00 | 0.000 | 0.393 | 610.93 | 3.395 | 1.099E+05 | 1.099E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 4.42 | **6.08** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.83 | 108.95 | 0.0453 | 29.09 | 0.27 | 0.93% | 0.930 | 0.54 | 640.58 | 1.76 | 1.08 | 161 | 0.468 | 1.669 | 1.00 | 0.000 | 0.393 | 610.93 | 3.384 | 1.103E+05 | 1.103E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 4.29 | **5.91** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.87 | 109.13 | 0.0475 | 27.04 | 0.28 | 1.04% | 1.037 | 0.55 | 567.98 | 1.81 | 1.11 | 158 | 0.445 | 1.585 | 1.00 | 0.000 | 0.393 | 617.08 | 3.389 | 1.124E+05 | 1.124E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 4.08 | **5.61** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.93 | 109.81 | 0.0508 | 25.19 | 0.32 | 1.27% | 1.273 | 0.57 | 494.69 | 1.88 | 1.17 | 160 | 0.458 | 1.633 | 1.00 | 0.000 | 0.393 | 639.67 | 3.410 | 1.200E+05 | 1.200E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 4.20 | **5.78** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 0.99 | 111.38 | 0.0542 | 24.11 | 0.40 | 1.66% | 1.663 | 0.60 | 444.17 | 1.97 | 1.26 | 171 | 0.541 | 1.929 | 1.00 | 0.000 | 0.393 | 677.41 | 3.459 | 1.327E+05 | 1.327E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 4.96 | **6.83** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.06 | 114.08 | 0.0582 | 23.82 | 0.58 | 2.43% | 2.441 | 0.63 | 408.61 | 2.08 | 1.42 | 201 | 0.832 | 2.967 | 1.00 | 0.000 | 0.393 | 740.27 | 3.543 | 1.547E+05 | 1.547E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 7.63 | **10.50** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.14 | 114.50 | 0.0627 | 25.58 | 0.60 | 2.35% | 2.351 | 0.63 | 406.76 | 2.06 | 1.39 | 199 | 0.815 | 2.537 | 1.00 | 0.000 | 0.393 | 746.00 | 3.556 | 1.565E+05 | 1.565E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 6.53 | **8.98** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.19 | 114.77 | 0.0656 | 28.80 | 0.60 | 2.08% | 2.088 | 0.61 | 438.01 | 2.01 | 1.32 | 197 | 0.791 | 2.465 | 1.00 | 0.000 | 0.393 | 746.00 | 3.564 | 1.561E+05 | 1.561E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 6.34 | **8.73** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.26 | 115.55 | 0.0696 | 33.58 | 0.63 | 1.88% | 1.880 | 0.60 | 481.15 | 1.96 | 1.25 | 201 | 0.833 | 2.289 | 1.00 | 0.000 | 0.393 | 754.26 | 3.589 | 1.585E+05 | 1.585E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 5.89 | **8.10** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.32 | 116.48 | 0.0731 | 37.78 | 0.69 | 1.83% | 1.830 | 0.59 | 515.54 | 1.93 | 1.22 | 210 | 0.936 | 2.281 | 1.00 | 0.000 | 0.393 | 769.64 | 3.617 | 1.638E+05 | 1.638E+05 | 1.00 | 0.1542 | 0.989 | 0.389 | | 5.87 | **8.08** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.41 | 118.12 | 0.0785 | 37.98 | 0.86 | 2.26% | 2.269 | 0.61 | 483.10 | 2.00 | 1.30 | 227 | 1.167 | 2.533 | 1.00 | 0.000 | 0.393 | 806.90 | 3.668 | 1.775E+05 | 1.775E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 6.52 | **8.97** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.45 | 118.97 | 0.0808 | 37.49 | 0.97 | 2.59% | 2.593 | 0.62 | 462.78 | 2.04 | 1.36 | 239 | 1.346 | 2.921 | 1.00 | 0.000 | 0.393 | 827.26 | 3.695 | 1.852E+05 | 1.852E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 7.52 | **10.35** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.53 | 120.05 | 0.0856 | 33.87 | 1.16 | 3.42% | 3.434 | 0.65 | 394.51 | 2.15 | 1.56 | 260 | 1.716 | 3.725 | 1.00 | 0.000 | 0.392 | 857.52 | 3.728 | 1.972E+05 | 1.972E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 9.59 | **13.20** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.58 | 120.46 | 0.0886 | 37.00 | 1.19 | 3.22% | 3.224 | 0.64 | 416.38 | 2.12 | 1.50 | 260 | 1.706 | 3.703 | 1.00 | 0.000 | 0.392 | 861.84 | 3.741 | 1.985E+05 | 1.985E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 9.54 | **13.12** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.65 | 120.55 | 0.0929 | 41.59 | 1.16 | 2.79% | 2.795 | 0.63 | 446.84 | 2.06 | 1.39 | 251 | 1.557 | 3.008 | 1.00 | 0.000 | 0.392 | 857.52 | 3.744 | 1.964E+05 | 1.964E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 7.75 | **10.66** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.72 | 120.40 | 0.0971 | 46.08 | 1.10 | 2.39% | 2.392 | 0.61 | 473.65 | 2.00 | 1.30 | 242 | 1.404 | 2.401 | 1.00 | 0.000 | 0.392 | 848.54 | 3.739 | 1.926E+05 | 1.926E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 6.19 | **8.51** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.81 | 120.42 | 0.1025 | 44.13 | 1.12 | 2.54% | 2.544 | 0.62 | 429.53 | 2.03 | 1.35 | 239 | 1.343 | 2.297 | 1.00 | 0.000 | 0.392 | 851.58 | 3.740 | 1.939E+05 | 1.939E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 5.92 | **8.14** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.85 | 120.28 | 0.1049 | 42.47 | 1.11 | 2.61% | 2.620 | 0.62 | 403.84 | 2.05 | 1.38 | 235 | 1.283 | 2.479 | 1.00 | 0.000 | 0.392 | 850.07 | 3.735 | 1.935E+05 | 1.935E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 6.39 | **8.79** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.94 | 119.68 | 0.1103 | 40.12 | 1.05 | 2.62% | 2.624 | 0.63 | 362.76 | 2.07 | 1.41 | 223 | 1.111 | 2.148 | 1.00 | 0.000 | 0.392 | 840.67 | 3.717 | 1.901E+05 | 1.901E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 5.54 | **7.62** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 1.99 | 119.32 | 0.1133 | 39.34 | 1.00 | 2.54% | 2.549 | 0.63 | 346.30 | 2.07 | 1.41 | 215 | 1.004 | 1.939 | 1.00 | 0.000 | 0.392 | 832.41 | 3.706 | 1.870E+05 | 1.870E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 5.00 | **6.88** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.06 | 118.89 | 0.1174 | 39.54 | 0.94 | 2.38% | 2.384 | 0.63 | 335.69 | 2.06 | 1.38 | 205 | 0.886 | 1.713 | 1.00 | 0.000 | 0.392 | 821.95 | 3.692 | 1.830E+05 | 1.830E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 4.42 | **6.08** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.12 | 118.65 | 0.1210 | 39.63 | 0.91 | 2.30% | 2.303 | 0.62 | 326.53 | 2.05 | 1.38 | 200 | 0.823 | 1.590 | 0.99 | 0.000 | 0.392 | 816.46 | 3.685 | 1.809E+05 | 1.809E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 4.10 | **5.64** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.17 | 118.40 | 0.1240 | 38.85 | 0.89 | 2.29% | 2.298 | 0.63 | 312.42 | 2.06 | 1.39 | 196 | 0.777 | 1.686 | 0.99 | 0.000 | 0.392 | 812.70 | 3.677 | 1.796E+05 | 1.796E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 4.35 | **5.98** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.25 | 118.16 | 0.1287 | 36.80 | 0.87 | 2.36% | 2.372 | 0.63 | 284.98 | 2.09 | 1.43 | 190 | 0.720 | 1.564 | 0.99 | 0.000 | 0.392 | 808.86 | 3.670 | 1.783E+05 | 1.783E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 4.03 | **5.55** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.30 | 118.12 | 0.1316 | 33.97 | 0.89 | 2.62% | 2.630 | 0.65 | 257.06 | 2.14 | 1.53 | 191 | 0.727 | 1.578 | 0.99 | 0.000 | 0.392 | 812.70 | 3.668 | 1.801E+05 | 1.801E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 4.07 | **5.60** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.39 | 118.34 | 0.1370 | 30.17 | 0.96 | 3.18% | 3.196 | 0.68 | 219.28 | 2.23 | 1.74 | 199 | 0.808 | 1.970 | 0.99 | 0.000 | 0.392 | 825.51 | 3.675 | 1.854E+05 | 1.854E+05 | 1.00 | 0.1542 | 0.989 | 0.388 | | 5.08 | **7.00** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.43 | 118.83 | 0.1393 | 30.85 | 1.02 | 3.31% | 3.321 | 0.68 | 220.41 | 2.24 | 1.77 | 204 | 0.874 | 2.132 | 0.99 | 0.000 | 0.392 | 835.76 | 3.690 | 1.893E+05 | 1.893E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 5.50 | **7.57** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.52 | 119.76 | 0.1447 | 35.24 | 1.10 | 3.12% | 3.134 | 0.67 | 242.49 | 2.20 | 1.66 | 208 | 0.922 | 2.001 | 0.99 | 0.000 | 0.392 | 848.54 | 3.719 | 1.936E+05 | 1.936E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 5.17 | **7.11** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.57 | 119.70 | 0.1477 | 34.66 | 1.10 | 3.17% | 3.187 | 0.67 | 233.64 | 2.21 | 1.69 | 207 | 0.908 | 1.971 | 0.99 | 0.000 | 0.392 | 848.54 | 3.717 | 1.937E+05 | 1.937E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 5.09 | **7.00** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.66 | 118.91 | 0.1531 | 29.77 | 1.04 | 3.49% | 3.512 | 0.69 | 193.49 | 2.28 | 1.88 | 202 | 0.841 | 2.051 | 0.99 | 0.000 | 0.391 | 839.05 | 3.693 | 1.906E+05 | 1.906E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 5.30 | **7.29** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.70 | 118.54 | 0.1554 | 27.33 | 1.02 | 3.73% | 3.754 | 0.70 | 174.82 | 2.32 | 2.02 | 201 | 0.835 | 2.035 | 0.99 | 0.000 | 0.391 | 835.76 | 3.681 | 1.897E+05 | 1.897E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 5.26 | **7.23** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.79 | 116.86 | 0.1607 | 22.94 | 0.86 | 3.75% | 3.775 | 0.72 | 141.75 | 2.37 | 2.20 | 184 | 0.662 | 2.062 | 0.99 | 0.000 | 0.391 | 806.90 | 3.629 | 1.794E+05 | 1.794E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 5.33 | **7.33** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.83 | 116.38 | 0.1630 | 21.87 | 0.82 | 3.75% | 3.778 | 0.72 | 133.15 | 2.39 | 2.25 | 180 | 0.620 | 1.930 | 0.99 | 0.000 | 0.391 | 798.84 | 3.614 | 1.766E+05 | 1.766E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 4.99 | **6.86** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.90 | 115.48 | 0.1671 | 21.18 | 0.73 | 3.45% | 3.474 | 0.72 | 125.77 | 2.37 | 2.21 | 167 | 0.511 | 1.590 | 0.99 | 0.000 | 0.391 | 779.18 | 3.586 | 1.693E+05 | 1.693E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 4.11 | **5.65** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 2.97 | 115.21 | 0.1711 | 22.55 | 0.69 | 3.06% | 3.083 | 0.71 | 130.79 | 2.33 | 2.05 | 158 | 0.445 | 1.387 | 0.99 | 0.000 | 0.391 | 769.64 | 3.578 | 1.656E+05 | 1.656E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 3.58 | **4.93** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.05 | 115.01 | 0.1757 | 22.55 | 0.67 | 2.97% | 2.995 | 0.71 | 127.34 | 2.33 | 2.04 | 154 | 0.418 | 1.302 | 0.99 | 0.000 | 0.391 | 764.67 | 3.572 | 1.637E+05 | 1.637E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 3.36 | **4.63** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.10 | 114.96 | 0.1786 | 22.65 | 0.66 | 2.91% | 2.937 | 0.70 | 125.84 | 2.32 | 2.02 | 151 | 0.403 | 1.256 | 0.99 | 0.000 | 0.391 | 762.12 | 3.570 | 1.627E+05 | 1.627E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 3.25 | **4.47** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.17 | 114.92 | 0.1826 | 22.55 | 0.66 | 2.93% | 2.951 | 0.71 | 122.50 | 2.33 | 2.05 | 151 | 0.398 | 1.238 | 0.99 | 0.000 | 0.391 | 762.12 | 3.569 | 1.627E+05 | 1.627E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 3.20 | **4.40** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.24 | 114.63 | 0.1866 | 21.18 | 0.65 | 3.07% | 3.096 | 0.72 | 112.50 | 2.36 | 2.17 | 150 | 0.394 | 1.226 | 0.99 | 0.000 | 0.391 | 759.54 | 3.560 | 1.621E+05 | 1.621E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 3.17 | **4.36** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.31 | 114.25 | 0.1906 | 19.82 | 0.63 | 3.18% | 3.209 | 0.73 | 102.98 | 2.39 | 2.29 | 148 | 0.383 | 1.191 | 0.99 | 0.000 | 0.391 | 754.26 | 3.548 | 1.603E+05 | 1.603E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 3.08 | **4.24** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.37 | 114.35 | 0.1940 | 18.94 | 0.65 | 3.43% | 3.467 | 0.74 | 96.61 | 2.43 | 2.44 | 152 | 0.405 | 1.095 | 0.99 | 0.000 | 0.391 | 759.54 | 3.551 | 1.625E+05 | 1.625E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 2.83 | **3.90** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.42 | 114.63 | 0.1969 | 19.23 | 0.67 | 3.48% | 3.520 | 0.74 | 96.66 | 2.43 | 2.46 | 154 | 0.416 | 1.297 | 0.99 | 0.000 | 0.391 | 764.67 | 3.560 | 1.642E+05 | 1.642E+05 | 1.00 | 0.1542 | 0.989 | 0.387 | | 3.35 | **4.62** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.51 | 115.30 | 0.2021 | 22.06 | 0.70 | 3.17% | 3.203 | 0.72 | 108.16 | 2.38 | 2.22 | 152 | 0.407 | 1.266 | 0.99 | 0.000 | 0.391 | 772.08 | 3.581 | 1.665E+05 | 1.665E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 3.28 | **4.51** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.55 | 115.37 | 0.2044 | 22.55 | 0.70 | 3.10% | 3.133 | 0.72 | 109.32 | 2.37 | 2.18 | 151 | 0.399 | 1.243 | 0.99 | 0.000 | 0.391 | 772.08 | 3.583 | 1.664E+05 | 1.664E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 3.22 | **4.43** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.64 | 114.32 | 0.2095 | 21.09 | 0.62 | 2.94% | 2.969 | 0.72 | 99.65 | 2.38 | 2.21 | 141 | 0.340 | 1.060 | 0.99 | 0.000 | 0.391 | 751.55 | 3.550 | 1.591E+05 | 1.591E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.74 | **3.77** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.68 | 111.96 | 0.2118 | 19.33 | 0.47 | 2.43% | 2.458 | 0.71 | 90.27 | 2.35 | 2.12 | 121 | 0.247 | 0.667 | 0.99 | 0.000 | 0.390 | 704.69 | 3.477 | 1.428E+05 | 1.428E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.73 | **2.37** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.74 | 113.45 | 0.2152 | 16.99 | 0.59 | 3.47% | 3.517 | 0.75 | 77.95 | 2.48 | 2.69 | 142 | 0.347 | 0.457 | 0.99 | 0.000 | 0.390 | 743.16 | 3.523 | 1.568E+05 | 1.568E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 1.18 | **1.63** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.82 | 119.56 | 0.2200 | 15.81 | 1.40 | 8.86% | 8.980 | 0.84 | 70.87 | 2.78 | 4.58 | 254 | 1.597 | 2.002 | 0.99 | 0.000 | 0.390 | 889.33 | 3.713 | 2.130E+05 | 2.130E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.91 | 120.13 | 0.2254 | 16.11 | 1.51 | 9.37% | 9.506 | 0.85 | 70.48 | 2.79 | 4.73 | 263 | 1.780 | 2.224 | 0.99 | 0.000 | 0.390 | 902.13 | 3.731 | 2.181E+05 | 2.181E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 3.95 | 119.75 | 0.2278 | 13.96 | 1.50 | 10.74% | 10.923 | 0.87 | 60.29 | 2.87 | 5.44 | 269 | 1.890 | 1.890 | 0.99 | 0.000 | 0.390 | 901.00 | 3.719 | 2.183E+05 | 2.183E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.02 | 126.51 | 0.2322 | 216.72 | 1.51 | 0.70% | 0.697 | 0.50 | 932.34 | 1.35 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.390 | 902.13 | 3.929 | 2.071E+05 | 2.071E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.13 | **2.94** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.09 | 126.73 | 0.2366 | 244.35 | 1.50 | 0.61% | 0.614 | 0.50 | 1031.61 | 1.27 | 1.00 | 200 | 0.824 | 0.824 | 0.99 | 0.000 | 0.390 | 901.00 | 3.936 | 2.063E+05 | 2.063E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.13 | **2.94** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.15 | 125.67 | 0.2404 | 128.86 | 1.61 | 1.25% | 1.252 | 0.51 | 535.01 | 1.69 | 1.03 | 206 | 0.888 | 0.888 | 0.99 | 0.000 | 0.390 | 912.97 | 3.903 | 2.136E+05 | 2.136E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.30 | **3.17** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.21 | 126.26 | 0.2442 | 121.34 | 1.78 | 1.47% | 1.470 | 0.53 | 495.90 | 1.75 | 1.07 | 214 | 0.997 | 0.997 | 0.99 | 0.000 | 0.390 | 929.95 | 3.921 | 2.206E+05 | 2.206E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.58 | **3.56** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.28 | 125.61 | 0.2486 | 125.44 | 1.61 | 1.28% | 1.286 | 0.52 | 503.61 | 1.70 | 1.04 | 208 | 0.919 | 0.919 | 0.99 | 0.000 | 0.390 | 912.97 | 3.901 | 2.137E+05 | 2.137E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.38 | **3.28** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.34 | 125.16 | 0.2523 | 119.59 | 1.54 | 1.29% | 1.290 | 0.52 | 472.92 | 1.72 | 1.05 | 210 | 0.943 | 0.943 | 0.99 | 0.000 | 0.390 | 905.45 | 3.887 | 2.109E+05 | 2.109E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.44 | **3.36** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.41 | 124.98 | 0.2567 | 112.66 | 1.53 | 1.36% | 1.361 | 0.53 | 437.85 | 1.75 | 1.07 | 215 | 0.999 | 0.999 | 0.99 | 0.000 | 0.390 | 904.35 | 3.881 | 2.107E+05 | 2.107E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.59 | **3.56** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.47 | 124.52 | 0.2605 | 106.21 | 1.46 | 1.37% | 1.378 | 0.54 | 406.79 | 1.77 | 1.09 | 217 | 1.036 | 1.036 | 0.99 | 0.000 | 0.390 | 896.43 | 3.867 | 2.078E+05 | 2.078E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.69 | **3.70** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.54 | 123.60 | 0.2648 | 88.35 | 1.37 | 1.55% | 1.555 | 0.57 | 332.67 | 1.86 | 1.15 | 211 | 0.956 | 0.956 | 0.99 | 0.000 | 0.390 | 885.67 | 3.839 | 2.044E+05 | 2.044E+05 | 1.00 | 0.1542 | 0.989 | 0.386 | | 2.48 | **3.41** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.61 | 123.20 | 0.2691 | 78.98 | 1.35 | 1.71% | 1.715 | 0.58 | 292.51 | 1.92 | 1.21 | 201 | 0.831 | 0.831 | 0.99 | 0.000 | 0.390 | 883.18 | 3.826 | 2.039E+05 | 2.039E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 2.16 | **2.97** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.70 | 122.09 | 0.2746 | 66.58 | 1.23 | 1.85% | 1.855 | 0.60 | 241.48 | 1.99 | 1.28 | 183 | 0.649 | 0.649 | 0.99 | 0.000 | 0.390 | 867.43 | 3.792 | 1.984E+05 | 1.984E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.68 | **2.32** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.75 | 119.64 | 0.2776 | 59.35 | 0.91 | 1.53% | 1.540 | 0.60 | 212.82 | 1.97 | 1.26 | 157 | 0.443 | 0.499 | 0.99 | 0.000 | 0.389 | 816.46 | 3.716 | 1.794E+05 | 1.794E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.30 | **1.78** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.82 | 116.95 | 0.2817 | 50.47 | 0.67 | 1.33% | 1.335 | 0.60 | 178.18 | 1.97 | 1.27 | 134 | 0.304 | 0.487 | 0.99 | 0.000 | 0.389 | 764.67 | 3.632 | 1.610E+05 | 1.610E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.26 | **1.74** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.88 | 117.50 | 0.2852 | 45.78 | 0.74 | 1.62% | 1.627 | 0.63 | 159.52 | 2.06 | 1.38 | 136 | 0.313 | 0.571 | 0.99 | 0.000 | 0.389 | 781.48 | 3.649 | 1.674E+05 | 1.674E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.48 | **2.04** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 4.96 | 118.26 | 0.2899 | 37.78 | 0.88 | 2.33% | 2.347 | 0.67 | 129.31 | 2.21 | 1.70 | 145 | 0.362 | 0.748 | 0.99 | 0.000 | 0.389 | 810.79 | 3.673 | 1.790E+05 | 1.790E+05 | 1.00 | 0.1542 | 0.989 | 0.385 | | 1.94 | **2.67** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.01 | 138.79 | 0.2934 | 35.92 | 0.95 | 2.64% | 2.667 | 0.69 | 121.43 | 2.27 | 1.84 | 151 | 0.399 | 0.829 | 0.99 | 0.000 | 0.389 | 823.74 | 4.310 | 1.574E+05 | 2.030E+06 | 12.90 | 0.1542 | 0.915 | 0.356 | | 2.33 | **3.20** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.05 | 139.28 | 0.2962 | 35.92 | 1.02 | 2.84% | 2.863 | 0.69 | 120.28 | 2.29 | 1.91 | 157 | 0.437 | 0.913 | 0.99 | 0.000 | 0.389 | 835.76 | 4.325 | 1.615E+05 | 2.030E+06 | 12.57 | 0.1542 | 0.916 | 0.356 | | 2.56 | **3.52** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.14 | 139.92 | 0.3025 | 34.46 | 1.13 | 3.28% | 3.308 | 0.71 | 112.93 | 2.34 | 2.10 | 166 | 0.506 | 1.071 | 0.99 | 0.000 | 0.389 | 853.09 | 4.345 | 1.675E+05 | 2.030E+06 | 12.12 | 0.1542 | 0.917 | 0.357 | | 3.00 | **4.13** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.19 | 140.22 | 0.3060 | 34.66 | 1.17 | 3.38% | 3.406 | 0.71 | 112.27 | 2.35 | 2.13 | 169 | 0.528 | 1.124 | 0.99 | 0.000 | 0.389 | 858.97 | 4.355 | 1.694E+05 | 2.030E+06 | 11.98 | 0.1542 | 0.917 | 0.357 | | 3.15 | **4.33** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.27 | 140.62 | 0.3116 | 36.90 | 1.21 | 3.28% | 3.307 | 0.71 | 117.42 | 2.33 | 2.06 | 170 | 0.534 | 1.035 | 0.99 | 0.000 | 0.389 | 864.66 | 4.367 | 1.712E+05 | 2.030E+06 | 11.86 | 0.1542 | 0.918 | 0.357 | | 2.90 | **3.99** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.32 | 140.82 | 0.3151 | 39.15 | 1.22 | 3.12% | 3.142 | 0.70 | 123.24 | 2.30 | 1.96 | 169 | 0.526 | 1.025 | 0.99 | 0.000 | 0.389 | 866.05 | 4.373 | 1.715E+05 | 2.030E+06 | 11.84 | 0.1542 | 0.918 | 0.357 | | 2.87 | **3.95** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.39 | 141.04 | 0.3201 | 43.25 | 1.22 | 2.82% | 2.842 | 0.68 | 134.13 | 2.25 | 1.80 | 166 | 0.507 | 0.896 | 0.99 | 0.000 | 0.389 | 866.05 | 4.380 | 1.712E+05 | 2.030E+06 | 11.85 | 0.1542 | 0.918 | 0.357 | | 2.51 | **3.45** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.46 | 141.24 | 0.3250 | 47.83 | 1.21 | 2.53% | 2.547 | 0.67 | 146.17 | 2.19 | 1.65 | 164 | 0.490 | 0.780 | 0.99 | 0.000 | 0.389 | 864.66 | 4.386 | 1.704E+05 | 2.030E+06 | 11.91 | 0.1542 | 0.918 | 0.357 | | 2.19 | **3.01** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.52 | 141.29 | 0.3292 | 53.11 | 1.18 | 2.22% | 2.236 | 0.65 | 160.31 | 2.13 | 1.51 | 162 | 0.473 | 0.669 | 0.99 | 0.000 | 0.389 | 860.41 | 4.388 | 1.687E+05 | 2.030E+06 | 12.03 | 0.1542 | 0.917 | 0.357 | | 1.88 | **2.58** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.59 | 141.43 | 0.3342 | 57.99 | 1.17 | 2.02% | 2.029 | 0.63 | 172.52 | 2.08 | 1.42 | 162 | 0.473 | 0.582 | 0.99 | 0.000 | 0.389 | 858.97 | 4.392 | 1.680E+05 | 2.030E+06 | 12.08 | 0.1542 | 0.917 | 0.356 | | 1.63 | **2.25** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.67 | 141.55 | 0.3399 | 60.82 | 1.17 | 1.92% | 1.935 | 0.63 | 177.96 | 2.06 | 1.38 | 162 | 0.475 | 0.598 | 0.99 | 0.000 | 0.389 | 858.97 | 4.396 | 1.678E+05 | 2.030E+06 | 12.09 | 0.1542 | 0.917 | 0.356 | | 1.68 | **2.31** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.72 | 141.67 | 0.3434 | 61.31 | 1.18 | 1.92% | 1.935 | 0.63 | 177.54 | 2.06 | 1.38 | 162 | 0.476 | 0.608 | 0.99 | 0.000 | 0.389 | 860.41 | 4.400 | 1.683E+05 | 2.030E+06 | 12.06 | 0.1542 | 0.917 | 0.356 | | 1.71 | **2.35** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.79 | 141.99 | 0.3484 | 60.82 | 1.24 | 2.04% | 2.051 | 0.63 | 173.58 | 2.08 | 1.42 | 165 | 0.494 | 0.643 | 0.99 | 0.000 | 0.388 | 868.80 | 4.410 | 1.712E+05 | 2.030E+06 | 11.86 | 0.1542 | 0.918 | 0.357 | | 1.80 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.86 | 142.52 | 0.3534 | 59.55 | 1.34 | 2.25% | 2.264 | 0.64 | 167.53 | 2.12 | 1.48 | 169 | 0.530 | 0.702 | 0.99 | 0.000 | 0.388 | 881.92 | 4.426 | 1.757E+05 | 2.030E+06 | 11.55 | 0.1542 | 0.918 | 0.357 | | 1.97 | **2.71** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.94 | 143.08 | 0.3591 | 56.82 | 1.47 | 2.59% | 2.604 | 0.66 | 157.24 | 2.17 | 1.60 | 176 | 0.583 | 0.787 | 0.99 | 0.000 | 0.388 | 897.59 | 4.443 | 1.813E+05 | 2.030E+06 | 11.20 | 0.1542 | 0.919 | 0.357 | | 2.20 | **3.03** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 5.99 | 143.17 | 0.3627 | 54.38 | 1.51 | 2.78% | 2.795 | 0.67 | 148.95 | 2.21 | 1.69 | 177 | 0.599 | 0.818 | 0.99 | 0.000 | 0.388 | 902.13 | 4.446 | 1.830E+05 | 2.030E+06 | 11.09 | 0.1542 | 0.920 | 0.357 | | 2.29 | **3.15** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.06 | 143.27 | 0.3677 | 51.45 | 1.56 | 3.03% | 3.054 | 0.68 | 138.93 | 2.25 | 1.80 | 180 | 0.623 | 0.980 | 0.99 | 0.000 | 0.388 | 907.64 | 4.449 | 1.852E+05 | 2.030E+06 | 10.96 | 0.1542 | 0.920 | 0.357 | | 2.74 | **3.77** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.12 | 143.23 | 0.3720 | 50.18 | 1.56 | 3.11% | 3.132 | 0.69 | 133.90 | 2.27 | 1.85 | 180 | 0.619 | 0.983 | 0.99 | 0.000 | 0.388 | 907.64 | 4.448 | 1.852E+05 | 2.030E+06 | 10.96 | 0.1542 | 0.920 | 0.357 | | 2.75 | **3.79** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.20 | 143.09 | 0.3777 | 51.35 | 1.52 | 2.96% | 2.982 | 0.68 | 134.96 | 2.25 | 1.80 | 176 | 0.586 | 0.942 | 0.99 | 0.000 | 0.388 | 903.24 | 4.444 | 1.836E+05 | 2.030E+06 | 11.06 | 0.1542 | 0.920 | 0.357 | | 2.64 | **3.63** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.26 | 142.78 | 0.3820 | 50.28 | 1.47 | 2.92% | 2.946 | 0.68 | 130.63 | 2.25 | 1.81 | 172 | 0.554 | 0.900 | 0.99 | 0.000 | 0.388 | 897.59 | 4.434 | 1.817E+05 | 2.030E+06 | 11.17 | 0.1542 | 0.919 | 0.357 | | 2.52 | **3.47** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.31 | 142.58 | 0.3855 | 51.25 | 1.42 | 2.77% | 2.792 | 0.68 | 131.93 | 2.23 | 1.75 | 168 | 0.522 | 0.854 | 0.99 | 0.000 | 0.388 | 891.73 | 4.428 | 1.796E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.357 | | 2.40 | **3.30** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.39 | 142.05 | 0.3912 | 53.59 | 1.30 | 2.43% | 2.444 | 0.66 | 135.98 | 2.19 | 1.63 | 160 | 0.458 | 0.758 | 0.98 | 0.000 | 0.388 | 876.80 | 4.412 | 1.743E+05 | 2.030E+06 | 11.65 | 0.1542 | 0.918 | 0.356 | | 2.13 | **2.93** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.44 | 141.73 | 0.3948 | 54.08 | 1.24 | 2.29% | 2.310 | 0.66 | 135.99 | 2.17 | 1.59 | 155 | 0.429 | 0.716 | 0.98 | 0.000 | 0.388 | 868.80 | 4.402 | 1.715E+05 | 2.030E+06 | 11.84 | 0.1542 | 0.918 | 0.356 | | 2.01 | **2.77** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.53 | 138.76 | 0.4010 | 54.28 | 0.83 | 1.53% | 1.540 | 0.62 | 134.36 | 2.05 | 1.38 | 130 | 0.282 | 0.526 | 0.98 | 0.000 | 0.388 | 800.89 | 4.309 | 1.488E+05 | 2.030E+06 | 13.64 | 0.1542 | 0.913 | 0.354 | | 1.49 | **2.04** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.57 | 137.03 | 0.4038 | 54.08 | 0.65 | 1.20% | 1.211 | 0.61 | 132.94 | 1.99 | 1.29 | 118 | 0.234 | 0.438 | 0.98 | 0.000 | 0.388 | 759.54 | 4.256 | 1.356E+05 | 2.030E+06 | 14.97 | 0.1542 | 0.910 | 0.353 | | 1.24 | **1.71** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.66 | 136.60 | 0.4099 | 53.89 | 0.62 | 1.15% | 1.159 | 0.60 | 130.47 | 1.99 | 1.28 | 116 | 0.224 | 0.424 | 0.98 | 0.000 | 0.388 | 751.55 | 4.242 | 1.331E+05 | 2.030E+06 | 15.25 | 0.1542 | 0.909 | 0.352 | | 1.20 | **1.65** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.71 | 136.40 | 0.4133 | 53.40 | 0.60 | 1.12% | 1.132 | 0.60 | 128.20 | 1.98 | 1.28 | 114 | 0.217 | 0.413 | 0.98 | 0.000 | 0.388 | 746.00 | 4.236 | 1.314E+05 | 2.030E+06 | 15.45 | 0.1542 | 0.908 | 0.352 | | 1.17 | **1.61** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.79 | 136.16 | 0.4188 | 52.91 | 0.59 | 1.12% | 1.124 | 0.60 | 125.35 | 1.99 | 1.28 | 112 | 0.212 | 0.446 | 0.98 | 0.000 | 0.388 | 743.16 | 4.229 | 1.306E+05 | 2.030E+06 | 15.54 | 0.1542 | 0.908 | 0.352 | | 1.27 | **1.74** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.83 | 136.17 | 0.4215 | 52.72 | 0.59 | 1.12% | 1.128 | 0.61 | 124.08 | 1.99 | 1.29 | 112 | 0.210 | 0.445 | 0.98 | 0.000 | 0.388 | 743.16 | 4.229 | 1.306E+05 | 2.030E+06 | 15.54 | 0.1542 | 0.908 | 0.352 | | 1.26 | **1.74** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.90 | 136.25 | 0.4262 | 51.06 | 0.60 | 1.18% | 1.185 | 0.61 | 118.79 | 2.02 | 1.32 | 111 | 0.207 | 0.441 | 0.98 | 0.000 | 0.387 | 746.00 | 4.231 | 1.315E+05 | 2.030E+06 | 15.43 | 0.1542 | 0.908 | 0.352 | | 1.25 | **1.72** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 6.99 | 136.20 | 0.4324 | 51.45 | 0.59 | 1.15% | 1.156 | 0.61 | 117.99 | 2.01 | 1.31 | 110 | 0.204 | 0.438 | 0.98 | 0.000 | 0.387 | 743.16 | 4.230 | 1.306E+05 | 2.030E+06 | 15.55 | 0.1542 | 0.908 | 0.352 | | 1.24 | **1.71** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.03 | 136.26 | 0.4351 | 50.96 | 0.60 | 1.18% | 1.188 | 0.61 | 116.12 | 2.02 | 1.33 | 110 | 0.204 | 0.440 | 0.98 | 0.000 | 0.387 | 746.00 | 4.232 | 1.315E+05 | 2.030E+06 | 15.44 | 0.1542 | 0.908 | 0.352 | | 1.25 | **1.72** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.10 | 136.14 | 0.4399 | 49.88 | 0.60 | 1.20% | 1.214 | 0.62 | 112.40 | 2.03 | 1.35 | 109 | 0.201 | 0.435 | 0.98 | 0.000 | 0.387 | 746.00 | 4.228 | 1.316E+05 | 2.030E+06 | 15.42 | 0.1542 | 0.909 | 0.352 | | 1.24 | **1.70** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.16 | 135.83 | 0.4439 | 48.62 | 0.58 | 1.19% | 1.204 | 0.62 | 108.52 | 2.04 | 1.36 | 107 | 0.193 | 0.421 | 0.98 | 0.000 | 0.387 | 740.27 | 4.218 | 1.299E+05 | 2.030E+06 | 15.63 | 0.1542 | 0.908 | 0.352 | | 1.20 | **1.65** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.25 | 135.19 | 0.4500 | 45.69 | 0.54 | 1.18% | 1.194 | 0.63 | 100.53 | 2.06 | 1.39 | 102 | 0.179 | 0.430 | 0.98 | 0.000 | 0.387 | 728.18 | 4.198 | 1.263E+05 | 2.030E+06 | 16.07 | 0.1542 | 0.907 | 0.351 | | 1.23 | **1.69** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.30 | 134.67 | 0.4534 | 43.83 | 0.51 | 1.16% | 1.176 | 0.63 | 95.67 | 2.07 | 1.41 | 99 | 0.170 | 0.410 | 0.98 | 0.000 | 0.387 | 718.51 | 4.182 | 1.234E+05 | 2.030E+06 | 16.45 | 0.1542 | 0.906 | 0.351 | | 1.17 | **1.61** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.39 | 133.92 | 0.4594 | 42.37 | 0.46 | 1.09% | 1.098 | 0.63 | 91.23 | 2.07 | 1.40 | 94 | 0.158 | 0.420 | 0.98 | 0.000 | 0.387 | 701.06 | 4.159 | 1.182E+05 | 2.030E+06 | 17.18 | 0.1542 | 0.904 | 0.350 | | 1.20 | **1.65** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.44 | 133.45 | 0.4628 | 41.20 | 0.44 | 1.07% | 1.080 | 0.63 | 88.03 | 2.08 | 1.41 | 92 | 0.153 | 0.407 | 0.98 | 0.000 | 0.387 | 693.54 | 4.144 | 1.161E+05 | 2.030E+06 | 17.49 | 0.1542 | 0.903 | 0.349 | | 1.17 | **1.60** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.52 | 132.69 | 0.4681 | 40.03 | 0.40 | 1.00% | 1.011 | 0.63 | 84.52 | 2.07 | 1.41 | 88 | 0.144 | 0.386 | 0.98 | 0.000 | 0.387 | 677.41 | 4.121 | 1.114E+05 | 2.030E+06 | 18.23 | 0.1542 | 0.901 | 0.349 | | 1.11 | **1.52** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.57 | 132.45 | 0.4714 | 39.34 | 0.39 | 0.99% | 1.003 | 0.63 | 82.46 | 2.08 | 1.42 | 87 | 0.142 | 0.380 | 0.98 | 0.000 | 0.387 | 673.13 | 4.113 | 1.102E+05 | 2.030E+06 | 18.43 | 0.1542 | 0.901 | 0.348 | | 1.09 | **1.50** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.62 | 132.25 | 0.4747 | 38.46 | 0.38 | 0.99% | 1.000 | 0.63 | 80.02 | 2.09 | 1.43 | 86 | 0.139 | 0.410 | 0.98 | 0.000 | 0.387 | 668.74 | 4.107 | 1.089E+05 | 2.030E+06 | 18.64 | 0.1542 | 0.900 | 0.348 | | 1.18 | **1.62** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.70 | 132.06 | 0.4800 | 37.00 | 0.38 | 1.03% | 1.041 | 0.64 | 76.09 | 2.11 | 1.47 | 85 | 0.137 | 0.407 | 0.98 | 0.000 | 0.387 | 668.74 | 4.101 | 1.090E+05 | 2.030E+06 | 18.62 | 0.1542 | 0.900 | 0.348 | | 1.17 | **1.61** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.75 | 132.05 | 0.4833 | 36.61 | 0.38 | 1.04% | 1.052 | 0.64 | 74.76 | 2.12 | 1.49 | 85 | 0.136 | 0.406 | 0.98 | 0.000 | 0.387 | 668.74 | 4.101 | 1.090E+05 | 2.030E+06 | 18.62 | 0.1542 | 0.900 | 0.348 | | 1.17 | **1.60** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.84 | 132.44 | 0.4892 | 35.44 | 0.40 | 1.13% | 1.144 | 0.65 | 71.44 | 2.15 | 1.55 | 86 | 0.138 | 0.414 | 0.98 | 0.000 | 0.387 | 677.41 | 4.113 | 1.116E+05 | 2.030E+06 | 18.20 | 0.1542 | 0.901 | 0.348 | | 1.19 | **1.63** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.88 | 132.62 | 0.4919 | 34.95 | 0.41 | 1.17% | 1.190 | 0.66 | 70.05 | 2.17 | 1.59 | 86 | 0.139 | 0.418 | 0.98 | 0.000 | 0.387 | 681.59 | 4.119 | 1.128E+05 | 2.030E+06 | 18.00 | 0.1542 | 0.902 | 0.349 | | 1.20 | **1.65** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 7.96 | 132.85 | 0.4972 | 34.17 | 0.43 | 1.26% | 1.277 | 0.67 | 67.73 | 2.19 | 1.65 | 87 | 0.142 | 0.428 | 0.98 | 0.000 | 0.386 | 689.65 | 4.126 | 1.153E+05 | 2.030E+06 | 17.61 | 0.1542 | 0.903 | 0.349 | | 1.23 | **1.69** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.01 | 133.04 | 0.5005 | 33.97 | 0.44 | 1.30% | 1.315 | 0.67 | 66.87 | 2.20 | 1.67 | 88 | 0.143 | 0.433 | 0.98 | 0.000 | 0.386 | 693.54 | 4.132 | 1.164E+05 | 2.030E+06 | 17.44 | 0.1542 | 0.903 | 0.349 | | 1.24 | **1.71** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.10 | 133.55 | 0.5065 | 34.07 | 0.47 | 1.38% | 1.400 | 0.67 | 66.26 | 2.22 | 1.72 | 90 | 0.148 | 0.450 | 0.98 | 0.000 | 0.386 | 704.69 | 4.148 | 1.197E+05 | 2.030E+06 | 16.95 | 0.1542 | 0.905 | 0.349 | | 1.29 | **1.77** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.15 | 133.67 | 0.5099 | 34.56 | 0.48 | 1.39% | 1.410 | 0.67 | 66.78 | 2.22 | 1.71 | 91 | 0.150 | 0.456 | 0.98 | 0.000 | 0.386 | 708.25 | 4.151 | 1.208E+05 | 2.030E+06 | 16.80 | 0.1542 | 0.905 | 0.350 | | 1.31 | **1.80** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.22 | 133.92 | 0.5146 | 35.44 | 0.49 | 1.38% | 1.403 | 0.67 | 67.87 | 2.21 | 1.70 | 91 | 0.151 | 0.463 | 0.98 | 0.000 | 0.386 | 711.74 | 4.159 | 1.218E+05 | 2.030E+06 | 16.67 | 0.1542 | 0.905 | 0.350 | | 1.32 | **1.82** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.29 | 133.98 | 0.5192 | 36.22 | 0.49 | 1.35% | 1.373 | 0.67 | 68.76 | 2.20 | 1.67 | 91 | 0.150 | 0.424 | 0.98 | 0.000 | 0.386 | 711.74 | 4.161 | 1.217E+05 | 2.030E+06 | 16.67 | 0.1542 | 0.905 | 0.350 | | 1.21 | **1.67** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.34 | 134.02 | 0.5226 | 37.49 | 0.49 | 1.31% | 1.325 | 0.66 | 70.74 | 2.18 | 1.63 | 91 | 0.150 | 0.425 | 0.98 | 0.000 | 0.386 | 711.74 | 4.162 | 1.217E+05 | 2.030E+06 | 16.68 | 0.1542 | 0.905 | 0.350 | | 1.22 | **1.67** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.42 | 134.23 | 0.5280 | 38.85 | 0.50 | 1.29% | 1.305 | 0.66 | 72.58 | 2.17 | 1.60 | 92 | 0.152 | 0.432 | 0.98 | 0.000 | 0.386 | 715.16 | 4.169 | 1.227E+05 | 2.030E+06 | 16.55 | 0.1542 | 0.906 | 0.350 | | 1.23 | **1.70** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.47 | 134.22 | 0.5313 | 39.83 | 0.49 | 1.23% | 1.247 | 0.65 | 73.96 | 2.15 | 1.56 | 91 | 0.150 | 0.428 | 0.98 | 0.000 | 0.386 | 711.74 | 4.168 | 1.215E+05 | 2.030E+06 | 16.70 | 0.1542 | 0.905 | 0.349 | | 1.23 | **1.69** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.55 | 134.42 | 0.5367 | 41.00 | 0.50 | 1.22% | 1.236 | 0.65 | 75.39 | 2.14 | 1.54 | 92 | 0.152 | 0.435 | 0.98 | 0.000 | 0.386 | 715.16 | 4.175 | 1.225E+05 | 2.030E+06 | 16.57 | 0.1542 | 0.906 | 0.349 | | 1.25 | **1.71** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.60 | 134.42 | 0.5401 | 41.68 | 0.50 | 1.20% | 1.215 | 0.65 | 76.18 | 2.13 | 1.52 | 92 | 0.152 | 0.401 | 0.98 | 0.000 | 0.386 | 715.16 | 4.175 | 1.225E+05 | 2.030E+06 | 16.57 | 0.1542 | 0.906 | 0.349 | | 1.15 | **1.58** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.68 | 134.45 | 0.5454 | 41.78 | 0.50 | 1.20% | 1.213 | 0.65 | 75.60 | 2.13 | 1.52 | 92 | 0.152 | 0.401 | 0.98 | 0.000 | 0.386 | 715.16 | 4.175 | 1.225E+05 | 2.030E+06 | 16.57 | 0.1542 | 0.906 | 0.349 | | 1.15 | **1.58** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.73 | 134.46 | 0.5488 | 41.98 | 0.50 | 1.19% | 1.207 | 0.65 | 75.49 | 2.13 | 1.52 | 91 | 0.151 | 0.402 | 0.98 | 0.000 | 0.386 | 715.16 | 4.176 | 1.225E+05 | 2.030E+06 | 16.57 | 0.1542 | 0.906 | 0.349 | | 1.15 | **1.58** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.82 | 134.44 | 0.5548 | 41.59 | 0.50 | 1.20% | 1.218 | 0.65 | 73.96 | 2.14 | 1.53 | 91 | 0.150 | 0.401 | 0.98 | 0.000 | 0.386 | 715.16 | 4.175 | 1.225E+05 | 2.030E+06 | 16.57 | 0.1542 | 0.906 | 0.349 | | 1.15 | **1.58** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.90 | 133.55 | 0.5602 | 41.68 | 0.44 | 1.06% | 1.070 | 0.64 | 73.40 | 2.11 | 1.47 | 87 | 0.140 | 0.410 | 0.98 | 0.000 | 0.386 | 693.54 | 4.148 | 1.160E+05 | 2.030E+06 | 17.50 | 0.1542 | 0.903 | 0.348 | | 1.18 | **1.62** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 8.95 | 132.88 | 0.5635 | 41.49 | 0.41 | 0.99% | 1.002 | 0.64 | 72.63 | 2.10 | 1.45 | 84 | 0.136 | 0.397 | 0.98 | 0.000 | 0.386 | 681.59 | 4.127 | 1.126E+05 | 2.030E+06 | 18.03 | 0.1542 | 0.902 | 0.348 | | 1.14 | **1.57** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.00 | 133.02 | 0.5668 | 41.10 | 0.41 | 1.00% | 1.012 | 0.64 | 71.51 | 2.10 | 1.46 | 84 | 0.135 | 0.397 | 0.98 | 0.000 | 0.385 | 681.59 | 4.131 | 1.125E+05 | 2.030E+06 | 18.05 | 0.1542 | 0.902 | 0.348 | | 1.14 | **1.57** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.06 | 133.35 | 0.5708 | 40.81 | 0.43 | 1.05% | 1.069 | 0.64 | 70.49 | 2.12 | 1.49 | 85 | 0.137 | 0.404 | 0.98 | 0.000 | 0.385 | 689.65 | 4.141 | 1.148E+05 | 2.030E+06 | 17.68 | 0.1542 | 0.903 | 0.348 | | 1.16 | **1.60** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.13 | 134.07 | 0.5755 | 40.90 | 0.48 | 1.17% | 1.190 | 0.65 | 70.06 | 2.15 | 1.55 | 88 | 0.144 | 0.426 | 0.98 | 0.000 | 0.385 | 708.25 | 4.164 | 1.205E+05 | 2.030E+06 | 16.85 | 0.1542 | 0.905 | 0.349 | | 1.22 | **1.68** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.22 | 135.39 | 0.5816 | 41.00 | 0.57 | 1.39% | 1.410 | 0.67 | 69.49 | 2.19 | 1.65 | 94 | 0.158 | 0.432 | 0.98 | 0.000 | 0.385 | 737.33 | 4.205 | 1.293E+05 | 2.030E+06 | 15.70 | 0.1542 | 0.908 | 0.350 | | 1.24 | **1.70** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.28 | 136.56 | 0.5857 | 38.17 | 0.69 | 1.81% | 1.836 | 0.69 | 64.17 | 2.29 | 1.90 | 103 | 0.180 | 0.494 | 0.98 | 0.000 | 0.385 | 769.64 | 4.241 | 1.397E+05 | 2.030E+06 | 14.53 | 0.1542 | 0.911 | 0.351 | | 1.41 | **1.94** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.33 | 137.51 | 0.5892 | 40.12 | 0.77 | 1.92% | 1.948 | 0.69 | 67.10 | 2.29 | 1.91 | 108 | 0.196 | 0.539 | 0.98 | 0.000 | 0.385 | 788.20 | 4.271 | 1.455E+05 | 2.030E+06 | 13.95 | 0.1542 | 0.912 | 0.351 | | 1.54 | **2.11** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.40 | 139.26 | 0.5940 | 39.93 | 0.98 | 2.45% | 2.491 | 0.72 | 66.22 | 2.36 | 2.15 | 122 | 0.247 | 0.630 | 0.98 | 0.000 | 0.385 | 829.00 | 4.325 | 1.589E+05 | 2.030E+06 | 12.78 | 0.1542 | 0.915 | 0.353 | | 1.79 | **2.46** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.45 | 140.21 | 0.5975 | 39.05 | 1.13 | 2.89% | 2.939 | 0.73 | 64.35 | 2.41 | 2.37 | 132 | 0.292 | 0.746 | 0.98 | 0.000 | 0.385 | 853.09 | 4.354 | 1.671E+05 | 2.030E+06 | 12.15 | 0.1542 | 0.917 | 0.353 | | 2.11 | **2.91** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.54 | 141.08 | 0.6039 | 36.90 | 1.29 | 3.50% | 3.554 | 0.75 | 60.10 | 2.49 | 2.71 | 143 | 0.350 | 0.417 | 0.98 | 0.000 | 0.385 | 875.49 | 4.381 | 1.749E+05 | 2.030E+06 | 11.60 | 0.1542 | 0.918 | 0.354 | | 1.18 | **1.62** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.59 | 141.15 | 0.6074 | 36.12 | 1.32 | 3.65% | 3.717 | 0.76 | 58.47 | 2.51 | 2.82 | 145 | 0.363 | 0.432 | 0.98 | 0.000 | 0.385 | 879.38 | 4.384 | 1.764E+05 | 2.030E+06 | 11.51 | 0.1542 | 0.919 | 0.354 | | 1.22 | **1.68** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.69 | 137.32 | 0.6143 | 36.12 | 0.78 | 2.16% | 2.197 | 0.72 | 57.80 | 2.36 | 2.17 | 108 | 0.197 | 0.552 | 0.98 | 0.000 | 0.385 | 790.38 | 4.265 | 1.465E+05 | 2.030E+06 | 13.86 | 0.1542 | 0.913 | 0.351 | | 1.57 | **2.16** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.73 | 136.92 | 0.6170 | 37.78 | 0.73 | 1.93% | 1.964 | 0.70 | 60.23 | 2.32 | 2.01 | 104 | 0.184 | 0.518 | 0.98 | 0.000 | 0.385 | 779.18 | 4.252 | 1.428E+05 | 2.030E+06 | 14.22 | 0.1542 | 0.912 | 0.351 | | 1.48 | **2.03** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.82 | 135.76 | 0.6231 | 44.32 | 0.59 | 1.33% | 1.350 | 0.66 | 70.13 | 2.17 | 1.60 | 94 | 0.158 | 0.412 | 0.98 | 0.000 | 0.385 | 743.16 | 4.216 | 1.310E+05 | 2.030E+06 | 15.50 | 0.1542 | 0.908 | 0.349 | | 1.18 | **1.62** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.86 | 135.50 | 0.6258 | 48.03 | 0.55 | 1.15% | 1.160 | 0.64 | 75.75 | 2.11 | 1.47 | 93 | 0.154 | 0.403 | 0.98 | 0.000 | 0.385 | 731.28 | 4.208 | 1.271E+05 | 2.030E+06 | 15.97 | 0.1542 | 0.907 | 0.349 | | 1.15 | **1.59** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 9.92 | 135.30 | 0.6299 | 55.64 | 0.51 | 0.92% | 0.927 | 0.61 | 87.33 | 2.00 | 1.30 | 94 | 0.156 | 0.381 | 0.98 | 0.000 | 0.385 | 718.51 | 4.202 | 1.229E+05 | 2.030E+06 | 16.52 | 0.1542 | 0.906 | 0.348 | | 1.09 | **1.50** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.00 | 134.80 | 0.6353 | 63.16 | 0.46 | 0.73% | 0.736 | 0.58 | 98.42 | 1.91 | 1.20 | 96 | 0.161 | 0.366 | 0.98 | 0.000 | 0.385 | 701.06 | 4.186 | 1.174E+05 | 2.030E+06 | 17.29 | 0.1542 | 0.904 | 0.348 | | 1.05 | **1.45** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.04 | 133.40 | 0.6380 | 44.42 | 0.43 | 0.97% | 0.982 | 0.64 | 68.76 | 2.10 | 1.45 | 83 | 0.134 | 0.382 | 0.98 | 0.001 | 0.385 | 689.65 | 4.143 | 1.148E+05 | 2.030E+06 | 17.68 | 0.1542 | 0.903 | 0.348 | | 1.10 | **1.51** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.11 | 134.23 | 0.6427 | 70.97 | 0.41 | 0.58% | 0.583 | 0.55 | 110.02 | 1.81 | 1.12 | 99 | 0.170 | 0.359 | 0.98 | 0.003 | 0.387 | 681.59 | 4.169 | 1.114E+05 | 2.030E+06 | 18.22 | 0.1542 | 0.901 | 0.348 | | 1.03 | **1.42** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.18 | 134.53 | 0.6474 | 77.22 | 0.41 | 0.53% | 0.535 | 0.54 | 119.32 | 1.77 | 1.08 | 103 | 0.183 | 0.360 | 0.98 | 0.006 | 0.388 | 681.59 | 4.178 | 1.112E+05 | 2.030E+06 | 18.26 | 0.1542 | 0.901 | 0.349 | | 1.03 | **1.42** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.25 | 135.15 | 0.6521 | 81.22 | 0.44 | 0.54% | 0.546 | 0.53 | 125.05 | 1.75 | 1.07 | 107 | 0.195 | 0.358 | 0.98 | 0.008 | 0.389 | 693.54 | 4.197 | 1.146E+05 | 2.030E+06 | 17.71 | 0.1542 | 0.903 | 0.351 | | 1.02 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.33 | 135.76 | 0.6575 | 86.20 | 0.47 | 0.55% | 0.549 | 0.53 | 132.17 | 1.74 | 1.06 | 112 | 0.211 | 0.359 | 0.98 | 0.010 | 0.390 | 704.69 | 4.216 | 1.178E+05 | 2.030E+06 | 17.24 | 0.1542 | 0.904 | 0.353 | | 1.02 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.39 | 136.17 | 0.6616 | 89.32 | 0.49 | 0.55% | 0.553 | 0.53 | 136.52 | 1.73 | 1.05 | 115 | 0.222 | 0.378 | 0.98 | 0.012 | 0.391 | 711.74 | 4.229 | 1.198E+05 | 2.030E+06 | 16.95 | 0.1542 | 0.905 | 0.354 | | 1.07 | **1.47** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.48 | 136.86 | 0.6678 | 92.55 | 0.54 | 0.58% | 0.588 | 0.53 | 140.75 | 1.73 | 1.06 | 119 | 0.238 | 0.374 | 0.98 | 0.015 | 0.393 | 728.18 | 4.250 | 1.248E+05 | 2.030E+06 | 16.27 | 0.1542 | 0.906 | 0.356 | | 1.05 | **1.44** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.52 | 137.08 | 0.6705 | 94.01 | 0.55 | 0.59% | 0.589 | 0.53 | 142.66 | 1.72 | 1.05 | 121 | 0.243 | 0.383 | 0.98 | 0.016 | 0.394 | 731.28 | 4.257 | 1.256E+05 | 2.030E+06 | 16.16 | 0.1542 | 0.907 | 0.357 | | 1.07 | **1.48** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.59 | 137.42 | 0.6753 | 96.06 | 0.57 | 0.59% | 0.598 | 0.52 | 145.20 | 1.72 | 1.05 | 123 | 0.252 | 0.363 | 0.97 | 0.018 | 0.395 | 737.33 | 4.268 | 1.274E+05 | 2.030E+06 | 15.94 | 0.1542 | 0.907 | 0.358 | | 1.01 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.64 | 137.66 | 0.6788 | 96.65 | 0.59 | 0.61% | 0.615 | 0.53 | 145.68 | 1.73 | 1.06 | 124 | 0.257 | 0.371 | 0.97 | 0.020 | 0.396 | 743.16 | 4.275 | 1.292E+05 | 2.030E+06 | 15.71 | 0.1542 | 0.908 | 0.359 | | 1.03 | **1.42** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.70 | 137.94 | 0.6829 | 96.94 | 0.61 | 0.63% | 0.634 | 0.53 | 145.61 | 1.73 | 1.06 | 125 | 0.260 | 0.377 | 0.97 | 0.022 | 0.397 | 748.80 | 4.284 | 1.309E+05 | 2.030E+06 | 15.51 | 0.1542 | 0.908 | 0.360 | | 1.05 | **1.44** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.78 | 138.02 | 0.6884 | 96.26 | 0.62 | 0.64% | 0.649 | 0.53 | 143.92 | 1.74 | 1.07 | 124 | 0.259 | 0.377 | 0.97 | 0.024 | 0.398 | 751.55 | 4.286 | 1.318E+05 | 2.030E+06 | 15.41 | 0.1542 | 0.909 | 0.362 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.83 | 138.03 | 0.6919 | 94.79 | 0.62 | 0.65% | 0.659 | 0.53 | 141.29 | 1.75 | 1.07 | 123 | 0.253 | 0.370 | 0.97 | 0.026 | 0.399 | 751.55 | 4.287 | 1.318E+05 | 2.030E+06 | 15.41 | 0.1542 | 0.909 | 0.362 | | 1.02 | **1.41** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.92 | 137.87 | 0.6981 | 91.18 | 0.62 | 0.68% | 0.685 | 0.54 | 135.17 | 1.78 | 1.09 | 120 | 0.242 | 0.388 | 0.97 | 0.029 | 0.400 | 751.55 | 4.282 | 1.319E+05 | 2.030E+06 | 15.39 | 0.1542 | 0.909 | 0.364 | | 1.07 | **1.47** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 10.97 | 137.74 | 0.7015 | 87.86 | 0.61 | 0.69% | 0.700 | 0.55 | 129.84 | 1.79 | 1.10 | 117 | 0.230 | 0.370 | 0.97 | 0.030 | 0.401 | 748.80 | 4.278 | 1.311E+05 | 2.030E+06 | 15.49 | 0.1542 | 0.908 | 0.364 | | 1.02 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.05 | 137.55 | 0.7070 | 82.10 | 0.61 | 0.74% | 0.749 | 0.56 | 120.71 | 1.83 | 1.13 | 113 | 0.214 | 0.374 | 0.97 | 0.033 | 0.402 | 748.80 | 4.272 | 1.313E+05 | 2.030E+06 | 15.47 | 0.1542 | 0.908 | 0.365 | | 1.02 | **1.41** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.10 | 137.43 | 0.7105 | 78.29 | 0.61 | 0.78% | 0.786 | 0.57 | 114.74 | 1.86 | 1.16 | 110 | 0.204 | 0.385 | 0.97 | 0.034 | 0.403 | 748.80 | 4.268 | 1.314E+05 | 2.030E+06 | 15.45 | 0.1542 | 0.908 | 0.366 | | 1.05 | **1.45** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.19 | 137.26 | 0.7166 | 73.61 | 0.61 | 0.83% | 0.837 | 0.58 | 107.27 | 1.90 | 1.19 | 107 | 0.192 | 0.365 | 0.97 | 0.037 | 0.404 | 748.80 | 4.263 | 1.315E+05 | 2.030E+06 | 15.43 | 0.1542 | 0.908 | 0.367 | | 0.99 | **1.37** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.24 | 137.32 | 0.7201 | 71.56 | 0.62 | 0.87% | 0.875 | 0.58 | 103.97 | 1.92 | 1.21 | 105 | 0.189 | 0.386 | 0.97 | 0.039 | 0.405 | 751.55 | 4.265 | 1.324E+05 | 2.030E+06 | 15.33 | 0.1542 | 0.909 | 0.368 | | 1.05 | **1.44** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.29 | 137.48 | 0.7235 | 70.48 | 0.64 | 0.91% | 0.917 | 0.59 | 102.09 | 1.94 | 1.23 | 105 | 0.189 | 0.387 | 0.97 | 0.040 | 0.406 | 756.92 | 4.270 | 1.342E+05 | 2.030E+06 | 15.13 | 0.1542 | 0.909 | 0.369 | | 1.05 | **1.44** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.35 | 137.68 | 0.7276 | 70.58 | 0.65 | 0.92% | 0.931 | 0.59 | 101.90 | 1.94 | 1.23 | 106 | 0.190 | 0.390 | 0.97 | 0.042 | 0.407 | 759.54 | 4.276 | 1.349E+05 | 2.030E+06 | 15.05 | 0.1542 | 0.909 | 0.370 | | 1.05 | **1.45** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.46 | 137.84 | 0.7352 | 76.15 | 0.65 | 0.85% | 0.862 | 0.58 | 109.35 | 1.90 | 1.19 | 109 | 0.201 | 0.385 | 0.97 | 0.046 | 0.409 | 759.54 | 4.281 | 1.348E+05 | 2.030E+06 | 15.06 | 0.1542 | 0.909 | 0.372 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.51 | 138.07 | 0.7387 | 82.30 | 0.66 | 0.80% | 0.809 | 0.57 | 117.94 | 1.86 | 1.15 | 114 | 0.217 | 0.386 | 0.97 | 0.047 | 0.409 | 762.12 | 4.288 | 1.355E+05 | 2.030E+06 | 14.99 | 0.1542 | 0.910 | 0.372 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.55 | 138.17 | 0.7414 | 84.74 | 0.66 | 0.78% | 0.786 | 0.56 | 121.20 | 1.84 | 1.14 | 115 | 0.223 | 0.368 | 0.97 | 0.048 | 0.410 | 762.12 | 4.291 | 1.354E+05 | 2.030E+06 | 15.00 | 0.1542 | 0.910 | 0.373 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.64 | 138.49 | 0.7477 | 95.28 | 0.66 | 0.69% | 0.698 | 0.54 | 135.73 | 1.77 | 1.09 | 123 | 0.252 | 0.384 | 0.97 | 0.051 | 0.411 | 762.12 | 4.301 | 1.350E+05 | 2.030E+06 | 15.03 | 0.1542 | 0.910 | 0.374 | | 1.03 | **1.41** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.68 | 138.66 | 0.7504 | 101.23 | 0.66 | 0.65% | 0.657 | 0.53 | 143.95 | 1.74 | 1.06 | 127 | 0.270 | 0.376 | 0.97 | 0.052 | 0.412 | 762.12 | 4.306 | 1.349E+05 | 2.030E+06 | 15.05 | 0.1542 | 0.909 | 0.374 | | 1.00 | **1.38** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |

**LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA** TEST LOCATION: **CPT-5**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

Project No.: 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2

Discrete Column Spacing (ft): 8.0 Unit Tributary Area, A (ft$^2$): 45.83 Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 Magnitude: 6.62 Magnitude Scaling Factor: 1.38 Discrete Coumn Dia. (ft): 3.0 Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft$^2$): 7.07 $A_R = A_{sc}/A$: 0.154 Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet Accleration: 0.606 g's Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | $\rho$ (lb-sec$^2$)/ft$^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Depths of Liquifiable Layer Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11.77 | 138.95 | 0.7567 | 109.14 | 0.67 | 0.61% | 0.618 | 0.52 | 154.51 | 1.70 | 1.04 | 132 | 0.296 | 0.372 | 0.97 | 0.055 | 0.413 | 764.67 | 4.315 | 1.355E+05 | 2.030E+06 | 14.98 | 0.1542 | 0.910 | 0.376 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.82 | 138.84 | 0.7602 | 113.14 | 0.66 | 0.58% | 0.587 | 0.51 | 159.77 | 1.67 | 1.02 | 134 | 0.306 | 0.339 | 0.97 | 0.057 | 0.414 | 762.12 | 4.312 | 1.347E+05 | 2.030E+06 | 15.07 | 0.1542 | 0.909 | 0.376 | | 0.90 | **1.24** | <= | 0.27 | 0.002 | 0.00 | 3.96 | 0.00 | 11.77 | 11.82 |
| 11.89 | 136.35 | 0.7649 | 115.10 | 0.46 | 0.40% | 0.402 | 0.50 | 161.96 | 1.58 | 1.00 | 133 | 0.301 | 0.382 | 0.97 | 0.059 | 0.415 | 701.06 | 4.234 | 1.161E+05 | 2.030E+06 | 17.49 | 0.1542 | 0.903 | 0.375 | | 1.02 | **1.40** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 11.95 | 136.47 | 0.7690 | 115.49 | 0.47 | 0.41% | 0.410 | 0.50 | 161.99 | 1.58 | 1.00 | 134 | 0.302 | 0.385 | 0.97 | 0.061 | 0.416 | 704.69 | 4.238 | 1.172E+05 | 2.030E+06 | 17.33 | 0.1542 | 0.904 | 0.376 | | 1.03 | **1.41** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 12.04 | 137.16 | 0.7752 | 114.41 | 0.52 | 0.45% | 0.458 | 0.50 | 159.70 | 1.61 | 1.00 | 132 | 0.294 | 0.377 | 0.97 | 0.064 | 0.417 | 721.79 | 4.260 | 1.223E+05 | 2.030E+06 | 16.60 | 0.1542 | 0.905 | 0.377 | | 1.00 | **1.38** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 12.11 | 137.84 | 0.7800 | 113.14 | 0.57 | 0.50% | 0.507 | 0.50 | 157.33 | 1.64 | 1.00 | 130 | 0.284 | 0.366 | 0.97 | 0.066 | 0.418 | 737.33 | 4.281 | 1.270E+05 | 2.030E+06 | 15.98 | 0.1542 | 0.907 | 0.379 | | 0.97 | **1.33** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 12.16 | 138.12 | 0.7835 | 103.58 | 0.61 | 0.59% | 0.593 | 0.52 | 143.55 | 1.71 | 1.04 | 125 | 0.263 | 0.376 | 0.97 | 0.067 | 0.419 | 748.80 | 4.289 | 1.307E+05 | 2.030E+06 | 15.53 | 0.1542 | 0.908 | 0.380 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 12.21 | 138.83 | 0.7869 | 101.43 | 0.68 | 0.67% | 0.676 | 0.53 | 140.17 | 1.75 | 1.07 | 126 | 0.267 | 0.383 | 0.97 | 0.069 | 0.419 | 767.17 | 4.312 | 1.365E+05 | 2.030E+06 | 14.87 | 0.1542 | 0.910 | 0.381 | | 1.00 | **1.38** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 12.29 | 139.82 | 0.7925 | 105.72 | 0.77 | 0.73% | 0.734 | 0.53 | 145.51 | 1.76 | 1.08 | 132 | 0.294 | 0.384 | 0.97 | 0.071 | 0.420 | 788.20 | 4.342 | 1.431E+05 | 2.030E+06 | 14.19 | 0.1542 | 0.912 | 0.383 | | 1.00 | **1.38** | | 0.00 | 0.000 | 0.00 | 3.96 | 0.00 | | |
| 12.34 | 140.49 | 0.7960 | 105.72 | 0.84 | 0.79% | 0.801 | 0.54 | 145.11 | 1.78 | 1.09 | 134 | 0.305 | 0.354 | 0.97 | 0.073 | 0.421 | 802.92 | 4.363 | 1.478E+05 | 2.030E+06 | 13.74 | 0.1542 | 0.913 | 0.384 | | 0.92 | **1.27** | <= | 0.29 | 0.002 | 0.00 | 3.96 | 0.00 | 12.29 | 12.34 |
| 12.41 | 141.43 | 0.8010 | 105.72 | 0.96 | 0.91% | 0.915 | 0.55 | 144.55 | 1.82 | 1.12 | 138 | 0.323 | 0.377 | 0.97 | 0.075 | 0.422 | 825.51 | 4.392 | 1.552E+05 | 2.030E+06 | 13.08 | 0.1542 | 0.915 | 0.386 | | 0.98 | **1.34** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 12.51 | 142.25 | 0.8081 | 106.31 | 1.07 | 1.01% | 1.014 | 0.56 | 144.56 | 1.84 | 1.14 | 141 | 0.341 | 0.346 | 0.97 | 0.078 | 0.423 | 843.86 | 4.418 | 1.612E+05 | 2.030E+06 | 12.59 | 0.1542 | 0.916 | 0.388 | | 0.89 | **1.23** | <= | 0.25 | 0.003 | 0.00 | 3.95 | 0.00 | 12.41 | 12.51 |
| 12.55 | 142.57 | 0.8110 | 107.09 | 1.11 | 1.04% | 1.044 | 0.56 | 145.31 | 1.85 | 1.15 | 143 | 0.350 | 0.357 | 0.97 | 0.080 | 0.424 | 850.07 | 4.428 | 1.632E+05 | 2.030E+06 | 12.44 | 0.1542 | 0.916 | 0.388 | | 0.92 | **1.27** | <= | 0.28 | 0.001 | 0.00 | 3.95 | 0.00 | 12.51 | 12.55 |
| 12.60 | 142.91 | 0.8145 | 108.36 | 1.16 | 1.07% | 1.079 | 0.56 | 146.64 | 1.86 | 1.15 | 145 | 0.363 | 0.372 | 0.97 | 0.081 | 0.424 | 857.52 | 4.438 | 1.657E+05 | 2.030E+06 | 12.25 | 0.1542 | 0.917 | 0.389 | | 0.96 | **1.32** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 12.68 | 143.12 | 0.8203 | 110.41 | 1.19 | 1.08% | 1.086 | 0.56 | 148.77 | 1.85 | 1.15 | 147 | 0.375 | 0.375 | 0.97 | 0.084 | 0.425 | 861.84 | 4.445 | 1.671E+05 | 2.030E+06 | 12.15 | 0.1542 | 0.917 | 0.390 | | 0.96 | **1.32** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 12.75 | 143.34 | 0.8253 | 112.85 | 1.21 | 1.07% | 1.080 | 0.56 | 151.49 | 1.85 | 1.14 | 149 | 0.387 | 0.387 | 0.97 | 0.086 | 0.426 | 864.66 | 4.452 | 1.679E+05 | 2.030E+06 | 12.09 | 0.1542 | 0.917 | 0.391 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 12.81 | 143.57 | 0.8296 | 115.29 | 1.24 | 1.08% | 1.083 | 0.56 | 154.28 | 1.84 | 1.14 | 151 | 0.402 | 0.402 | 0.97 | 0.088 | 0.427 | 868.80 | 4.459 | 1.693E+05 | 2.030E+06 | 11.99 | 0.1542 | 0.917 | 0.392 | | 1.03 | **1.41** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 12.86 | 143.86 | 0.8332 | 118.02 | 1.28 | 1.08% | 1.092 | 0.56 | 157.52 | 1.84 | 1.13 | 154 | 0.420 | 0.420 | 0.97 | 0.089 | 0.428 | 874.17 | 4.468 | 1.710E+05 | 2.030E+06 | 11.87 | 0.1542 | 0.918 | 0.392 | | 1.07 | **1.47** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 12.95 | 144.55 | 0.8397 | 126.42 | 1.38 | 1.09% | 1.099 | 0.55 | 167.97 | 1.82 | 1.12 | 162 | 0.477 | 0.477 | 0.97 | 0.092 | 0.429 | 886.90 | 4.489 | 1.752E+05 | 2.030E+06 | 11.59 | 0.1542 | 0.918 | 0.394 | | 1.21 | **1.67** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.00 | 144.97 | 0.8433 | 131.30 | 1.44 | 1.10% | 1.104 | 0.55 | 174.01 | 1.81 | 1.11 | 167 | 0.514 | 0.514 | 0.97 | 0.094 | 0.429 | 894.10 | 4.502 | 1.776E+05 | 2.030E+06 | 11.43 | 0.1542 | 0.919 | 0.395 | | 1.30 | **1.79** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.07 | 145.50 | 0.8484 | 137.16 | 1.53 | 1.12% | 1.122 | 0.55 | 181.12 | 1.80 | 1.11 | 173 | 0.563 | 0.563 | 0.97 | 0.096 | 0.430 | 904.35 | 4.519 | 1.810E+05 | 2.030E+06 | 11.22 | 0.1542 | 0.919 | 0.396 | | 1.42 | **1.96** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.14 | 146.04 | 0.8535 | 141.16 | 1.63 | 1.15% | 1.162 | 0.55 | 185.70 | 1.80 | 1.11 | 178 | 0.606 | 0.606 | 0.97 | 0.098 | 0.431 | 915.06 | 4.535 | 1.846E+05 | 2.030E+06 | 11.00 | 0.1542 | 0.920 | 0.397 | | 1.53 | **2.10** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.19 | 146.22 | 0.8572 | 142.82 | 1.66 | 1.16% | 1.169 | 0.55 | 187.37 | 1.80 | 1.11 | 180 | 0.621 | 0.621 | 0.97 | 0.100 | 0.432 | 918.15 | 4.541 | 1.856E+05 | 2.030E+06 | 10.94 | 0.1542 | 0.920 | 0.397 | | 1.56 | **2.15** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.27 | 146.26 | 0.8630 | 144.29 | 1.67 | 1.16% | 1.164 | 0.55 | 188.47 | 1.80 | 1.11 | 181 | 0.630 | 0.630 | 0.97 | 0.102 | 0.433 | 919.16 | 4.542 | 1.860E+05 | 2.030E+06 | 10.91 | 0.1542 | 0.920 | 0.398 | | 1.58 | **2.18** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.33 | 146.18 | 0.8674 | 143.31 | 1.65 | 1.15% | 1.158 | 0.55 | 186.56 | 1.80 | 1.11 | 179 | 0.617 | 0.617 | 0.97 | 0.104 | 0.433 | 917.13 | 4.540 | 1.853E+05 | 2.030E+06 | 10.96 | 0.1542 | 0.920 | 0.399 | | 1.55 | **2.13** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.40 | 146.06 | 0.8725 | 141.75 | 1.63 | 1.15% | 1.157 | 0.55 | 183.81 | 1.80 | 1.11 | 178 | 0.600 | 0.600 | 0.97 | 0.106 | 0.434 | 915.06 | 4.536 | 1.846E+05 | 2.030E+06 | 11.00 | 0.1542 | 0.920 | 0.399 | | 1.50 | **2.07** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.47 | 146.03 | 0.8776 | 141.80 | 1.62 | 1.14% | 1.150 | 0.55 | 183.17 | 1.80 | 1.11 | 177 | 0.596 | 0.596 | 0.97 | 0.108 | 0.435 | 914.02 | 4.535 | 1.842E+05 | 2.030E+06 | 11.02 | 0.1542 | 0.920 | 0.400 | | 1.49 | **2.05** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.52 | 146.01 | 0.8813 | 141.80 | 1.62 | 1.14% | 1.150 | 0.55 | 182.67 | 1.80 | 1.11 | 177 | 0.594 | 0.594 | 0.97 | 0.110 | 0.436 | 914.02 | 4.534 | 1.842E+05 | 2.030E+06 | 11.02 | 0.1542 | 0.920 | 0.401 | | 1.48 | **2.04** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.58 | 146.02 | 0.8857 | 141.84 | 1.62 | 1.14% | 1.149 | 0.55 | 182.12 | 1.80 | 1.11 | 177 | 0.592 | 0.592 | 0.97 | 0.112 | 0.436 | 914.02 | 4.535 | 1.842E+05 | 2.030E+06 | 11.02 | 0.1542 | 0.920 | 0.401 | | 1.48 | **2.03** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.67 | 146.00 | 0.8922 | 143.90 | 1.61 | 1.12% | 1.126 | 0.55 | 183.88 | 1.79 | 1.10 | 177 | 0.599 | 0.599 | 0.97 | 0.115 | 0.437 | 912.97 | 4.534 | 1.838E+05 | 2.030E+06 | 11.04 | 0.1542 | 0.920 | 0.402 | | 1.49 | **2.05** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.74 | 146.13 | 0.8973 | 145.07 | 1.63 | 1.12% | 1.131 | 0.55 | 184.68 | 1.79 | 1.10 | 178 | 0.608 | 0.608 | 0.97 | 0.117 | 0.438 | 915.06 | 4.538 | 1.845E+05 | 2.030E+06 | 11.00 | 0.1542 | 0.920 | 0.403 | | 1.51 | **2.08** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.80 | 146.20 | 0.9017 | 145.26 | 1.65 | 1.14% | 1.143 | 0.55 | 184.33 | 1.79 | 1.10 | 179 | 0.611 | 0.611 | 0.97 | 0.119 | 0.439 | 917.13 | 4.540 | 1.853E+05 | 2.030E+06 | 10.96 | 0.1542 | 0.920 | 0.404 | | 1.51 | **2.08** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.87 | 144.13 | 0.9068 | 145.75 | 1.24 | 0.85% | 0.856 | 0.52 | 184.27 | 1.71 | 1.04 | 168 | 0.523 | 0.523 | 0.97 | 0.121 | 0.439 | 868.80 | 4.476 | 1.686E+05 | 2.030E+06 | 12.04 | 0.1542 | 0.917 | 0.403 | | 1.30 | **1.79** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.93 | 141.54 | 0.9110 | 145.46 | 0.87 | 0.60% | 0.602 | 0.50 | 183.34 | 1.61 | 1.00 | 160 | 0.458 | 0.458 | 0.97 | 0.123 | 0.440 | 808.86 | 4.396 | 1.488E+05 | 2.030E+06 | 13.64 | 0.1542 | 0.913 | 0.402 | | 1.14 | **1.57** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 13.98 | 141.90 | 0.9146 | 144.29 | 0.92 | 0.64% | 0.642 | 0.50 | 181.40 | 1.63 | 1.00 | 158 | 0.448 | 0.448 | 0.97 | 0.124 | 0.441 | 818.31 | 4.407 | 1.520E+05 | 2.030E+06 | 13.36 | 0.1542 | 0.914 | 0.403 | | 1.11 | **1.53** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.07 | 142.65 | 0.9210 | 140.97 | 1.02 | 0.72% | 0.728 | 0.51 | 176.38 | 1.68 | 1.02 | 158 | 0.447 | 0.447 | 0.97 | 0.127 | 0.442 | 835.76 | 4.430 | 1.577E+05 | 2.030E+06 | 12.87 | 0.1542 | 0.915 | 0.404 | | 1.11 | **1.52** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.11 | 142.89 | 0.9238 | 139.50 | 1.06 | 0.76% | 0.765 | 0.52 | 174.18 | 1.69 | 1.03 | 158 | 0.448 | 0.448 | 0.97 | 0.128 | 0.442 | 842.27 | 4.438 | 1.599E+05 | 2.030E+06 | 12.70 | 0.1542 | 0.916 | 0.405 | | 1.11 | **1.52** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.19 | 143.16 | 0.9296 | 138.33 | 1.11 | 0.80% | 0.808 | 0.52 | 172.00 | 1.71 | 1.05 | 159 | 0.451 | 0.451 | 0.97 | 0.131 | 0.443 | 850.07 | 4.446 | 1.625E+05 | 2.030E+06 | 12.49 | 0.1542 | 0.916 | 0.406 | | 1.11 | **1.53** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.25 | 143.24 | 0.9339 | 136.18 | 1.12 | 0.82% | 0.828 | 0.53 | 168.79 | 1.73 | 1.05 | 157 | 0.442 | 0.442 | 0.97 | 0.133 | 0.444 | 851.58 | 4.448 | 1.630E+05 | 2.030E+06 | 12.45 | 0.1542 | 0.916 | 0.406 | | 1.09 | **1.50** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.31 | 143.51 | 0.9382 | 138.04 | 1.16 | 0.84% | 0.846 | 0.53 | 170.59 | 1.73 | 1.06 | 159 | 0.457 | 0.457 | 0.97 | 0.134 | 0.444 | 857.52 | 4.457 | 1.650E+05 | 2.030E+06 | 12.30 | 0.1542 | 0.917 | 0.407 | | 1.12 | **1.54** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.38 | 143.89 | 0.9432 | 134.04 | 1.24 | 0.93% | 0.932 | 0.54 | 165.02 | 1.76 | 1.08 | 159 | 0.452 | 0.452 | 0.97 | 0.137 | 0.445 | 868.80 | 4.469 | 1.689E+05 | 2.030E+06 | 12.02 | 0.1542 | 0.917 | 0.408 | | 1.11 | **1.52** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.45 | 144.34 | 0.9483 | 137.74 | 1.30 | 0.94% | 0.950 | 0.54 | 169.00 | 1.76 | 1.08 | 163 | 0.479 | 0.479 | 0.97 | 0.139 | 0.446 | 876.80 | 4.483 | 1.715E+05 | 2.030E+06 | 11.84 | 0.1542 | 0.918 | 0.409 | | 1.17 | **1.61** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.52 | 144.63 | 0.9533 | 143.31 | 1.34 | 0.94% | 0.941 | 0.53 | 175.25 | 1.75 | 1.07 | 167 | 0.514 | 0.514 | 0.97 | 0.141 | 0.446 | 881.92 | 4.492 | 1.732E+05 | 2.030E+06 | 11.72 | 0.1542 | 0.918 | 0.410 | | 1.25 | **1.72** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.59 | 144.81 | 0.9584 | 148.58 | 1.35 | 0.91% | 0.915 | 0.53 | 181.09 | 1.73 | 1.06 | 171 | 0.542 | 0.542 | 0.97 | 0.143 | 0.447 | 883.18 | 4.497 | 1.734E+05 | 2.030E+06 | 11.70 | 0.1542 | 0.918 | 0.410 | | 1.32 | **1.82** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.64 | 144.89 | 0.9620 | 151.12 | 1.36 | 0.90% | 0.906 | 0.52 | 183.74 | 1.72 | 1.05 | 172 | 0.556 | 0.556 | 0.97 | 0.145 | 0.448 | 884.43 | 4.500 | 1.738E+05 | 2.030E+06 | 11.68 | 0.1542 | 0.918 | 0.411 | | 1.35 | **1.86** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.70 | 144.96 | 0.9664 | 154.63 | 1.36 | 0.88% | 0.885 | 0.52 | 187.46 | 1.71 | 1.04 | 174 | 0.574 | 0.574 | 0.97 | 0.147 | 0.448 | 884.43 | 4.502 | 1.738E+05 | 2.030E+06 | 11.68 | 0.1542 | 0.918 | 0.411 | | 1.39 | **1.92** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.79 | 144.86 | 0.9729 | 159.12 | 1.33 | 0.84% | 0.841 | 0.51 | 192.06 | 1.68 | 1.03 | 176 | 0.588 | 0.588 | 0.96 | 0.149 | 0.449 | 880.66 | 4.499 | 1.724E+05 | 2.030E+06 | 11.78 | 0.1542 | 0.918 | 0.412 | | 1.43 | **1.96** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.83 | 144.87 | 0.9758 | 162.25 | 1.33 | 0.82% | 0.825 | 0.51 | 195.46 | 1.67 | 1.02 | 178 | 0.604 | 0.604 | 0.96 | 0.151 | 0.449 | 880.66 | 4.499 | 1.724E+05 | 2.030E+06 | 11.78 | 0.1542 | 0.918 | 0.413 | | 1.46 | **2.01** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.92 | 144.96 | 0.9823 | 168.30 | 1.33 | 0.79% | 0.795 | 0.50 | 201.88 | 1.65 | 1.00 | 181 | 0.633 | 0.633 | 0.96 | 0.154 | 0.450 | 880.66 | 4.502 | 1.723E+05 | 2.030E+06 | 11.78 | 0.1542 | 0.918 | 0.413 | | 1.53 | **2.11** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 14.97 | 145.00 | 0.9859 | 171.13 | 1.33 | 0.78% | 0.782 | 0.50 | 204.78 | 1.64 | 1.00 | 183 | 0.647 | 0.647 | 0.96 | 0.155 | 0.451 | 880.66 | 4.503 | 1.722E+05 | 2.030E+06 | 11.79 | 0.1542 | 0.918 | 0.414 | | 1.56 | **2.15** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.05 | 145.30 | 0.9917 | 179.04 | 1.36 | 0.76% | 0.764 | 0.50 | 213.44 | 1.62 | 1.00 | 191 | 0.730 | 0.730 | 0.96 | 0.158 | 0.452 | 884.43 | 4.512 | 1.733E+05 | 2.030E+06 | 11.71 | 0.1542 | 0.918 | 0.415 | | 1.76 | **2.42** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.10 | 145.48 | 0.9954 | 184.21 | 1.38 | 0.75% | 0.753 | 0.50 | 219.09 | 1.61 | 1.00 | 196 | 0.785 | 0.785 | 0.96 | 0.159 | 0.452 | 886.90 | 4.518 | 1.741E+05 | 2.030E+06 | 11.66 | 0.1542 | 0.918 | 0.415 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.16 | 145.62 | 0.9997 | 190.36 | 1.39 | 0.73% | 0.734 | 0.50 | 225.76 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.161 | 0.453 | 888.12 | 4.522 | 1.744E+05 | 2.030E+06 | 11.64 | 0.1542 | 0.918 | 0.416 | | 1.98 | **2.73** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.24 | 145.76 | 1.0056 | 201.00 | 1.39 | 0.69% | 0.695 | 0.50 | 237.50 | 1.56 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.163 | 0.453 | 888.12 | 4.527 | 1.742E+05 | 2.030E+06 | 11.65 | 0.1542 | 0.918 | 0.416 | | 1.98 | **2.72** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.32 | 146.01 | 1.0114 | 209.50 | 1.42 | 0.68% | 0.681 | 0.50 | 246.61 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.166 | 0.454 | 891.73 | 4.534 | 1.754E+05 | 2.030E+06 | 11.58 | 0.1542 | 0.918 | 0.417 | | 1.98 | **2.72** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.37 | 146.21 | 1.0151 | 214.38 | 1.45 | 0.68% | 0.680 | 0.50 | 251.75 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.168 | 0.455 | 895.27 | 4.541 | 1.765E+05 | 2.030E+06 | 11.50 | 0.1542 | 0.919 | 0.418 | | 1.97 | **2.72** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.44 | 146.48 | 1.0202 | 222.19 | 1.49 | 0.67% | 0.674 | 0.50 | 260.06 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.170 | 0.455 | 899.87 | 4.549 | 1.780E+05 | 2.030E+06 | 11.40 | 0.1542 | 0.919 | 0.418 | | 1.97 | **2.71** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.50 | 146.63 | 1.0246 | 226.19 | 1.51 | 0.67% | 0.671 | 0.50 | 263.97 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.172 | 0.456 | 902.13 | 4.554 | 1.787E+05 | 2.030E+06 | 11.36 | 0.1542 | 0.919 | 0.419 | | 1.97 | **2.71** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.57 | 147.30 | 1.0298 | 231.27 | 1.64 | 0.71% | 0.712 | 0.50 | 268.98 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.174 | 0.456 | 916.10 | 4.575 | 1.835E+05 | 2.030E+06 | 11.07 | 0.1542 | 0.920 | 0.420 | | 1.96 | **2.70** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.64 | 147.47 | 1.0349 | 236.25 | 1.67 | 0.71% | 0.710 | 0.50 | 273.84 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.176 | 0.457 | 919.16 | 4.580 | 1.845E+05 | 2.030E+06 | 11.00 | 0.1542 | 0.920 | 0.420 | | 1.96 | **2.70** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.69 | 146.89 | 1.0386 | 240.44 | 1.53 | 0.64% | 0.639 | 0.50 | 278.03 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.178 | 0.457 | 904.35 | 4.562 | 1.793E+05 | 2.030E+06 | 11.32 | 0.1542 | 0.919 | 0.420 | | 1.96 | **2.70** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.77 | 146.90 | 1.0445 | 244.15 | 1.53 | 0.63% | 0.629 | 0.50 | 281.23 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.180 | 0.458 | 904.35 | 4.562 | 1.793E+05 | 2.030E+06 | 11.32 | 0.1542 | 0.919 | 0.421 | | 1.96 | **2.69** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.81 | 147.00 | 1.0474 | 245.32 | 1.54 | 0.63% | 0.630 | 0.50 | 282.03 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.181 | 0.458 | 905.45 | 4.565 | 1.796E+05 | 2.030E+06 | 11.30 | 0.1542 | 0.919 | 0.421 | | 1.96 | **2.69** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.91 | 145.32 | 1.0547 | 245.71 | 1.23 | 0.50% | 0.503 | 0.50 | 281.12 | 1.40 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.184 | 0.459 | 867.43 | 4.513 | 1.667E+05 | 2.030E+06 | 12.18 | 0.1542 | 0.917 | 0.421 | | 1.96 | **2.69** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 15.95 | 144.36 | 1.0576 | 246.20 | 1.08 | 0.44% | 0.441 | 0.50 | 281.15 | 1.37 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.186 | 0.460 | 845.43 | 4.483 | 1.594E+05 | 2.030E+06 | 12.73 | 0.1542 | 0.915 | 0.421 | | 1.96 | **2.69** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.04 | 145.04 | 1.0641 | 245.91 | 1.18 | 0.48% | 0.482 | 0.50 | 279.62 | 1.39 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.188 | 0.460 | 860.41 | 4.504 | 1.644E+05 | 2.030E+06 | 12.35 | 0.1542 | 0.916 | 0.422 | | 1.95 | **2.69** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.08 | 145.39 | 1.0670 | 244.64 | 1.24 | 0.51% | 0.509 | 0.50 | 277.64 | 1.41 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.190 | 0.461 | 868.80 | 4.515 | 1.672E+05 | 2.030E+06 | 12.14 | 0.1542 | 0.917 | 0.423 | | 1.95 | **2.68** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.15 | 145.75 | 1.0721 | 243.76 | 1.30 | 0.53% | 0.536 | 0.50 | 275.71 | 1.43 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.192 | 0.461 | 876.80 | 4.526 | 1.698E+05 | 2.030E+06 | 11.95 | 0.1542 | 0.917 | 0.423 | | 1.95 | **2.68** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.21 | 146.04 | 1.0765 | 242.69 | 1.36 | 0.56% | 0.563 | 0.50 | 273.71 | 1.44 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.194 | 0.462 | 884.43 | 4.535 | 1.725E+05 | 2.030E+06 | 11.77 | 0.1542 | 0.918 | 0.424 | | 1.94 | **2.67** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.29 | 146.21 | 1.0823 | 241.57 | 1.39 | 0.58% | 0.578 | 0.50 | 271.41 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.196 | 0.463 | 888.12 | 4.541 | 1.737E+05 | 2.030E+06 | 11.69 | 0.1542 | 0.918 | 0.425 | | 1.94 | **2.67** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.35 | 146.49 | 1.0867 | 243.47 | 1.44 | 0.59% | 0.594 | 0.50 | 272.77 | 1.46 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.198 | 0.463 | 894.10 | 4.549 | 1.757E+05 | 2.030E+06 | 11.55 | 0.1542 | 0.918 | 0.425 | | 1.94 | **2.67** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.43 | 146.97 | 1.0926 | 240.44 | 1.55 | 0.64% | 0.648 | 0.50 | 268.33 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.201 | 0.464 | 906.55 | 4.564 | 1.801E+05 | 2.030E+06 | 11.27 | 0.1542 | 0.919 | 0.426 | | 1.93 | **2.66** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.49 | 147.32 | 1.0970 | 244.25 | 1.62 | 0.66% | 0.666 | 0.50 | 271.82 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.202 | 0.464 | 914.02 | 4.575 | 1.826E+05 | 2.030E+06 | 11.12 | 0.1542 | 0.920 | 0.427 | | 1.93 | **2.66** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.56 | 147.74 | 1.1022 | 247.18 | 1.70 | 0.69% | 0.691 | 0.50 | 274.18 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.205 | 0.465 | 922.18 | 4.588 | 1.853E+05 | 2.030E+06 | 10.95 | 0.1542 | 0.920 | 0.428 | | 1.93 | **2.65** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.63 | 148.06 | 1.1074 | 249.23 | 1.77 | 0.71% | 0.713 | 0.50 | 275.53 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.207 | 0.465 | 929.00 | 4.598 | 1.877E+05 | 2.030E+06 | 10.82 | 0.1542 | 0.920 | 0.428 | | 1.92 | **2.65** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.67 | 148.22 | 1.1103 | 251.57 | 1.81 | 0.72% | 0.723 | 0.50 | 277.60 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.208 | 0.466 | 932.78 | 4.603 | 1.890E+05 | 2.030E+06 | 10.74 | 0.1542 | 0.921 | 0.429 | | 1.92 | **2.65** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.75 | 149.00 | 1.1163 | 255.09 | 2.00 | 0.78% | 0.787 | 0.50 | 280.42 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.211 | 0.466 | 949.67 | 4.627 | 1.949E+05 | 2.030E+06 | 10.42 | 0.1542 | 0.921 | 0.430 | | 1.92 | **2.64** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.80 | 149.18 | 1.1200 | 257.04 | 2.05 | 0.80% | 0.801 | 0.50 | 281.89 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.212 | 0.467 | 953.84 | 4.633 | 1.964E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.430 | | 1.92 | **2.64** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.87 | 148.71 | 1.1252 | 259.19 | 1.91 | 0.74% | 0.740 | 0.50 | 283.31 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.214 | 0.467 | 941.88 | 4.618 | 1.921E+05 | 2.030E+06 | 10.57 | 0.1542 | 0.921 | 0.430 | | 1.92 | **2.64** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 16.94 | 148.74 | 1.1304 | 260.16 | 1.92 | 0.74% | 0.741 | 0.50 | 283.43 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.217 | 0.468 | 942.76 | 4.619 | 1.924E+05 | 2.030E+06 | 10.55 | 0.1542 | 0.921 | 0.431 | | 1.91 | **2.63** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.03 | 148.76 | 1.1371 | 261.14 | 1.92 | 0.74% | 0.738 | 0.50 | 283.29 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.219 | 0.468 | 942.76 | 4.620 | 1.924E+05 | 2.030E+06 | 10.55 | 0.1542 | 0.921 | 0.431 | | 1.91 | **2.63** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.07 | 148.78 | 1.1401 | 261.63 | 1.93 | 0.74% | 0.741 | 0.50 | 283.29 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.221 | 0.469 | 943.64 | 4.621 | 1.927E+05 | 2.030E+06 | 10.53 | 0.1542 | 0.921 | 0.432 | | 1.91 | **2.63** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.13 | 148.84 | 1.1446 | 261.48 | 1.94 | 0.74% | 0.745 | 0.50 | 282.32 | 1.51 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.222 | 0.469 | 944.51 | 4.622 | 1.930E+05 | 2.030E+06 | 10.52 | 0.1542 | 0.921 | 0.432 | | 1.91 | **2.62** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.20 | 148.92 | 1.1498 | 261.33 | 1.96 | 0.75% | 0.753 | 0.50 | 281.23 | 1.52 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.225 | 0.470 | 946.25 | 4.625 | 1.936E+05 | 2.030E+06 | 10.49 | 0.1542 | 0.921 | 0.433 | | 1.90 | **2.62** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.30 | 149.08 | 1.1572 | 260.75 | 2.01 | 0.77% | 0.774 | 0.50 | 279.29 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.228 | 0.470 | 950.51 | 4.630 | 1.951E+05 | 2.030E+06 | 10.40 | 0.1542 | 0.921 | 0.433 | | 1.90 | **2.62** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.33 | 149.14 | 1.1595 | 260.46 | 2.03 | 0.78% | 0.783 | 0.50 | 278.59 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.229 | 0.471 | 952.19 | 4.632 | 1.958E+05 | 2.030E+06 | 10.37 | 0.1542 | 0.922 | 0.434 | | 1.90 | **2.61** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.43 | 149.29 | 1.1669 | 259.68 | 2.07 | 0.80% | 0.801 | 0.50 | 276.45 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.232 | 0.471 | 955.49 | 4.636 | 1.969E+05 | 2.030E+06 | 10.31 | 0.1542 | 0.922 | 0.434 | | 1.90 | **2.61** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.47 | 149.30 | 1.1699 | 258.70 | 2.08 | 0.80% | 0.808 | 0.50 | 274.89 | 1.54 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.233 | 0.472 | 956.30 | 4.637 | 1.972E+05 | 2.030E+06 | 10.29 | 0.1542 | 0.922 | 0.435 | | 1.90 | **2.61** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.53 | 149.30 | 1.1744 | 257.14 | 2.08 | 0.81% | 0.813 | 0.50 | 272.46 | 1.55 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.235 | 0.472 | 956.30 | 4.637 | 1.972E+05 | 2.030E+06 | 10.29 | 0.1542 | 0.922 | 0.435 | | 1.89 | **2.61** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.61 | 149.35 | 1.1804 | 255.77 | 2.10 | 0.82% | 0.825 | 0.50 | 269.99 | 1.55 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.237 | 0.473 | 957.92 | 4.638 | 1.978E+05 | 2.030E+06 | 10.26 | 0.1542 | 0.922 | 0.436 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.67 | 149.37 | 1.1849 | 252.94 | 2.11 | 0.83% | 0.838 | 0.50 | 266.25 | 1.56 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.239 | 0.473 | 958.72 | 4.639 | 1.981E+05 | 2.030E+06 | 10.25 | 0.1542 | 0.922 | 0.436 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.74 | 149.40 | 1.1901 | 249.91 | 2.13 | 0.85% | 0.856 | 0.50 | 262.20 | 1.57 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.241 | 0.473 | 960.32 | 4.640 | 1.988E+05 | 2.030E+06 | 10.21 | 0.1542 | 0.922 | 0.436 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.80 | 149.34 | 1.1946 | 245.62 | 2.12 | 0.86% | 0.867 | 0.50 | 256.96 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.243 | 0.474 | 959.52 | 4.638 | 1.985E+05 | 2.030E+06 | 10.23 | 0.1542 | 0.922 | 0.437 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.88 | 149.13 | 1.2005 | 242.20 | 2.07 | 0.85% | 0.859 | 0.50 | 252.44 | 1.58 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.246 | 0.474 | 955.49 | 4.631 | 1.971E+05 | 2.030E+06 | 10.30 | 0.1542 | 0.922 | 0.437 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 17.93 | 148.90 | 1.2043 | 237.12 | 2.02 | 0.85% | 0.856 | 0.50 | 246.56 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.247 | 0.475 | 951.35 | 4.624 | 1.957E+05 | 2.030E+06 | 10.37 | 0.1542 | 0.922 | 0.437 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 18.01 | 148.64 | 1.2102 | 230.68 | 1.97 | 0.85% | 0.859 | 0.50 | 238.96 | 1.60 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.250 | 0.475 | 947.11 | 4.616 | 1.943E+05 | 2.030E+06 | 10.45 | 0.1542 | 0.921 | 0.438 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 18.05 | 148.51 | 1.2132 | 223.65 | 1.96 | 0.88% | 0.881 | 0.50 | 231.22 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.251 | 0.475 | 946.25 | 4.612 | 1.941E+05 | 2.030E+06 | 10.46 | 0.1542 | 0.921 | 0.438 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 18.12 | 148.08 | 1.2184 | 216.82 | 1.86 | 0.86% | 0.863 | 0.50 | 223.42 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.253 | 0.476 | 937.39 | 4.599 | 1.911E+05 | 2.030E+06 | 10.62 | 0.1542 | 0.921 | 0.438 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 18.19 | 147.50 | 1.2235 | 209.20 | 1.74 | 0.83% | 0.837 | 0.50 | 214.85 | 1.62 | 1.00 | 200 | 0.824 | 0.824 | 0.96 | 0.256 | 0.476 | 926.11 | 4.581 | 1.872E+05 | 2.030E+06 | 10.84 | 0.1542 | 0.920 | 0.438 | | 1.88 | **2.59** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 18.25 | 146.97 | 1.2279 | 202.08 | 1.64 | 0.81% | 0.817 | 0.50 | 206.95 | 1.63 | 1.00 | 200 | 0.823 | 0.823 | 0.96 | 0.257 | 0.477 | 916.10 | 4.564 | 1.839E+05 | 2.030E+06 | 11.04 | 0.1542 | 0.920 | 0.439 | | 1.88 | **2.58** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 18.32 | 146.49 | 1.2331 | 191.05 | 1.57 | 0.82% | 0.827 | 0.50 | 194.99 | 1.65 | 1.00 | 189 | 0.710 | 0.710 | 0.96 | 0.260 | 0.477 | 908.72 | 4.549 | 1.815E+05 | 2.030E+06 | 11.18 | 0.1542 | 0.919 | 0.439 | | 1.62 | **2.23** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 18.41 | 140.38 | 1.2394 | 177.38 | 0.70 | 0.39% | 0.397 | 0.50 | 180.29 | 1.48 | 1.00 | 175 | 0.576 | 0.576 | 0.96 | 0.262 | 0.478 | 772.08 | 4.360 | 1.367E+05 | 2.030E+06 | 14.85 | 0.1542 | 0.910 | 0.435 | | 1.33 | **1.82** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 18.45 | 140.29 | 1.2422 | 170.84 | 0.70 | 0.41% | 0.413 | 0.50 | 173.32 | 1.50 | 1.00 | 168 | 0.522 | 0.522 | 0.96 | 0.264 | 0.478 | 772.08 | 4.357 | 1.368E+05 | 2.030E+06 | 14.84 | 0.1542 | 0.910 | 0.435 | | 1.20 | **1.65** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 18.52 | 140.34 | 1.2471 | 158.34 | 0.72 | 0.45% | 0.458 | 0.50 | 160.09 | 1.55 | 1.00 | 156 | 0.430 | 0.430 | 0.96 | 0.266 | 0.479 | 776.84 | 4.358 | 1.385E+05 | 2.030E+06 | 14.66 | 0.1542 | 0.910 | 0.436 | | 0.99 | **1.36** | | 0.00 | 0.000 | 0.00 | 3.95 | 0.00 | | |
| 18.59 | 140.90 | 1.2520 | 147.31 | 0.80 | 0.54% | 0.548 | 0.50 | 148.43 | 1.62 | 1.00 | 144 | 0.360 | 0.360 | 0.96 | 0.268 | 0.479 | 794.67 | 4.376 | 1.443E+05 | 2.030E+06 | 14.07 | 0.1542 | 0.912 | 0.437 | | 0.82 | **1.13** | <= | 0.35 | 0.003 | 0.00 | 3.95 | 0.00 | 18.52 | 18.59 |
| 18.68 | 142.26 | 1.2584 | 138.43 | 0.98 | 0.71% | 0.714 | 0.52 | 138.89 | 1.72 | 1.05 | 142 | 0.347 | 0.347 | 0.96 | 0.271 | 0.480 | 829.00 | 4.418 | 1.556E+05 | 2.030E+06 | 13.05 | 0.1542 | 0.915 | 0.439 | | 0.79 | **1.09** | <= | 0.61 | 0.007 | 0.00 | 3.95 | 0.00 | 18.59 | 18.68 |
| 18.71 | 140.81 | 1.2605 | 64.43 | 1.04 | 1.61% | 1.646 | 0.67 | 63.89 | 2.20 | 1.68 | 105 | 0.189 | 0.421 | 0.96 | 0.272 | 0.480 | 839.05 | 4.373 | 1.610E+05 | 2.030E+06 | 12.61 | 0.1542 | 0.916 | 0.439 | | 0.96 | **1.32** | | 0.00 | 0.000 | 0.00 | 3.94 | 0.00 | | |
| 18.77 | 142.99 | 1.2648 | 118.81 | 1.14 | 0.96% | 0.970 | 0.56 | 118.59 | 1.85 | 1.15 | 133 | 0.300 | 0.352 | 0.96 | 0.274 | 0.480 | 854.58 | 4.441 | 1.645E+05 | 2.030E+06 | 12.34 | 0.1542 | 0.916 | 0.440 | | 0.80 | **1.10** | <= | 0.67 | 0.005 | 0.00 | 3.94 | 0.00 | 18.71 | 18.77 |
| 18.86 | 144.11 | 1.2713 | 115.98 | 1.34 | 1.16% | 1.168 | 0.58 | 115.30 | 1.91 | 1.20 | 136 | 0.314 | 0.328 | 0.96 | 0.276 | 0.481 | 881.92 | 4.475 | 1.738E+05 | 2.030E+06 | 11.68 | 0.1542 | 0.918 | 0.441 | | 0.74 | **1.02** | <= | 0.50 | 0.005 | 0.00 | 3.94 | 0.00 | 18.77 | 18.86 |
| 18.95 | 144.98 | 1.2778 | 111.29 | 1.53 | 1.37% | 1.391 | 0.60 | 110.17 | 1.98 | 1.27 | 138 | 0.325 | 0.341 | 0.96 | 0.279 | 0.481 | 904.35 | 4.503 | 1.816E+05 | 2.030E+06 | 11.18 | 0.1542 | 0.919 | 0.443 | | 0.77 | **1.06** | <= | 0.57 | 0.006 | 0.00 | 3.93 | 0.00 | 18.86 | 18.95 |
| 18.98 | 145.11 | 1.2800 | 108.17 | 1.57 | 1.45% | 1.469 | 0.61 | 106.91 | 2.00 | 1.31 | 138 | 0.322 | 0.339 | 0.96 | 0.280 | 0.482 | 908.72 | 4.507 | 1.832E+05 | 2.030E+06 | 11.08 | 0.1542 | 0.920 | 0.443 | | 0.77 | **1.05** | <= | 0.56 | 0.002 | 0.00 | 3.92 | 0.00 | 18.95 | 18.98 |
| 19.03 | 145.35 | 1.2836 | 102.99 | 1.65 | 1.60% | 1.622 | 0.62 | 101.51 | 2.05 | 1.37 | 137 | 0.321 | 0.383 | 0.95 | 0.282 | 0.482 | 917.13 | 4.514 | 1.863E+05 | 2.030E+06 | 10.89 | 0.1542 | 0.920 | 0.443 | | 0.86 | **1.19** | <= | 0.43 | 0.003 | 0.00 | 3.92 | 0.00 | 18.98 | 19.03 |
| 19.10 | 145.45 | 1.2887 | 97.52 | 1.70 | 1.74% | 1.767 | 0.64 | 95.77 | 2.09 | 1.44 | 137 | 0.317 | 0.419 | 0.95 | 0.284 | 0.482 | 922.18 | 4.517 | 1.883E+05 | 2.030E+06 | 10.78 | 0.1542 | 0.920 | 0.444 | | 0.94 | **1.30** | <= | 0.32 | 0.003 | 0.00 | 3.92 | 0.00 | 19.03 | 19.10 |
| 19.17 | 145.37 | 1.2938 | 91.86 | 1.72 | 1.87% | 1.899 | 0.65 | 89.87 | 2.14 | 1.52 | 135 | 0.310 | 0.448 | 0.95 | 0.286 | 0.483 | 924.15 | 4.515 | 1.892E+05 | 2.030E+06 | 10.73 | 0.1542 | 0.921 | 0.444 | | 1.01 | **1.39** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 19.24 | 145.22 | 1.2989 | 85.91 | 1.72 | 2.00% | 2.033 | 0.66 | 83.72 | 2.18 | 1.61 | 134 | 0.303 | 0.472 | 0.95 | 0.288 | 0.483 | 924.15 | 4.510 | 1.894E+05 | 2.030E+06 | 10.72 | 0.1542 | 0.921 | 0.445 | | 1.06 | **1.46** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 19.30 | 145.03 | 1.3033 | 81.51 | 1.70 | 2.09% | 2.120 | 0.67 | 79.17 | 2.21 | 1.68 | 132 | 0.295 | 0.461 | 0.95 | 0.290 | 0.484 | 922.18 | 4.504 | 1.888E+05 | 2.030E+06 | 10.75 | 0.1542 | 0.921 | 0.445 | | 1.03 | **1.42** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 19.37 | 144.62 | 1.3083 | 75.66 | 1.65 | 2.18% | 2.219 | 0.68 | 73.18 | 2.25 | 1.79 | 130 | 0.283 | 0.505 | 0.95 | 0.292 | 0.484 | 917.13 | 4.491 | 1.873E+05 | 2.030E+06 | 10.84 | 0.1542 | 0.920 | 0.445 | | 1.13 | **1.56** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 19.43 | 144.33 | 1.3126 | 71.17 | 1.62 | 2.28% | 2.319 | 0.69 | 68.59 | 2.28 | 1.88 | 128 | 0.276 | 0.525 | 0.95 | 0.294 | 0.484 | 914.02 | 4.482 | 1.864E+05 | 2.030E+06 | 10.89 | 0.1542 | 0.920 | 0.446 | | 1.18 | **1.62** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 19.51 | 144.11 | 1.3184 | 70.82 | 1.57 | 2.22% | 2.259 | 0.69 | 68.03 | 2.27 | 1.86 | 126 | 0.267 | 0.508 | 0.95 | 0.297 | 0.485 | 908.72 | 4.475 | 1.845E+05 | 2.030E+06 | 11.00 | 0.1542 | 0.920 | 0.446 | | 1.14 | **1.57** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 19.57 | 143.89 | 1.3227 | 70.82 | 1.53 | 2.16% | 2.202 | 0.69 | 67.86 | 2.27 | 1.84 | 124 | 0.259 | 0.495 | 0.95 | 0.299 | 0.485 | 904.35 | 4.469 | 1.830E+05 | 2.030E+06 | 11.09 | 0.1542 | 0.920 | 0.446 | | 1.11 | **1.53** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 19.65 | 143.60 | 1.3285 | 70.48 | 1.47 | 2.09% | 2.126 | 0.69 | 67.31 | 2.26 | 1.82 | 122 | 0.249 | 0.476 | 0.95 | 0.301 | 0.486 | 897.59 | 4.460 | 1.807E+05 | 2.030E+06 | 11.24 | 0.1542 | 0.919 | 0.446 | | 1.07 | **1.47** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 19.70 | 142.76 | 1.3320 | 73.70 | 1.29 | 1.75% | 1.783 | 0.67 | 70.30 | 2.19 | 1.65 | 115 | 0.223 | 0.426 | 0.95 | 0.303 | 0.486 | 875.49 | 4.434 | 1.729E+05 | 2.030E+06 | 11.74 | 0.1542 | 0.918 | 0.446 | | 0.96 | **1.32** | | 0.00 | 0.000 | 0.00 | 3.92 | 0.00 | | |
| 19.76 | 142.24 | 1.3363 | 78.49 | 1.18 | 1.50% | 1.529 | 0.65 | 74.78 | 2.13 | 1.51 | 112 | 0.212 | 0.406 | 0.95 | 0.305 | 0.486 | 860.41 | 4.417 | 1.676E+05 | 2.030E+06 | 12.11 | 0.1542 | 0.917 | 0.446 | | 0.91 | **1.25** | <= | 0.32 | 0.002 | 0.00 | 3.92 | 0.00 | 19.70 | 19.76 |
| 19.83 | 142.70 | 1.3413 | 86.98 | 1.21 | 1.39% | 1.413 | 0.63 | 82.77 | 2.07 | 1.40 | 116 | 0.225 | 0.383 | 0.95 | 0.307 | 0.487 | 864.66 | 4.432 | 1.687E+05 | 2.030E+06 | 12.03 | 0.1542 | 0.917 | 0.446 | | 0.86 | **1.18** | <= | 0.47 | 0.004 | 0.00 | 3.91 | 0.00 | 19.76 | 19.83 |
| 19.92 | 143.51 | 1.3478 | 100.84 | 1.29 | 1.28% | 1.297 | 0.61 | 95.83 | 2.00 | 1.30 | 124 | 0.258 | 0.355 | 0.95 | 0.310 | 0.487 | 875.49 | 4.457 | 1.720E+05 | 2.030E+06 | 11.80 | 0.1542 | 0.918 | 0.447 | | 0.79 | **1.09** | <= | 0.70 | 0.008 | 0.00 | 3.91 | 0.00 | 19.83 | 19.92 |
| 19.97 | 143.83 | 1.3514 | 103.97 | 1.33 | 1.28% | 1.296 | 0.60 | 98.64 | 1.99 | 1.29 | 127 | 0.270 | 0.371 | 0.95 | 0.311 | 0.487 | 880.66 | 4.467 | 1.736E+05 | 2.030E+06 | 11.69 | 0.1542 | 0.918 | 0.448 | | 0.83 | **1.14** | <= | 0.39 | 0.002 | 0.00 | 3.90 | 0.00 | 19.92 | 19.97 |
| 20.01 | 143.79 | 1.3542 | 96.45 | 1.36 | 1.41% | 1.430 | 0.62 | 91.27 | 2.04 | 1.36 | 124 | 0.258 | 0.384 | 0.95 | 0.312 | 0.488 | 884.43 | 4.466 | 1.752E+05 | 2.030E+06 | 11.59 | 0.1542 | 0.918 | 0.448 | | 0.86 | **1.18** | <= | 0.45 | 0.002 | 0.00 | 3.90 | 0.00 | 19.97 | 20.01 |
| 20.08 | 144.01 | 1.3593 | 93.52 | 1.42 | 1.52% | 1.541 | 0.63 | 88.21 | 2.07 | 1.41 | 125 | 0.260 | 0.389 | 0.95 | 0.314 | 0.488 | 891.73 | 4.472 | 1.778E+05 | 2.030E+06 | 11.42 | 0.1542 | 0.919 | 0.448 | | 0.87 | **1.19** | <= | 0.47 | 0.004 | 0.00 | 3.90 | 0.00 | 20.01 | 20.08 |
| 20.15 | 144.19 | 1.3643 | 89.71 | 1.47 | 1.64% | 1.664 | 0.64 | 84.33 | 2.11 | 1.48 | 125 | 0.261 | 0.419 | 0.95 | 0.317 | 0.488 | 897.59 | 4.478 | 1.799E+05 | 2.030E+06 | 11.28 | 0.1542 | 0.919 | 0.449 | | 0.93 | **1.28** | <= | 0.33 | 0.003 | 0.00 | 3.89 | 0.00 | 20.08 | 20.15 |
| 20.24 | 141.97 | 1.3707 | 83.56 | 1.11 | 1.33% | 1.351 | 0.63 | 78.18 | 2.07 | 1.41 | 111 | 0.206 | 0.377 | 0.95 | 0.319 | 0.489 | 850.07 | 4.409 | 1.639E+05 | 2.030E+06 | 12.39 | 0.1542 | 0.916 | 0.448 | | 0.84 | **1.16** | <= | 0.46 | 0.005 | 0.00 | 3.89 | 0.00 | 20.15 | 20.24 |
| 20.30 | 140.84 | 1.3749 | 80.05 | 0.97 | 1.21% | 1.233 | 0.63 | 74.67 | 2.06 | 1.39 | 105 | 0.186 | 0.362 | 0.95 | 0.321 | 0.489 | 827.26 | 4.374 | 1.565E+05 | 2.030E+06 | 12.97 | 0.1542 | 0.915 | 0.448 | | 0.81 | **1.11** | <= | 0.41 | 0.003 | 0.00 | 3.89 | 0.00 | 20.24 | 20.30 |
| 20.37 | 141.70 | 1.3799 | 79.85 | 1.09 | 1.37% | 1.389 | 0.64 | 74.28 | 2.10 | 1.45 | 109 | 0.199 | 0.365 | 0.95 | 0.324 | 0.490 | 846.99 | 4.401 | 1.630E+05 | 2.030E+06 | 12.45 | 0.1542 | 0.916 | 0.449 | | 0.81 | **1.12** | <= | 0.40 | 0.003 | 0.00 | 3.88 | 0.00 | 20.30 | 20.37 |
| 20.41 | 142.33 | 1.3827 | 81.12 | 1.18 | 1.45% | 1.480 | 0.64 | 75.37 | 2.11 | 1.48 | 112 | 0.211 | 0.387 | 0.95 | 0.325 | 0.490 | 860.41 | 4.420 | 1.675E+05 | 2.030E+06 | 12.12 | 0.1542 | 0.917 | 0.449 | | 0.86 | **1.19** | <= | 0.49 | 0.002 | 0.00 | 3.88 | 0.00 | 20.37 | 20.41 |
| 20.50 | 143.77 | 1.3892 | 90.40 | 1.38 | 1.53% | 1.550 | 0.64 | 83.85 | 2.09 | 1.44 | 121 | 0.247 | 0.401 | 0.95 | 0.328 | 0.490 | 886.90 | 4.465 | 1.762E+05 | 2.030E+06 | 11.52 | 0.1542 | 0.919 | 0.450 | | 0.89 | **1.22** | <= | 0.27 | 0.003 | 0.00 | 3.88 | 0.00 | 20.41 | 20.50 |
| 20.55 | 144.43 | 1.3928 | 96.74 | 1.48 | 1.53% | 1.552 | 0.63 | 89.64 | 2.07 | 1.40 | 127 | 0.269 | 0.380 | 0.95 | 0.329 | 0.491 | 898.73 | 4.485 | 1.801E+05 | 2.030E+06 | 11.27 | 0.1542 | 0.919 | 0.451 | | 0.84 | **1.16** | <= | 0.42 | 0.002 | 0.00 | 3.88 | 0.00 | 20.50 | 20.55 |
| 20.61 | 145.08 | 1.3972 | 93.42 | 1.64 | 1.76% | 1.782 | 0.64 | 86.31 | 2.12 | 1.50 | 130 | 0.286 | 0.404 | 0.95 | 0.331 | 0.491 | 916.10 | 4.506 | 1.863E+05 | 2.030E+06 | 10.90 | 0.1542 | 0.920 | 0.452 | | 0.89 | **1.23** | <= | 0.27 | 0.002 | 0.00 | 3.87 | 0.00 | 20.55 | 20.61 |
| 20.68 | 145.85 | 1.4023 | 103.77 | 1.76 | 1.70% | 1.719 | 0.63 | 95.75 | 2.08 | 1.42 | 137 | 0.320 | 0.379 | 0.95 | 0.333 | 0.491 | 928.04 | 4.530 | 1.901E+05 | 2.030E+06 | 10.68 | 0.1542 | 0.921 | 0.452 | | 0.84 | **1.15** | <= | 0.39 | 0.003 | 0.00 | 3.87 | 0.00 | 20.61 | 20.68 |
| 20.77 | 146.53 | 1.4089 | 112.56 | 1.88 | 1.67% | 1.691 | 0.62 | 103.60 | 2.05 | 1.37 | 144 | 0.355 | 0.355 | 0.95 | 0.336 | 0.492 | 939.20 | 4.551 | 1.938E+05 | 2.030E+06 | 10.47 | 0.1542 | 0.921 | 0.453 | | 0.78 | **1.08** | <= | 0.59 | 0.006 | 0.00 | 3.87 | 0.00 | 20.68 | 20.77 |
| 20.81 | 146.74 | 1.4118 | 117.54 | 1.90 | 1.62% | 1.636 | 0.62 | 108.07 | 2.03 | 1.33 | 146 | 0.370 | 0.370 | 0.95 | 0.337 | 0.492 | 940.99 | 4.557 | 1.943E+05 | 2.030E+06 | 10.45 | 0.1542 | 0.921 | 0.453 | | 0.82 | **1.12** | <= | 0.33 | 0.002 | 0.00 | 3.86 | 0.00 | 20.77 | 20.81 |
| 20.90 | 147.08 | 1.4184 | 122.71 | 1.97 | 1.61% | 1.624 | 0.61 | 112.48 | 2.01 | 1.31 | 150 | 0.393 | 0.393 | 0.95 | 0.340 | 0.492 | 947.11 | 4.568 | 1.964E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.454 | | 0.87 | **1.19** | <= | 0.41 | 0.004 | 0.00 | 3.86 | 0.00 | 20.81 | 20.90 |
| 20.95 | 147.36 | 1.4221 | 127.30 | 2.02 | 1.59% | 1.605 | 0.61 | 116.50 | 2.00 | 1.29 | 153 | 0.414 | 0.414 | 0.95 | 0.342 | 0.493 | 951.35 | 4.576 | 1.978E+05 | 2.030E+06 | 10.26 | 0.1542 | 0.922 | 0.454 | | 0.91 | **1.25** | <= | 0.26 | 0.002 | 0.00 | 3.86 | 0.00 | 20.90 | 20.95 |
| 21.04 | 148.16 | 1.4288 | 137.55 | 2.19 | 1.59% | 1.609 | 0.60 | 125.54 | 1.97 | 1.27 | 162 | 0.474 | 0.474 | 0.95 | 0.344 | 0.493 | 965.02 | 4.601 | 2.024E+05 | 2.030E+06 | 10.03 | 0.1542 | 0.922 | 0.455 | | 1.04 | **1.43** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.09 | 148.59 | 1.4325 | 147.31 | 2.27 | 1.54% | 1.556 | 0.59 | 134.27 | 1.94 | 1.23 | 168 | 0.524 | 0.524 | 0.95 | 0.346 | 0.493 | 971.09 | 4.615 | 2.044E+05 | 2.030E+06 | 9.93 | 0.1542 | 0.923 | 0.455 | | 1.15 | **1.58** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.13 | 149.01 | 1.4355 | 158.83 | 2.35 | 1.48% | 1.493 | 0.58 | 144.64 | 1.91 | 1.20 | 176 | 0.589 | 0.589 | 0.95 | 0.347 | 0.494 | 976.95 | 4.628 | 2.062E+05 | 2.030E+06 | 9.84 | 0.1542 | 0.923 | 0.456 | | 1.29 | **1.78** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.22 | 149.53 | 1.4422 | 174.26 | 2.44 | 1.40% | 1.412 | 0.57 | 158.24 | 1.86 | 1.16 | 187 | 0.685 | 0.685 | 0.95 | 0.350 | 0.494 | 983.31 | 4.644 | 2.082E+05 | 2.030E+06 | 9.75 | 0.1542 | 0.924 | 0.456 | | 1.50 | **2.07** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.26 | 149.72 | 1.4452 | 182.55 | 2.47 | 1.35% | 1.364 | 0.56 | 165.56 | 1.84 | 1.14 | 192 | 0.740 | 0.740 | 0.95 | 0.351 | 0.494 | 985.37 | 4.650 | 2.088E+05 | 2.030E+06 | 9.72 | 0.1542 | 0.924 | 0.457 | | 1.62 | **2.23** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.33 | 149.81 | 1.4504 | 191.63 | 2.46 | 1.28% | 1.294 | 0.55 | 173.37 | 1.81 | 1.11 | 197 | 0.795 | 0.795 | 0.95 | 0.353 | 0.495 | 984.69 | 4.653 | 2.084E+05 | 2.030E+06 | 9.74 | 0.1542 | 0.924 | 0.457 | | 1.74 | **2.39** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.39 | 149.84 | 1.4549 | 197.59 | 2.45 | 1.24% | 1.249 | 0.54 | 178.38 | 1.79 | 1.10 | 201 | 0.832 | 0.832 | 0.95 | 0.355 | 0.495 | 984.00 | 4.653 | 2.081E+05 | 2.030E+06 | 9.76 | 0.1542 | 0.924 | 0.457 | | 1.82 | **2.50** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.49 | 149.89 | 1.4624 | 201.49 | 2.45 | 1.22% | 1.225 | 0.54 | 181.19 | 1.78 | 1.09 | 203 | 0.856 | 0.856 | 0.95 | 0.358 | 0.495 | 984.00 | 4.655 | 2.080E+05 | 2.030E+06 | 9.76 | 0.1542 | 0.924 | 0.457 | | 1.87 | **2.57** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.53 | 149.94 | 1.4654 | 205.20 | 2.45 | 1.19% | 1.203 | 0.54 | 184.26 | 1.76 | 1.08 | 205 | 0.881 | 0.881 | 0.95 | 0.360 | 0.495 | 984.00 | 4.657 | 2.079E+05 | 2.030E+06 | 9.76 | 0.1542 | 0.924 | 0.458 | | 1.92 | **2.65** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.62 | 150.19 | 1.4722 | 213.79 | 2.50 | 1.17% | 1.177 | 0.53 | 191.34 | 1.75 | 1.07 | 211 | 0.951 | 0.951 | 0.95 | 0.363 | 0.496 | 987.41 | 4.664 | 2.090E+05 | 2.030E+06 | 9.71 | 0.1542 | 0.924 | 0.458 | | 2.08 | **2.86** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.66 | 150.34 | 1.4752 | 218.48 | 2.53 | 1.16% | 1.166 | 0.53 | 195.25 | 1.74 | 1.06 | 212 | 0.972 | 0.972 | 0.95 | 0.364 | 0.496 | 989.43 | 4.669 | 2.097E+05 | 2.030E+06 | 9.68 | 0.1542 | 0.924 | 0.458 | | 2.12 | **2.92** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.75 | 150.63 | 1.4820 | 223.16 | 2.61 | 1.17% | 1.177 | 0.53 | 198.75 | 1.73 | 1.06 | 212 | 0.968 | 0.968 | 0.95 | 0.367 | 0.496 | 994.70 | 4.678 | 2.115E+05 | 2.030E+06 | 9.60 | 0.1542 | 0.924 | 0.459 | | 2.11 | **2.90** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.79 | 150.76 | 1.4850 | 224.43 | 2.66 | 1.19% | 1.193 | 0.53 | 199.57 | 1.74 | 1.06 | 213 | 0.973 | 0.973 | 0.95 | 0.368 | 0.497 | 997.91 | 4.682 | 2.127E+05 | 2.030E+06 | 9.54 | 0.1542 | 0.925 | 0.459 | | 2.12 | **2.91** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.88 | 150.88 | 1.4918 | 223.55 | 2.70 | 1.21% | 1.216 | 0.53 | 198.07 | 1.74 | 1.07 | 214 | 0.986 | 0.986 | 0.95 | 0.371 | 0.497 | 1000.43 | 4.686 | 2.136E+05 | 2.030E+06 | 9.50 | 0.1542 | 0.925 | 0.460 | | 2.15 | **2.95** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.93 | 150.84 | 1.4955 | 222.09 | 2.70 | 1.22% | 1.224 | 0.53 | 196.38 | 1.75 | 1.07 | 214 | 0.994 | 0.994 | 0.95 | 0.372 | 0.497 | 1000.43 | 4.684 | 2.137E+05 | 2.030E+06 | 9.50 | 0.1542 | 0.925 | 0.460 | | 2.16 | **2.97** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 21.99 | 150.73 | 1.5001 | 220.43 | 2.66 | 1.21% | 1.215 | 0.53 | 194.44 | 1.75 | 1.07 | 214 | 0.994 | 0.994 | 0.95 | 0.374 | 0.497 | 997.91 | 4.681 | 2.127E+05 | 2.030E+06 | 9.54 | 0.1542 | 0.925 | 0.460 | | 2.16 | **2.97** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.07 | 150.57 | 1.5061 | 218.97 | 2.61 | 1.19% | 1.200 | 0.53 | 192.53 | 1.75 | 1.07 | 214 | 0.991 | 0.991 | 0.95 | 0.377 | 0.498 | 994.70 | 4.676 | 2.116E+05 | 2.030E+06 | 9.59 | 0.1542 | 0.924 | 0.460 | | 2.15 | **2.96** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.14 | 150.55 | 1.5114 | 217.11 | 2.61 | 1.20% | 1.211 | 0.53 | 190.36 | 1.75 | 1.07 | 213 | 0.975 | 0.975 | 0.95 | 0.379 | 0.498 | 994.70 | 4.675 | 2.116E+05 | 2.030E+06 | 9.59 | 0.1542 | 0.924 | 0.460 | | 2.12 | **2.91** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.19 | 150.53 | 1.5151 | 215.06 | 2.61 | 1.21% | 1.222 | 0.54 | 188.18 | 1.76 | 1.08 | 211 | 0.957 | 0.957 | 0.95 | 0.380 | 0.498 | 994.70 | 4.675 | 2.116E+05 | 2.030E+06 | 9.59 | 0.1542 | 0.924 | 0.461 | | 2.08 | **2.86** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.25 | 150.52 | 1.5196 | 212.13 | 2.62 | 1.24% | 1.244 | 0.54 | 185.16 | 1.77 | 1.09 | 209 | 0.934 | 0.934 | 0.95 | 0.382 | 0.499 | 995.35 | 4.675 | 2.119E+05 | 2.030E+06 | 9.58 | 0.1542 | 0.925 | 0.461 | | 2.03 | **2.79** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.32 | 150.71 | 1.5249 | 209.89 | 2.70 | 1.29% | 1.296 | 0.54 | 182.69 | 1.79 | 1.10 | 209 | 0.929 | 0.929 | 0.95 | 0.384 | 0.499 | 1000.43 | 4.680 | 2.138E+05 | 2.030E+06 | 9.49 | 0.1542 | 0.925 | 0.461 | | 2.01 | **2.77** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.38 | 149.91 | 1.5294 | 207.35 | 2.43 | 1.17% | 1.181 | 0.54 | 180.05 | 1.76 | 1.08 | 203 | 0.857 | 0.857 | 0.95 | 0.386 | 0.499 | 982.61 | 4.656 | 2.074E+05 | 2.030E+06 | 9.79 | 0.1542 | 0.924 | 0.461 | | 1.86 | **2.56** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.47 | 148.76 | 1.5361 | 204.91 | 2.09 | 1.02% | 1.028 | 0.52 | 177.30 | 1.72 | 1.05 | 195 | 0.773 | 0.773 | 0.95 | 0.389 | 0.499 | 957.11 | 4.620 | 1.983E+05 | 2.030E+06 | 10.24 | 0.1542 | 0.922 | 0.460 | | 1.68 | **2.31** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.56 | 148.98 | 1.5428 | 205.69 | 2.14 | 1.04% | 1.048 | 0.53 | 177.38 | 1.73 | 1.06 | 196 | 0.785 | 0.785 | 0.95 | 0.392 | 0.500 | 961.11 | 4.627 | 1.997E+05 | 2.030E+06 | 10.17 | 0.1542 | 0.922 | 0.461 | | 1.70 | **2.34** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.58 | 148.99 | 1.5443 | 206.18 | 2.15 | 1.04% | 1.051 | 0.53 | 177.67 | 1.73 | 1.06 | 197 | 0.789 | 0.789 | 0.95 | 0.392 | 0.500 | 961.90 | 4.627 | 2.000E+05 | 2.030E+06 | 10.15 | 0.1542 | 0.922 | 0.461 | | 1.71 | **2.36** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.64 | 149.03 | 1.5488 | 206.28 | 2.16 | 1.05% | 1.055 | 0.53 | 177.35 | 1.73 | 1.06 | 197 | 0.790 | 0.790 | 0.95 | 0.394 | 0.500 | 962.69 | 4.628 | 2.002E+05 | 2.030E+06 | 10.14 | 0.1542 | 0.922 | 0.461 | | 1.71 | **2.36** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.71 | 148.81 | 1.5540 | 198.56 | 2.12 | 1.07% | 1.076 | 0.53 | 170.21 | 1.75 | 1.07 | 191 | 0.731 | 0.731 | 0.95 | 0.397 | 0.500 | 959.52 | 4.621 | 1.992E+05 | 2.030E+06 | 10.19 | 0.1542 | 0.922 | 0.461 | | 1.58 | **2.18** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.78 | 148.69 | 1.5592 | 205.59 | 2.06 | 1.00% | 1.010 | 0.52 | 175.82 | 1.72 | 1.05 | 194 | 0.762 | 0.762 | 0.95 | 0.399 | 0.501 | 954.67 | 4.618 | 1.974E+05 | 2.030E+06 | 10.29 | 0.1542 | 0.922 | 0.461 | | 1.65 | **2.27** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.86 | 148.50 | 1.5651 | 202.76 | 2.02 | 1.00% | 1.004 | 0.52 | 172.86 | 1.72 | 1.05 | 192 | 0.734 | 0.734 | 0.95 | 0.401 | 0.501 | 951.35 | 4.612 | 1.962E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.462 | | 1.59 | **2.19** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 22.90 | 148.50 | 1.5681 | 204.91 | 2.01 | 0.98% | 0.988 | 0.52 | 174.45 | 1.71 | 1.05 | 193 | 0.744 | 0.744 | 0.95 | 0.402 | 0.501 | 950.51 | 4.612 | 1.959E+05 | 2.030E+06 | 10.36 | 0.1542 | 0.922 | 0.462 | | 1.61 | **2.22** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.00 | 148.49 | 1.5755 | 205.10 | 2.01 | 0.98% | 0.988 | 0.52 | 173.97 | 1.71 | 1.05 | 192 | 0.742 | 0.742 | 0.95 | 0.406 | 0.502 | 950.51 | 4.612 | 1.959E+05 | 2.030E+06 | 10.36 | 0.1542 | 0.922 | 0.462 | | 1.61 | **2.21** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.04 | 148.48 | 1.5785 | 204.13 | 2.01 | 0.98% | 0.992 | 0.52 | 172.88 | 1.71 | 1.05 | 192 | 0.735 | 0.735 | 0.95 | 0.407 | 0.502 | 950.51 | 4.611 | 1.959E+05 | 2.030E+06 | 10.36 | 0.1542 | 0.922 | 0.462 | | 1.59 | **2.19** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.11 | 148.47 | 1.5837 | 200.91 | 2.02 | 1.01% | 1.013 | 0.53 | 169.69 | 1.73 | 1.06 | 190 | 0.715 | 0.715 | 0.95 | 0.409 | 0.502 | 951.35 | 4.611 | 1.963E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.463 | | 1.55 | **2.13** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.17 | 148.43 | 1.5881 | 196.12 | 2.02 | 1.03% | 1.038 | 0.53 | 165.25 | 1.74 | 1.07 | 187 | 0.685 | 0.685 | 0.95 | 0.411 | 0.502 | 951.35 | 4.610 | 1.963E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.463 | | 1.48 | **2.04** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.27 | 148.19 | 1.5955 | 186.75 | 1.99 | 1.07% | 1.075 | 0.54 | 156.71 | 1.77 | 1.08 | 180 | 0.624 | 0.624 | 0.94 | 0.414 | 0.503 | 948.82 | 4.602 | 1.956E+05 | 2.030E+06 | 10.38 | 0.1542 | 0.921 | 0.463 | | 1.35 | **1.85** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.30 | 148.08 | 1.5978 | 181.77 | 1.98 | 1.09% | 1.099 | 0.54 | 152.33 | 1.78 | 1.10 | 177 | 0.595 | 0.595 | 0.94 | 0.415 | 0.503 | 947.97 | 4.599 | 1.954E+05 | 2.030E+06 | 10.39 | 0.1542 | 0.921 | 0.463 | | 1.28 | **1.77** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.40 | 147.82 | 1.6052 | 168.89 | 1.96 | 1.16% | 1.172 | 0.56 | 140.92 | 1.83 | 1.13 | 168 | 0.524 | 0.524 | 0.94 | 0.418 | 0.503 | 946.25 | 4.591 | 1.950E+05 | 2.030E+06 | 10.41 | 0.1542 | 0.921 | 0.464 | | 1.13 | **1.56** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.45 | 147.73 | 1.6088 | 157.46 | 1.98 | 1.26% | 1.270 | 0.57 | 131.05 | 1.87 | 1.17 | 162 | 0.475 | 0.475 | 0.94 | 0.420 | 0.503 | 947.97 | 4.588 | 1.959E+05 | 2.030E+06 | 10.36 | 0.1542 | 0.922 | 0.464 | | 1.02 | **1.41** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.52 | 147.50 | 1.6140 | 138.14 | 2.00 | 1.45% | 1.465 | 0.60 | 114.52 | 1.96 | 1.25 | 152 | 0.403 | 0.403 | 0.94 | 0.422 | 0.504 | 949.67 | 4.581 | 1.969E+05 | 2.030E+06 | 10.31 | 0.1542 | 0.922 | 0.464 | | 0.87 | **1.20** | <= | 0.42 | 0.003 | 0.00 | 3.85 | 0.00 | 23.45 | 23.52 |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-5

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

**Project No.:** 7109.23

**D (ft):** 1 **Magnitude:** 6.62 **Magnitude Scaling Factor:** 1.38

**Groundwater Level:** 10 feet **Accleration:** 0.606 g's

**Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular):** 2

**Discrete Column Spacing (ft):** 8.0 **Unit Tributary Area, A ($ft^2$):** 45.83 **Discrete Column Shear Modulus, $G_G$ (psf):** 2,030,000

**Discrete Coumn Dia. (ft):** 3.0 **Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$):** 7.07 **$A_R = A_{sc}/A$:** 0.154 **Assumed Discrete Column Density (pcf):** 130.00

**Discrete Coumn Intalled Depth (ft):** from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.56 | 147.34 | 1.6170 | 127.01 | 2.02 | 1.59% | 1.611 | 0.61 | 105.03 | 2.02 | 1.32 | 147 | 0.373 | 0.373 | 0.94 | 0.423 | 0.504 |
| 23.65 | 146.82 | 1.6236 | 97.82 | 2.05 | 2.10% | 2.131 | 0.66 | 80.32 | 2.19 | 1.64 | 138 | 0.323 | 0.444 | 0.94 | 0.426 | 0.504 |
| 23.71 | 146.39 | 1.6280 | 81.32 | 2.05 | 2.52% | 2.572 | 0.70 | 66.40 | 2.30 | 1.96 | 136 | 0.315 | 0.530 | 0.94 | 0.428 | 0.504 |
| 23.76 | 146.14 | 1.6316 | 73.02 | 2.05 | 2.81% | 2.872 | 0.72 | 59.38 | 2.37 | 2.21 | 137 | 0.317 | 0.566 | 0.94 | 0.429 | 0.504 |
| 23.84 | 146.07 | 1.6375 | 66.97 | 2.09 | 3.12% | 3.199 | 0.74 | 54.19 | 2.44 | 2.46 | 139 | 0.328 | 0.330 | 0.94 | 0.432 | 0.505 |
| 23.89 | 146.21 | 1.6411 | 67.65 | 2.13 | 3.15% | 3.227 | 0.74 | 54.65 | 2.44 | 2.46 | 140 | 0.335 | 0.337 | 0.94 | 0.433 | 0.505 |
| 23.97 | 146.31 | 1.6470 | 64.53 | 2.19 | 3.39% | 3.483 | 0.75 | 51.92 | 2.47 | 2.65 | 143 | 0.350 | 0.353 | 0.94 | 0.436 | 0.505 |
| 24.02 | 146.27 | 1.6506 | 63.26 | 2.19 | 3.46% | 3.555 | 0.75 | 50.78 | 2.49 | 2.71 | 143 | 0.351 | 0.368 | 0.94 | 0.437 | 0.505 |
| 24.11 | 145.37 | 1.6572 | 56.13 | 2.02 | 3.60% | 3.708 | 0.77 | 44.76 | 2.54 | 2.98 | 138 | 0.326 | 0.364 | 0.94 | 0.440 | 0.506 |
| 24.16 | 145.22 | 1.6608 | 63.84 | 1.90 | 2.98% | 3.056 | 0.74 | 51.01 | 2.44 | 2.48 | 132 | 0.293 | 0.307 | 0.94 | 0.442 | 0.506 |
| 24.23 | 143.80 | 1.6658 | 50.08 | 1.69 | 3.37% | 3.491 | 0.78 | 39.62 | 2.56 | 3.09 | 127 | 0.270 | 0.318 | 0.94 | 0.444 | 0.506 |
| 24.33 | 143.83 | 1.6730 | 64.43 | 1.56 | 2.42% | 2.486 | 0.72 | 51.19 | 2.37 | 2.21 | 119 | 0.235 | 0.502 | 0.94 | 0.447 | 0.507 |
| 24.38 | 144.44 | 1.6766 | 81.90 | 1.57 | 1.92% | 1.957 | 0.68 | 65.33 | 2.22 | 1.73 | 119 | 0.237 | 0.430 | 0.94 | 0.449 | 0.507 |
| 24.42 | 145.07 | 1.6795 | 104.85 | 1.57 | 1.50% | 1.522 | 0.63 | 83.90 | 2.07 | 1.40 | 125 | 0.261 | 0.369 | 0.94 | 0.450 | 0.507 |
| 24.48 | 146.08 | 1.6839 | 140.19 | 1.64 | 1.17% | 1.184 | 0.58 | 112.41 | 1.90 | 1.19 | 143 | 0.353 | 0.353 | 0.94 | 0.452 | 0.507 |
| 24.55 | 146.91 | 1.6891 | 164.88 | 1.74 | 1.06% | 1.066 | 0.55 | 132.13 | 1.81 | 1.12 | 159 | 0.456 | 0.456 | 0.94 | 0.454 | 0.507 |
| 24.62 | 147.49 | 1.6942 | 181.48 | 1.83 | 1.01% | 1.018 | 0.54 | 145.21 | 1.77 | 1.08 | 171 | 0.542 | 0.542 | 0.94 | 0.456 | 0.508 |
| 24.68 | 148.25 | 1.6987 | 190.27 | 1.99 | 1.05% | 1.055 | 0.54 | 151.99 | 1.77 | 1.08 | 178 | 0.608 | 0.608 | 0.94 | 0.458 | 0.508 |
| 24.77 | 145.96 | 1.7052 | 203.15 | 1.43 | 0.70% | 0.710 | 0.50 | 161.88 | 1.62 | 1.00 | 177 | 0.596 | 0.596 | 0.94 | 0.461 | 0.508 |
| 24.82 | 145.21 | 1.7089 | 207.74 | 1.28 | 0.62% | 0.621 | 0.50 | 165.29 | 1.58 | 1.00 | 181 | 0.631 | 0.631 | 0.94 | 0.462 | 0.508 |
| 24.87 | 145.90 | 1.7125 | 211.55 | 1.40 | 0.66% | 0.667 | 0.50 | 168.06 | 1.59 | 1.00 | 184 | 0.661 | 0.661 | 0.94 | 0.464 | 0.508 |
| 24.96 | 147.26 | 1.7191 | 217.21 | 1.67 | 0.77% | 0.775 | 0.50 | 172.06 | 1.63 | 1.00 | 189 | 0.706 | 0.706 | 0.94 | 0.467 | 0.509 |
| 25.00 | 147.79 | 1.7221 | 217.99 | 1.79 | 0.82% | 0.828 | 0.50 | 172.45 | 1.65 | 1.00 | 190 | 0.715 | 0.715 | 0.94 | 0.468 | 0.509 |
| 25.07 | 148.36 | 1.7273 | 200.52 | 1.99 | 0.99% | 1.001 | 0.53 | 158.14 | 1.73 | 1.06 | 183 | 0.654 | 0.654 | 0.94 | 0.470 | 0.509 |
| 25.15 | 149.07 | 1.7332 | 208.03 | 2.16 | 1.04% | 1.047 | 0.53 | 163.65 | 1.74 | 1.06 | 190 | 0.722 | 0.722 | 0.94 | 0.473 | 0.509 |
| 25.22 | 149.62 | 1.7385 | 211.25 | 2.32 | 1.10% | 1.107 | 0.53 | 165.80 | 1.75 | 1.07 | 195 | 0.766 | 0.766 | 0.94 | 0.475 | 0.510 |
| 25.28 | 150.12 | 1.7430 | 213.01 | 2.48 | 1.16% | 1.174 | 0.54 | 166.84 | 1.77 | 1.08 | 198 | 0.801 | 0.801 | 0.94 | 0.477 | 0.510 |
| 25.35 | 150.59 | 1.7483 | 213.89 | 2.64 | 1.23% | 1.244 | 0.54 | 167.13 | 1.79 | 1.10 | 201 | 0.831 | 0.831 | 0.94 | 0.479 | 0.510 |
| 25.40 | 150.76 | 1.7520 | 214.28 | 2.70 | 1.26% | 1.270 | 0.55 | 167.14 | 1.79 | 1.10 | 202 | 0.842 | 0.842 | 0.94 | 0.480 | 0.510 |
| 25.48 | 150.96 | 1.7581 | 215.35 | 2.77 | 1.29% | 1.297 | 0.55 | 167.51 | 1.80 | 1.10 | 203 | 0.857 | 0.857 | 0.94 | 0.483 | 0.510 |
| 25.53 | 151.06 | 1.7618 | 216.43 | 2.80 | 1.29% | 1.304 | 0.55 | 168.06 | 1.80 | 1.11 | 204 | 0.868 | 0.868 | 0.94 | 0.485 | 0.510 |
| 25.61 | 151.24 | 1.7679 | 217.40 | 2.87 | 1.32% | 1.331 | 0.55 | 168.35 | 1.80 | 1.11 | 205 | 0.883 | 0.883 | 0.94 | 0.487 | 0.511 |
| 25.66 | 151.33 | 1.7717 | 218.28 | 2.90 | 1.33% | 1.339 | 0.55 | 168.74 | 1.81 | 1.11 | 206 | 0.892 | 0.892 | 0.94 | 0.489 | 0.511 |
| 25.72 | 151.47 | 1.7762 | 221.02 | 2.94 | 1.33% | 1.341 | 0.55 | 170.52 | 1.80 | 1.11 | 208 | 0.916 | 0.916 | 0.94 | 0.490 | 0.511 |
| 25.80 | 151.67 | 1.7823 | 223.07 | 3.01 | 1.35% | 1.360 | 0.55 | 171.63 | 1.80 | 1.11 | 210 | 0.940 | 0.940 | 0.94 | 0.493 | 0.511 |
| 25.86 | 151.85 | 1.7868 | 226.87 | 3.07 | 1.35% | 1.364 | 0.55 | 174.21 | 1.80 | 1.11 | 213 | 0.976 | 0.976 | 0.94 | 0.495 | 0.511 |
| 25.93 | 152.03 | 1.7922 | 228.44 | 3.14 | 1.37% | 1.385 | 0.55 | 175.00 | 1.80 | 1.11 | 214 | 0.997 | 0.997 | 0.94 | 0.497 | 0.512 |
| 25.99 | 152.18 | 1.7967 | 229.31 | 3.20 | 1.40% | 1.407 | 0.55 | 175.30 | 1.81 | 1.11 | 216 | 1.011 | 1.011 | 0.94 | 0.499 | 0.512 |
| 26.07 | 152.30 | 1.8028 | 229.80 | 3.25 | 1.41% | 1.425 | 0.55 | 175.19 | 1.81 | 1.12 | 216 | 1.020 | 1.020 | 0.94 | 0.501 | 0.512 |
| 26.12 | 152.34 | 1.8066 | 229.12 | 3.28 | 1.43% | 1.443 | 0.55 | 174.36 | 1.82 | 1.12 | 216 | 1.018 | 1.018 | 0.94 | 0.503 | 0.512 |
| 26.20 | 152.36 | 1.8127 | 227.07 | 3.29 | 1.45% | 1.461 | 0.56 | 172.31 | 1.83 | 1.13 | 215 | 1.000 | 1.000 | 0.94 | 0.505 | 0.512 |
| 26.26 | 152.35 | 1.8173 | 224.82 | 3.30 | 1.47% | 1.480 | 0.56 | 170.23 | 1.83 | 1.13 | 213 | 0.983 | 0.983 | 0.94 | 0.507 | 0.512 |
| 26.33 | 152.27 | 1.8226 | 221.02 | 3.28 | 1.48% | 1.496 | 0.56 | 166.93 | 1.84 | 1.14 | 211 | 0.949 | 0.949 | 0.94 | 0.509 | 0.513 |
| 26.38 | 152.20 | 1.8264 | 218.58 | 3.26 | 1.49% | 1.504 | 0.56 | 164.79 | 1.85 | 1.14 | 209 | 0.926 | 0.926 | 0.94 | 0.511 | 0.513 |
| 26.45 | 152.08 | 1.8317 | 214.77 | 3.23 | 1.50% | 1.517 | 0.56 | 161.50 | 1.86 | 1.15 | 206 | 0.892 | 0.892 | 0.94 | 0.513 | 0.513 |
| 26.52 | 151.94 | 1.8371 | 211.06 | 3.19 | 1.51% | 1.525 | 0.57 | 158.31 | 1.86 | 1.16 | 203 | 0.858 | 0.858 | 0.94 | 0.515 | 0.513 |
| 26.60 | 151.78 | 1.8431 | 208.62 | 3.13 | 1.50% | 1.514 | 0.57 | 156.03 | 1.86 | 1.16 | 201 | 0.830 | 0.830 | 0.94 | 0.518 | 0.513 |
| 26.65 | 151.71 | 1.8469 | 208.67 | 3.10 | 1.49% | 1.499 | 0.57 | 155.80 | 1.86 | 1.15 | 200 | 0.823 | 0.823 | 0.94 | 0.519 | 0.513 |
| 26.72 | 151.66 | 1.8522 | 208.67 | 3.08 | 1.48% | 1.489 | 0.57 | 155.44 | 1.86 | 1.15 | 199 | 0.818 | 0.818 | 0.94 | 0.522 | 0.514 |
| 26.80 | 151.66 | 1.8583 | 208.72 | 3.08 | 1.48% | 1.489 | 0.57 | 155.05 | 1.86 | 1.15 | 199 | 0.815 | 0.815 | 0.94 | 0.524 | 0.514 |
| 26.86 | 151.75 | 1.8629 | 210.38 | 3.11 | 1.48% | 1.491 | 0.57 | 155.98 | 1.86 | 1.15 | 200 | 0.829 | 0.829 | 0.94 | 0.526 | 0.514 |
| 26.91 | 152.01 | 1.8667 | 212.91 | 3.21 | 1.51% | 1.521 | 0.57 | 157.61 | 1.86 | 1.15 | 203 | 0.859 | 0.859 | 0.94 | 0.528 | 0.514 |
| 27.00 | 150.32 | 1.8734 | 216.72 | 2.53 | 1.17% | 1.178 | 0.54 | 159.97 | 1.77 | 1.09 | 196 | 0.776 | 0.776 | 0.94 | 0.530 | 0.514 |
| 27.05 | 149.37 | 1.8772 | 217.70 | 2.22 | 1.02% | 1.029 | 0.53 | 160.44 | 1.73 | 1.06 | 192 | 0.734 | 0.734 | 0.94 | 0.532 | 0.514 |
| 27.10 | 149.56 | 1.8809 | 217.50 | 2.28 | 1.05% | 1.057 | 0.53 | 160.03 | 1.74 | 1.06 | 192 | 0.740 | 0.740 | 0.94 | 0.534 | 0.515 |
| 27.17 | 149.88 | 1.8861 | 215.94 | 2.39 | 1.11% | 1.117 | 0.54 | 158.51 | 1.76 | 1.08 | 193 | 0.746 | 0.746 | 0.94 | 0.536 | 0.515 |
| 27.25 | 150.25 | 1.8922 | 214.87 | 2.51 | 1.17% | 1.179 | 0.54 | 157.30 | 1.78 | 1.09 | 194 | 0.754 | 0.754 | 0.94 | 0.538 | 0.515 |
| 27.31 | 150.42 | 1.8967 | 212.57 | 2.58 | 1.21% | 1.225 | 0.55 | 155.30 | 1.79 | 1.10 | 193 | 0.749 | 0.749 | 0.94 | 0.540 | 0.515 |
| 27.37 | 150.60 | 1.9012 | 206.57 | 2.67 | 1.29% | 1.305 | 0.55 | 150.58 | 1.82 | 1.12 | 191 | 0.724 | 0.724 | 0.94 | 0.542 | 0.515 |
| 27.43 | 150.91 | 1.9057 | 210.28 | 2.77 | 1.32% | 1.329 | 0.56 | 153.00 | 1.82 | 1.12 | 194 | 0.759 | 0.759 | 0.93 | 0.544 | 0.515 |
| 27.50 | 151.36 | 1.9110 | 211.35 | 2.94 | 1.39% | 1.404 | 0.56 | 153.43 | 1.84 | 1.14 | 197 | 0.788 | 0.788 | 0.93 | 0.546 | 0.516 |
| 27.58 | 151.70 | 1.9171 | 212.33 | 3.08 | 1.45% | 1.464 | 0.56 | 153.75 | 1.85 | 1.15 | 199 | 0.812 | 0.812 | 0.93 | 0.548 | 0.516 |
| 27.64 | 151.90 | 1.9216 | 214.18 | 3.15 | 1.47% | 1.484 | 0.56 | 154.79 | 1.86 | 1.15 | 201 | 0.832 | 0.832 | 0.93 | 0.550 | 0.516 |
| 27.73 | 152.13 | 1.9285 | 219.06 | 3.23 | 1.47% | 1.488 | 0.56 | 157.88 | 1.85 | 1.15 | 204 | 0.873 | 0.873 | 0.93 | 0.553 | 0.516 |
| 27.77 | 152.24 | 1.9315 | 221.50 | 3.27 | 1.48% | 1.489 | 0.56 | 159.44 | 1.85 | 1.14 | 206 | 0.894 | 0.894 | 0.93 | 0.554 | 0.516 |
| 27.83 | 152.35 | 1.9361 | 224.34 | 3.30 | 1.47% | 1.484 | 0.56 | 161.19 | 1.84 | 1.14 | 208 | 0.916 | 0.916 | 0.93 | 0.556 | 0.516 |
| 27.91 | 152.47 | 1.9422 | 226.19 | 3.35 | 1.48% | 1.494 | 0.56 | 162.10 | 1.84 | 1.14 | 209 | 0.934 | 0.934 | 0.93 | 0.559 | 0.516 |
| 27.97 | 152.56 | 1.9468 | 227.95 | 3.38 | 1.48% | 1.496 | 0.56 | 163.05 | 1.84 | 1.14 | 211 | 0.949 | 0.949 | 0.93 | 0.561 | 0.517 |
| 28.03 | 152.64 | 1.9513 | 228.83 | 3.41 | 1.49% | 1.503 | 0.56 | 163.36 | 1.84 | 1.14 | 211 | 0.957 | 0.957 | 0.93 | 0.563 | 0.517 |
| 28.09 | 152.73 | 1.9559 | 229.90 | 3.45 | 1.50% | 1.514 | 0.56 | 163.81 | 1.84 | 1.14 | 212 | 0.969 | 0.969 | 0.93 | 0.564 | 0.517 |
| 28.15 | 152.84 | 1.9605 | 231.27 | 3.50 | 1.51% | 1.526 | 0.56 | 164.47 | 1.85 | 1.14 | 213 | 0.985 | 0.985 | 0.93 | 0.566 | 0.517 |
| 28.22 | 152.92 | 1.9659 | 232.54 | 3.53 | 1.52% | 1.531 | 0.56 | 165.00 | 1.85 | 1.14 | 214 | 0.996 | 0.996 | 0.93 | 0.568 | 0.517 |
| 28.28 | 153.09 | 1.9705 | 236.25 | 3.59 | 1.52% | 1.532 | 0.56 | 167.33 | 1.84 | 1.14 | 217 | 1.031 | 1.031 | 0.93 | 0.570 | 0.517 |
| 28.36 | 153.32 | 1.9766 | 241.52 | 3.68 | 1.52% | 1.536 | 0.56 | 170.64 | 1.84 | 1.13 | 221 | 1.082 | 1.082 | 0.93 | 0.573 | 0.517 |
| 28.43 | 153.48 | 1.9820 | 246.01 | 3.74 | 1.52% | 1.533 | 0.56 | 173.44 | 1.83 | 1.13 | 224 | 1.125 | 1.125 | 0.93 | 0.575 | 0.517 |
| 28.49 | 153.61 | 1.9866 | 248.84 | 3.79 | 1.52% | 1.535 | 0.56 | 175.11 | 1.83 | 1.13 | 226 | 1.147 | 1.147 | 0.93 | 0.577 | 0.518 |
| 28.57 | 153.65 | 1.9927 | 250.01 | 3.81 | 1.52% | 1.536 | 0.56 | 175.48 | 1.83 | 1.13 | 225 | 1.145 | 1.145 | 0.93 | 0.579 | 0.518 |
| 28.62 | 153.70 | 1.9966 | 250.11 | 3.83 | 1.53% | 1.544 | 0.56 | 175.27 | 1.83 | 1.13 | 226 | 1.149 | 1.149 | 0.93 | 0.581 | 0.518 |
| 28.71 | 153.87 | 2.0035 | 250.60 | 3.92 | 1.56% | 1.577 | 0.56 | 175.10 | 1.84 | 1.13 | 227 | 1.165 | 1.165 | 0.93 | 0.584 | 0.518 |
| 28.75 | 153.88 | 2.0066 | 250.89 | 3.92 | 1.56% | 1.575 | 0.56 | 175.08 | 1.84 | 1.13 | 227 | 1.164 | 1.164 | 0.93 | 0.585 | 0.518 |
| 28.83 | 153.85 | 2.0127 | 252.55 | 3.90 | 1.54% | 1.557 | 0.56 | 175.79 | 1.83 | 1.13 | 226 | 1.152 | 1.152 | 0.93 | 0.587 | 0.518 |
| 28.89 | 153.74 | 2.0173 | 254.31 | 3.83 | 1.51% | 1.518 | 0.55 | 176.68 | 1.82 | 1.12 | 224 | 1.130 | 1.130 | 0.93 | 0.589 | 0.518 |
| 28.96 | 153.20 | 2.0227 | 253.92 | 3.56 | 1.40% | 1.413 | 0.55 | 176.01 | 1.80 | 1.10 | 221 | 1.081 | 1.081 | 0.93 | 0.592 | 0.519 |
| 29.02 | 152.09 | 2.0273 | 250.99 | 3.07 | 1.22% | 1.233 | 0.53 | 173.63 | 1.75 | 1.07 | 215 | 1.003 | 1.003 | 0.93 | 0.593 | 0.519 |
| 29.07 | 151.48 | 2.0310 | 247.67 | 2.84 | 1.15% | 1.156 | 0.53 | 171.05 | 1.74 | 1.06 | 212 | 0.961 | 0.961 | 0.93 | 0.595 | 0.519 |
| 29.16 | 150.92 | 2.0378 | 246.50 | 2.63 | 1.07% | 1.076 | 0.52 | 169.76 | 1.72 | 1.05 | 208 | 0.915 | 0.915 | 0.93 | 0.598 | 0.519 |
| 29.21 | 150.67 | 2.0416 | 246.50 | 2.54 | 1.03% | 1.039 | 0.52 | 169.50 | 1.70 | 1.04 | 206 | 0.898 | 0.898 | 0.93 | 0.599 | 0.519 |
| 29.29 | 150.20 | 2.0476 | 246.79 | 2.39 | 0.97% | 0.977 | 0.51 | 169.28 | 1.68 | 1.03 | 204 | 0.871 | 0.871 | 0.93 | 0.602 | 0.519 |
| 29.34 | 149.74 | 2.0514 | 244.35 | 2.25 | 0.92% | 0.929 | 0.51 | 167.34 | 1.67 | 1.02 | 200 | 0.829 | 0.829 | 0.93 | 0.603 | 0.519 |
| 29.43 | 148.91 | 2.0581 | 241.91 | 2.01 | 0.83% | 0.838 | 0.50 | 165.21 | 1.64 | 1.00 | 195 | 0.767 | 0.767 | 0.93 | 0.606 | 0.519 |
| 29.48 | 148.43 | 2.0618 | 243.47 | 1.88 | 0.77% | 0.779 | 0.50 | 166.03 | 1.62 | 1.00 | 196 | 0.784 | 0.784 | 0.93 | 0.608 | 0.520 |
| 29.54 | 147.95 | 2.0662 | 245.52 | 1.76 | 0.72% | 0.723 | 0.50 | 167.14 | 1.59 | 1.00 | 198 | 0.800 | 0.800 | 0.93 | 0.610 | 0.520 |
| 29.60 | 147.72 | 2.0706 | 248.16 | 1.70 | 0.69% | 0.691 | 0.50 | 168.66 | 1.58 | 1.00 | 200 | 0.821 | 0.821 | 0.93 | 0.612 | 0.520 |
| 29.66 | 147.61 | 2.0751 | 249.82 | 1.67 | 0.67% | 0.674 | 0.50 | 169.49 | 1.57 | 1.00 | 200 | 0.824 | 0.824 | 0.93 | 0.613 | 0.520 |
| 29.75 | 145.21 | 2.0816 | 253.33 | 1.20 | 0.47% | 0.478 | 0.50 | 171.45 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.93 | 0.616 | 0.520 |
| 29.79 | 142.24 | 2.0844 | 253.52 | 0.80 | 0.32% | 0.318 | 0.50 | 171.40 | 1.37 | 1.00 | 200 | 0.824 | 0.824 | 0.93 | 0.617 | 0.520 |
| 29.86 | 142.42 | 2.0894 | 255.48 | 0.81 | 0.32% | 0.320 | 0.50 | 172.40 | 1.37 | 1.00 | 200 | 0.824 | 0.824 | 0.93 | 0.620 | 0.520 |
| 29.93 | 143.08 | 2.0944 | 254.21 | 0.89 | 0.35% | 0.353 | 0.50 | 171.20 | 1.39 | 1.00 | 200 | 0.824 | 0.824 | 0.93 | 0.622 | 0.520 |
| 30.02 | 123.56 | 2.1000 | 253.82 | 0.96 | 0.38% | 0.381 | 0.50 | 170.62 | 1.41 | 1.00 | 200 | 0.824 | 0.824 | 0.93 | 0.625 | 0.522 |
| 30.06 | 123.87 | 2.1025 | 254.50 | 1.00 | 0.39% | 0.396 | 0.50 | 170.93 | 1.42 | 1.00 | 200 | 0.824 | 0.824 | 0.93 | 0.626 | 0.522 |
| 30.13 | 124.24 | 2.1068 | 252.94 | 1.05 | 0.42% | 0.419 | 0.50 | 169.62 | 1.44 | 1.00 | 200 | 0.824 | 0.824 | 0.93 | 0.628 | 0.522 |
| 30.19 | 124.47 | 2.1106 | 254.26 | 1.09 | 0.43% | 0.432 | 0.50 | 170.30 | 1.44 | 1.00 | 200 | 0.824 | 0.824 | 0.93 | 0.630 | 0.522 |
| 30.28 | 124.62 | 2.1162 | 254.01 | 1.11 | 0.44% | 0.441 | 0.50 | 169.81 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.93 | 0.633 | 0.522 |
| 30.32 | 124.65 | 2.1187 | 253.72 | 1.11 | 0.44% | 0.441 | 0.50 | 169.47 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.93 | 0.634 | 0.522 |
| 30.40 | 124.37 | 2.1236 | 250.50 | 1.08 | 0.43% | 0.435 | 0.50 | 167.02 | 1.45 | 1.00 | 200 | 0.821 | 0.821 | 0.93 | 0.636 | 0.522 |
| 30.45 | 123.60 | 2.1267 | 246.79 | 0.97 | 0.39% | 0.396 | 0.50 | 164.35 | 1.43 | 1.00 | 197 | 0.787 | 0.787 | 0.93 | 0.638 | 0.522 |
| 30.52 | 121.09 | 2.1310 | 241.32 | 0.70 | 0.29% | 0.293 | 0.50 | 160.45 | 1.37 | 1.00 | 192 | 0.739 | 0.739 | 0.93 | 0.640 | 0.522 |
| 30.59 | 121.11 | 2.1352 | 237.12 | 0.70 | 0.30% | 0.298 | 0.50 | 157.41 | 1.38 | 1.00 | 189 | 0.704 | 0.704 | 0.93 | 0.642 | 0.522 |
| 30.67 | 121.33 | 2.1400 | 230.00 | 0.73 | 0.32% | 0.320 | 0.50 | 152.40 | 1.41 | 1.00 | 183 | 0.647 | 0.647 | 0.93 | 0.645 | 0.522 |
| 30.73 | 121.31 | 2.1437 | 225.31 | 0.73 | 0.32% | 0.327 | 0.50 | 149.08 | 1.42 | 1.00 | 179 | 0.612 | 0.612 | 0.93 | 0.647 | 0.522 |
| 30.79 | 121.17 | 2.1473 | 218.97 | 0.73 | 0.33% | 0.337 | 0.50 | 144.68 | 1.44 | 1.00 | 174 | 0.567 | 0.567 | 0.92 | 0.649 | 0.522 |
| 30.87 | 120.77 | 2.1522 | 201.98 | 0.71 | 0.35% | 0.355 | 0.50 | 133.13 | 1.48 | 1.00 | 160 | 0.460 | 0.460 | 0.92 | 0.651 | 0.522 |
| 30.92 | 120.75 | 2.1552 | 196.90 | 0.71 | 0.36% | 0.365 | 0.50 | 129.62 | 1.50 | 1.00 | 156 | 0.432 | 0.432 | 0.92 | 0.653 | 0.522 |
| 31.01 | 120.77 | 2.1606 | 185.29 | 0.73 | 0.39% | 0.399 | 0.50 | 121.67 | 1.54 | 1.00 | 146 | 0.372 | 0.372 | 0.92 | 0.656 | 0.522 |
| 31.06 | 120.66 | 2.1636 | 175.52 | 0.73 | 0.42% | 0.421 | 0.50 | 115.07 | 1.57 | 1.00 | 138 | 0.327 | 0.329 | 0.92 | 0.657 | 0.522 |
| 31.14 | 120.35 | 2.1684 | 160.88 | 0.72 | 0.45% | 0.454 | 0.50 | 105.19 | 1.62 | 1.00 | 127 | 0.269 | 0.331 | 0.92 | 0.660 | 0.522 |
| 31.19 | 120.23 | 2.1714 | 150.05 | 0.73 | 0.49% | 0.494 | 0.51 | 97.91 | 1.67 | 1.02 | 120 | 0.240 | 0.319 | 0.92 | 0.661 | 0.522 |
| 31.25 | 120.38 | 2.1751 | 137.94 | 0.76 | 0.55% | 0.560 | 0.53 | 89.79 | 1.74 | 1.06 | 114 | 0.217 | 0.329 | 0.92 | 0.663 | 0.522 |
| 31.32 | 120.96 | 2.1793 | 126.32 | 0.85 | 0.67% | 0.685 | 0.55 | 81.99 | 1.82 | 1.12 | 109 | 0.200 | 0.322 | 0.92 | 0.665 | 0.522 |
| 31.37 | 121.33 | 2.1823 | 115.98 | 0.92 | 0.79% | 0.808 | 0.58 | 75.09 | 1.90 | 1.19 | 104 | 0.186 | 0.317 | 0.92 | 0.667 | 0.522 |
| 31.45 | 122.82 | 2.1872 | 99.38 | 1.19 | 1.20% | 1.224 | 0.63 | 64.03 | 2.07 | 1.40 | 103 | 0.182 | 0.327 | 0.92 | 0.669 | 0.522 |
| 31.50 | 123.52 | 2.1903 | 88.64 | 1.36 | 1.53% | 1.573 | 0.66 | 56.89 | 2.18 | 1.62 | 105 | 0.188 | 0.354 | 0.92 | 0.671 | 0.522 |
| 31.57 | 124.03 | 2.1947 | 77.71 | 1.52 | 1.96% | 2.013 | 0.70 | 49.63 | 2.30 | 1.95 | 109 | 0.199 | 0.396 | 0.92 | 0.673 | 0.522 |
| 31.64 | 123.79 | 2.1990 | 64.63 | 1.56 | 2.41% | 2.499 | 0.74 | 40.97 | 2.43 | 2.44 | 111 | 0.206 | 0.232 | 0.92 | 0.675 | 0.522 |
| 31.73 | 123.46 | 2.2046 | 55.45 | 1.57 | 2.83% | 2.949 | 0.77 | 34.88 | 2.53 | 2.95 | 112 | 0.212 | 0.245 | 0.92 | 0.678 | 0.522 |
| 31.77 | 123.23 | 2.2070 | 54.08 | 1.54 | 2.85% | 2.969 | 0.77 | 33.95 | 2.55 | 3.01 | 112 | 0.209 | 0.247 | 0.92 | 0.679 | 0.522 |
| 31.86 | 122.94 | 2.2125 | 56.52 | 1.46 | 2.58% | 2.688 | 0.76 | 35.48 | 2.50 | 2.77 | 108 | 0.197 | 0.233 | 0.92 | 0.682 | 0.522 |
| 31.89 | 123.08 | 2.2144 | 61.11 | 1.45 | 2.37% | 2.462 | 0.74 | 38.46 | 2.45 | 2.51 | 107 | 0.193 | 0.224 | 0.92 | 0.683 | 0.522 |
| 31.96 | 123.61 | 2.2187 | 76.24 | 1.45 | 1.90% | 1.959 | 0.70 | 48.27 | 2.30 | 1.95 | 106 | 0.191 | 0.400 | 0.92 | 0.685 | 0.522 |
| 32.04 | 123.78 | 2.2237 | 90.89 | 1.39 | 1.53% | 1.568 | 0.66 | 57.72 | 2.17 | 1.61 | 106 | 0.190 | 0.345 | 0.91 | 0.688 | 0.521 |
| 32.09 | 123.78 | 2.2268 | 100.26 | 1.35 | 1.35% | 1.377 | 0.64 | 63.76 | 2.10 | 1.46 | 107 | 0.194 | 0.335 | 0.91 | 0.689 | 0.521 |
| 32.15 | 123.67 | 2.2305 | 105.72 | 1.31 | 1.24% | 1.266 | 0.63 | 67.23 | 2.06 | 1.39 | 108 | 0.197 | 0.322 | 0.91 | 0.691 | 0.521 |
| 32.22 | 124.00 | 2.2348 | 111.88 | 1.34 | 1.20% | 1.222 | 0.62 | 71.13 | 2.03 | 1.34 | 111 | 0.207 | 0.320 | 0.91 | 0.693 | 0.521 |
| 32.31 | 123.97 | 2.2404 | 116.56 | 1.32 | 1.13% | 1.155 | 0.61 | 74.03 | 2.00 | 1.30 | 112 | 0.212 | 0.309 | 0.91 | 0.696 | 0.521 |
| 32.35 | 124.22 | 2.2429 | 120.17 | 1.35 | 1.12% | 1.145 | 0.60 | 76.30 | 1.99 | 1.28 | 114 | 0.219 | 0.320 | 0.91 | 0.697 | 0.521 |
| 32.44 | 124.99 | 2.2485 | 125.05 | 1.48 | 1.18% | 1.205 | 0.60 | 79.31 | 1.99 | 1.28 | 119 | 0.237 | 0.303 | 0.91 | 0.700 | 0.521 |
| 32.49 | 124.41 | 2.2516 | 128.08 | 1.35 | 1.05% | 1.073 | 0.59 | 81.18 | 1.95 | 1.23 | 118 | 0.233 | 0.297 | 0.91 | 0.702 | 0.521 |
| 32.57 | 122.25 | 2.2565 | 131.79 | 1.00 | 0.76% | 0.772 | 0.56 | 83.45 | 1.84 | 1.14 | 113 | 0.215 | 0.316 | 0.91 | 0.704 | 0.521 |
| 32.62 | 122.79 | 2.2596 | 133.06 | 1.07 | 0.80% | 0.818 | 0.56 | 84.18 | 1.85 | 1.15 | 115 | 0.222 | 0.306 | 0.91 | 0.706 | 0.521 |
| 32.70 | 123.52 | 2.2645 | 133.06 | 1.18 | 0.89% | 0.902 | 0.57 | 84.04 | 1.88 | 1.17 | 117 | 0.229 | 0.294 | 0.91 | 0.708 | 0.521 |
| 32.75 | 123.83 | 2.2676 | 131.89 | 1.24 | 0.94% | 0.957 | 0.58 | 83.21 | 1.90 | 1.19 | 118 | 0.231 | 0.297 | 0.91 | 0.710 | 0.521 |
| 32.82 | 123.96 | 2.2719 | 122.42 | 1.29 | 1.05% | 1.074 | 0.60 | 77.02 | 1.96 | 1.25 | 114 | 0.217 | 0.300 | 0.91 | 0.712 | 0.521 |
| 32.89 | 124.21 | 2.2763 | 126.42 | 1.33 | 1.05% | 1.071 | 0.59 | 79.47 | 1.95 | 1.24 | 116 | 0.227 | 0.314 | 0.91 | 0.714 | 0.521 |
| 32.94 | 124.37 | 2.2794 | 128.57 | 1.35 | 1.05% | 1.069 | 0.59 | 80.77 | 1.94 | 1.23 | 118 | 0.232 | 0.299 | 0.91 | 0.716 | 0.521 |
| 33.01 | 124.54 | 2.2838 | 130.23 | 1.37 | 1.05% | 1.071 | 0.59 | 81.71 | 1.94 | 1.23 | 119 | 0.236 | 0.305 | 0.91 | 0.718 | 0.521 |
| 33.08 | 124.55 | 2.2881 | 129.54 | 1.38 | 1.07% | 1.084 | 0.59 | 81.15 | 1.95 | 1.24 | 119 | 0.235 | 0.305 | 0.91 | 0.720 | 0.521 |
| 33.14 | 124.36 | 2.2919 | 127.10 | 1.35 | 1.06% | 1.082 | 0.59 | 79.50 | 1.95 | 1.24 | 117 | 0.228 | 0.296 | 0.91 | 0.722 | 0.521 |
| 33.21 | 124.12 | 2.2962 | 124.18 | 1.32 | 1.06% | 1.083 | 0.60 | 77.53 | 1.96 | 1.25 | 115 | 0.221 | 0.308 | 0.90 | 0.724 | 0.521 |
| 33.30 | 123.79 | 2.3018 | 120.76 | 1.27 | 1.05% | 1.072 | 0.60 | 75.22 | 1.97 | 1.26 | 112 | 0.211 | 0.314 | 0.90 | 0.727 | 0.521 |
| 33.34 | 123.67 | 2.3042 | 119.29 | 1.25 | 1.05% | 1.069 | 0.60 | 74.23 | 1.97 | 1.27 | 111 | 0.207 | 0.308 | 0.90 | 0.728 | 0.521 |
| 33.43 | 123.51 | 2.3098 | 117.83 | 1.23 | 1.04% | 1.065 | 0.60 | 73.17 | 1.98 | 1.27 | 110 | 0.203 | 0.303 | 0.90 | 0.731 | 0.521 |
| 33.48 | 123.45 | 2.3129 | 118.02 | 1.22 | 1.03% | 1.054 | 0.60 | 73.22 | 1.97 | 1.27 | 110 | 0.203 | 0.302 | 0.90 | 0.733 | 0.520 |
| 33.57 | 123.36 | 2.3184 | 118.32 | 1.21 | 1.02% | 1.043 | 0.60 | 73.28 | 1.97 | 1.26 | 109 | 0.202 | 0.302 | 0.90 | 0.735 | 0.520 |
| 33.62 | 123.32 | 2.3215 | 118.12 | 1.20 | 1.02% | 1.036 | 0.60 | 73.08 | 1.97 | 1.26 | 109 | 0.201 | 0.301 | 0.90 | 0.737 | 0.520 |
| 33.69 | 123.29 | 2.3258 | 116.85 | 1.20 | 1.03% | 1.048 | 0.60 | 72.18 | 1.98 | 1.27 | 108 | 0.199 | 0.315 | 0.90 | 0.739 | 0.520 |
| 33.75 | 123.22 | 2.3295 | 115.58 | 1.19 | 1.03% | 1.051 | 0.60 | 71.29 | 1.98 | 1.28 | 108 | 0.196 | 0.311 | 0.90 | 0.741 | 0.520 |
| 33.83 | 123.11 | 2.3345 | 112.36 | 1.19 | 1.06% | 1.082 | 0.61 | 69.16 | 2.00 | 1.30 | 106 | 0.191 | 0.304 | 0.90 | 0.743 | 0.520 |
| 33.88 | 123.17 | 2.3375 | 109.63 | 1.20 | 1.09% | 1.118 | 0.61 | 67.37 | 2.02 | 1.32 | 105 | 0.188 | 0.316 | 0.90 | 0.745 | 0.520 |
| 33.93 | 123.21 | 2.3406 | 103.48 | 1.24 | 1.20% | 1.226 | 0.63 | 63.45 | 2.07 | 1.40 | 104 | 0.184 | 0.309 | 0.90 | 0.747 | 0.520 |
| 34.00 | 123.48 | 2.3449 | 92.84 | 1.33 | 1.43% | 1.470 | 0.66 | 56.70 | 2.16 | 1.57 | 103 | 0.182 | 0.338 | 0.90 | 0.749 | 0.520 |
| 34.06 | 123.64 | 2.3486 | 77.71 | 1.44 | 1.85% | 1.911 | 0.70 | 47.16 | 2.30 | 1.94 | 104 | 0.186 | 0.380 | 0.90 | 0.751 | 0.520 |
| 34.15 | 123.02 | 2.3542 | 54.77 | 1.49 | 2.72% | 2.843 | 0.77 | 32.75 | 2.54 | 2.98 | 108 | 0.197 | 0.230 | 0.90 | 0.753 | 0.520 |
| 34.20 | 122.38 | 2.3572 | 42.66 | 1.48 | 3.47% | 3.672 | 0.82 | 25.15 | 2.71 | 4.05 | 134 | 0.302 | 0.302 | 0.90 | 0.755 | 0.520 |
| 34.28 | 120.67 | 2.3621 | 31.63 | 1.30 | 4.11% | 4.442 | 0.87 | 18.24 | 2.87 | 5.45 | 180 | 0.620 | 0.620 | 0.90 | 0.758 | 0.520 |
| 34.33 | 119.52 | 2.3651 | 26.16 | 1.18 | 4.51% | 4.959 | 0.90 | 14.82 | 2.98 | 6.51 | 215 | 1.000 | 1.000 | 0.90 | 0.759 | 0.520 |
| 34.42 | 117.80 | 2.3704 | 21.48 | 1.00 | 4.66% | 5.233 | 0.93 | 11.88 | 3.07 | 7.57 | 250 | 1.530 | 1.530 | 0.90 | 0.762 | 0.520 |
| 34.47 | 116.68 | 2.3733 | 19.33 | 0.89 | 4.60% | 5.249 | 0.94 | 10.53 | 3.11 | 8.11 | 268 | 1.863 | 1.863 | 0.89 | 0.763 | 0.520 |
| 34.55 | 114.78 | 2.3779 | 17.08 | 0.71 | 4.16% | 4.829 | 0.95 | 9.12 | 3.14 | 8.48 | 280 | 2.116 | 2.116 | 0.89 | 0.766 | 0.520 |
| 34.58 | 114.70 | 2.3796 | 16.50 | 0.71 | 4.30% | 5.028 | 0.96 | 8.76 | 3.17 | 8.82 | 291 | 2.374 | 2.374 | 0.89 | 0.767 | 0.520 |
| 34.66 | 112.92 | 2.3841 | 16.69 | 0.56 | 3.36% | 3.914 | 0.94 | 8.86 | 3.10 | 7.88 | 260 | 1.717 | 1.717 | 0.89 | 0.769 | 0.520 |
| 34.73 | 108.99 | 2.3879 | 18.26 | 0.32 | 1.75% | 2.016 | 0.87 | 9.82 | 2.89 | 5.59 | 184 | 0.664 | 0.664 | 0.89 | 0.772 | 0.519 |
| 34.80 | 112.52 | 2.3919 | 23.04 | 0.47 | 2.04% | 2.276 | 0.85 | 12.76 | 2.82 | 4.94 | 163 | 0.484 | 0.484 | 0.89 | 0.774 | 0.519 |
| 34.85 | 114.33 | 2.3947 | 25.09 | 0.59 | 2.35% | 2.600 | 0.85 | 14.01 | 2.82 | 4.94 | 163 | 0.483 | 0.483 | 0.89 | 0.775 | 0.519 |
| 34.91 | 116.02 | 2.3982 | 27.14 | 0.72 | 2.65% | 2.910 | 0.85 | 15.26 | 2.82 | 4.93 | 163 | 0.480 | 0.480 | 0.89 | 0.777 | 0.519 |
| 34.98 | 117.46 | 2.4023 | 30.36 | 0.85 | 2.80% | 3.040 | 0.84 | 17.23 | 2.78 | 4.66 | 154 | 0.418 | 0.418 | 0.89 | 0.779 | 0.519 |
| 35.06 | 119.13 | 2.4071 | 37.10 | 1.00 | 2.70% | 2.882 | 0.82 | 21.35 | 2.69 | 3.95 | 130 | 0.285 | 0.285 | 0.89 | 0.782 | 0.519 |
| 35.12 | 119.80 | 2.4107 | 41.39 | 1.05 | 2.54% | 2.694 | 0.80 | 23.96 | 2.63 | 3.53 | 117 | 0.227 | 0.291 | 0.89 | 0.784 | 0.519 |
| 35.18 | 120.17 | 2.4143 | 48.62 | 1.05 | 2.16% | 2.272 | 0.77 | 28.37 | 2.52 | 2.89 | 96 | 0.161 | 0.200 | 0.89 | 0.786 | 0.519 |
| 35.26 | 120.36 | 2.4191 | 55.84 | 1.03 | 1.84% | 1.928 | 0.74 | 32.75 | 2.43 | 2.42 | 89 | 0.146 | 0.176 | 0.89 | 0.788 | 0.519 |
| 35.30 | 120.37 | 2.4215 | 56.33 | 1.03 | 1.83% | 1.911 | 0.73 | 33.03 | 2.42 | 2.40 | 89 | 0.146 | 0.175 | 0.89 | 0.789 | 0.519 |

| DEPTH (ft) | $V_s$ [b] (ft/sec) | ρ ($lb\text{-}sec^2)/ft^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Depths of Liquifiable Layer Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 23.56 | 951.35 | 4.576 | 1.978E+05 | 2.030E+06 | 10.26 | 0.1542 | 0.922 | 0.464 | | 0.80 | **1.10** | <= | 0.31 | 0.001 | 0.00 | 3.85 | 0.00 | 23.52 | 23.56 |
| 23.65 | 953.84 | 4.560 | 1.995E+05 | 2.030E+06 | 10.17 | 0.1542 | 0.922 | 0.465 | | 0.96 | **1.31** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.71 | 953.84 | 4.546 | 2.001E+05 | 2.030E+06 | 10.14 | 0.1542 | 0.922 | 0.465 | | 1.14 | **1.57** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.76 | 953.84 | 4.539 | 2.005E+05 | 2.030E+06 | 10.13 | 0.1542 | 0.922 | 0.465 | | 1.22 | **1.67** | | 0.00 | 0.000 | 0.00 | 3.85 | 0.00 | | |
| 23.84 | 957.11 | 4.536 | 2.019E+05 | 2.030E+06 | 10.05 | 0.1542 | 0.922 | 0.466 | | 0.71 | **0.98** | <= | 0.88 | 0.008 | 0.00 | 3.85 | 0.00 | 23.76 | 23.84 |
| 23.89 | 960.32 | 4.541 | 2.031E+05 | 2.030E+06 | 10.00 | 0.1542 | 0.922 | 0.466 | | 0.72 | **1.00** | <= | 0.93 | 0.006 | 0.00 | 3.84 | 0.00 | 23.84 | 23.89 |
| 23.97 | 965.02 | 4.544 | 2.050E+05 | 2.030E+06 | 9.90 | 0.1542 | 0.923 | 0.466 | | 0.76 | **1.04** | <= | 0.52 | 0.005 | 0.00 | 3.83 | 0.00 | 23.89 | 23.97 |
| 24.02 | 965.02 | 4.543 | 2.050E+05 | 2.030E+06 | 9.90 | 0.1542 | 0.923 | 0.466 | | 0.79 | **1.08** | <= | 0.60 | 0.004 | 0.00 | 3.83 | 0.00 | 23.97 | 24.02 |
| 24.11 | 951.35 | 4.515 | 2.005E+05 | 2.030E+06 | 10.13 | 0.1542 | 0.922 | 0.466 | | 0.78 | **1.07** | <= | 0.60 | 0.006 | 0.00 | 3.83 | 0.00 | 24.02 | 24.11 |
| 24.16 | 940.99 | 4.510 | 1.963E+05 | 2.030E+06 | 10.34 | 0.1542 | 0.922 | 0.466 | | 0.66 | **0.91** | <= | 0.77 | 0.005 | 0.00 | 3.82 | 0.00 | 24.11 | 24.16 |
| 24.23 | 921.18 | 4.466 | 1.900E+05 | 2.030E+06 | 10.68 | 0.1542 | 0.921 | 0.466 | | 0.68 | **0.94** | <= | 1.17 | 0.010 | 0.00 | 3.81 | 0.00 | 24.16 | 24.23 |
| 24.33 | 907.64 | 4.467 | 1.844E+05 | 2.030E+06 | 11.01 | 0.1542 | 0.920 | 0.466 | | 1.08 | **1.48** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 24.38 | 908.72 | 4.486 | 1.841E+05 | 2.030E+06 | 11.03 | 0.1542 | 0.920 | 0.466 | | 0.92 | **1.27** | <= | 0.32 | 0.002 | 0.00 | 3.80 | 0.00 | 24.33 | 24.38 |
| 24.42 | 908.72 | 4.505 | 1.833E+05 | 2.030E+06 | 11.08 | 0.1542 | 0.920 | 0.466 | | 0.79 | **1.09** | <= | 0.69 | 0.003 | 0.00 | 3.80 | 0.00 | 24.38 | 24.42 |
| 24.48 | 916.10 | 4.537 | 1.850E+05 | 2.030E+06 | 10.97 | 0.1542 | 0.920 | 0.467 | | 0.76 | **1.04** | <= | 0.52 | 0.004 | 0.00 | 3.80 | 0.00 | 24.42 | 24.48 |
| 24.55 | 926.11 | 4.562 | 1.880E+05 | 2.030E+06 | 10.80 | 0.1542 | 0.920 | 0.467 | | 0.98 | **1.34** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 24.62 | 934.64 | 4.580 | 1.907E+05 | 2.030E+06 | 10.64 | 0.1542 | 0.921 | 0.467 | | 1.16 | **1.60** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 24.68 | 948.82 | 4.604 | 1.955E+05 | 2.030E+06 | 10.38 | 0.1542 | 0.921 | 0.468 | | 1.30 | **1.79** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 24.77 | 892.92 | 4.533 | 1.759E+05 | 2.030E+06 | 11.54 | 0.1542 | 0.919 | 0.467 | | 1.28 | **1.76** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 24.82 | 874.17 | 4.510 | 1.695E+05 | 2.030E+06 | 11.98 | 0.1542 | 0.917 | 0.466 | | 1.35 | **1.86** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 24.87 | 889.33 | 4.531 | 1.746E+05 | 2.030E+06 | 11.63 | 0.1542 | 0.918 | 0.467 | | 1.42 | **1.95** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 24.96 | 919.16 | 4.573 | 1.847E+05 | 2.030E+06 | 10.99 | 0.1542 | 0.920 | 0.468 | | 1.51 | **2.08** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.00 | 930.90 | 4.590 | 1.888E+05 | 2.030E+06 | 10.75 | 0.1542 | 0.921 | 0.468 | | 1.53 | **2.10** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.07 | 948.82 | 4.607 | 1.954E+05 | 2.030E+06 | 10.39 | 0.1542 | 0.921 | 0.469 | | 1.39 | **1.92** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.15 | 962.69 | 4.630 | 2.002E+05 | 2.030E+06 | 10.14 | 0.1542 | 0.922 | 0.470 | | 1.54 | **2.12** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.22 | 974.77 | 4.647 | 2.045E+05 | 2.030E+06 | 9.93 | 0.1542 | 0.923 | 0.470 | | 1.63 | **2.24** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.28 | 986.06 | 4.662 | 2.086E+05 | 2.030E+06 | 9.73 | 0.1542 | 0.924 | 0.471 | | 1.70 | **2.34** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.35 | 996.63 | 4.677 | 2.124E+05 | 2.030E+06 | 9.56 | 0.1542 | 0.925 | 0.472 | | 1.76 | **2.42** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.40 | 1000.43 | 4.682 | 2.138E+05 | 2.030E+06 | 9.50 | 0.1542 | 0.925 | 0.472 | | 1.78 | **2.45** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.48 | 1004.76 | 4.688 | 2.153E+05 | 2.030E+06 | 9.43 | 0.1542 | 0.925 | 0.472 | | 1.82 | **2.50** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.53 | 1006.59 | 4.691 | 2.160E+05 | 2.030E+06 | 9.40 | 0.1542 | 0.925 | 0.472 | | 1.84 | **2.53** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.61 | 1010.76 | 4.697 | 2.175E+05 | 2.030E+06 | 9.33 | 0.1542 | 0.926 | 0.473 | | 1.87 | **2.57** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.66 | 1012.52 | 4.700 | 2.181E+05 | 2.030E+06 | 9.31 | 0.1542 | 0.926 | 0.473 | | 1.89 | **2.60** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.72 | 1014.84 | 4.704 | 2.189E+05 | 2.030E+06 | 9.27 | 0.1542 | 0.926 | 0.473 | | 1.94 | **2.66** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.80 | 1018.82 | 4.710 | 2.204E+05 | 2.030E+06 | 9.21 | 0.1542 | 0.926 | 0.474 | | 1.98 | **2.73** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.86 | 1022.16 | 4.716 | 2.216E+05 | 2.030E+06 | 9.16 | 0.1542 | 0.927 | 0.474 | | 2.06 | **2.83** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.93 | 1025.97 | 4.721 | 2.229E+05 | 2.030E+06 | 9.11 | 0.1542 | 0.927 | 0.474 | | 2.10 | **2.89** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 25.99 | 1029.17 | 4.726 | 2.241E+05 | 2.030E+06 | 9.06 | 0.1542 | 0.927 | 0.474 | | 2.13 | **2.93** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.07 | 1031.80 | 4.730 | 2.251E+05 | 2.030E+06 | 9.02 | 0.1542 | 0.927 | 0.475 | | 2.15 | **2.96** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.12 | 1033.35 | 4.731 | 2.257E+05 | 2.030E+06 | 8.99 | 0.1542 | 0.927 | 0.475 | | 2.14 | **2.95** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.20 | 1033.87 | 4.732 | 2.259E+05 | 2.030E+06 | 8.99 | 0.1542 | 0.927 | 0.475 | | 2.11 | **2.90** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.26 | 1034.38 | 4.731 | 2.261E+05 | 2.030E+06 | 8.98 | 0.1542 | 0.928 | 0.475 | | 2.07 | **2.84** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.33 | 1033.35 | 4.729 | 2.258E+05 | 2.030E+06 | 8.99 | 0.1542 | 0.927 | 0.475 | | 2.00 | **2.75** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.38 | 1032.32 | 4.727 | 2.255E+05 | 2.030E+06 | 9.00 | 0.1542 | 0.927 | 0.476 | | 1.95 | **2.68** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.45 | 1030.75 | 4.723 | 2.250E+05 | 2.030E+06 | 9.02 | 0.1542 | 0.927 | 0.476 | | 1.87 | **2.58** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.52 | 1028.64 | 4.719 | 2.242E+05 | 2.030E+06 | 9.05 | 0.1542 | 0.927 | 0.476 | | 1.80 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.60 | 1025.43 | 4.714 | 2.231E+05 | 2.030E+06 | 9.10 | 0.1542 | 0.927 | 0.476 | | 1.74 | **2.40** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.65 | 1023.80 | 4.712 | 2.225E+05 | 2.030E+06 | 9.12 | 0.1542 | 0.927 | 0.476 | | 1.73 | **2.38** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.72 | 1022.71 | 4.710 | 2.221E+05 | 2.030E+06 | 9.14 | 0.1542 | 0.927 | 0.476 | | 1.72 | **2.36** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.80 | 1022.71 | 4.710 | 2.221E+05 | 2.030E+06 | 9.14 | 0.1542 | 0.927 | 0.476 | | 1.71 | **2.36** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.86 | 1024.35 | 4.713 | 2.226E+05 | 2.030E+06 | 9.12 | 0.1542 | 0.927 | 0.476 | | 1.74 | **2.39** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 26.91 | 1029.70 | 4.721 | 2.246E+05 | 2.030E+06 | 9.04 | 0.1542 | 0.927 | 0.477 | | 1.80 | **2.48** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.00 | 989.43 | 4.668 | 2.097E+05 | 2.030E+06 | 9.68 | 0.1542 | 0.924 | 0.475 | | 1.63 | **2.25** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.05 | 967.32 | 4.639 | 2.017E+05 | 2.030E+06 | 10.06 | 0.1542 | 0.922 | 0.474 | | 1.55 | **2.13** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.10 | 971.83 | 4.645 | 2.033E+05 | 2.030E+06 | 9.98 | 0.1542 | 0.923 | 0.475 | | 1.56 | **2.15** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.17 | 979.80 | 4.655 | 2.062E+05 | 2.030E+06 | 9.84 | 0.1542 | 0.923 | 0.475 | | 1.57 | **2.16** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.25 | 988.09 | 4.666 | 2.092E+05 | 2.030E+06 | 9.70 | 0.1542 | 0.924 | 0.476 | | 1.59 | **2.18** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.31 | 992.74 | 4.671 | 2.110E+05 | 2.030E+06 | 9.62 | 0.1542 | 0.924 | 0.476 | | 1.57 | **2.16** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.37 | 998.54 | 4.677 | 2.132E+05 | 2.030E+06 | 9.52 | 0.1542 | 0.925 | 0.476 | | 1.52 | **2.09** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.43 | 1004.76 | 4.687 | 2.154E+05 | 2.030E+06 | 9.42 | 0.1542 | 0.925 | 0.477 | | 1.59 | **2.19** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.50 | 1014.84 | 4.701 | 2.191E+05 | 2.030E+06 | 9.27 | 0.1542 | 0.926 | 0.477 | | 1.65 | **2.27** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.58 | 1022.71 | 4.711 | 2.220E+05 | 2.030E+06 | 9.14 | 0.1542 | 0.927 | 0.478 | | 1.70 | **2.34** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.64 | 1026.51 | 4.717 | 2.234E+05 | 2.030E+06 | 9.09 | 0.1542 | 0.927 | 0.478 | | 1.74 | **2.40** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.73 | 1030.75 | 4.725 | 2.249E+05 | 2.030E+06 | 9.03 | 0.1542 | 0.927 | 0.479 | | 1.83 | **2.51** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.77 | 1032.83 | 4.728 | 2.256E+05 | 2.030E+06 | 9.00 | 0.1542 | 0.927 | 0.479 | | 1.87 | **2.57** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.83 | 1034.38 | 4.731 | 2.261E+05 | 2.030E+06 | 8.98 | 0.1542 | 0.928 | 0.479 | | 1.91 | **2.63** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.91 | 1036.92 | 4.735 | 2.271E+05 | 2.030E+06 | 8.94 | 0.1542 | 0.928 | 0.479 | | 1.95 | **2.68** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 27.97 | 1038.43 | 4.738 | 2.276E+05 | 2.030E+06 | 8.92 | 0.1542 | 0.928 | 0.479 | | 1.98 | **2.72** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.03 | 1039.93 | 4.740 | 2.281E+05 | 2.030E+06 | 8.90 | 0.1542 | 0.928 | 0.479 | | 2.00 | **2.75** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.09 | 1041.90 | 4.743 | 2.289E+05 | 2.030E+06 | 8.87 | 0.1542 | 0.928 | 0.480 | | 2.02 | **2.78** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.15 | 1044.33 | 4.747 | 2.298E+05 | 2.030E+06 | 8.83 | 0.1542 | 0.928 | 0.480 | | 2.05 | **2.82** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.22 | 1045.78 | 4.749 | 2.303E+05 | 2.030E+06 | 8.82 | 0.1542 | 0.928 | 0.480 | | 2.07 | **2.85** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.28 | 1048.63 | 4.754 | 2.313E+05 | 2.030E+06 | 8.78 | 0.1542 | 0.929 | 0.480 | | 2.15 | **2.95** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.36 | 1052.82 | 4.762 | 2.328E+05 | 2.030E+06 | 8.72 | 0.1542 | 0.929 | 0.481 | | 2.25 | **3.10** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.43 | 1055.55 | 4.766 | 2.338E+05 | 2.030E+06 | 8.68 | 0.1542 | 0.929 | 0.481 | | 2.34 | **3.22** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.49 | 1057.80 | 4.771 | 2.346E+05 | 2.030E+06 | 8.65 | 0.1542 | 0.929 | 0.481 | | 2.38 | **3.28** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.57 | 1058.69 | 4.772 | 2.349E+05 | 2.030E+06 | 8.64 | 0.1542 | 0.929 | 0.481 | | 2.38 | **3.28** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.62 | 1059.57 | 4.773 | 2.352E+05 | 2.030E+06 | 8.63 | 0.1542 | 0.929 | 0.481 | | 2.39 | **3.29** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.71 | 1063.50 | 4.779 | 2.367E+05 | 2.030E+06 | 8.58 | 0.1542 | 0.930 | 0.482 | | 2.42 | **3.33** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.75 | 1063.50 | 4.779 | 2.367E+05 | 2.030E+06 | 8.58 | 0.1542 | 0.930 | 0.482 | | 2.42 | **3.33** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.83 | 1062.64 | 4.778 | 2.363E+05 | 2.030E+06 | 8.59 | 0.1542 | 0.929 | 0.482 | | 2.39 | **3.29** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.89 | 1059.57 | 4.775 | 2.351E+05 | 2.030E+06 | 8.63 | 0.1542 | 0.929 | 0.482 | | 2.34 | **3.23** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 28.96 | 1047.21 | 4.758 | 2.305E+05 | 2.030E+06 | 8.81 | 0.1542 | 0.928 | 0.481 | | 2.25 | **3.09** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.02 | 1022.16 | 4.723 | 2.212E+05 | 2.030E+06 | 9.18 | 0.1542 | 0.927 | 0.481 | | 2.09 | **2.87** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.07 | 1008.99 | 4.704 | 2.164E+05 | 2.030E+06 | 9.38 | 0.1542 | 0.926 | 0.480 | | 2.00 | **2.76** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.16 | 995.99 | 4.687 | 2.116E+05 | 2.030E+06 | 9.59 | 0.1542 | 0.924 | 0.480 | | 1.91 | **2.62** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.21 | 990.10 | 4.679 | 2.095E+05 | 2.030E+06 | 9.69 | 0.1542 | 0.924 | 0.480 | | 1.87 | **2.58** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.29 | 979.80 | 4.665 | 2.058E+05 | 2.030E+06 | 9.86 | 0.1542 | 0.923 | 0.479 | | 1.82 | **2.50** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.34 | 969.59 | 4.650 | 2.022E+05 | 2.030E+06 | 10.04 | 0.1542 | 0.922 | 0.479 | | 1.73 | **2.38** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.43 | 950.51 | 4.625 | 1.954E+05 | 2.030E+06 | 10.39 | 0.1542 | 0.921 | 0.479 | | 1.60 | **2.21** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.48 | 939.20 | 4.610 | 1.914E+05 | 2.030E+06 | 10.61 | 0.1542 | 0.921 | 0.478 | | 1.64 | **2.25** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.54 | 928.04 | 4.595 | 1.874E+05 | 2.030E+06 | 10.83 | 0.1542 | 0.920 | 0.478 | | 1.67 | **2.30** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.60 | 922.18 | 4.588 | 1.854E+05 | 2.030E+06 | 10.95 | 0.1542 | 0.920 | 0.478 | | 1.72 | **2.36** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.66 | 919.16 | 4.584 | 1.843E+05 | 2.030E+06 | 11.01 | 0.1542 | 0.920 | 0.478 | | 1.72 | **2.37** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.75 | 863.26 | 4.510 | 1.652E+05 | 2.030E+06 | 12.28 | 0.1542 | 0.917 | 0.477 | | 1.73 | **2.38** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.79 | 794.67 | 4.417 | 1.430E+05 | 2.030E+06 | 14.20 | 0.1542 | 0.912 | 0.474 | | 1.74 | **2.39** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.86 | 796.77 | 4.423 | 1.435E+05 | 2.030E+06 | 14.14 | 0.1542 | 0.912 | 0.474 | | 1.74 | **2.39** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 29.93 | 812.70 | 4.443 | 1.486E+05 | 2.030E+06 | 13.66 | 0.1542 | 0.913 | 0.475 | | 1.73 | **2.39** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.02 | 825.51 | 3.837 | 1.776E+05 | 1.776E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.60 | **2.20** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.06 | 832.41 | 3.847 | 1.801E+05 | 1.801E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.60 | **2.20** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.13 | 840.67 | 3.858 | 1.832E+05 | 1.832E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.60 | **2.20** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.19 | 846.99 | 3.866 | 1.856E+05 | 1.856E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.60 | **2.20** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.28 | 850.07 | 3.870 | 1.867E+05 | 1.867E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.60 | **2.20** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.32 | 850.07 | 3.871 | 1.867E+05 | 1.867E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.60 | **2.20** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.40 | 845.43 | 3.862 | 1.851E+05 | 1.851E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.59 | **2.19** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.45 | 827.26 | 3.839 | 1.783E+05 | 1.783E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.52 | **2.10** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.52 | 772.08 | 3.761 | 1.585E+05 | 1.585E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.43 | **1.97** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.59 | 772.08 | 3.761 | 1.585E+05 | 1.585E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.36 | **1.88** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.67 | 779.18 | 3.768 | 1.611E+05 | 1.611E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.25 | **1.73** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.73 | 779.18 | 3.767 | 1.612E+05 | 1.612E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.19 | **1.63** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.79 | 779.18 | 3.763 | 1.613E+05 | 1.613E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 1.10 | **1.51** | | 0.00 | 0.000 | 0.00 | 3.80 | 0.00 | | |
| 30.87 | 774.48 | 3.751 | 1.599E+05 | 1.599E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.89 | **1.23** | <= | 0.23 | 0.000 | 0.00 | 3.80 | 0.00 | 30.79 | 30.87 |
| 30.92 | 774.48 | 3.750 | 1.600E+05 | 1.600E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.84 | **1.15** | <= | 0.35 | 0.000 | 0.00 | 3.80 | 0.00 | 30.87 | 30.92 |
| 31.01 | 779.18 | 3.751 | 1.619E+05 | 1.619E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.72 | **0.99** | <= | 0.85 | 0.004 | 0.00 | 3.80 | 0.00 | 30.92 | 31.01 |
| 31.06 | 779.18 | 3.747 | 1.620E+05 | 1.620E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.64 | **0.88** | <= | 1.19 | 0.003 | 0.00 | 3.79 | 0.00 | 31.01 | 31.06 |
| 31.14 | 776.84 | 3.738 | 1.615E+05 | 1.615E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.64 | **0.88** | <= | 1.38 | 0.010 | 0.00 | 3.79 | 0.00 | 31.06 | 31.14 |
| 31.19 | 779.18 | 3.734 | 1.626E+05 | 1.626E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.62 | **0.85** | <= | 1.38 | 0.008 | 0.00 | 3.78 | 0.00 | 31.14 | 31.19 |
| 31.25 | 785.99 | 3.739 | 1.652E+05 | 1.652E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.64 | **0.88** | <= | 1.60 | 0.012 | 0.00 | 3.77 | 0.00 | 31.19 | 31.25 |
| 31.32 | 804.92 | 3.757 | 1.725E+05 | 1.725E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.62 | **0.86** | <= | 1.62 | 0.014 | 0.00 | 3.76 | 0.00 | 31.25 | 31.32 |
| 31.37 | 818.31 | 3.768 | 1.777E+05 | 1.777E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.61 | **0.84** | <= | 1.65 | 0.010 | 0.00 | 3.75 | 0.00 | 31.32 | 31.37 |
| 31.45 | 861.84 | 3.814 | 1.947E+05 | 1.947E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.63 | **0.87** | <= | 2.03 | 0.020 | 0.00 | 3.74 | 0.00 | 31.37 | 31.45 |
| 31.50 | 884.43 | 3.836 | 2.039E+05 | 2.039E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.69 | **0.94** | <= | 1.11 | 0.007 | 0.00 | 3.72 | 0.00 | 31.45 | 31.50 |
| 31.57 | 903.24 | 3.852 | 2.118E+05 | 2.118E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.77 | **1.06** | <= | 0.68 | 0.006 | 0.00 | 3.71 | 0.00 | 31.50 | 31.57 |
| 31.64 | 907.64 | 3.844 | 2.143E+05 | 2.143E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.45 | **0.62** | <= | 2.13 | 0.017 | 0.00 | 3.70 | 0.00 | 31.57 | 31.64 |
| 31.73 | 908.72 | 3.834 | 2.154E+05 | 2.154E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.48 | **0.65** | <= | 2.10 | 0.022 | 0.00 | 3.69 | 0.00 | 31.64 | 31.73 |
| 31.77 | 905.45 | 3.827 | 2.142E+05 | 2.142E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.48 | **0.66** | <= | 2.11 | 0.010 | 0.00 | 3.67 | 0.00 | 31.73 | 31.77 |
| 31.86 | 896.43 | 3.818 | 2.105E+05 | 2.105E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.45 | **0.62** | <= | 2.17 | 0.022 | 0.00 | 3.66 | 0.00 | 31.77 | 31.86 |
| 31.89 | 895.27 | 3.822 | 2.097E+05 | 2.097E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.43 | **0.60** | <= | 2.19 | 0.008 | 0.00 | 3.63 | 0.00 | 31.86 | 31.89 |
| 31.96 | 895.27 | 3.839 | 2.088E+05 | 2.088E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.77 | **1.07** | <= | 0.73 | 0.006 | 0.00 | 3.63 | 0.00 | 31.89 | 31.96 |
| 32.04 | 888.12 | 3.844 | 2.052E+05 | 2.052E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.67 | **0.92** | <= | 0.95 | 0.009 | 0.00 | 3.62 | 0.00 | 31.96 | 32.04 |
| 32.09 | 883.18 | 3.844 | 2.029E+05 | 2.029E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.65 | **0.89** | <= | 2.12 | 0.012 | 0.00 | 3.61 | 0.00 | 32.04 | 32.09 |
| 32.15 | 878.09 | 3.841 | 2.008E+05 | 2.008E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.62 | **0.86** | <= | 1.83 | 0.013 | 0.00 | 3.60 | 0.00 | 32.09 | 32.15 |
| 32.22 | 881.92 | 3.851 | 2.020E+05 | 2.020E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.62 | **0.85** | <= | 1.55 | 0.013 | 0.00 | 3.59 | 0.00 | 32.15 | 32.22 |
| 32.31 | 879.38 | 3.850 | 2.009E+05 | 2.009E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.60 | **0.82** | <= | 1.40 | 0.015 | 0.00 | 3.57 | 0.00 | 32.22 | 32.31 |
| 32.35 | 883.18 | 3.858 | 2.022E+05 | 2.022E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.62 | **0.85** | <= | 1.49 | 0.007 | 0.00 | 3.56 | 0.00 | 32.31 | 32.35 |
| 32.44 | 898.73 | 3.882 | 2.081E+05 | 2.081E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.59 | **0.81** | <= | 1.22 | 0.013 | 0.00 | 3.55 | 0.00 | 32.35 | 32.44 |
| 32.49 | 883.18 | 3.864 | 2.019E+05 | 2.019E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.58 | **0.79** | <= | 1.99 | 0.011 | 0.00 | 3.54 | 0.00 | 32.44 | 32.49 |
| 32.57 | 832.41 | 3.797 | 1.825E+05 | 1.825E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.61 | **0.84** | <= | 1.46 | 0.014 | 0.00 | 3.53 | 0.00 | 32.49 | 32.57 |
| 32.62 | 843.86 | 3.813 | 1.867E+05 | 1.867E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.59 | **0.82** | <= | 1.32 | 0.008 | 0.00 | 3.51 | 0.00 | 32.57 | 32.62 |
| 32.70 | 860.41 | 3.836 | 1.930E+05 | 1.930E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.57 | **0.79** | <= | 1.97 | 0.018 | 0.00 | 3.50 | 0.00 | 32.62 | 32.70 |
| 32.75 | 868.80 | 3.846 | 1.963E+05 | 1.963E+05 | 1.00 | 0.1542 | 0.989 | 0.516 | | 0.58 | **0.79** | <= | 1.99 | 0.011 | 0.00 | 3.49 | 0.00 | 32.70 | 32.75 |
| 32.82 | 875.49 | 3.850 | 1.991E+05 | 1.991E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.58 | **0.80** | <= | 1.28 | 0.011 | 0.00 | 3.47 | 0.00 | 32.75 | 32.82 |
| 32.89 | 880.66 | 3.857 | 2.011E+05 | 2.011E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.61 | **0.84** | <= | 1.38 | 0.012 | 0.00 | 3.46 | 0.00 | 32.82 | 32.89 |
| 32.94 | 883.18 | 3.862 | 2.019E+05 | 2.019E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.58 | **0.80** | <= | 2.02 | 0.011 | 0.00 | 3.45 | 0.00 | 32.89 | 32.94 |
| 33.01 | 885.67 | 3.868 | 2.028E+05 | 2.028E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.59 | **0.82** | <= | 1.25 | 0.011 | 0.00 | 3.44 | 0.00 | 32.94 | 33.01 |
| 33.08 | 886.90 | 3.868 | 2.034E+05 | 2.034E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.59 | **0.81** | <= | 1.25 | 0.011 | 0.00 | 3.43 | 0.00 | 33.01 | 33.08 |
| 33.14 | 883.18 | 3.862 | 2.020E+05 | 2.020E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.57 | **0.79** | <= | 2.00 | 0.014 | 0.00 | 3.42 | 0.00 | 33.08 | 33.14 |
| 33.21 | 879.38 | 3.855 | 2.006E+05 | 2.006E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.60 | **0.82** | <= | 1.35 | 0.011 | 0.00 | 3.41 | 0.00 | 33.14 | 33.21 |
| 33.30 | 872.85 | 3.844 | 1.982E+05 | 1.982E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.61 | **0.84** | <= | 1.47 | 0.016 | 0.00 | 3.39 | 0.00 | 33.21 | 33.30 |
| 33.34 | 870.16 | 3.841 | 1.971E+05 | 1.971E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.60 | **0.82** | <= | 1.42 | 0.007 | 0.00 | 3.38 | 0.00 | 33.30 | 33.34 |
| 33.43 | 867.43 | 3.836 | 1.962E+05 | 1.962E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.59 | **0.81** | <= | 1.38 | 0.015 | 0.00 | 3.37 | 0.00 | 33.34 | 33.43 |
| 33.48 | 866.05 | 3.834 | 1.956E+05 | 1.956E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.59 | **0.81** | <= | 1.38 | 0.008 | 0.00 | 3.36 | 0.00 | 33.43 | 33.48 |
| 33.57 | 864.66 | 3.831 | 1.952E+05 | 1.952E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.59 | **0.81** | <= | 1.38 | 0.015 | 0.00 | 3.35 | 0.00 | 33.48 | 33.57 |
| 33.62 | 863.26 | 3.830 | 1.946E+05 | 1.946E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.58 | **0.80** | <= | 1.37 | 0.008 | 0.00 | 3.33 | 0.00 | 33.57 | 33.62 |
| 33.69 | 863.26 | 3.829 | 1.946E+05 | 1.946E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.61 | **0.84** | <= | 1.56 | 0.013 | 0.00 | 3.33 | 0.00 | 33.62 | 33.69 |
| 33.75 | 861.84 | 3.827 | 1.941E+05 | 1.941E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.60 | **0.83** | <= | 1.53 | 0.011 | 0.00 | 3.31 | 0.00 | 33.69 | 33.75 |
| 33.83 | 861.84 | 3.823 | 1.943E+05 | 1.943E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.59 | **0.81** | <= | 1.52 | 0.015 | 0.00 | 3.30 | 0.00 | 33.75 | 33.83 |
| 33.88 | 863.26 | 3.825 | 1.948E+05 | 1.948E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.61 | **0.85** | <= | 1.79 | 0.011 | 0.00 | 3.29 | 0.00 | 33.83 | 33.88 |
| 33.93 | 868.80 | 3.826 | 1.973E+05 | 1.973E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.60 | **0.83** | <= | 1.67 | 0.010 | 0.00 | 3.28 | 0.00 | 33.88 | 33.93 |
| 34.00 | 880.66 | 3.835 | 2.022E+05 | 2.022E+05 | 1.00 | 0.1542 | 0.989 | 0.515 | | 0.66 | **0.90** | <= | 0.88 | 0.007 | 0.00 | 3.27 | 0.00 | 33.93 | 34.00 |
| 34.06 | 894.10 | 3.840 | 2.082E+05 | 2.082E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | | 0.74 | **1.02** | <= | 0.59 | 0.004 | 0.00 | 3.26 | 0.00 | 34.00 | 34.06 |
| 34.15 | 899.87 | 3.820 | 2.120E+05 | 2.120E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | | 0.45 | **0.62** | <= | 2.17 | 0.022 | 0.00 | 3.25 | 0.00 | 34.06 | 34.15 |
| 34.20 | 898.73 | 3.801 | 2.125E+05 | 2.125E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.28 | 876.80 | 3.748 | 2.051E+05 | 2.051E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.33 | 860.41 | 3.712 | 1.994E+05 | 1.994E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.42 | 832.41 | 3.658 | 1.894E+05 | 1.894E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.47 | 812.70 | 3.624 | 1.823E+05 | 1.823E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.55 | 774.48 | 3.565 | 1.683E+05 | 1.683E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.58 | 774.48 | 3.562 | 1.684E+05 | 1.684E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.66 | 734.33 | 3.507 | 1.538E+05 | 1.538E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.73 | 639.67 | 3.385 | 1.209E+05 | 1.209E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.80 | 704.69 | 3.494 | 1.421E+05 | 1.421E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.85 | 743.16 | 3.551 | 1.555E+05 | 1.555E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.91 | 776.84 | 3.603 | 1.675E+05 | 1.675E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 34.98 | 804.92 | 3.648 | 1.776E+05 | 1.776E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 35.06 | 832.41 | 3.700 | 1.873E+05 | 1.873E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 35.12 | 840.67 | 3.720 | 1.900E+05 | 1.900E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.23 | 0.00 | | |
| 35.18 | 840.67 | 3.732 | 1.894E+05 | 1.894E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | | 0.39 | **0.54** | <= | 2.39 | 0.017 | 0.00 | 3.23 | 0.00 | 35.12 | 35.18 |
| 35.26 | 837.41 | 3.738 | 1.876E+05 | 1.876E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | | 0.34 | **0.47** | <= | 2.53 | 0.023 | 0.00 | 3.22 | 0.00 | 35.18 | 35.26 |
| 35.30 | 837.41 | 3.738 | 1.876E+05 | 1.876E+05 | 1.00 | 0.1542 | 0.989 | 0.514 | | 0.34 | **0.47** | <= | 2.53 | 0.012 | 0.00 | 3.19 | 0.00 | 35.26 | 35.30 |

**LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA** TEST LOCATION: **CPT-5**

Project Name: Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
Project No.: 7109.23

D (ft): 1 | Magnitude: 6.62 | Magnitude Scaling Factor: 1.38
Groundwater Level: 10 feet | Accleration: 0.606 g's

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 | Unit Tributary Area, A (ft$^2$): 45.83 | Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000
Discrete Coumn Dia. (ft): 3.0 | Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft$^2$): 7.07 | $A_R = A_{sc}/A$: 0.154 | Assumed Discrete Column Density (pcf): 130.00
Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec$^2$)/ft$^4$ | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 35.40 | 120.80 | 2.4275 | 55.64 | 1.09 | 1.96% | 2.048 | 0.74 | 32.54 | 2.45 | 2.51 | 92 | 0.152 | 0.182 | 0.89 | 0.792 | 0.519 | 846.99 | 3.752 | 1.912E+05 | 1.912E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.35 | **0.49** | <= | 2.47 | 0.028 | 0.00 | 3.18 | 0.00 | 35.30 | 35.40 |
| 35.44 | 121.17 | 2.4300 | 54.47 | 1.16 | 2.13% | 2.229 | 0.75 | 31.80 | 2.48 | 2.66 | 95 | 0.159 | 0.191 | 0.89 | 0.794 | 0.519 | 857.52 | 3.763 | 1.954E+05 | 1.954E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.37 | **0.51** | <= | 2.41 | 0.011 | 0.00 | 3.15 | 0.00 | 35.40 | 35.44 |
| 35.50 | 121.56 | 2.4336 | 52.23 | 1.24 | 2.37% | 2.490 | 0.77 | 30.40 | 2.53 | 2.90 | 98 | 0.168 | 0.201 | 0.89 | 0.796 | 0.519 | 868.80 | 3.775 | 1.999E+05 | 1.999E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.39 | **0.54** | <= | 2.34 | 0.016 | 0.00 | 3.14 | 0.00 | 35.44 | 35.50 |
| 35.57 | 121.23 | 2.4378 | 50.08 | 1.20 | 2.40% | 2.519 | 0.77 | 29.05 | 2.54 | 3.01 | 99 | 0.171 | 0.209 | 0.89 | 0.798 | 0.519 | 863.26 | 3.765 | 1.979E+05 | 1.979E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.41 | **0.56** | <= | 2.32 | 0.019 | 0.00 | 3.12 | 0.00 | 35.50 | 35.57 |
| 35.66 | 119.54 | 2.4432 | 45.69 | 0.98 | 2.14% | 2.266 | 0.77 | 26.33 | 2.55 | 3.03 | 100 | 0.173 | 0.219 | 0.89 | 0.801 | 0.519 | 829.00 | 3.712 | 1.851E+05 | 1.851E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.43 | **0.59** | <= | 2.31 | 0.025 | 0.00 | 3.11 | 0.00 | 35.57 | 35.66 |
| 35.71 | 118.66 | 2.4462 | 42.47 | 0.89 | 2.10% | 2.224 | 0.78 | 24.34 | 2.57 | 3.16 | 104 | 0.186 | 0.238 | 0.88 | 0.802 | 0.519 | 812.70 | 3.685 | 1.792E+05 | 1.792E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | | 0.46 | **0.64** | <= | 2.23 | 0.013 | 0.00 | 3.08 | 0.00 | 35.66 | 35.71 |
| 35.80 | 117.22 | 2.4515 | 35.63 | 0.78 | 2.19% | 2.351 | 0.80 | 20.15 | 2.66 | 3.69 | 122 | 0.248 | 0.326 | 0.88 | 0.805 | 0.518 | 790.38 | 3.640 | 1.716E+05 | 1.716E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.07 | 0.00 | | |
| 35.85 | 116.39 | 2.4544 | 31.34 | 0.72 | 2.30% | 2.493 | 0.82 | 17.53 | 2.72 | 4.17 | 138 | 0.322 | 0.322 | 0.88 | 0.807 | 0.518 | 776.84 | 3.615 | 1.670E+05 | 1.670E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.07 | 0.00 | | |
| 35.91 | 115.32 | 2.4578 | 25.77 | 0.67 | 2.60% | 2.874 | 0.86 | 14.13 | 2.84 | 5.14 | 170 | 0.534 | 0.534 | 0.88 | 0.808 | 0.518 | 764.67 | 3.581 | 1.633E+05 | 1.633E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.07 | 0.00 | | |
| 35.97 | 114.74 | 2.4613 | 22.06 | 0.65 | 2.95% | 3.317 | 0.89 | 11.87 | 2.94 | 6.14 | 203 | 0.852 | 0.852 | 0.88 | 0.810 | 0.518 | 759.54 | 3.563 | 1.619E+05 | 1.619E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.07 | 0.00 | | |
| 36.02 | 114.47 | 2.4641 | 19.52 | 0.65 | 3.33% | 3.811 | 0.92 | 10.32 | 3.03 | 7.11 | 235 | 1.283 | 1.283 | 0.88 | 0.812 | 0.518 | 759.54 | 3.555 | 1.623E+05 | 1.623E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.07 | 0.00 | | |
| 36.09 | 114.54 | 2.4682 | 17.57 | 0.68 | 3.87% | 4.503 | 0.94 | 9.13 | 3.12 | 8.22 | 271 | 1.933 | 1.933 | 0.88 | 0.814 | 0.518 | 767.17 | 3.557 | 1.655E+05 | 1.655E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.07 | 0.00 | | |
| 36.16 | 115.26 | 2.4722 | 17.28 | 0.76 | 4.40% | 5.132 | 0.96 | 8.94 | 3.17 | 8.79 | 290 | 2.350 | 2.350 | 0.88 | 0.816 | 0.518 | 785.99 | 3.580 | 1.726E+05 | 1.726E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.07 | 0.00 | | |
| 36.24 | 116.16 | 2.4768 | 18.55 | 0.84 | 4.53% | 5.226 | 0.95 | 9.69 | 3.14 | 8.47 | 280 | 2.111 | 2.111 | 0.88 | 0.819 | 0.518 | 802.92 | 3.607 | 1.787E+05 | 1.787E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.07 | 0.00 | | |
| 36.29 | 116.85 | 2.4798 | 20.40 | 0.89 | 4.36% | 4.966 | 0.93 | 10.80 | 3.09 | 7.79 | 257 | 1.662 | 1.662 | 0.88 | 0.820 | 0.518 | 812.70 | 3.629 | 1.820E+05 | 1.820E+05 | 1.00 | 0.1542 | 0.989 | 0.513 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.07 | 0.00 | | |
| 36.37 | 117.92 | 2.4845 | 24.89 | 0.96 | 3.86% | 4.285 | 0.90 | 13.48 | 2.97 | 6.40 | 211 | 0.955 | 0.955 | 0.88 | 0.823 | 0.518 | 825.51 | 3.662 | 1.861E+05 | 1.861E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.07 | 0.00 | | |
| 36.42 | 118.96 | 2.4874 | 33.00 | 1.01 | 3.06% | 3.310 | 0.84 | 18.35 | 2.78 | 4.66 | 154 | 0.418 | 0.418 | 0.88 | 0.824 | 0.518 | 834.10 | 3.694 | 1.883E+05 | 1.883E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 3.07 | 0.00 | | |
| 36.48 | 119.60 | 2.4910 | 54.08 | 0.94 | 1.74% | 1.822 | 0.74 | 30.99 | 2.43 | 2.43 | 85 | 0.138 | 0.169 | 0.88 | 0.826 | 0.518 | 821.95 | 3.714 | 1.819E+05 | 1.819E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.33 | **0.45** | <= | 2.62 | 0.018 | 0.00 | 3.07 | 0.00 | 36.42 | 36.48 |
| 36.56 | 116.40 | 2.4957 | 77.81 | 0.54 | 0.69% | 0.717 | 0.62 | 45.18 | 2.04 | 1.36 | 74 | 0.117 | 0.295 | 0.88 | 0.829 | 0.518 | 728.18 | 3.615 | 1.467E+05 | 1.467E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.58 | **0.79** | <= | 2.96 | 0.027 | 0.00 | 3.05 | 0.00 | 36.48 | 36.56 |
| 36.65 | 117.64 | 2.5010 | 89.32 | 0.61 | 0.68% | 0.703 | 0.60 | 52.00 | 1.98 | 1.28 | 80 | 0.128 | 0.295 | 0.88 | 0.831 | 0.518 | 748.80 | 3.653 | 1.535E+05 | 1.535E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.58 | **0.79** | <= | 2.75 | 0.028 | 0.00 | 3.02 | 0.00 | 36.56 | 36.65 |
| 36.69 | 117.60 | 2.5033 | 91.28 | 0.60 | 0.66% | 0.676 | 0.60 | 53.14 | 1.97 | 1.26 | 81 | 0.129 | 0.284 | 0.88 | 0.833 | 0.518 | 746.00 | 3.652 | 1.524E+05 | 1.524E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.56 | **0.76** | <= | 2.74 | 0.012 | 0.00 | 2.99 | 0.00 | 36.65 | 36.69 |
| 36.78 | 117.79 | 2.5086 | 87.47 | 0.62 | 0.71% | 0.730 | 0.61 | 50.78 | 2.00 | 1.30 | 80 | 0.127 | 0.293 | 0.88 | 0.836 | 0.517 | 751.55 | 3.658 | 1.544E+05 | 1.544E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.57 | **0.79** | <= | 2.77 | 0.028 | 0.00 | 2.98 | 0.00 | 36.69 | 36.78 |
| 36.81 | 117.68 | 2.5104 | 71.56 | 0.66 | 0.92% | 0.956 | 0.65 | 41.25 | 2.15 | 1.55 | 75 | 0.120 | 0.304 | 0.88 | 0.836 | 0.517 | 762.12 | 3.655 | 1.589E+05 | 1.589E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.59 | **0.82** | <= | 2.89 | 0.010 | 0.00 | 2.95 | 0.00 | 36.78 | 36.81 |
| 36.90 | 119.25 | 2.5158 | 67.75 | 0.83 | 1.23% | 1.272 | 0.68 | 38.91 | 2.25 | 1.79 | 81 | 0.129 | 0.327 | 0.88 | 0.839 | 0.517 | 800.89 | 3.703 | 1.732E+05 | 1.732E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.64 | **0.88** | <= | 2.74 | 0.028 | 0.00 | 2.94 | 0.00 | 36.81 | 36.90 |
| 36.95 | 119.32 | 2.5187 | 56.62 | 0.89 | 1.57% | 1.645 | 0.72 | 32.24 | 2.39 | 2.25 | 83 | 0.133 | 0.163 | 0.87 | 0.841 | 0.517 | 812.70 | 3.706 | 1.782E+05 | 1.782E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.32 | **0.44** | <= | 2.68 | 0.015 | 0.00 | 2.91 | 0.00 | 36.90 | 36.95 |
| 37.01 | 118.26 | 2.5223 | 44.81 | 0.83 | 1.85% | 1.963 | 0.77 | 25.18 | 2.52 | 2.89 | 95 | 0.161 | 0.204 | 0.87 | 0.843 | 0.517 | 800.89 | 3.673 | 1.746E+05 | 1.746E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | | 0.40 | **0.55** | <= | 2.40 | 0.017 | 0.00 | 2.90 | 0.00 | 36.95 | 37.01 |
| 37.08 | 117.01 | 2.5264 | 34.95 | 0.76 | 2.17% | 2.344 | 0.81 | 19.28 | 2.67 | 3.78 | 125 | 0.261 | 0.261 | 0.87 | 0.845 | 0.517 | 785.99 | 3.634 | 1.700E+05 | 1.700E+05 | 1.00 | 0.1542 | 0.989 | 0.512 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.16 | 115.19 | 2.5310 | 26.06 | 0.65 | 2.49% | 2.763 | 0.86 | 13.98 | 2.83 | 5.07 | 167 | 0.516 | 0.516 | 0.87 | 0.847 | 0.517 | 759.54 | 3.577 | 1.613E+05 | 1.613E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.21 | 114.20 | 2.5339 | 20.89 | 0.61 | 2.92% | 3.323 | 0.90 | 10.89 | 2.97 | 6.47 | 213 | 0.985 | 0.985 | 0.87 | 0.849 | 0.517 | 748.80 | 3.547 | 1.581E+05 | 1.581E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.30 | 113.03 | 2.5389 | 16.79 | 0.56 | 3.34% | 3.930 | 0.94 | 8.45 | 3.11 | 8.11 | 268 | 1.861 | 1.861 | 0.87 | 0.852 | 0.517 | 734.33 | 3.510 | 1.536E+05 | 1.536E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.35 | 112.93 | 2.5418 | 16.69 | 0.56 | 3.36% | 3.958 | 0.94 | 8.38 | 3.12 | 8.17 | 270 | 1.902 | 1.902 | 0.87 | 0.853 | 0.517 | 734.33 | 3.507 | 1.538E+05 | 1.538E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.43 | 113.12 | 2.5463 | 17.47 | 0.56 | 3.21% | 3.752 | 0.93 | 8.83 | 3.09 | 7.75 | 256 | 1.633 | 1.633 | 0.87 | 0.856 | 0.517 | 734.33 | 3.513 | 1.535E+05 | 1.535E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.48 | 114.32 | 2.5491 | 18.74 | 0.65 | 3.47% | 4.015 | 0.93 | 9.57 | 3.07 | 7.60 | 251 | 1.549 | 1.549 | 0.87 | 0.857 | 0.517 | 759.54 | 3.550 | 1.625E+05 | 1.625E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.54 | 115.64 | 2.5526 | 20.21 | 0.76 | 3.76% | 4.304 | 0.93 | 10.43 | 3.06 | 7.45 | 246 | 1.464 | 1.464 | 0.87 | 0.859 | 0.517 | 785.99 | 3.591 | 1.720E+05 | 1.720E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.62 | 117.41 | 2.5573 | 22.55 | 0.93 | 4.12% | 4.652 | 0.92 | 11.79 | 3.04 | 7.19 | 237 | 1.320 | 1.320 | 0.87 | 0.862 | 0.516 | 820.14 | 3.646 | 1.845E+05 | 1.845E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.67 | 118.48 | 2.5603 | 24.11 | 1.05 | 4.36% | 4.872 | 0.92 | 12.70 | 3.03 | 7.03 | 232 | 1.243 | 1.243 | 0.87 | 0.863 | 0.516 | 840.67 | 3.680 | 1.921E+05 | 1.921E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.73 | 119.73 | 2.5639 | 26.06 | 1.21 | 4.64% | 5.150 | 0.91 | 13.83 | 3.01 | 6.87 | 227 | 1.165 | 1.165 | 0.87 | 0.865 | 0.516 | 864.66 | 3.718 | 2.011E+05 | 2.011E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.80 | 120.34 | 2.5681 | 26.46 | 1.31 | 4.95% | 5.483 | 0.92 | 14.05 | 3.02 | 7.02 | 232 | 1.237 | 1.237 | 0.87 | 0.867 | 0.516 | 878.09 | 3.737 | 2.063E+05 | 2.063E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.87 | 121.32 | 2.5723 | 29.77 | 1.44 | 4.84% | 5.295 | 0.90 | 15.97 | 2.97 | 6.41 | 212 | 0.961 | 0.961 | 0.87 | 0.870 | 0.516 | 894.10 | 3.768 | 2.122E+05 | 2.122E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 37.93 | 122.33 | 2.5760 | 37.00 | 1.54 | 4.16% | 4.474 | 0.86 | 20.20 | 2.84 | 5.12 | 169 | 0.528 | 0.528 | 0.87 | 0.871 | 0.516 | 905.45 | 3.799 | 2.158E+05 | 2.158E+05 | 1.00 | 0.1542 | 0.989 | 0.511 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.88 | 0.00 | | |
| 38.00 | 124.01 | 2.5803 | 59.16 | 1.66 | 2.81% | 2.934 | 0.77 | 33.15 | 2.54 | 2.99 | 111 | 0.207 | 0.236 | 0.87 | 0.874 | 0.516 | 918.15 | 3.851 | 2.189E+05 | 2.189E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.46 | **0.64** | <= | 2.12 | 0.017 | 0.00 | 2.88 | 0.00 | 37.93 | 38.00 |
| 38.06 | 125.11 | 2.5841 | 86.79 | 1.70 | 1.96% | 2.019 | 0.70 | 49.28 | 2.29 | 1.93 | 110 | 0.205 | 0.381 | 0.87 | 0.875 | 0.516 | 922.18 | 3.885 | 2.189E+05 | 2.189E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.75 | **1.03** | <= | 0.59 | 0.004 | 0.00 | 2.87 | 0.00 | 38.00 | 38.06 |
| 38.15 | 124.69 | 2.5897 | 92.64 | 1.57 | 1.69% | 1.743 | 0.68 | 52.62 | 2.23 | 1.73 | 107 | 0.194 | 0.344 | 0.86 | 0.878 | 0.516 | 908.72 | 3.872 | 2.132E+05 | 2.132E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.68 | **0.93** | <= | 0.99 | 0.011 | 0.00 | 2.86 | 0.00 | 38.06 | 38.15 |
| 38.19 | 123.62 | 2.5922 | 82.88 | 1.41 | 1.70% | 1.756 | 0.69 | 46.88 | 2.27 | 1.85 | 101 | 0.177 | 0.344 | 0.86 | 0.880 | 0.516 | 890.54 | 3.839 | 2.066E+05 | 2.066E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.67 | **0.93** | <= | 1.27 | 0.006 | 0.00 | 2.85 | 0.00 | 38.15 | 38.19 |
| 38.26 | 121.65 | 2.5964 | 67.07 | 1.15 | 1.71% | 1.784 | 0.71 | 37.60 | 2.35 | 2.12 | 92 | 0.152 | 0.174 | 0.86 | 0.882 | 0.515 | 856.06 | 3.778 | 1.940E+05 | 1.940E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.34 | **0.47** | <= | 2.47 | 0.020 | 0.00 | 2.84 | 0.00 | 38.19 | 38.26 |
| 38.34 | 120.54 | 2.6012 | 55.55 | 1.06 | 1.91% | 2.002 | 0.74 | 30.84 | 2.45 | 2.55 | 89 | 0.146 | 0.177 | 0.86 | 0.884 | 0.515 | 842.27 | 3.743 | 1.895E+05 | 1.895E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.35 | **0.48** | <= | 2.53 | 0.023 | 0.00 | 2.82 | 0.00 | 38.26 | 38.34 |
| 38.39 | 120.25 | 2.6043 | 49.59 | 1.05 | 2.12% | 2.235 | 0.77 | 27.34 | 2.53 | 2.92 | 96 | 0.163 | 0.201 | 0.86 | 0.886 | 0.515 | 840.67 | 3.734 | 1.892E+05 | 1.892E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | | 0.39 | **0.54** | <= | 2.38 | 0.014 | 0.00 | 2.80 | 0.00 | 38.34 | 38.39 |
| 38.47 | 119.82 | 2.6090 | 41.98 | 1.05 | 2.50% | 2.667 | 0.80 | 22.88 | 2.64 | 3.60 | 119 | 0.235 | 0.299 | 0.86 | 0.888 | 0.515 | 840.67 | 3.721 | 1.899E+05 | 1.899E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 38.52 | 119.54 | 2.6120 | 37.68 | 1.05 | 2.79% | 2.994 | 0.82 | 20.36 | 2.72 | 4.12 | 136 | 0.314 | 0.314 | 0.86 | 0.890 | 0.515 | 840.67 | 3.712 | 1.904E+05 | 1.904E+05 | 1.00 | 0.1542 | 0.989 | 0.510 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 38.60 | 119.02 | 2.6168 | 32.61 | 1.02 | 3.13% | 3.401 | 0.85 | 17.39 | 2.81 | 4.87 | 161 | 0.465 | 0.465 | 0.86 | 0.892 | 0.515 | 835.76 | 3.696 | 1.890E+05 | 1.890E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 38.65 | 118.71 | 2.6198 | 29.68 | 1.01 | 3.40% | 3.732 | 0.87 | 15.68 | 2.87 | 5.44 | 180 | 0.619 | 0.619 | 0.86 | 0.894 | 0.515 | 834.10 | 3.687 | 1.887E+05 | 1.887E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 38.73 | 118.03 | 2.6245 | 25.58 | 0.97 | 3.79% | 4.226 | 0.90 | 13.28 | 2.97 | 6.40 | 211 | 0.954 | 0.954 | 0.86 | 0.896 | 0.515 | 827.26 | 3.666 | 1.867E+05 | 1.867E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 38.79 | 117.03 | 2.6280 | 22.36 | 0.89 | 3.98% | 4.510 | 0.92 | 11.41 | 3.04 | 7.22 | 238 | 1.336 | 1.336 | 0.86 | 0.898 | 0.515 | 812.70 | 3.634 | 1.817E+05 | 1.817E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 38.87 | 118.57 | 2.6327 | 21.67 | 1.10 | 5.08% | 5.778 | 0.95 | 10.99 | 3.13 | 8.25 | 272 | 1.957 | 1.957 | 0.86 | 0.901 | 0.514 | 848.54 | 3.682 | 1.955E+05 | 1.955E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 38.91 | 119.46 | 2.6351 | 22.84 | 1.22 | 5.34% | 6.038 | 0.94 | 11.66 | 3.12 | 8.15 | 269 | 1.889 | 1.889 | 0.86 | 0.902 | 0.514 | 866.05 | 3.710 | 2.022E+05 | 2.022E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 38.98 | 120.64 | 2.6394 | 27.04 | 1.36 | 5.03% | 5.574 | 0.92 | 14.06 | 3.03 | 7.07 | 233 | 1.259 | 1.259 | 0.86 | 0.904 | 0.514 | 884.43 | 3.747 | 2.088E+05 | 2.088E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 39.05 | 121.81 | 2.6436 | 35.44 | 1.46 | 4.12% | 4.452 | 0.87 | 18.88 | 2.86 | 5.31 | 175 | 0.580 | 0.580 | 0.86 | 0.906 | 0.514 | 896.43 | 3.783 | 2.124E+05 | 2.124E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 39.14 | 122.31 | 2.6491 | 40.71 | 1.49 | 3.66% | 3.915 | 0.84 | 21.87 | 2.77 | 4.53 | 150 | 0.391 | 0.391 | 0.86 | 0.909 | 0.514 | 899.87 | 3.798 | 2.132E+05 | 2.132E+05 | 1.00 | 0.1542 | 0.989 | 0.509 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 39.18 | 122.50 | 2.6516 | 43.05 | 1.50 | 3.48% | 3.713 | 0.83 | 23.20 | 2.73 | 4.25 | 140 | 0.336 | 0.336 | 0.86 | 0.910 | 0.514 | 901.00 | 3.804 | 2.134E+05 | 2.134E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 39.26 | 122.80 | 2.6565 | 48.03 | 1.51 | 3.14% | 3.328 | 0.81 | 26.02 | 2.66 | 3.72 | 123 | 0.252 | 0.252 | 0.86 | 0.913 | 0.514 | 902.13 | 3.814 | 2.134E+05 | 2.134E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 39.31 | 122.97 | 2.6596 | 51.45 | 1.51 | 2.93% | 3.095 | 0.79 | 27.96 | 2.61 | 3.41 | 113 | 0.213 | 0.254 | 0.86 | 0.914 | 0.514 | 902.13 | 3.819 | 2.131E+05 | 2.131E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.79 | 0.00 | | |
| 39.39 | 123.34 | 2.6645 | 59.65 | 1.51 | 2.53% | 2.650 | 0.76 | 32.61 | 2.51 | 2.84 | 105 | 0.187 | 0.214 | 0.85 | 0.917 | 0.513 | 902.13 | 3.830 | 2.125E+05 | 2.125E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.42 | **0.58** | <= | 2.22 | 0.020 | 0.00 | 2.79 | 0.00 | 39.31 | 39.39 |
| 39.45 | 123.49 | 2.6682 | 65.11 | 1.50 | 2.30% | 2.402 | 0.74 | 35.69 | 2.45 | 2.54 | 104 | 0.184 | 0.206 | 0.85 | 0.919 | 0.513 | 901.00 | 3.835 | 2.117E+05 | 2.117E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.41 | **0.56** | <= | 2.24 | 0.015 | 0.00 | 2.77 | 0.00 | 39.39 | 39.45 |
| 39.52 | 123.43 | 2.6725 | 67.75 | 1.47 | 2.17% | 2.259 | 0.73 | 37.16 | 2.42 | 2.40 | 102 | 0.180 | 0.202 | 0.85 | 0.921 | 0.513 | 897.59 | 3.833 | 2.102E+05 | 2.102E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.40 | **0.55** | <= | 2.26 | 0.018 | 0.00 | 2.75 | 0.00 | 39.45 | 39.52 |
| 39.58 | 123.12 | 2.6762 | 68.73 | 1.40 | 2.04% | 2.119 | 0.73 | 37.67 | 2.40 | 2.30 | 100 | 0.173 | 0.194 | 0.85 | 0.923 | 0.513 | 889.33 | 3.824 | 2.068E+05 | 2.068E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.38 | **0.53** | <= | 2.31 | 0.016 | 0.00 | 2.73 | 0.00 | 39.52 | 39.58 |
| 39.64 | 122.67 | 2.6799 | 66.97 | 1.33 | 1.99% | 2.069 | 0.73 | 36.63 | 2.40 | 2.31 | 98 | 0.167 | 0.191 | 0.85 | 0.925 | 0.513 | 880.66 | 3.810 | 2.036E+05 | 2.036E+05 | 1.00 | 0.1542 | 0.989 | 0.508 | | 0.38 | **0.52** | <= | 2.35 | 0.016 | 0.00 | 2.72 | 0.00 | 39.58 | 39.64 |
| 39.72 | 120.49 | 2.6847 | 62.87 | 1.01 | 1.61% | 1.678 | 0.72 | 34.25 | 2.36 | 2.17 | 86 | 0.140 | 0.167 | 0.85 | 0.927 | 0.513 | 834.10 | 3.742 | 1.859E+05 | 1.859E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.33 | **0.45** | <= | 2.60 | 0.024 | 0.00 | 2.70 | 0.00 | 39.64 | 39.72 |
| 39.77 | 118.55 | 2.6877 | 59.16 | 0.79 | 1.34% | 1.399 | 0.71 | 32.11 | 2.34 | 2.08 | 78 | 0.123 | 0.150 | 0.85 | 0.929 | 0.513 | 792.54 | 3.682 | 1.706E+05 | 1.706E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.30 | **0.41** | <= | 2.83 | 0.016 | 0.00 | 2.68 | 0.00 | 39.72 | 39.77 |
| 39.85 | 118.96 | 2.6924 | 50.18 | 0.88 | 1.75% | 1.853 | 0.75 | 26.96 | 2.48 | 2.66 | 88 | 0.143 | 0.180 | 0.85 | 0.931 | 0.513 | 810.79 | 3.694 | 1.779E+05 | 1.779E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | | 0.35 | **0.49** | <= | 2.56 | 0.025 | 0.00 | 2.66 | 0.00 | 39.77 | 39.85 |
| 39.93 | 119.80 | 2.6972 | 43.44 | 1.04 | 2.39% | 2.553 | 0.80 | 23.10 | 2.62 | 3.48 | 115 | 0.221 | 0.282 | 0.85 | 0.934 | 0.512 | 839.05 | 3.720 | 1.892E+05 | 1.892E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 39.98 | 120.24 | 2.7002 | 39.05 | 1.14 | 2.92% | 3.136 | 0.83 | 20.60 | 2.72 | 4.18 | 138 | 0.324 | 0.324 | 0.85 | 0.935 | 0.512 | 854.58 | 3.734 | 1.956E+05 | 1.956E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.03 | 120.45 | 2.7032 | 34.75 | 1.22 | 3.51% | 3.807 | 0.86 | 18.14 | 2.83 | 5.01 | 165 | 0.500 | 0.500 | 0.85 | 0.937 | 0.512 | 866.05 | 3.741 | 2.005E+05 | 2.005E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.11 | 120.34 | 2.7081 | 29.19 | 1.27 | 4.35% | 4.796 | 0.90 | 14.97 | 2.96 | 6.32 | 209 | 0.925 | 0.925 | 0.85 | 0.939 | 0.512 | 872.85 | 3.737 | 2.039E+05 | 2.039E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.17 | 119.84 | 2.7116 | 25.28 | 1.25 | 4.94% | 5.539 | 0.93 | 12.75 | 3.06 | 7.44 | 246 | 1.457 | 1.457 | 0.85 | 0.941 | 0.512 | 870.16 | 3.722 | 2.034E+05 | 2.034E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.22 | 119.20 | 2.7146 | 22.45 | 1.19 | 5.30% | 6.030 | 0.95 | 11.14 | 3.13 | 8.34 | 275 | 2.022 | 2.022 | 0.85 | 0.943 | 0.512 | 861.84 | 3.702 | 2.006E+05 | 2.006E+05 | 1.00 | 0.1542 | 0.989 | 0.507 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.31 | 118.34 | 2.7200 | 19.52 | 1.11 | 5.69% | 6.607 | 0.97 | 9.47 | 3.22 | 9.49 | 313 | 2.935 | 2.935 | 0.85 | 0.946 | 0.512 | 850.07 | 3.675 | 1.966E+05 | 1.966E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.35 | 117.81 | 2.7223 | 18.06 | 1.06 | 5.87% | 6.911 | 0.99 | 8.64 | 3.26 | 10.15 | 335 | 3.576 | 3.576 | 0.85 | 0.947 | 0.512 | 842.27 | 3.659 | 1.939E+05 | 1.939E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.45 | 117.09 | 2.7282 | 16.50 | 0.99 | 6.00% | 7.189 | 1.00 | 7.75 | 3.31 | 10.91 | 360 | 4.423 | 4.423 | 0.85 | 0.950 | 0.512 | 830.71 | 3.636 | 1.898E+05 | 1.898E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.49 | 116.81 | 2.7305 | 15.52 | 0.97 | 6.25% | 7.584 | 1.00 | 7.19 | 3.35 | 11.54 | 381 | 5.222 | 5.222 | 0.85 | 0.951 | 0.511 | 827.26 | 3.628 | 1.887E+05 | 1.887E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.58 | 115.85 | 2.7357 | 15.72 | 0.85 | 5.41% | 6.546 | 1.00 | 7.29 | 3.31 | 10.84 | 358 | 4.339 | 4.339 | 0.85 | 0.954 | 0.511 | 804.92 | 3.598 | 1.801E+05 | 1.801E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.63 | 115.11 | 2.7386 | 15.03 | 0.78 | 5.19% | 6.346 | 1.00 | 6.89 | 3.32 | 11.01 | 363 | 4.541 | 4.541 | 0.84 | 0.956 | 0.511 | 790.38 | 3.575 | 1.748E+05 | 1.748E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.72 | 114.00 | 2.7437 | 15.42 | 0.66 | 4.28% | 5.207 | 0.98 | 7.10 | 3.25 | 10.02 | 331 | 3.446 | 3.446 | 0.84 | 0.958 | 0.511 | 762.12 | 3.540 | 1.641E+05 | 1.641E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.76 | 113.47 | 2.7460 | 14.64 | 0.63 | 4.30% | 5.297 | 0.99 | 6.66 | 3.28 | 10.45 | 345 | 3.893 | 3.893 | 0.84 | 0.960 | 0.511 | 754.26 | 3.524 | 1.614E+05 | 1.614E+05 | 1.00 | 0.1542 | 0.989 | 0.506 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.84 | 112.39 | 2.7505 | 13.76 | 0.55 | 4.00% | 4.996 | 1.00 | 6.16 | 3.30 | 10.65 | 352 | 4.121 | 4.121 | 0.84 | 0.962 | 0.511 | 731.28 | 3.490 | 1.532E+05 | 1.532E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.89 | 112.10 | 2.7533 | 13.76 | 0.53 | 3.85% | 4.815 | 0.99 | 6.15 | 3.29 | 10.51 | 347 | 3.958 | 3.958 | 0.84 | 0.964 | 0.511 | 725.02 | 3.481 | 1.510E+05 | 1.510E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 40.95 | 112.15 | 2.7567 | 13.76 | 0.53 | 3.85% | 4.817 | 0.99 | 6.14 | 3.29 | 10.52 | 347 | 3.967 | 3.967 | 0.84 | 0.966 | 0.511 | 725.02 | 3.483 | 1.509E+05 | 1.509E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.03 | 112.01 | 2.7611 | 13.47 | 0.53 | 3.93% | 4.949 | 1.00 | 5.97 | 3.30 | 10.79 | 356 | 4.280 | 4.280 | 0.84 | 0.968 | 0.511 | 725.02 | 3.479 | 1.511E+05 | 1.511E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.08 | 112.09 | 2.7639 | 14.06 | 0.53 | 3.77% | 4.692 | 0.99 | 6.30 | 3.27 | 10.27 | 339 | 3.702 | 3.702 | 0.84 | 0.970 | 0.510 | 725.02 | 3.481 | 1.510E+05 | 1.510E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.16 | 112.13 | 2.7684 | 13.18 | 0.54 | 4.10% | 5.187 | 1.00 | 5.80 | 3.33 | 11.14 | 368 | 4.702 | 4.702 | 0.84 | 0.972 | 0.510 | 728.18 | 3.482 | 1.523E+05 | 1.523E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.22 | 112.35 | 2.7718 | 13.28 | 0.55 | 4.14% | 5.234 | 1.00 | 5.85 | 3.33 | 11.13 | 367 | 4.689 | 4.689 | 0.84 | 0.974 | 0.510 | 731.28 | 3.489 | 1.533E+05 | 1.533E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.30 | 112.69 | 2.7763 | 13.76 | 0.57 | 4.14% | 5.190 | 1.00 | 6.10 | 3.31 | 10.86 | 358 | 4.359 | 4.359 | 0.84 | 0.977 | 0.510 | 737.33 | 3.500 | 1.553E+05 | 1.553E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.34 | 112.81 | 2.7786 | 13.67 | 0.58 | 4.24% | 5.325 | 1.00 | 6.05 | 3.32 | 11.01 | 363 | 4.541 | 4.541 | 0.84 | 0.978 | 0.510 | 740.27 | 3.503 | 1.564E+05 | 1.564E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.41 | 113.20 | 2.7825 | 14.55 | 0.60 | 4.12% | 5.099 | 0.99 | 6.53 | 3.28 | 10.40 | 343 | 3.843 | 3.843 | 0.84 | 0.980 | 0.510 | 746.00 | 3.516 | 1.583E+05 | 1.583E+05 | 1.00 | 0.1542 | 0.989 | 0.505 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.47 | 113.72 | 2.7859 | 15.03 | 0.64 | 4.26% | 5.227 | 0.99 | 6.79 | 3.27 | 10.29 | 339 | 3.718 | 3.718 | 0.84 | 0.982 | 0.510 | 756.92 | 3.532 | 1.622E+05 | 1.622E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.54 | 114.48 | 2.7899 | 15.52 | 0.70 | 4.51% | 5.499 | 0.99 | 7.05 | 3.27 | 10.29 | 339 | 3.716 | 3.716 | 0.84 | 0.984 | 0.510 | 772.08 | 3.555 | 1.677E+05 | 1.677E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.61 | 115.39 | 2.7940 | 15.91 | 0.79 | 4.97% | 6.023 | 0.99 | 7.26 | 3.29 | 10.51 | 347 | 3.958 | 3.958 | 0.84 | 0.986 | 0.510 | 792.54 | 3.584 | 1.753E+05 | 1.753E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.70 | 115.44 | 2.7992 | 16.11 | 0.79 | 4.90% | 5.935 | 0.99 | 7.35 | 3.28 | 10.37 | 342 | 3.808 | 3.808 | 0.84 | 0.989 | 0.509 | 792.54 | 3.585 | 1.752E+05 | 1.752E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.74 | 115.11 | 2.8015 | 16.89 | 0.75 | 4.44% | 5.323 | 0.98 | 7.78 | 3.23 | 9.62 | 318 | 3.058 | 3.058 | 0.84 | 0.990 | 0.509 | 783.75 | 3.575 | 1.718E+05 | 1.718E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.82 | 115.52 | 2.8061 | 18.84 | 0.76 | 4.03% | 4.740 | 0.95 | 8.84 | 3.15 | 8.53 | 281 | 2.154 | 2.154 | 0.84 | 0.993 | 0.509 | 785.99 | 3.588 | 1.722E+05 | 1.722E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.88 | 117.22 | 2.8096 | 22.36 | 0.91 | 4.07% | 4.655 | 0.93 | 10.77 | 3.07 | 7.55 | 249 | 1.520 | 1.520 | 0.83 | 0.995 | 0.509 | 816.46 | 3.640 | 1.831E+05 | 1.831E+05 | 1.00 | 0.1542 | 0.989 | 0.504 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 41.97 | 119.35 | 2.8150 | 28.99 | 1.11 | 3.83% | 4.241 | 0.89 | 14.40 | 2.94 | 6.08 | 201 | 0.832 | 0.832 | 0.83 | 0.997 | 0.509 | 850.07 | 3.707 | 1.950E+05 | 1.950E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 42.01 | 119.78 | 2.8174 | 30.75 | 1.16 | 3.77% | 4.153 | 0.88 | 15.36 | 2.91 | 5.79 | 191 | 0.728 | 0.728 | 0.83 | 0.999 | 0.509 | 857.52 | 3.720 | 1.977E+05 | 1.977E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.64 | 0.00 | | |
| 42.06 | 121.07 | 2.8204 | 51.64 | 1.16 | 2.25% | 2.376 | 0.77 | 26.82 | 2.55 | 3.02 | 100 | 0.172 | 0.211 | 0.83 | 1.000 | 0.509 | 857.52 | 3.760 | 1.956E+05 | 1.956E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | | 0.42 | **0.58** | <= | 2.31 | 0.014 | 0.00 | 2.64 | 0.00 | 42.01 | 42.06 |
| 42.13 | 121.35 | 2.8246 | 61.89 | 1.14 | 1.84% | 1.930 | 0.73 | 32.41 | 2.42 | 2.40 | 90 | 0.148 | 0.175 | 0.83 | 1.002 | 0.508 | 854.58 | 3.769 | 1.938E+05 | 1.938E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | | 0.35 | **0.48** | <= | 2.51 | 0.020 | 0.00 | 2.62 | 0.00 | 42.06 | 42.13 |
| 42.20 | 121.71 | 2.8289 | 67.26 | 1.16 | 1.72% | 1.800 | 0.72 | 35.32 | 2.37 | 2.19 | 91 | 0.149 | 0.173 | 0.83 | 1.005 | 0.508 | 857.52 | 3.780 | 1.945E+05 | 1.945E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | | 0.34 | **0.47** | <= | 2.50 | 0.020 | 0.00 | 2.60 | 0.00 | 42.13 | 42.20 |
| 42.30 | 122.16 | 2.8350 | 79.37 | 1.17 | 1.47% | 1.529 | 0.69 | 41.89 | 2.26 | 1.83 | 91 | 0.151 | 0.320 | 0.83 | 1.008 | 0.508 | 858.97 | 3.794 | 1.945E+05 | 1.945E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | | 0.64 | **0.88** | <= | 2.48 | 0.029 | 0.00 | 2.58 | 0.00 | 42.20 | 42.30 |
| 42.34 | 122.45 | 2.8375 | 86.30 | 1.18 | 1.37% | 1.414 | 0.67 | 45.65 | 2.21 | 1.68 | 93 | 0.154 | 0.312 | 0.83 | 1.009 | 0.508 | 860.41 | 3.803 | 1.947E+05 | 1.947E+05 | 1.00 | 0.1542 | 0.989 | 0.503 | | 0.62 | **0.85** | <= | 2.45 | 0.011 | 0.00 | 2.55 | 0.00 | 42.30 | 42.34 |
| 42.41 | 122.81 | 2.8418 | 100.75 | 1.18 | 1.17% | 1.205 | 0.64 | 53.49 | 2.10 | 1.46 | 96 | 0.162 | 0.301 | 0.83 | 1.011 | 0.508 | 860.41 | 3.814 | 1.941E+05 | 1.941E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | | 0.60 | **0.82** | <= | 1.82 | 0.015 | 0.00 | 2.54 | 0.00 | 42.34 | 42.41 |
| 42.48 | 122.59 | 2.8461 | 110.31 | 1.11 | 1.01% | 1.033 | 0.62 | 58.64 | 2.03 | 1.34 | 97 | 0.166 | 0.281 | 0.83 | 1.013 | 0.508 | 850.07 | 3.807 | 1.898E+05 | 1.898E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | | 0.56 | **0.77** | <= | 2.36 | 0.019 | 0.00 | 2.53 | 0.00 | 42.41 | 42.48 |
| 42.53 | 122.28 | 2.8491 | 120.47 | 1.03 | 0.85% | 0.876 | 0.59 | 64.13 | 1.95 | 1.24 | 100 | 0.173 | 0.279 | 0.83 | 1.015 | 0.508 | 837.41 | 3.798 | 1.847E+05 | 1.847E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | | 0.56 | **0.76** | <= | 2.31 | 0.013 | 0.00 | 2.51 | 0.00 | 42.48 | 42.53 |
| 42.59 | 121.84 | 2.8528 | 125.54 | 0.96 | 0.76% | 0.782 | 0.58 | 66.82 | 1.90 | 1.19 | 101 | 0.176 | 0.284 | 0.83 | 1.017 | 0.507 | 825.51 | 3.784 | 1.801E+05 | 1.801E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | | 0.57 | **0.78** | <= | 2.23 | 0.016 | 0.00 | 2.49 | 0.00 | 42.53 | 42.59 |
| 42.65 | 121.58 | 2.8564 | 131.89 | 0.91 | 0.69% | 0.705 | 0.56 | 70.21 | 1.85 | 1.15 | 103 | 0.183 | 0.280 | 0.83 | 1.019 | 0.507 | 816.46 | 3.776 | 1.765E+05 | 1.765E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | | 0.56 | **0.77** | <= | 2.15 | 0.015 | 0.00 | 2.48 | 0.00 | 42.59 | 42.65 |
| 42.72 | 121.56 | 2.8607 | 136.18 | 0.90 | 0.66% | 0.675 | 0.56 | 72.46 | 1.83 | 1.13 | 105 | 0.189 | 0.290 | 0.83 | 1.021 | 0.507 | 814.59 | 3.775 | 1.758E+05 | 1.758E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | | 0.58 | **0.80** | <= | 2.20 | 0.018 | 0.00 | 2.46 | 0.00 | 42.65 | 42.72 |
| 42.79 | 121.58 | 2.8649 | 137.65 | 0.90 | 0.65% | 0.668 | 0.56 | 73.18 | 1.82 | 1.12 | 106 | 0.191 | 0.294 | 0.83 | 1.023 | 0.507 | 814.59 | 3.776 | 1.757E+05 | 1.757E+05 | 1.00 | 0.1542 | 0.989 | 0.502 | | 0.59 | **0.81** | <= | 1.44 | 0.012 | 0.00 | 2.45 | 0.00 | 42.72 | 42.79 |
| 42.87 | 121.70 | 2.8698 | 135.79 | 0.92 | 0.68% | 0.692 | 0.56 | 72.07 | 1.84 | 1.14 | 105 | 0.189 | 0.291 | 0.83 | 1.026 | 0.507 | 818.31 | 3.780 | 1.772E+05 | 1.772E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.58 | **0.80** | <= | 2.20 | 0.020 | 0.00 | 2.43 | 0.00 | 42.79 | 42.87 |
| 42.92 | 121.93 | 2.8728 | 132.77 | 0.95 | 0.72% | 0.731 | 0.57 | 70.38 | 1.86 | 1.16 | 104 | 0.185 | 0.286 | 0.83 | 1.027 | 0.507 | 823.74 | 3.787 | 1.792E+05 | 1.792E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.57 | **0.78** | <= | 2.18 | 0.013 | 0.00 | 2.41 | 0.00 | 42.87 | 42.92 |
| 42.99 | 122.62 | 2.8771 | 122.91 | 1.08 | 0.88% | 0.900 | 0.59 | 64.96 | 1.95 | 1.24 | 102 | 0.178 | 0.289 | 0.83 | 1.029 | 0.506 | 845.43 | 3.808 | 1.877E+05 | 1.877E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.58 | **0.79** | <= | 2.25 | 0.018 | 0.00 | 2.40 | 0.00 | 42.92 | 42.99 |
| 43.05 | 123.41 | 2.8808 | 115.39 | 1.22 | 1.06% | 1.084 | 0.62 | 60.83 | 2.03 | 1.33 | 101 | 0.177 | 0.287 | 0.83 | 1.031 | 0.506 | 866.05 | 3.833 | 1.957E+05 | 1.957E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.57 | **0.79** | <= | 2.28 | 0.016 | 0.00 | 2.38 | 0.00 | 42.99 | 43.05 |
| 43.13 | 124.40 | 2.8858 | 95.57 | 1.49 | 1.56% | 1.608 | 0.67 | 50.04 | 2.21 | 1.69 | 102 | 0.180 | 0.322 | 0.82 | 1.034 | 0.506 | 899.87 | 3.863 | 2.096E+05 | 2.096E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.64 | **0.88** | <= | 2.14 | 0.021 | 0.00 | 2.37 | 0.00 | 43.05 | 43.13 |
| 43.19 | 124.25 | 2.8895 | 81.22 | 1.54 | 1.90% | 1.966 | 0.71 | 42.25 | 2.33 | 2.05 | 102 | 0.180 | 0.185 | 0.82 | 1.036 | 0.506 | 905.45 | 3.859 | 2.125E+05 | 2.125E+05 | 1.00 | 0.1542 | 0.989 | 0.501 | | 0.37 | **0.51** | <= | 2.26 | 0.016 | 0.00 | 2.35 | 0.00 | 43.13 | 43.19 |
| 43.26 | 123.17 | 2.8938 | 59.26 | 1.48 | 2.50% | 2.626 | 0.77 | 30.37 | 2.53 | 2.93 | 102 | 0.178 | 0.208 | 0.82 | 1.038 | 0.506 | 898.73 | 3.825 | 2.112E+05 | 2.112E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | | 0.41 | **0.57** | <= | 2.27 | 0.018 | 0.00 | 2.33 | 0.00 | 43.19 | 43.26 |
| 43.33 | 122.18 | 2.8981 | 48.03 | 1.39 | 2.89% | 3.080 | 0.81 | 24.29 | 2.66 | 3.70 | 122 | 0.249 | 0.249 | 0.82 | 1.040 | 0.506 | 888.12 | 3.794 | 2.079E+05 | 2.079E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 43.41 | 120.91 | 2.9030 | 36.71 | 1.27 | 3.46% | 3.757 | 0.85 | 18.17 | 2.82 | 4.95 | 163 | 0.485 | 0.485 | 0.82 | 1.042 | 0.505 | 872.85 | 3.755 | 2.029E+05 | 2.029E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 43.45 | 119.88 | 2.9054 | 29.77 | 1.19 | 4.00% | 4.430 | 0.89 | 14.43 | 2.95 | 6.20 | 204 | 0.875 | 0.875 | 0.82 | 1.044 | 0.505 | 861.84 | 3.723 | 1.995E+05 | 1.995E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 43.52 | 117.89 | 2.9095 | 24.50 | 0.97 | 3.96% | 4.493 | 0.92 | 11.59 | 3.03 | 7.11 | 235 | 1.283 | 1.283 | 0.82 | 1.046 | 0.505 | 827.26 | 3.661 | 1.869E+05 | 1.869E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 43.59 | 115.72 | 2.9135 | 22.16 | 0.74 | 3.34% | 3.845 | 0.92 | 10.32 | 3.03 | 7.10 | 234 | 1.276 | 1.276 | 0.82 | 1.048 | 0.505 | 781.48 | 3.594 | 1.699E+05 | 1.699E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 43.64 | 114.49 | 2.9164 | 21.18 | 0.64 | 3.02% | 3.504 | 0.92 | 9.78 | 3.03 | 7.04 | 232 | 1.245 | 1.245 | 0.82 | 1.050 | 0.505 | 756.92 | 3.556 | 1.611E+05 | 1.611E+05 | 1.00 | 0.1542 | 0.989 | 0.500 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 43.72 | 110.80 | 2.9208 | 19.62 | 0.40 | 2.04% | 2.395 | 0.90 | 8.94 | 2.96 | 6.33 | 209 | 0.926 | 0.926 | 0.82 | 1.052 | 0.505 | 677.41 | 3.441 | 1.334E+05 | 1.334E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 43.80 | 108.52 | 2.9252 | 19.13 | 0.29 | 1.52% | 1.790 | 0.88 | 8.66 | 2.90 | 5.73 | 189 | 0.707 | 0.707 | 0.82 | 1.055 | 0.505 | 623.01 | 3.370 | 1.152E+05 | 1.152E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 43.84 | 107.82 | 2.9273 | 19.43 | 0.26 | 1.34% | 1.576 | 0.87 | 8.82 | 2.87 | 5.37 | 177 | 0.598 | 0.598 | 0.82 | 1.056 | 0.505 | 604.54 | 3.348 | 1.091E+05 | 1.091E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 43.91 | 107.02 | 2.9311 | 19.43 | 0.24 | 1.24% | 1.455 | 0.86 | 8.81 | 2.85 | 5.21 | 172 | 0.552 | 0.552 | 0.82 | 1.058 | 0.504 | 591.00 | 3.324 | 1.051E+05 | 1.051E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 43.99 | 106.02 | 2.9353 | 20.01 | 0.20 | 1.00% | 1.171 | 0.84 | 9.11 | 2.79 | 4.67 | 154 | 0.421 | 0.421 | 0.82 | 1.060 | 0.504 | 560.16 | 3.293 | 9.530E+04 | 9.530E+04 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.04 | 106.35 | 2.9380 | 20.01 | 0.21 | 1.05% | 1.230 | 0.85 | 9.10 | 2.80 | 4.76 | 157 | 0.441 | 0.441 | 0.82 | 1.062 | 0.504 | 568.41 | 3.303 | 9.782E+04 | 9.782E+04 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.12 | 109.06 | 2.9423 | 19.13 | 0.31 | 1.62% | 1.915 | 0.88 | 8.62 | 2.92 | 5.90 | 195 | 0.768 | 0.768 | 0.82 | 1.065 | 0.504 | 634.30 | 3.387 | 1.188E+05 | 1.188E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.17 | 112.47 | 2.9451 | 19.13 | 0.50 | 2.61% | 3.089 | 0.92 | 8.61 | 3.04 | 7.21 | 238 | 1.331 | 1.331 | 0.82 | 1.066 | 0.504 | 715.16 | 3.493 | 1.464E+05 | 1.464E+05 | 1.00 | 0.1542 | 0.989 | 0.499 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.23 | 115.56 | 2.9486 | 21.28 | 0.74 | 3.48% | 4.037 | 0.93 | 9.75 | 3.07 | 7.50 | 248 | 1.493 | 1.493 | 0.82 | 1.068 | 0.504 | 781.48 | 3.589 | 1.702E+05 | 1.702E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.30 | 118.30 | 2.9528 | 20.70 | 1.08 | 5.22% | 6.085 | 0.97 | 9.43 | 3.19 | 9.17 | 303 | 2.654 | 2.654 | 0.82 | 1.070 | 0.504 | 845.43 | 3.674 | 1.945E+05 | 1.945E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.36 | 121.43 | 2.9564 | 33.48 | 1.41 | 4.21% | 4.619 | 0.88 | 16.20 | 2.92 | 5.90 | 195 | 0.766 | 0.766 | 0.81 | 1.072 | 0.503 | 890.54 | 3.771 | 2.103E+05 | 2.103E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.44 | 123.24 | 2.9613 | 38.37 | 1.72 | 4.48% | 4.858 | 0.87 | 18.77 | 2.88 | 5.54 | 183 | 0.649 | 0.649 | 0.81 | 1.075 | 0.503 | 924.15 | 3.827 | 2.231E+05 | 2.231E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.49 | 124.32 | 2.9644 | 39.93 | 1.97 | 4.93% | 5.329 | 0.88 | 19.58 | 2.90 | 5.68 | 187 | 0.691 | 0.691 | 0.81 | 1.076 | 0.503 | 947.11 | 3.861 | 2.323E+05 | 2.323E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.58 | 125.47 | 2.9701 | 39.15 | 2.32 | 5.93% | 6.412 | 0.90 | 19.13 | 2.96 | 6.34 | 209 | 0.933 | 0.933 | 0.81 | 1.079 | 0.503 | 974.77 | 3.897 | 2.439E+05 | 2.439E+05 | 1.00 | 0.1542 | 0.989 | 0.498 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.62 | 125.91 | 2.9726 | 39.34 | 2.46 | 6.25% | 6.764 | 0.90 | 19.22 | 2.98 | 6.51 | 215 | 1.002 | 1.002 | 0.81 | 1.080 | 0.503 | 984.69 | 3.910 | 2.480E+05 | 2.480E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.69 | 126.11 | 2.9770 | 41.59 | 2.49 | 5.99% | 6.449 | 0.89 | 20.38 | 2.94 | 6.14 | 203 | 0.854 | 0.854 | 0.81 | 1.082 | 0.503 | 986.74 | 3.916 | 2.486E+05 | 2.486E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.75 | 126.00 | 2.9808 | 43.73 | 2.41 | 5.51% | 5.914 | 0.88 | 21.49 | 2.90 | 5.69 | 188 | 0.694 | 0.694 | 0.81 | 1.084 | 0.502 | 981.21 | 3.913 | 2.460E+05 | 2.460E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.84 | 125.78 | 2.9865 | 46.18 | 2.29 | 4.96% | 5.302 | 0.86 | 22.74 | 2.85 | 5.18 | 171 | 0.545 | 0.545 | 0.81 | 1.087 | 0.502 | 972.57 | 3.906 | 2.422E+05 | 2.422E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.89 | 125.71 | 2.9896 | 47.64 | 2.25 | 4.72% | 5.039 | 0.85 | 23.49 | 2.82 | 4.94 | 163 | 0.483 | 0.483 | 0.81 | 1.089 | 0.502 | 969.59 | 3.904 | 2.408E+05 | 2.408E+05 | 1.00 | 0.1542 | 0.989 | 0.497 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 44.97 | 126.04 | 2.9946 | 49.88 | 2.32 | 4.65% | 4.948 | 0.85 | 24.63 | 2.80 | 4.75 | 157 | 0.439 | 0.439 | 0.81 | 1.091 | 0.502 | 974.77 | 3.914 | 2.427E+05 | 2.427E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.02 | 126.12 | 2.9978 | 51.64 | 2.32 | 4.49% | 4.770 | 0.84 | 25.53 | 2.77 | 4.56 | 150 | 0.396 | 0.396 | 0.81 | 1.093 | 0.502 | 974.77 | 3.917 | 2.426E+05 | 2.426E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.08 | 126.08 | 3.0016 | 49.40 | 2.34 | 4.74% | 5.043 | 0.85 | 24.33 | 2.81 | 4.84 | 160 | 0.459 | 0.459 | 0.81 | 1.094 | 0.501 | 976.23 | 3.916 | 2.434E+05 | 2.434E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.16 | 125.24 | 3.0066 | 42.86 | 2.19 | 5.11% | 5.495 | 0.87 | 20.87 | 2.89 | 5.55 | 183 | 0.652 | 0.652 | 0.81 | 1.097 | 0.501 | 965.02 | 3.889 | 2.394E+05 | 2.394E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.24 | 123.23 | 3.0115 | 34.17 | 1.79 | 5.24% | 5.745 | 0.90 | 16.30 | 2.98 | 6.56 | 217 | 1.024 | 1.024 | 0.81 | 1.099 | 0.501 | 930.90 | 3.827 | 2.264E+05 | 2.264E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.29 | 122.08 | 3.0146 | 29.58 | 1.60 | 5.41% | 6.023 | 0.92 | 13.88 | 3.05 | 7.36 | 243 | 1.411 | 1.411 | 0.81 | 1.101 | 0.501 | 911.92 | 3.791 | 2.193E+05 | 2.193E+05 | 1.00 | 0.1542 | 0.989 | 0.496 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.35 | 120.87 | 3.0182 | 24.70 | 1.44 | 5.83% | 6.642 | 0.95 | 11.32 | 3.15 | 8.63 | 285 | 2.227 | 2.227 | 0.81 | 1.103 | 0.501 | 894.10 | 3.754 | 2.130E+05 | 2.130E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.42 | 119.48 | 3.0224 | 20.60 | 1.27 | 6.17% | 7.225 | 0.98 | 9.17 | 3.25 | 10.03 | 331 | 3.447 | 3.447 | 0.81 | 1.105 | 0.501 | 872.85 | 3.711 | 2.053E+05 | 2.053E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.48 | 118.52 | 3.0259 | 18.94 | 1.15 | 6.07% | 7.226 | 1.00 | 8.29 | 3.29 | 10.56 | 349 | 4.019 | 4.019 | 0.81 | 1.107 | 0.500 | 856.06 | 3.681 | 1.991E+05 | 1.991E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.56 | 118.11 | 3.0307 | 20.65 | 1.05 | 5.08% | 5.959 | 0.97 | 9.17 | 3.20 | 9.22 | 304 | 2.697 | 2.697 | 0.80 | 1.109 | 0.500 | 840.67 | 3.668 | 1.927E+05 | 1.927E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.63 | 117.72 | 3.0348 | 19.62 | 1.01 | 5.15% | 6.090 | 0.98 | 8.62 | 3.23 | 9.62 | 317 | 3.055 | 3.055 | 0.80 | 1.112 | 0.500 | 834.10 | 3.656 | 1.903E+05 | 1.903E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.69 | 118.11 | 3.0383 | 20.70 | 1.05 | 5.07% | 5.945 | 0.97 | 9.18 | 3.20 | 9.20 | 304 | 2.686 | 2.686 | 0.80 | 1.114 | 0.500 | 840.67 | 3.668 | 1.927E+05 | 1.927E+05 | 1.00 | 0.1542 | 0.989 | 0.495 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.74 | 118.66 | 3.0413 | 22.16 | 1.11 | 5.01% | 5.806 | 0.96 | 9.93 | 3.16 | 8.72 | 288 | 2.298 | 2.298 | 0.80 | 1.115 | 0.500 | 850.07 | 3.685 | 1.961E+05 | 1.961E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.83 | 115.27 | 3.0465 | 25.28 | 0.67 | 2.65% | 3.013 | 0.88 | 11.53 | 2.92 | 5.92 | 195 | 0.772 | 0.772 | 0.80 | 1.118 | 0.500 | 764.67 | 3.580 | 1.633E+05 | 1.633E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.87 | 116.67 | 3.0488 | 26.46 | 0.80 | 3.02% | 3.417 | 0.89 | 12.13 | 2.94 | 6.07 | 200 | 0.828 | 0.828 | 0.80 | 1.119 | 0.499 | 794.67 | 3.623 | 1.743E+05 | 1.743E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 45.96 | 118.19 | 3.0541 | 27.82 | 0.96 | 3.45% | 3.876 | 0.89 | 12.82 | 2.95 | 6.23 | 206 | 0.887 | 0.887 | 0.80 | 1.122 | 0.499 | 825.51 | 3.670 | 1.857E+05 | 1.857E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.02 | 118.86 | 3.0577 | 26.94 | 1.07 | 3.97% | 4.480 | 0.91 | 12.35 | 3.01 | 6.83 | 225 | 1.143 | 1.143 | 0.80 | 1.124 | 0.499 | 843.86 | 3.691 | 1.929E+05 | 1.929E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.09 | 119.10 | 3.0619 | 24.50 | 1.14 | 4.65% | 5.318 | 0.94 | 11.07 | 3.10 | 7.88 | 260 | 1.716 | 1.716 | 0.80 | 1.126 | 0.499 | 854.58 | 3.699 | 1.974E+05 | 1.974E+05 | 1.00 | 0.1542 | 0.989 | 0.494 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.16 | 119.11 | 3.0660 | 22.75 | 1.17 | 5.14% | 5.944 | 0.96 | 10.16 | 3.16 | 8.70 | 287 | 2.283 | 2.283 | 0.80 | 1.128 | 0.499 | 858.97 | 3.699 | 1.995E+05 | 1.995E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.20 | 119.20 | 3.0684 | 22.16 | 1.19 | 5.37% | 6.233 | 0.96 | 9.85 | 3.19 | 9.04 | 298 | 2.551 | 2.551 | 0.80 | 1.129 | 0.499 | 861.84 | 3.702 | 2.006E+05 | 2.006E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.30 | 119.19 | 3.0744 | 20.70 | 1.22 | 5.89% | 6.922 | 0.98 | 9.08 | 3.24 | 9.89 | 326 | 3.314 | 3.314 | 0.80 | 1.133 | 0.498 | 866.05 | 3.702 | 2.026E+05 | 2.026E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.34 | 119.18 | 3.0768 | 20.89 | 1.21 | 5.79% | 6.793 | 0.98 | 9.17 | 3.24 | 9.76 | 322 | 3.186 | 3.186 | 0.80 | 1.134 | 0.498 | 864.66 | 3.701 | 2.020E+05 | 2.020E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.43 | 118.84 | 3.0821 | 20.89 | 1.16 | 5.55% | 6.514 | 0.98 | 9.15 | 3.22 | 9.59 | 316 | 3.028 | 3.028 | 0.80 | 1.137 | 0.498 | 857.52 | 3.691 | 1.992E+05 | 1.992E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.46 | 118.67 | 3.0839 | 20.89 | 1.13 | 5.41% | 6.346 | 0.97 | 9.15 | 3.22 | 9.48 | 313 | 2.931 | 2.931 | 0.80 | 1.138 | 0.498 | 853.09 | 3.685 | 1.975E+05 | 1.975E+05 | 1.00 | 0.1542 | 0.989 | 0.493 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.54 | 118.90 | 3.0886 | 21.57 | 1.15 | 5.33% | 6.222 | 0.97 | 9.48 | 3.20 | 9.22 | 304 | 2.700 | 2.700 | 0.80 | 1.140 | 0.498 | 856.06 | 3.693 | 1.985E+05 | 1.985E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.60 | 118.91 | 3.0922 | 21.67 | 1.15 | 5.31% | 6.190 | 0.97 | 9.53 | 3.19 | 9.18 | 303 | 2.664 | 2.664 | 0.80 | 1.142 | 0.497 | 856.06 | 3.693 | 1.984E+05 | 1.984E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.70 | 119.58 | 3.0982 | 22.16 | 1.26 | 5.69% | 6.610 | 0.97 | 9.76 | 3.21 | 9.32 | 308 | 2.790 | 2.790 | 0.80 | 1.145 | 0.497 | 871.51 | 3.714 | 2.045E+05 | 2.045E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.74 | 119.87 | 3.1006 | 22.36 | 1.30 | 5.81% | 6.750 | 0.97 | 9.85 | 3.21 | 9.36 | 309 | 2.823 | 2.823 | 0.80 | 1.146 | 0.497 | 876.80 | 3.723 | 2.065E+05 | 2.065E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.82 | 120.62 | 3.1054 | 24.02 | 1.41 | 5.87% | 6.742 | 0.96 | 10.69 | 3.18 | 8.96 | 296 | 2.482 | 2.482 | 0.79 | 1.149 | 0.497 | 890.54 | 3.746 | 2.117E+05 | 2.117E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.86 | 120.97 | 3.1078 | 24.80 | 1.46 | 5.89% | 6.731 | 0.96 | 11.08 | 3.17 | 8.78 | 290 | 2.341 | 2.341 | 0.79 | 1.150 | 0.497 | 896.43 | 3.757 | 2.139E+05 | 2.139E+05 | 1.00 | 0.1542 | 0.989 | 0.492 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 46.92 | 121.53 | 3.1115 | 26.26 | 1.55 | 5.90% | 6.696 | 0.95 | 11.81 | 3.14 | 8.46 | 279 | 2.102 | 2.102 | 0.79 | 1.152 | 0.497 | 906.55 | 3.774 | 2.177E+05 | 2.177E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.01 | 122.16 | 3.1170 | 27.82 | 1.66 | 5.97% | 6.720 | 0.94 | 12.59 | 3.12 | 8.18 | 270 | 1.911 | 1.911 | 0.79 | 1.155 | 0.496 | 918.15 | 3.794 | 2.222E+05 | 2.222E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.06 | 122.54 | 3.1200 | 28.99 | 1.72 | 5.93% | 6.649 | 0.94 | 13.17 | 3.10 | 7.94 | 262 | 1.753 | 1.753 | 0.79 | 1.156 | 0.496 | 924.15 | 3.806 | 2.244E+05 | 2.244E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.12 | 123.15 | 3.1237 | 30.17 | 1.84 | 6.10% | 6.803 | 0.94 | 13.76 | 3.09 | 7.84 | 259 | 1.690 | 1.690 | 0.79 | 1.158 | 0.496 | 935.56 | 3.825 | 2.289E+05 | 2.289E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | **10.00** | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-5

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA

**Project No.:** 7109.23

| | | | |
|---|---|---|---|
| D (ft): | 1 | Magnitude: | 6.62 |
| Groundwater Level: | 10 feet | Accleration: | 0.606 g's |
| Magnitude Scaling Factor: | 1.38 | Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): | 2 |
| Discrete Column Spacing (ft): | 8.0 | Unit Tributary Area, A (ft²): | 45.83 |
| Discrete Column Shear Modulus, $G_G$ (psf): | 2,030,000 | Discrete Coumn Dia. (ft): | 3.0 |
| Discrete Coumn Cross Sectional Area, $A_{SC}$ (ft²): | 7.07 | $A_R = A_{sc}/A$: | 0.154 |
| Assumed Discrete Column Density (pcf): | 130.00 | Discrete Coumn Intalled Depth (ft): | from 5.0 to 30.0 |

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-sec²)/ft⁴ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47.19 | 123.61 | 3.1280 | 31.63 | 1.93 | 6.10% | 6.771 | 0.93 | 14.48 | 3.07 | 7.60 | 251 | 1.549 | 1.549 | 0.79 | 1.160 | 0.496 | 943.64 | 3.839 |
| 47.27 | 124.16 | 3.1330 | 33.58 | 2.04 | 6.08% | 6.700 | 0.92 | 15.45 | 3.05 | 7.30 | 241 | 1.378 | 1.378 | 0.79 | 1.163 | 0.496 | 953.02 | 3.856 |
| 47.32 | 124.37 | 3.1361 | 34.36 | 2.09 | 6.08% | 6.694 | 0.92 | 15.84 | 3.04 | 7.19 | 237 | 1.325 | 1.325 | 0.79 | 1.164 | 0.495 | 957.11 | 3.862 |
| 47.41 | 124.74 | 3.1417 | 36.22 | 2.16 | 5.96% | 6.530 | 0.91 | 16.75 | 3.01 | 6.88 | 227 | 1.171 | 1.171 | 0.79 | 1.167 | 0.495 | 962.69 | 3.874 |
| 47.45 | 124.86 | 3.1442 | 36.41 | 2.19 | 6.01% | 6.583 | 0.91 | 16.84 | 3.01 | 6.89 | 227 | 1.175 | 1.175 | 0.79 | 1.168 | 0.495 | 965.02 | 3.878 |
| 47.53 | 124.97 | 3.1492 | 36.41 | 2.22 | 6.10% | 6.675 | 0.91 | 16.81 | 3.02 | 6.95 | 229 | 1.201 | 1.201 | 0.79 | 1.171 | 0.495 | 967.32 | 3.881 |
| 47.59 | 124.90 | 3.1530 | 35.83 | 2.21 | 6.17% | 6.763 | 0.92 | 16.50 | 3.03 | 7.07 | 233 | 1.260 | 1.260 | 0.79 | 1.173 | 0.495 | 966.56 | 3.879 |
| 47.65 | 122.40 | 3.1567 | 34.95 | 1.59 | 4.55% | 5.001 | 0.89 | 16.04 | 2.95 | 6.16 | 203 | 0.860 | 0.860 | 0.79 | 1.175 | 0.494 | 910.86 | 3.801 |
| 47.72 | 118.97 | 3.1608 | 34.27 | 1.00 | 2.92% | 3.214 | 0.86 | 15.68 | 2.82 | 4.99 | 165 | 0.495 | 0.495 | 0.79 | 1.177 | 0.494 | 832.41 | 3.695 |
| 47.81 | 121.33 | 3.1663 | 34.66 | 1.37 | 3.95% | 4.350 | 0.88 | 15.85 | 2.91 | 5.77 | 191 | 0.723 | 0.723 | 0.79 | 1.180 | 0.494 | 885.67 | 3.768 |
| 47.84 | 121.46 | 3.1681 | 34.75 | 1.40 | 4.03% | 4.433 | 0.88 | 15.89 | 2.91 | 5.82 | 192 | 0.739 | 0.739 | 0.79 | 1.181 | 0.494 | 889.33 | 3.772 |
| 47.90 | 121.54 | 3.1717 | 34.46 | 1.42 | 4.12% | 4.538 | 0.88 | 15.73 | 2.92 | 5.93 | 196 | 0.776 | 0.776 | 0.79 | 1.182 | 0.494 | 891.73 | 3.775 |
| 47.98 | 121.16 | 3.1766 | 30.07 | 1.41 | 4.69% | 5.243 | 0.91 | 13.50 | 3.02 | 6.97 | 230 | 1.213 | 1.213 | 0.79 | 1.185 | 0.493 | 890.54 | 3.763 |
| 48.04 | 121.29 | 3.1802 | 29.87 | 1.44 | 4.82% | 5.395 | 0.92 | 13.39 | 3.03 | 7.11 | 235 | 1.279 | 1.279 | 0.78 | 1.187 | 0.493 | 894.10 | 3.767 |
| 48.13 | 121.34 | 3.1857 | 28.31 | 1.47 | 5.19% | 5.851 | 0.93 | 12.59 | 3.08 | 7.66 | 253 | 1.579 | 1.579 | 0.78 | 1.190 | 0.493 | 897.59 | 3.768 |
| 48.17 | 121.15 | 3.1881 | 26.36 | 1.47 | 5.58% | 6.344 | 0.95 | 11.60 | 3.13 | 8.32 | 275 | 2.008 | 2.008 | 0.78 | 1.191 | 0.493 | 897.59 | 3.762 |
| 48.25 | 120.67 | 3.1929 | 23.82 | 1.42 | 5.96% | 6.884 | 0.97 | 10.32 | 3.20 | 9.21 | 304 | 2.694 | 2.694 | 0.78 | 1.193 | 0.493 | 891.73 | 3.748 |
| 48.31 | 120.32 | 3.1965 | 22.65 | 1.38 | 6.09% | 7.094 | 0.98 | 9.72 | 3.23 | 9.64 | 318 | 3.073 | 3.073 | 0.78 | 1.195 | 0.492 | 886.90 | 3.737 |
| 48.39 | 120.02 | 3.2014 | 22.55 | 1.33 | 5.90% | 6.874 | 0.97 | 9.66 | 3.22 | 9.54 | 315 | 2.980 | 2.980 | 0.78 | 1.198 | 0.492 | 880.66 | 3.727 |
| 48.44 | 120.29 | 3.2044 | 23.33 | 1.36 | 5.83% | 6.758 | 0.97 | 10.04 | 3.20 | 9.27 | 306 | 2.744 | 2.744 | 0.78 | 1.199 | 0.492 | 884.43 | 3.736 |
| 48.53 | 121.44 | 3.2098 | 27.63 | 1.50 | 5.43% | 6.142 | 0.94 | 12.16 | 3.10 | 7.99 | 264 | 1.782 | 1.782 | 0.78 | 1.202 | 0.492 | 901.00 | 3.771 |
| 48.56 | 121.91 | 3.2117 | 29.58 | 1.57 | 5.31% | 5.954 | 0.93 | 13.13 | 3.07 | 7.54 | 249 | 1.511 | 1.511 | 0.78 | 1.203 | 0.492 | 908.72 | 3.786 |
| 48.65 | 122.92 | 3.2172 | 35.05 | 1.70 | 4.85% | 5.340 | 0.90 | 15.83 | 2.97 | 6.41 | 212 | 0.961 | 0.961 | 0.78 | 1.206 | 0.491 | 922.18 | 3.817 |
| 48.71 | 123.54 | 3.2209 | 39.24 | 1.78 | 4.54% | 4.942 | 0.88 | 17.89 | 2.90 | 5.73 | 189 | 0.708 | 0.708 | 0.78 | 1.208 | 0.491 | 929.95 | 3.837 |
| 48.76 | 124.12 | 3.2240 | 43.73 | 1.86 | 4.25% | 4.592 | 0.86 | 20.11 | 2.84 | 5.13 | 169 | 0.532 | 0.532 | 0.78 | 1.209 | 0.491 | 937.39 | 3.855 |
| 48.84 | 124.66 | 3.2290 | 49.98 | 1.92 | 3.84% | 4.107 | 0.83 | 23.18 | 2.76 | 4.42 | 146 | 0.369 | 0.369 | 0.78 | 1.212 | 0.491 | 942.76 | 3.871 |
| 48.89 | 125.18 | 3.2321 | 59.74 | 1.94 | 3.25% | 3.433 | 0.80 | 27.99 | 2.64 | 3.55 | 117 | 0.229 | 0.229 | 0.78 | 1.213 | 0.491 | 944.51 | 3.888 |
| 48.95 | 125.42 | 3.2359 | 71.75 | 1.89 | 2.63% | 2.759 | 0.76 | 33.91 | 2.50 | 2.77 | 110 | 0.205 | 0.219 | 0.78 | 1.215 | 0.490 | 940.10 | 3.895 |
| 49.02 | 125.64 | 3.2403 | 78.29 | 1.89 | 2.41% | 2.518 | 0.74 | 37.10 | 2.44 | 2.49 | 110 | 0.203 | 0.211 | 0.78 | 1.217 | 0.490 | 940.10 | 3.902 |
| 49.10 | 125.63 | 3.2453 | 77.81 | 1.89 | 2.43% | 2.535 | 0.74 | 36.82 | 2.45 | 2.51 | 110 | 0.203 | 0.211 | 0.78 | 1.220 | 0.490 | 940.10 | 3.902 |
| 49.15 | 125.52 | 3.2484 | 74.19 | 1.89 | 2.55% | 2.664 | 0.75 | 35.00 | 2.48 | 2.66 | 110 | 0.204 | 0.218 | 0.78 | 1.221 | 0.490 | 940.10 | 3.898 |
| 49.24 | 125.53 | 3.2541 | 65.50 | 1.98 | 3.02% | 3.181 | 0.78 | 30.67 | 2.58 | 3.20 | 114 | 0.217 | 0.237 | 0.78 | 1.224 | 0.489 | 947.97 | 3.898 |
| 49.29 | 125.51 | 3.2572 | 61.31 | 2.01 | 3.28% | 3.462 | 0.80 | 28.58 | 2.63 | 3.52 | 116 | 0.225 | 0.225 | 0.77 | 1.226 | 0.489 | 950.51 | 3.898 |
| 49.35 | 125.59 | 3.2610 | 56.91 | 2.09 | 3.67% | 3.896 | 0.82 | 26.39 | 2.69 | 3.95 | 130 | 0.287 | 0.287 | 0.77 | 1.228 | 0.489 | 957.11 | 3.900 |
| 49.42 | 125.58 | 3.2654 | 54.08 | 2.12 | 3.92% | 4.172 | 0.83 | 24.96 | 2.73 | 4.25 | 140 | 0.337 | 0.337 | 0.77 | 1.230 | 0.489 | 959.52 | 3.900 |
| 49.51 | 125.12 | 3.2710 | 54.33 | 1.99 | 3.66% | 3.897 | 0.82 | 25.05 | 2.71 | 4.09 | 135 | 0.308 | 0.308 | 0.77 | 1.233 | 0.489 | 948.82 | 3.886 |
| 49.56 | 124.77 | 3.2741 | 54.33 | 1.90 | 3.50% | 3.721 | 0.82 | 25.03 | 2.70 | 3.98 | 131 | 0.291 | 0.291 | 0.77 | 1.234 | 0.488 | 940.99 | 3.875 |
| 49.63 | 124.34 | 3.2785 | 54.57 | 1.78 | 3.26% | 3.470 | 0.81 | 25.12 | 2.68 | 3.82 | 126 | 0.266 | 0.266 | 0.77 | 1.236 | 0.488 | 929.95 | 3.861 |
| 49.69 | 123.98 | 3.2822 | 57.30 | 1.67 | 2.91% | 3.092 | 0.79 | 26.43 | 2.62 | 3.46 | 114 | 0.219 | 0.219 | 0.77 | 1.238 | 0.488 | 919.16 | 3.850 |
| 49.78 | 122.51 | 3.2877 | 59.35 | 1.35 | 2.27% | 2.408 | 0.77 | 27.39 | 2.53 | 2.95 | 97 | 0.166 | 0.197 | 0.77 | 1.241 | 0.488 | 883.18 | 3.805 |
| 49.83 | 121.68 | 3.2908 | 60.72 | 1.20 | 1.98% | 2.090 | 0.75 | 28.04 | 2.48 | 2.69 | 89 | 0.146 | 0.174 | 0.77 | 1.243 | 0.488 | 863.26 | 3.779 |
| 49.91 | 122.67 | 3.2957 | 62.87 | 1.35 | 2.15% | 2.266 | 0.76 | 29.05 | 2.50 | 2.74 | 94 | 0.157 | 0.184 | 0.77 | 1.245 | 0.487 | 883.18 | 3.810 |
| 49.96 | 122.85 | 3.2987 | 64.63 | 1.38 | 2.14% | 2.250 | 0.75 | 29.89 | 2.48 | 2.68 | 95 | 0.159 | 0.183 | 0.77 | 1.247 | 0.487 | 886.90 | 3.815 |
| 50.01 | 123.16 | 3.3018 | 69.31 | 1.40 | 2.02% | 2.121 | 0.74 | 32.14 | 2.44 | 2.48 | 95 | 0.160 | 0.180 | 0.77 | 1.248 | 0.487 | 889.33 | 3.825 |
| 50.09 | 124.02 | 3.3068 | 70.29 | 1.57 | 2.23% | 2.344 | 0.75 | 32.58 | 2.46 | 2.59 | 100 | 0.174 | 0.191 | 0.77 | 1.251 | 0.487 | 908.72 | 3.852 |
| 50.17 | 125.12 | 3.3118 | 85.52 | 1.71 | 2.00% | 2.080 | 0.71 | 39.94 | 2.36 | 2.14 | 104 | 0.184 | 0.187 | 0.77 | 1.253 | 0.486 | 923.17 | 3.886 |
| 50.21 | 125.28 | 3.3143 | 87.57 | 1.73 | 1.98% | 2.053 | 0.71 | 40.91 | 2.34 | 2.09 | 104 | 0.186 | 0.183 | 0.77 | 1.255 | 0.486 | 925.13 | 3.891 |
| 50.27 | 125.44 | 3.3180 | 89.71 | 1.76 | 1.96% | 2.037 | 0.71 | 41.90 | 2.33 | 2.06 | 105 | 0.188 | 0.186 | 0.77 | 1.256 | 0.486 | 928.04 | 3.896 |
| 50.35 | 125.15 | 3.3231 | 90.50 | 1.68 | 1.86% | 1.927 | 0.70 | 42.23 | 2.31 | 1.99 | 103 | 0.182 | 0.180 | 0.77 | 1.259 | 0.486 | 920.17 | 3.887 |
| 50.40 | 125.08 | 3.3262 | 90.30 | 1.67 | 1.85% | 1.920 | 0.70 | 42.10 | 2.31 | 1.99 | 103 | 0.181 | 0.179 | 0.77 | 1.260 | 0.486 | 919.16 | 3.884 |
| 50.48 | 125.06 | 3.3312 | 88.54 | 1.68 | 1.90% | 1.972 | 0.71 | 41.20 | 2.33 | 2.04 | 103 | 0.181 | 0.179 | 0.77 | 1.263 | 0.485 | 920.17 | 3.884 |
| 50.53 | 124.99 | 3.3343 | 87.27 | 1.67 | 1.91% | 1.990 | 0.71 | 40.55 | 2.34 | 2.07 | 103 | 0.180 | 0.178 | 0.76 | 1.265 | 0.485 | 919.16 | 3.882 |
| 50.62 | 124.76 | 3.3399 | 85.42 | 1.63 | 1.91% | 1.986 | 0.71 | 39.60 | 2.34 | 2.10 | 101 | 0.177 | 0.180 | 0.76 | 1.267 | 0.485 | 915.06 | 3.875 |
| 50.66 | 124.72 | 3.3424 | 83.76 | 1.63 | 1.95% | 2.027 | 0.72 | 38.78 | 2.36 | 2.15 | 101 | 0.177 | 0.180 | 0.76 | 1.269 | 0.485 | 915.06 | 3.873 |
| 50.76 | 124.76 | 3.3487 | 79.95 | 1.66 | 2.08% | 2.167 | 0.73 | 36.88 | 2.40 | 2.29 | 102 | 0.179 | 0.188 | 0.76 | 1.272 | 0.484 | 918.15 | 3.875 |
| 50.80 | 124.72 | 3.3511 | 76.83 | 1.68 | 2.19% | 2.286 | 0.74 | 35.36 | 2.43 | 2.42 | 103 | 0.181 | 0.190 | 0.76 | 1.273 | 0.484 | 920.17 | 3.873 |
| 50.88 | 124.43 | 3.3561 | 72.92 | 1.64 | 2.25% | 2.358 | 0.74 | 33.43 | 2.46 | 2.55 | 102 | 0.178 | 0.192 | 0.76 | 1.275 | 0.484 | 916.10 | 3.864 |
| 50.93 | 123.96 | 3.3592 | 71.46 | 1.55 | 2.17% | 2.276 | 0.74 | 32.71 | 2.45 | 2.54 | 99 | 0.171 | 0.188 | 0.76 | 1.277 | 0.484 | 906.55 | 3.850 |
| 50.99 | 123.00 | 3.3629 | 69.60 | 1.37 | 1.97% | 2.068 | 0.74 | 31.78 | 2.43 | 2.46 | 94 | 0.157 | 0.176 | 0.76 | 1.279 | 0.484 | 885.67 | 3.820 |
| 51.07 | 122.69 | 3.3678 | 68.43 | 1.32 | 1.93% | 2.029 | 0.74 | 31.18 | 2.44 | 2.46 | 92 | 0.153 | 0.172 | 0.76 | 1.281 | 0.483 | 879.38 | 3.810 |
| 51.13 | 122.97 | 3.3715 | 67.65 | 1.38 | 2.04% | 2.147 | 0.75 | 30.78 | 2.46 | 2.56 | 94 | 0.157 | 0.178 | 0.76 | 1.283 | 0.483 | 886.90 | 3.819 |
| 51.20 | 123.25 | 3.3758 | 65.99 | 1.44 | 2.18% | 2.300 | 0.75 | 29.95 | 2.49 | 2.70 | 96 | 0.163 | 0.183 | 0.76 | 1.285 | 0.483 | 894.10 | 3.828 |
| 51.26 | 123.55 | 3.3795 | 62.67 | 1.53 | 2.44% | 2.581 | 0.77 | 28.34 | 2.54 | 2.98 | 99 | 0.171 | 0.197 | 0.76 | 1.287 | 0.483 | 904.35 | 3.837 |
| 51.34 | 124.34 | 3.3845 | 57.60 | 1.75 | 3.04% | 3.228 | 0.80 | 25.88 | 2.64 | 3.59 | 118 | 0.234 | 0.234 | 0.76 | 1.290 | 0.483 | 927.08 | 3.861 |
| 51.38 | 124.68 | 3.3870 | 54.47 | 1.87 | 3.43% | 3.661 | 0.82 | 24.37 | 2.70 | 4.00 | 132 | 0.294 | 0.294 | 0.76 | 1.291 | 0.482 | 938.30 | 3.872 |
| 51.47 | 122.32 | 3.3925 | 47.54 | 1.42 | 2.99% | 3.216 | 0.82 | 21.04 | 2.71 | 4.10 | 135 | 0.310 | 0.310 | 0.76 | 1.294 | 0.482 | 891.73 | 3.799 |
| 51.51 | 118.47 | 3.3949 | 47.83 | 0.84 | 1.76% | 1.890 | 0.78 | 21.16 | 2.56 | 3.09 | 102 | 0.178 | 0.226 | 0.76 | 1.295 | 0.482 | 802.92 | 3.679 |
| 51.59 | 119.98 | 3.3997 | 51.45 | 1.00 | 1.94% | 2.081 | 0.78 | 22.86 | 2.56 | 3.07 | 101 | 0.177 | 0.218 | 0.76 | 1.298 | 0.482 | 832.41 | 3.726 |
| 51.64 | 120.91 | 3.4027 | 56.04 | 1.11 | 1.98% | 2.109 | 0.77 | 25.02 | 2.53 | 2.91 | 96 | 0.162 | 0.197 | 0.76 | 1.299 | 0.482 | 850.07 | 3.755 |
| 51.73 | 121.59 | 3.4082 | 64.92 | 1.16 | 1.79% | 1.886 | 0.74 | 29.21 | 2.44 | 2.47 | 87 | 0.141 | 0.165 | 0.75 | 1.302 | 0.481 | 857.52 | 3.776 |
| 51.78 | 121.83 | 3.4112 | 69.60 | 1.17 | 1.68% | 1.768 | 0.73 | 31.40 | 2.39 | 2.28 | 87 | 0.141 | 0.163 | 0.75 | 1.304 | 0.481 | 858.97 | 3.784 |
| 51.87 | 122.01 | 3.4167 | 75.66 | 1.16 | 1.53% | 1.606 | 0.71 | 34.23 | 2.33 | 2.06 | 87 | 0.140 | 0.155 | 0.75 | 1.306 | 0.481 | 857.52 | 3.789 |
| 51.91 | 122.02 | 3.4191 | 78.78 | 1.15 | 1.46% | 1.526 | 0.70 | 35.69 | 2.30 | 1.96 | 86 | 0.140 | 0.155 | 0.75 | 1.308 | 0.481 | 856.06 | 3.789 |
| 51.99 | 122.24 | 3.4240 | 78.59 | 1.19 | 1.51% | 1.583 | 0.70 | 35.56 | 2.31 | 1.99 | 88 | 0.142 | 0.158 | 0.75 | 1.310 | 0.480 | 861.84 | 3.796 |
| 52.05 | 123.06 | 3.4277 | 75.95 | 1.34 | 1.76% | 1.848 | 0.72 | 34.28 | 2.37 | 2.20 | 92 | 0.153 | 0.169 | 0.75 | 1.312 | 0.480 | 881.92 | 3.822 |
| 52.11 | 124.59 | 3.4315 | 67.07 | 1.72 | 2.56% | 2.703 | 0.77 | 30.05 | 2.53 | 2.94 | 104 | 0.185 | 0.206 | 0.75 | 1.314 | 0.480 | 924.15 | 3.869 |
| 52.19 | 124.14 | 3.4364 | 59.35 | 1.69 | 2.85% | 3.023 | 0.79 | 26.37 | 2.61 | 3.41 | 113 | 0.212 | 0.212 | 0.75 | 1.316 | 0.480 | 921.18 | 3.855 |
| 52.24 | 122.94 | 3.4395 | 53.69 | 1.48 | 2.76% | 2.945 | 0.80 | 23.69 | 2.64 | 3.61 | 119 | 0.237 | 0.237 | 0.75 | 1.318 | 0.479 | 898.73 | 3.818 |
| 52.32 | 122.04 | 3.4444 | 58.62 | 1.27 | 2.17% | 2.302 | 0.77 | 25.98 | 2.54 | 2.96 | 98 | 0.167 | 0.200 | 0.75 | 1.320 | 0.479 | 872.85 | 3.790 |
| 52.40 | 122.40 | 3.4493 | 48.71 | 1.42 | 2.92% | 3.137 | 0.82 | 21.29 | 2.70 | 4.00 | 132 | 0.295 | 0.295 | 0.75 | 1.323 | 0.479 | 891.73 | 3.801 |
| 52.45 | 123.80 | 3.4524 | 57.89 | 1.62 | 2.80% | 2.976 | 0.79 | 25.58 | 2.62 | 3.45 | 114 | 0.217 | 0.217 | 0.75 | 1.324 | 0.479 | 914.02 | 3.845 |
| 52.50 | 124.92 | 3.4555 | 65.99 | 1.81 | 2.74% | 2.894 | 0.78 | 29.37 | 2.56 | 3.10 | 107 | 0.193 | 0.215 | 0.75 | 1.326 | 0.479 | 932.78 | 3.880 |
| 52.58 | 125.61 | 3.4605 | 68.82 | 1.96 | 2.85% | 2.999 | 0.78 | 30.66 | 2.56 | 3.08 | 111 | 0.207 | 0.224 | 0.75 | 1.328 | 0.478 | 946.25 | 3.901 |
| 52.63 | 125.66 | 3.4637 | 68.87 | 1.98 | 2.87% | 3.027 | 0.78 | 30.66 | 2.56 | 3.09 | 111 | 0.208 | 0.226 | 0.75 | 1.330 | 0.478 | 947.97 | 3.902 |
| 52.72 | 125.60 | 3.4693 | 68.92 | 1.96 | 2.84% | 2.995 | 0.78 | 30.64 | 2.56 | 3.07 | 111 | 0.206 | 0.224 | 0.75 | 1.333 | 0.478 | 946.25 | 3.901 |
| 52.76 | 125.79 | 3.4718 | 74.10 | 1.96 | 2.65% | 2.775 | 0.76 | 33.04 | 2.51 | 2.80 | 110 | 0.204 | 0.217 | 0.75 | 1.334 | 0.478 | 946.25 | 3.907 |
| 52.85 | 125.92 | 3.4775 | 79.56 | 1.95 | 2.45% | 2.563 | 0.75 | 35.54 | 2.46 | 2.56 | 109 | 0.202 | 0.209 | 0.75 | 1.337 | 0.477 | 945.38 | 3.911 |
| 52.90 | 126.02 | 3.4806 | 79.56 | 1.98 | 2.49% | 2.603 | 0.75 | 35.52 | 2.46 | 2.58 | 110 | 0.204 | 0.211 | 0.75 | 1.338 | 0.477 | 947.97 | 3.914 |
| 52.99 | 126.11 | 3.4863 | 78.00 | 2.02 | 2.59% | 2.711 | 0.75 | 34.74 | 2.48 | 2.68 | 111 | 0.208 | 0.216 | 0.74 | 1.341 | 0.477 | 951.35 | 3.916 |
| 53.03 | 125.98 | 3.4888 | 76.15 | 2.00 | 2.63% | 2.753 | 0.76 | 33.85 | 2.50 | 2.75 | 111 | 0.207 | 0.214 | 0.74 | 1.343 | 0.477 | 949.67 | 3.912 |
| 53.10 | 125.81 | 3.4932 | 75.85 | 1.95 | 2.57% | 2.695 | 0.76 | 33.68 | 2.49 | 2.72 | 110 | 0.202 | 0.209 | 0.74 | 1.345 | 0.476 | 945.38 | 3.907 |
| 53.16 | 126.04 | 3.4970 | 78.78 | 1.99 | 2.53% | 2.643 | 0.75 | 35.01 | 2.47 | 2.63 | 110 | 0.205 | 0.212 | 0.74 | 1.347 | 0.476 | 948.82 | 3.914 |
| 53.25 | 126.61 | 3.5027 | 86.30 | 2.09 | 2.42% | 2.524 | 0.74 | 38.45 | 2.42 | 2.41 | 113 | 0.213 | 0.208 | 0.74 | 1.349 | 0.476 | 957.11 | 3.932 |
| 53.30 | 126.97 | 3.5059 | 90.89 | 2.16 | 2.38% | 2.472 | 0.73 | 40.55 | 2.40 | 2.31 | 114 | 0.218 | 0.199 | 0.74 | 1.351 | 0.476 | 962.69 | 3.943 |
| 53.37 | 127.35 | 3.5104 | 95.18 | 2.24 | 2.35% | 2.444 | 0.72 | 42.49 | 2.38 | 2.23 | 116 | 0.225 | 0.198 | 0.74 | 1.353 | 0.475 | 968.84 | 3.955 |
| 53.43 | 124.75 | 3.5141 | 98.01 | 1.55 | 1.58% | 1.640 | 0.68 | 43.77 | 2.25 | 1.79 | 99 | 0.169 | 0.296 | 0.74 | 1.355 | 0.475 | 906.55 | 3.874 |
| 53.48 | 123.28 | 3.5172 | 99.77 | 1.26 | 1.26% | 1.309 | 0.66 | 44.55 | 2.17 | 1.60 | 92 | 0.151 | 0.277 | 0.74 | 1.357 | 0.475 | 871.51 | 3.829 |
| 53.56 | 124.45 | 3.5222 | 98.40 | 1.49 | 1.51% | 1.570 | 0.68 | 43.86 | 2.23 | 1.75 | 97 | 0.165 | 0.289 | 0.74 | 1.359 | 0.475 | 899.87 | 3.865 |
| 53.61 | 125.13 | 3.5253 | 96.94 | 1.64 | 1.69% | 1.756 | 0.69 | 43.15 | 2.27 | 1.86 | 101 | 0.175 | 0.166 | 0.74 | 1.361 | 0.475 | 916.10 | 3.886 |
| 53.70 | 125.99 | 3.5310 | 90.11 | 1.89 | 2.10% | 2.183 | 0.72 | 39.94 | 2.37 | 2.18 | 107 | 0.194 | 0.184 | 0.74 | 1.363 | 0.474 | 940.10 | 3.913 |
| 53.75 | 126.30 | 3.5341 | 84.44 | 2.02 | 2.39% | 2.497 | 0.74 | 37.30 | 2.43 | 2.44 | 110 | 0.205 | 0.202 | 0.74 | 1.365 | 0.474 | 951.35 | 3.922 |
| 53.81 | 126.46 | 3.5379 | 77.90 | 2.12 | 2.72% | 2.851 | 0.76 | 34.25 | 2.50 | 2.78 | 114 | 0.216 | 0.219 | 0.74 | 1.367 | 0.474 | 959.52 | 3.927 |
| 53.88 | 126.72 | 3.5423 | 79.46 | 2.18 | 2.74% | 2.872 | 0.76 | 34.93 | 2.50 | 2.75 | 115 | 0.222 | 0.224 | 0.74 | 1.369 | 0.474 | 964.25 | 3.935 |
| 53.97 | 126.69 | 3.5480 | 75.07 | 2.21 | 2.94% | 3.090 | 0.77 | 32.87 | 2.54 | 2.98 | 116 | 0.226 | 0.235 | 0.74 | 1.372 | 0.473 | 966.56 | 3.934 |
| 54.01 | 126.57 | 3.5506 | 75.17 | 2.17 | 2.89% | 3.030 | 0.77 | 32.89 | 2.53 | 2.95 | 115 | 0.222 | 0.231 | 0.74 | 1.373 | 0.473 | 963.47 | 3.931 |
| 54.08 | 126.07 | 3.5550 | 76.44 | 2.02 | 2.64% | 2.771 | 0.76 | 33.44 | 2.50 | 2.77 | 111 | 0.207 | 0.215 | 0.74 | 1.375 | 0.473 | 951.35 | 3.915 |
| 54.15 | 125.28 | 3.5594 | 77.71 | 1.80 | 2.32% | 2.427 | 0.74 | 33.98 | 2.45 | 2.55 | 105 | 0.187 | 0.194 | 0.74 | 1.377 | 0.473 | 931.84 | 3.891 |
| 54.23 | 124.29 | 3.5643 | 74.88 | 1.59 | 2.12% | 2.230 | 0.74 | 32.65 | 2.44 | 2.49 | 99 | 0.169 | 0.186 | 0.73 | 1.380 | 0.472 | 910.86 | 3.860 |
| 54.28 | 124.09 | 3.5674 | 71.36 | 1.58 | 2.21% | 2.331 | 0.75 | 31.01 | 2.47 | 2.64 | 99 | 0.169 | 0.185 | 0.73 | 1.382 | 0.472 | 909.79 | 3.854 |
| 54.35 | 124.14 | 3.5718 | 66.58 | 1.62 | 2.43% | 2.571 | 0.77 | 28.80 | 2.53 | 2.93 | 100 | 0.174 | 0.194 | 0.73 | 1.384 | 0.472 | 914.02 | 3.855 |
| 54.41 | 124.10 | 3.5755 | 61.99 | 1.65 | 2.66% | 2.825 | 0.78 | 26.67 | 2.59 | 3.24 | 107 | 0.194 | 0.222 | 0.73 | 1.386 | 0.472 | 917.13 | 3.854 |
| 54.47 | 123.86 | 3.5792 | 56.04 | 1.66 | 2.96% | 3.164 | 0.81 | 23.94 | 2.66 | 3.71 | 122 | 0.251 | 0.251 | 0.73 | 1.387 | 0.471 | 918.15 | 3.847 |
| 54.53 | 123.79 | 3.5829 | 53.30 | 1.67 | 3.13% | 3.359 | 0.82 | 22.66 | 2.70 | 3.97 | 131 | 0.290 | 0.290 | 0.73 | 1.389 | 0.471 | 919.16 | 3.844 |
| 54.60 | 123.38 | 3.5873 | 50.57 | 1.61 | 3.18% | 3.427 | 0.83 | 21.40 | 2.72 | 4.17 | 138 | 0.323 | 0.323 | 0.73 | 1.392 | 0.471 | 912.97 | 3.832 |
| 54.68 | 122.40 | 3.5922 | 48.62 | 1.42 | 2.92% | 3.154 | 0.82 | 20.48 | 2.71 | 4.10 | 135 | 0.311 | 0.311 | 0.73 | 1.394 | 0.471 | 891.73 | 3.801 |
| 54.73 | 122.12 | 3.5952 | 46.57 | 1.39 | 2.98% | 3.234 | 0.83 | 19.54 | 2.74 | 4.29 | 142 | 0.344 | 0.344 | 0.73 | 1.396 | 0.470 | 888.12 | 3.793 |
| 54.82 | 121.97 | 3.6007 | 42.56 | 1.40 | 3.29% | 3.593 | 0.85 | 17.69 | 2.81 | 4.84 | 160 | 0.459 | 0.459 | 0.73 | 1.398 | 0.470 | 889.33 | 3.788 |
| 54.86 | 121.68 | 3.6031 | 40.03 | 1.38 | 3.45% | 3.788 | 0.86 | 16.53 | 2.85 | 5.20 | 171 | 0.549 | 0.549 | 0.73 | 1.400 | 0.470 | 886.90 | 3.779 |
| 54.95 | 121.79 | 3.6086 | 38.95 | 1.41 | 3.62% | 3.990 | 0.87 | 16.02 | 2.87 | 5.44 | 180 | 0.619 | 0.619 | 0.73 | 1.402 | 0.470 | 890.54 | 3.782 |
| 54.99 | 121.78 | 3.6110 | 39.44 | 1.40 | 3.55% | 3.907 | 0.87 | 16.23 | 2.86 | 5.34 | 176 | 0.589 | 0.589 | 0.73 | 1.404 | 0.469 | 889.33 | 3.782 |
| 55.08 | 121.78 | 3.6165 | 49.01 | 1.30 | 2.65% | 2.864 | 0.81 | 20.54 | 2.68 | 3.88 | 128 | 0.276 | 0.276 | 0.73 | 1.406 | 0.469 | 876.80 | 3.782 |
| 55.13 | 121.72 | 3.6196 | 57.60 | 1.23 | 2.14% | 2.279 | 0.77 | 24.41 | 2.55 | 3.06 | 101 | 0.175 | 0.212 | 0.73 | 1.408 | 0.469 | 867.43 | 3.780 |
| 55.22 | 122.22 | 3.6251 | 71.56 | 1.22 | 1.70% | 1.796 | 0.73 | 30.68 | 2.40 | 2.31 | 87 | 0.142 | 0.159 | 0.73 | 1.411 | 0.469 | 866.05 | 3.796 |
| 55.27 | 123.19 | 3.6282 | 85.22 | 1.31 | 1.54% | 1.606 | 0.70 | 36.82 | 2.30 | 1.95 | 90 | 0.148 | 0.155 | 0.73 | 1.412 | 0.468 | 878.09 | 3.826 |
| 55.35 | 124.27 | 3.6331 | 98.31 | 1.45 | 1.47% | 1.532 | 0.68 | 42.68 | 2.23 | 1.75 | 95 | 0.160 | 0.286 | 0.73 | 1.415 | 0.468 | 895.27 | 3.859 |
| 55.40 | 124.53 | 3.6362 | 100.84 | 1.49 | 1.48% | 1.533 | 0.67 | 43.79 | 2.22 | 1.72 | 97 | 0.164 | 0.292 | 0.73 | 1.416 | 0.468 | 899.87 | 3.867 |
| 55.46 | 124.47 | 3.6400 | 99.96 | 1.48 | 1.48% | 1.537 | 0.68 | 43.36 | 2.23 | 1.73 | 96 | 0.163 | 0.291 | 0.72 | 1.418 | 0.468 | 898.73 | 3.866 |
| 55.52 | 124.38 | 3.6437 | 100.99 | 1.46 | 1.45% | 1.500 | 0.67 | 43.78 | 2.22 | 1.71 | 96 | 0.162 | 0.289 | 0.72 | 1.420 | 0.468 | 896.43 | 3.863 |
| 55.58 | 123.64 | 3.6474 | 99.67 | 1.33 | 1.33% | 1.385 | 0.67 | 43.15 | 2.20 | 1.66 | 92 | 0.153 | 0.286 | 0.72 | 1.422 | 0.467 | 880.66 | 3.840 |
| 55.67 | 123.80 | 3.6530 | 101.14 | 1.35 | 1.33% | 1.385 | 0.67 | 43.75 | 2.19 | 1.65 | 93 | 0.155 | 0.277 | 0.72 | 1.425 | 0.467 | 883.18 | 3.845 |
| 55.76 | 123.72 | 3.6585 | 107.29 | 1.31 | 1.22% | 1.264 | 0.65 | 46.45 | 2.14 | 1.54 | 93 | 0.156 | 0.267 | 0.72 | 1.428 | 0.467 | 878.09 | 3.842 |
| 55.79 | 124.14 | 3.6604 | 112.27 | 1.37 | 1.22% | 1.261 | 0.65 | 48.67 | 2.13 | 1.50 | 96 | 0.162 | 0.266 | 0.72 | 1.429 | 0.467 | 885.67 | 3.855 |
| 55.86 | 124.88 | 3.6648 | 127.59 | 1.45 | 1.14% | 1.170 | 0.62 | 55.47 | 2.06 | 1.38 | 102 | 0.179 | 0.254 | 0.72 | 1.431 | 0.466 | 895.27 | 3.878 |
| 55.92 | 125.21 | 3.6685 | 133.45 | 1.49 | 1.12% | 1.148 | 0.62 | 58.05 | 2.03 | 1.35 | 105 | 0.186 | 0.251 | 0.72 | 1.433 | 0.466 | 899.87 | 3.889 |
| 55.98 | 125.75 | 3.6723 | 145.16 | 1.56 | 1.07% | 1.103 | 0.60 | 63.23 | 1.99 | 1.29 | 110 | 0.204 | 0.241 | 0.72 | 1.435 | 0.466 | 907.64 | 3.905 |
| 56.04 | 126.55 | 3.6761 | 155.71 | 1.70 | 1.09% | 1.118 | 0.60 | 67.88 | 1.97 | 1.26 | 116 | 0.227 | 0.227 | 0.72 | 1.436 | 0.466 | 922.18 | 3.930 |
| 56.11 | 127.24 | 3.6806 | 162.44 | 1.84 | 1.13% | 1.159 | 0.60 | 70.81 | 1.96 | 1.26 | 121 | 0.245 | 0.245 | 0.72 | 1.439 | 0.465 | 935.56 | 3.952 |
| 56.18 | 128.05 | 3.6850 | 165.27 | 2.05 | 1.24% | 1.269 | 0.60 | 72.00 | 1.99 | 1.28 | 125 | 0.262 | 0.262 | 0.72 | 1.441 | 0.465 | 953.84 | 3.977 |
| 56.24 | 128.66 | 3.6889 | 167.32 | 2.21 | 1.32% | 1.351 | 0.61 | 72.85 | 2.00 | 1.30 | 128 | 0.276 | 0.276 | 0.72 | 1.443 | 0.465 | 966.56 | 3.996 |
| 56.32 | 129.30 | 3.6941 | 168.11 | 2.41 | 1.43% | 1.466 | 0.62 | 73.11 | 2.03 | 1.34 | 131 | 0.290 | 0.290 | 0.72 | 1.445 | 0.464 | 981.21 | 4.016 |
| 56.37 | 129.54 | 3.6973 | 168.98 | 2.49 | 1.47% | 1.507 | 0.62 | 73.44 | 2.03 | 1.35 | 133 | 0.297 | 0.297 | 0.72 | 1.447 | 0.464 | 986.74 | 4.023 |
| 56.47 | 129.60 | 3.7038 | 168.79 | 2.51 | 1.49% | 1.520 | 0.62 | 73.24 | 2.04 | 1.35 | 133 | 0.298 | 0.298 | 0.72 | 1.450 | 0.464 | 988.09 | 4.025 |
| 56.50 | 129.56 | 3.7057 | 166.15 | 2.51 | 1.51% | 1.545 | 0.62 | 72.04 | 2.05 | 1.37 | 132 | 0.294 | 0.294 | 0.72 | 1.451 | 0.464 | 988.09 | 4.024 |
| 56.60 | 129.37 | 3.7122 | 153.56 | 2.51 | 1.63% | 1.675 | 0.64 | 66.35 | 2.10 | 1.46 | 128 | 0.275 | 0.275 | 0.72 | 1.454 | 0.463 | 988.09 | 4.018 |
| 56.64 | 129.52 | 3.7148 | 146.34 | 2.61 | 1.78% | 1.830 | 0.65 | 63.12 | 2.15 | 1.55 | 128 | 0.274 | 0.274 | 0.72 | 1.455 | 0.463 | 994.70 | 4.022 |
| 56.73 | 130.27 | 3.7207 | 131.79 | 2.99 | 2.27% | 2.335 | 0.69 | 56.60 | 2.26 | 1.83 | 132 | 0.296 | 0.296 | 0.71 | 1.458 | 0.463 | 1017.69 | 4.046 |
| 56.78 | 130.24 | 3.7239 | 122.52 | 3.05 | 2.49% | 2.567 | 0.70 | 52.46 | 2.32 | 2.01 | 133 | 0.298 | 0.166 | 0.71 | 1.460 | 0.463 | 1021.05 | 4.045 |
| 56.83 | 130.05 | 3.7272 | 109.83 | 3.08 | 2.80% | 2.903 | 0.73 | 46.82 | 2.40 | 2.30 | 133 | 0.300 | 0.199 | 0.71 | 1.461 | 0.462 | 1022.71 | 4.039 |
| 56.91 | 129.13 | 3.7323 | 94.30 | 2.86 | 3.03% | 3.158 | 0.75 | 39.92 | 2.48 | 2.66 | 129 | 0.279 | 0.234 | 0.71 | 1.464 | 0.462 | 1010.17 | 4.010 |
| 56.97 | 128.78 | 3.7362 | 85.32 | 2.82 | 3.31% | 3.457 | 0.77 | 35.93 | 2.54 | 3.00 | 129 | 0.278 | 0.253 | 0.71 | 1.465 | 0.462 | 1007.79 | 3.999 |
| 57.03 | 128.92 | 3.7401 | 92.16 | 2.80 | 3.04% | 3.167 | 0.75 | 38.90 | 2.49 | 2.71 | 128 | 0.273 | 0.239 | 0.71 | 1.467 | 0.462 | 1006.59 | 4.004 |
| 57.09 | 128.80 | 3.7439 | 120.17 | 2.52 | 2.10% | 2.164 | 0.69 | 51.18 | 2.27 | 1.86 | 121 | 0.246 | 0.165 | 0.71 | 1.469 | 0.461 | 988.76 | 4.000 |
| 57.18 | 127.98 | 3.7497 | 170.94 | 2.00 | 1.17% | 1.196 | 0.60 | 73.40 | 1.96 | 1.25 | 126 | 0.266 | 0.266 | 0.71 | 1.472 | 0.461 | 949.67 | 3.975 |
| 57.22 | 128.83 | 3.7523 | 198.27 | 2.14 | 1.08% | 1.100 | 0.57 | 85.35 | 1.88 | 1.17 | 140 | 0.334 | 0.334 | 0.71 | 1.473 | 0.461 | 961.11 | 4.001 |
| 57.30 | 129.76 | 3.7575 | 223.46 | 2.34 | 1.05% | 1.065 | 0.56 | 96.29 | 1.83 | 1.13 | 154 | 0.418 | 0.418 | 0.71 | 1.476 | 0.460 | 976.23 | 4.030 |
| 57.36 | 130.11 | 3.7614 | 233.90 | 2.41 | 1.03% | 1.047 | 0.55 | 100.77 | 1.81 | 1.11 | 160 | 0.458 | 0.458 | 0.71 | 1.478 | 0.460 | 981.21 | 4.041 |
| 57.43 | 130.13 | 3.7659 | 235.95 | 2.42 | 1.03% | 1.042 | 0.55 | 101.56 | 1.80 | 1.11 | 161 | 0.465 | 0.465 | 0.71 | 1.480 | 0.460 | 981.91 | 4.041 |
| 57.49 | 130.12 | 3.7698 | 232.24 | 2.42 | 1.04% | 1.059 | 0.55 | 99.85 | 1.81 | 1.12 | 159 | 0.451 | 0.451 | 0.71 | 1.482 | 0.460 | 981.91 | 4.041 |
| 57.55 | 130.48 | 3.7737 | 247.28 | 2.49 | 1.01% | 1.023 | 0.54 | 106.33 | 1.78 | 1.09 | 167 | 0.511 | 0.511 | 0.71 | 1.484 | 0.459 | 986.74 | 4.052 |
| 57.63 | 130.76 | 3.7790 | 256.36 | 2.56 | 1.00% | 1.014 | 0.54 | 110.16 | 1.76 | 1.08 | 172 | 0.551 | 0.551 | 0.71 | 1.486 | 0.459 | 991.43 | 4.061 |
| 57.72 | 130.91 | 3.7848 | 267.19 | 2.58 | 0.97% | 0.979 | 0.53 | 114.72 | 1.74 | 1.06 | 177 | 0.598 | 0.598 | 0.71 | 1.489 | 0.459 | 992.74 | 4.066 |
| 57.76 | 130.87 | 3.7875 | 275.39 | 2.54 | 0.92% | 0.935 | 0.52 | 118.22 | 1.71 | 1.05 | 181 | 0.630 | 0.630 | 0.71 | 1.490 | 0.459 | 990.10 | 4.064 |
| 57.85 | 130.49 | 3.7933 | 284.18 | 2.38 | 0.84% | 0.849 | 0.51 | 121.89 | 1.67 | 1.02 | 183 | 0.653 | 0.653 | 0.71 | 1.493 | 0.458 | 979.09 | 4.052 |
| 57.88 | 130.47 | 3.7953 | 285.15 | 2.37 | 0.83% | 0.842 | 0.51 | 122.25 | 1.67 | 1.02 | 184 | 0.655 | 0.655 | 0.71 | 1.494 | 0.458 | 978.38 | 4.052 |
| 57.94 | 130.47 | 3.7992 | 285.64 | 2.37 | 0.83% | 0.841 | 0.51 | 122.35 | 1.67 | 1.02 | 184 | 0.657 | 0.657 | 0.70 | 1.496 | 0.458 | 978.38 | 4.052 |
| 58.02 | 130.47 | 3.8044 | 286.72 | 2.37 | 0.83% | 0.838 | 0.51 | 122.68 | 1.67 | 1.01 | 184 | 0.661 | 0.661 | 0.70 | 1.498 | 0.457 | 978.38 | 4.052 |
| 58.07 | 130.54 | 3.8077 | 288.77 | 2.39 | 0.83% | 0.839 | 0.51 | 123.47 | 1.66 | 1.01 | 185 | 0.671 | 0.671 | 0.70 | 1.500 | 0.457 | 979.80 | 4.054 |
| 58.16 | 130.94 | 3.8136 | 291.50 | 2.51 | 0.86% | 0.872 | 0.51 | 124.49 | 1.67 | 1.02 | 188 | 0.695 | 0.695 | 0.70 | 1.503 | 0.457 | 988.09 | 4.066 |
| 58.21 | 131.19 | 3.8169 | 289.94 | 2.60 | 0.90% | 0.909 | 0.51 | 123.72 | 1.69 | 1.03 | 188 | 0.696 | 0.696 | 0.70 | 1.504 | 0.457 | 994.05 | 4.074 |
| 58.27 | 131.50 | 3.8208 | 286.42 | 2.73 | 0.95% | 0.966 | 0.52 | 122.08 | 1.71 | 1.05 | 187 | 0.691 | 0.691 | 0.70 | 1.506 | 0.456 | 1002.30 | 4.084 |
| 58.34 | 131.97 | 3.8254 | 290.23 | 2.90 | 1.00% | 1.013 | 0.53 | 123.60 | 1.72 | 1.05 | 191 | 0.724 | 0.724 | 0.70 | 1.508 | 0.456 | 1012.52 | 4.098 |
| 58.41 | 132.01 | 3.8300 | 285.45 | 2.93 | 1.03% | 1.040 | 0.53 | 121.41 | 1.74 | 1.06 | 188 | 0.702 | 0.702 | 0.70 | 1.510 | 0.456 | 1014.26 | 4.100 |
| 58.48 | 131.94 | 3.8347 | 290.52 | 2.88 | 0.99% | 1.005 | 0.52 | 123.46 | 1.72 | 1.05 | 190 | 0.722 | 0.722 | 0.70 | 1.513 | 0.456 | 1011.35 | 4.098 |
| 58.54 | 131.71 | 3.8386 | 302.73 | 2.76 | 0.91% | 0.923 | 0.51 | 128.60 | 1.68 | 1.02 | 195 | 0.770 | 0.770 | 0.70 | 1.514 | 0.455 | 1004.15 | 4.090 |
| 58.60 | 131.26 | 3.8426 | 311.12 | 2.57 | 0.83% | 0.836 | 0.50 | 132.09 | 1.64 | 1.00 | 198 | 0.797 | 0.797 | 0.70 | 1.516 | 0.455 | 992.09 | 4.076 |
| 58.70 | 130.64 | 3.8491 | 323.13 | 2.33 | 0.72% | 0.730 | 0.50 | 137.05 | 1.59 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.519 | 0.455 | 975.50 | 4.057 |
| 58.74 | 129.34 | 3.8517 | 324.98 | 1.95 | 0.60% | 0.607 | 0.50 | 137.77 | 1.53 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.521 | 0.454 | 945.38 | 4.017 |
| 58.81 | 126.95 | 3.8561 | 331.33 | 1.40 | 0.42% | 0.428 | 0.50 | 140.35 | 1.43 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.523 | 0.454 | 889.33 | 3.943 |
| 58.88 | 125.91 | 3.8605 | 332.01 | 1.21 | 0.36% | 0.369 | 0.50 | 140.51 | 1.39 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.525 | 0.454 | 864.66 | 3.910 |
| 58.93 | 125.75 | 3.8637 | 334.55 | 1.18 | 0.35% | 0.357 | 0.50 | 141.50 | 1.38 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.527 | 0.454 | 860.41 | 3.905 |

| DEPTH (ft) | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 47.19 | 2.320E+05 | 2.320E+05 | 1.00 | 0.1542 | 0.989 | 0.491 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.27 | 2.355E+05 | 2.355E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.32 | 2.372E+05 | 2.372E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.41 | 2.392E+05 | 2.392E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.45 | 2.402E+05 | 2.402E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.53 | 2.411E+05 | 2.411E+05 | 1.00 | 0.1542 | 0.989 | 0.490 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.59 | 2.409E+05 | 2.409E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.65 | 2.183E+05 | 2.183E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.72 | 1.875E+05 | 1.875E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.81 | 2.082E+05 | 2.082E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.84 | 2.097E+05 | 2.097E+05 | 1.00 | 0.1542 | 0.989 | 0.489 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.90 | 2.107E+05 | 2.107E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 47.98 | 2.108E+05 | 2.108E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.04 | 2.122E+05 | 2.122E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.13 | 2.138E+05 | 2.138E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.17 | 2.141E+05 | 2.141E+05 | 1.00 | 0.1542 | 0.989 | 0.488 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.25 | 2.122E+05 | 2.122E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.31 | 2.105E+05 | 2.105E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.39 | 2.081E+05 | 2.081E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.44 | 2.094E+05 | 2.094E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.53 | 2.153E+05 | 2.153E+05 | 1.00 | 0.1542 | 0.989 | 0.487 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.56 | 2.181E+05 | 2.181E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.65 | 2.228E+05 | 2.228E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.71 | 2.254E+05 | 2.254E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.76 | 2.280E+05 | 2.280E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.84 | 2.296E+05 | 2.296E+05 | 1.00 | 0.1542 | 0.989 | 0.486 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.89 | 2.295E+05 | 2.295E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.31 | 0.00 | | |
| 48.95 | 2.269E+05 | 2.269E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.45 | 0.62 | <= | 2.13 | 0.015 | 0.00 | 2.31 | 0.00 | 48.89 | 48.95 |
| 49.02 | 2.265E+05 | 2.265E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.43 | 0.60 | <= | 2.14 | 0.017 | 0.00 | 2.30 | 0.00 | 48.95 | 49.02 |
| 49.10 | 2.265E+05 | 2.265E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.44 | 0.60 | <= | 2.14 | 0.020 | 0.00 | 2.28 | 0.00 | 49.02 | 49.10 |
| 49.15 | 2.267E+05 | 2.267E+05 | 1.00 | 0.1542 | 0.989 | 0.485 | | 0.45 | 0.62 | <= | 2.14 | 0.012 | 0.00 | 2.26 | 0.00 | 49.10 | 49.15 |
| 49.24 | 2.305E+05 | 2.305E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | | 0.49 | 0.67 | <= | 2.08 | 0.022 | 0.00 | 2.25 | 0.00 | 49.15 | 49.24 |
| 49.29 | 2.318E+05 | 2.318E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.23 | 0.00 | | |
| 49.35 | 2.349E+05 | 2.349E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.23 | 0.00 | | |
| 49.42 | 2.361E+05 | 2.361E+05 | 1.00 | 0.1542 | 0.989 | 0.484 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.23 | 0.00 | | |
| 49.51 | 2.317E+05 | 2.317E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.23 | 0.00 | | |
| 49.56 | 2.285E+05 | 2.285E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.23 | 0.00 | | |
| 49.63 | 2.240E+05 | 2.240E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.23 | 0.00 | | |
| 49.69 | 2.194E+05 | 2.194E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 2.23 | 0.00 | | |
| 49.78 | 2.050E+05 | 2.050E+05 | 1.00 | 0.1542 | 0.989 | 0.483 | | 0.41 | 0.56 | <= | 2.36 | 0.025 | 0.00 | 2.23 | 0.00 | 49.69 | 49.78 |
| 49.83 | 1.972E+05 | 1.972E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.36 | 0.50 | <= | 2.53 | 0.015 | 0.00 | 2.20 | 0.00 | 49.78 | 49.83 |
| 49.91 | 2.047E+05 | 2.047E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.38 | 0.52 | <= | 2.42 | 0.023 | 0.00 | 2.19 | 0.00 | 49.83 | 49.91 |
| 49.96 | 2.062E+05 | 2.062E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.38 | 0.52 | <= | 2.41 | 0.014 | 0.00 | 2.16 | 0.00 | 49.91 | 49.96 |
| 50.01 | 2.068E+05 | 2.068E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.37 | 0.51 | <= | 2.40 | 0.014 | 0.00 | 2.15 | 0.00 | 49.96 | 50.01 |
| 50.09 | 2.144E+05 | 2.144E+05 | 1.00 | 0.1542 | 0.989 | 0.482 | | 0.40 | 0.55 | <= | 2.30 | 0.021 | 0.00 | 2.14 | 0.00 | 50.01 | 50.09 |
| 50.17 | 2.193E+05 | 2.193E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | | 0.39 | 0.54 | <= | 2.24 | 0.021 | 0.00 | 2.11 | 0.00 | 50.09 | 50.17 |
| 50.21 | 2.200E+05 | 2.200E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | | 0.38 | 0.52 | <= | 2.23 | 0.010 | 0.00 | 2.09 | 0.00 | 50.17 | 50.21 |
| 50.27 | 2.211E+05 | 2.211E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | | 0.39 | 0.53 | <= | 2.21 | 0.015 | 0.00 | 2.08 | 0.00 | 50.21 | 50.27 |
| 50.35 | 2.179E+05 | 2.179E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | | 0.37 | 0.51 | <= | 2.25 | 0.021 | 0.00 | 2.07 | 0.00 | 50.27 | 50.35 |
| 50.40 | 2.175E+05 | 2.175E+05 | 1.00 | 0.1542 | 0.989 | 0.481 | | 0.37 | 0.51 | <= | 2.26 | 0.013 | 0.00 | 2.05 | 0.00 | 50.35 | 50.40 |
| 50.48 | 2.180E+05 | 2.180E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.37 | 0.51 | <= | 2.25 | 0.021 | 0.00 | 2.03 | 0.00 | 50.40 | 50.48 |
| 50.53 | 2.177E+05 | 2.177E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.37 | 0.51 | <= | 2.26 | 0.013 | 0.00 | 2.01 | 0.00 | 50.48 | 50.53 |
| 50.62 | 2.161E+05 | 2.161E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.38 | 0.52 | <= | 2.28 | 0.024 | 0.00 | 2.00 | 0.00 | 50.53 | 50.62 |
| 50.66 | 2.162E+05 | 2.162E+05 | 1.00 | 0.1542 | 0.989 | 0.480 | | 0.38 | 0.52 | <= | 2.28 | 0.011 | 0.00 | 1.98 | 0.00 | 50.62 | 50.66 |
| 50.76 | 2.176E+05 | 2.176E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.39 | 0.54 | <= | 2.27 | 0.026 | 0.00 | 1.97 | 0.00 | 50.66 | 50.76 |
| 50.80 | 2.186E+05 | 2.186E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.40 | 0.55 | <= | 2.25 | 0.010 | 0.00 | 1.94 | 0.00 | 50.76 | 50.80 |
| 50.88 | 2.172E+05 | 2.172E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.40 | 0.55 | <= | 2.27 | 0.021 | 0.00 | 1.93 | 0.00 | 50.80 | 50.88 |
| 50.93 | 2.135E+05 | 2.135E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.39 | 0.54 | <= | 2.32 | 0.013 | 0.00 | 1.91 | 0.00 | 50.88 | 50.93 |
| 50.99 | 2.053E+05 | 2.053E+05 | 1.00 | 0.1542 | 0.989 | 0.479 | | 0.37 | 0.51 | <= | 2.43 | 0.017 | 0.00 | 1.89 | 0.00 | 50.93 | 50.99 |
| 51.07 | 2.030E+05 | 2.030E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.36 | 0.50 | <= | 2.46 | 0.023 | 0.00 | 1.88 | 0.00 | 50.99 | 51.07 |
| 51.13 | 2.060E+05 | 2.060E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.37 | 0.51 | <= | 2.42 | 0.017 | 0.00 | 1.85 | 0.00 | 51.07 | 51.13 |
| 51.20 | 2.089E+05 | 2.089E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.38 | 0.53 | <= | 2.38 | 0.019 | 0.00 | 1.84 | 0.00 | 51.13 | 51.20 |
| 51.26 | 2.132E+05 | 2.132E+05 | 1.00 | 0.1542 | 0.989 | 0.478 | | 0.41 | 0.57 | <= | 2.32 | 0.016 | 0.00 | 1.82 | 0.00 | 51.20 | 51.26 |
| 51.34 | 2.226E+05 | 2.226E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.80 | 0.00 | | |
| 51.38 | 2.274E+05 | 2.274E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.80 | 0.00 | | |
| 51.47 | 2.093E+05 | 2.093E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.80 | 0.00 | | |
| 51.51 | 1.752E+05 | 1.752E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.47 | 0.65 | <= | 2.27 | 0.011 | 0.00 | 1.80 | 0.00 | 51.47 | 51.51 |
| 51.59 | 1.860E+05 | 1.860E+05 | 1.00 | 0.1542 | 0.989 | 0.477 | | 0.46 | 0.63 | <= | 2.28 | 0.022 | 0.00 | 1.79 | 0.00 | 51.51 | 51.59 |
| 51.64 | 1.924E+05 | 1.924E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.41 | 0.57 | <= | 2.39 | 0.014 | 0.00 | 1.77 | 0.00 | 51.59 | 51.64 |
| 51.73 | 1.947E+05 | 1.947E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.35 | 0.48 | <= | 2.59 | 0.027 | 0.00 | 1.75 | 0.00 | 51.64 | 51.73 |
| 51.78 | 1.950E+05 | 1.950E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.34 | 0.47 | <= | 2.58 | 0.015 | 0.00 | 1.73 | 0.00 | 51.73 | 51.78 |
| 51.87 | 1.941E+05 | 1.941E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.33 | 0.45 | <= | 2.59 | 0.027 | 0.00 | 1.71 | 0.00 | 51.78 | 51.87 |
| 51.91 | 1.934E+05 | 1.934E+05 | 1.00 | 0.1542 | 0.989 | 0.476 | | 0.33 | 0.45 | <= | 2.60 | 0.012 | 0.00 | 1.69 | 0.00 | 51.87 | 51.91 |
| 51.99 | 1.957E+05 | 1.957E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.33 | 0.46 | <= | 2.57 | 0.024 | 0.00 | 1.67 | 0.00 | 51.91 | 51.99 |
| 52.05 | 2.035E+05 | 2.035E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.36 | 0.49 | <= | 2.46 | 0.017 | 0.00 | 1.65 | 0.00 | 51.99 | 52.05 |
| 52.11 | 2.207E+05 | 2.207E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | | 0.43 | 0.60 | <= | 2.23 | 0.016 | 0.00 | 1.63 | 0.00 | 52.05 | 52.11 |
| 52.19 | 2.201E+05 | 2.201E+05 | 1.00 | 0.1542 | 0.989 | 0.475 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.62 | 0.00 | | |
| 52.24 | 2.116E+05 | 2.116E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.62 | 0.00 | | |
| 52.32 | 2.010E+05 | 2.010E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.42 | 0.58 | <= | 2.35 | 0.023 | 0.00 | 1.62 | 0.00 | 52.24 | 52.32 |
| 52.40 | 2.092E+05 | 2.092E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.59 | 0.00 | | |
| 52.45 | 2.173E+05 | 2.173E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.59 | 0.00 | | |
| 52.50 | 2.243E+05 | 2.243E+05 | 1.00 | 0.1542 | 0.989 | 0.474 | | 0.45 | 0.62 | <= | 2.19 | 0.013 | 0.00 | 1.59 | 0.00 | 52.45 | 52.50 |
| 52.58 | 2.295E+05 | 2.295E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.47 | 0.65 | <= | 2.12 | 0.020 | 0.00 | 1.58 | 0.00 | 52.50 | 52.58 |
| 52.63 | 2.303E+05 | 2.303E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.48 | 0.66 | <= | 2.12 | 0.012 | 0.00 | 1.56 | 0.00 | 52.58 | 52.63 |
| 52.72 | 2.296E+05 | 2.296E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.47 | 0.65 | <= | 2.12 | 0.022 | 0.00 | 1.55 | 0.00 | 52.63 | 52.72 |
| 52.76 | 2.292E+05 | 2.292E+05 | 1.00 | 0.1542 | 0.989 | 0.473 | | 0.46 | 0.63 | <= | 2.13 | 0.010 | 0.00 | 1.53 | 0.00 | 52.72 | 52.76 |
| 52.85 | 2.285E+05 | 2.285E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.44 | 0.61 | <= | 2.15 | 0.022 | 0.00 | 1.52 | 0.00 | 52.76 | 52.85 |
| 52.90 | 2.296E+05 | 2.296E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.45 | 0.62 | <= | 2.13 | 0.012 | 0.00 | 1.50 | 0.00 | 52.85 | 52.90 |
| 52.99 | 2.311E+05 | 2.311E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.46 | 0.63 | <= | 2.12 | 0.022 | 0.00 | 1.48 | 0.00 | 52.90 | 52.99 |
| 53.03 | 2.305E+05 | 2.305E+05 | 1.00 | 0.1542 | 0.989 | 0.472 | | 0.45 | 0.63 | <= | 2.12 | 0.010 | 0.00 | 1.46 | 0.00 | 52.99 | 53.03 |
| 53.10 | 2.287E+05 | 2.287E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.44 | 0.61 | <= | 2.14 | 0.017 | 0.00 | 1.45 | 0.00 | 53.03 | 53.10 |
| 53.16 | 2.300E+05 | 2.300E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.45 | 0.62 | <= | 2.13 | 0.015 | 0.00 | 1.43 | 0.00 | 53.10 | 53.16 |
| 53.25 | 2.330E+05 | 2.330E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.44 | 0.61 | <= | 2.10 | 0.022 | 0.00 | 1.42 | 0.00 | 53.16 | 53.25 |
| 53.30 | 2.350E+05 | 2.350E+05 | 1.00 | 0.1542 | 0.989 | 0.471 | | 0.42 | 0.58 | <= | 2.07 | 0.012 | 0.00 | 1.40 | 0.00 | 53.25 | 53.30 |
| 53.37 | 2.373E+05 | 2.373E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.42 | 0.58 | <= | 2.05 | 0.017 | 0.00 | 1.38 | 0.00 | 53.30 | 53.37 |
| 53.43 | 2.121E+05 | 2.121E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.63 | 0.87 | <= | 2.08 | 0.015 | 0.00 | 1.37 | 0.00 | 53.37 | 53.43 |
| 53.48 | 1.984E+05 | 1.984E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.59 | 0.81 | <= | 1.83 | 0.011 | 0.00 | 1.35 | 0.00 | 53.43 | 53.48 |
| 53.56 | 2.095E+05 | 2.095E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.62 | 0.85 | <= | 1.97 | 0.019 | 0.00 | 1.34 | 0.00 | 53.48 | 53.56 |
| 53.61 | 2.160E+05 | 2.160E+05 | 1.00 | 0.1542 | 0.989 | 0.470 | | 0.35 | 0.49 | <= | 2.29 | 0.013 | 0.00 | 1.32 | 0.00 | 53.56 | 53.61 |
| 53.70 | 2.259E+05 | 2.259E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.39 | 0.54 | <= | 2.19 | 0.023 | 0.00 | 1.31 | 0.00 | 53.61 | 53.70 |
| 53.75 | 2.307E+05 | 2.307E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.43 | 0.59 | <= | 2.13 | 0.012 | 0.00 | 1.29 | 0.00 | 53.70 | 53.75 |
| 53.81 | 2.344E+05 | 2.344E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.47 | 0.64 | <= | 2.08 | 0.014 | 0.00 | 1.27 | 0.00 | 53.75 | 53.81 |
| 53.88 | 2.363E+05 | 2.363E+05 | 1.00 | 0.1542 | 0.989 | 0.469 | | 0.48 | 0.66 | <= | 2.06 | 0.017 | 0.00 | 1.26 | 0.00 | 53.81 | 53.88 |
| 53.97 | 2.374E+05 | 2.374E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.50 | 0.69 | <= | 2.04 | 0.021 | 0.00 | 1.24 | 0.00 | 53.88 | 53.97 |
| 54.01 | 2.362E+05 | 2.362E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.49 | 0.68 | <= | 2.06 | 0.010 | 0.00 | 1.22 | 0.00 | 53.97 | 54.01 |
| 54.08 | 2.312E+05 | 2.312E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.46 | 0.63 | <= | 2.12 | 0.017 | 0.00 | 1.21 | 0.00 | 54.01 | 54.08 |
| 54.15 | 2.232E+05 | 2.232E+05 | 1.00 | 0.1542 | 0.989 | 0.468 | | 0.42 | 0.57 | <= | 2.22 | 0.018 | 0.00 | 1.20 | 0.00 | 54.08 | 54.15 |
| 54.23 | 2.149E+05 | 2.149E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.40 | 0.55 | <= | 2.33 | 0.022 | 0.00 | 1.18 | 0.00 | 54.15 | 54.23 |
| 54.28 | 2.148E+05 | 2.148E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.40 | 0.55 | <= | 2.33 | 0.014 | 0.00 | 1.16 | 0.00 | 54.23 | 54.28 |
| 54.35 | 2.167E+05 | 2.167E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.42 | 0.57 | <= | 2.30 | 0.019 | 0.00 | 1.14 | 0.00 | 54.28 | 54.35 |
| 54.41 | 2.182E+05 | 2.182E+05 | 1.00 | 0.1542 | 0.989 | 0.467 | | 0.48 | 0.65 | <= | 2.18 | 0.016 | 0.00 | 1.12 | 0.00 | 54.35 | 54.41 |
| 54.47 | 2.192E+05 | 2.192E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.11 | 0.00 | | |
| 54.53 | 2.198E+05 | 2.198E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.11 | 0.00 | | |
| 54.60 | 2.175E+05 | 2.175E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.11 | 0.00 | | |
| 54.68 | 2.092E+05 | 2.092E+05 | 1.00 | 0.1542 | 0.989 | 0.466 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.11 | 0.00 | | |
| 54.73 | 2.080E+05 | 2.080E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.11 | 0.00 | | |
| 54.82 | 2.088E+05 | 2.088E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.11 | 0.00 | | |
| 54.86 | 2.082E+05 | 2.082E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.11 | 0.00 | | |
| 54.95 | 2.097E+05 | 2.097E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.11 | 0.00 | | |
| 54.99 | 2.091E+05 | 2.091E+05 | 1.00 | 0.1542 | 0.989 | 0.465 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.11 | 0.00 | | |
| 55.08 | 2.033E+05 | 2.033E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 1.11 | 0.00 | | |
| 55.13 | 1.991E+05 | 1.991E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 0.46 | 0.63 | <= | 2.29 | 0.014 | 0.00 | 1.11 | 0.00 | 55.08 | 55.13 |
| 55.22 | 1.976E+05 | 1.976E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 0.34 | 0.47 | <= | 2.58 | 0.027 | 0.00 | 1.09 | 0.00 | 55.13 | 55.22 |
| 55.27 | 2.015E+05 | 2.015E+05 | 1.00 | 0.1542 | 0.989 | 0.464 | | 0.34 | 0.46 | <= | 2.51 | 0.015 | 0.00 | 1.07 | 0.00 | 55.22 | 55.27 |
| 55.35 | 2.077E+05 | 2.077E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 0.62 | 0.85 | <= | 2.40 | 0.022 | 0.00 | 1.05 | 0.00 | 55.27 | 55.35 |
| 55.40 | 2.094E+05 | 2.094E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 0.63 | 0.87 | <= | 2.14 | 0.013 | 0.00 | 1.03 | 0.00 | 55.35 | 55.40 |
| 55.46 | 2.090E+05 | 2.090E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 0.63 | 0.86 | <= | 2.11 | 0.015 | 0.00 | 1.02 | 0.00 | 55.40 | 55.46 |
| 55.52 | 2.080E+05 | 2.080E+05 | 1.00 | 0.1542 | 0.989 | 0.463 | | 0.62 | 0.86 | <= | 2.09 | 0.015 | 0.00 | 1.00 | 0.00 | 55.46 | 55.52 |
| 55.58 | 2.020E+05 | 2.020E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 0.62 | 0.85 | <= | 2.09 | 0.015 | 0.00 | 0.99 | 0.00 | 55.52 | 55.58 |
| 55.67 | 2.029E+05 | 2.029E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 0.60 | 0.83 | <= | 1.90 | 0.021 | 0.00 | 0.97 | 0.00 | 55.58 | 55.67 |
| 55.76 | 2.007E+05 | 2.007E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 0.58 | 0.80 | <= | 2.44 | 0.026 | 0.00 | 0.95 | 0.00 | 55.67 | 55.76 |
| 55.79 | 2.035E+05 | 2.035E+05 | 1.00 | 0.1542 | 0.989 | 0.462 | | 0.58 | 0.79 | <= | 2.39 | 0.008 | 0.00 | 0.93 | 0.00 | 55.76 | 55.79 |
| 55.86 | 2.067E+05 | 2.067E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 0.55 | 0.76 | <= | 2.27 | 0.018 | 0.00 | 0.92 | 0.00 | 55.79 | 55.86 |
| 55.92 | 2.082E+05 | 2.082E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 0.54 | 0.75 | <= | 2.22 | 0.015 | 0.00 | 0.90 | 0.00 | 55.86 | 55.92 |
| 55.98 | 2.109E+05 | 2.109E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 0.52 | 0.72 | <= | 1.84 | 0.013 | 0.00 | 0.88 | 0.00 | 55.92 | 55.98 |
| 56.04 | 2.164E+05 | 2.164E+05 | 1.00 | 0.1542 | 0.989 | 0.461 | | 0.49 | 0.68 | <= | 2.04 | 0.011 | 0.00 | 0.87 | 0.00 | 55.98 | 56.04 |
| 56.11 | 2.215E+05 | 2.215E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 0.53 | 0.73 | <= | 1.69 | 0.014 | 0.00 | 0.86 | 0.00 | 56.04 | 56.11 |
| 56.18 | 2.288E+05 | 2.288E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 0.57 | 0.78 | <= | 1.85 | 0.009 | 0.00 | 0.84 | 0.00 | 56.11 | 56.18 |
| 56.24 | 2.338E+05 | 2.338E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 0.60 | 0.83 | <= | 1.16 | 0.008 | 0.00 | 0.84 | 0.00 | 56.18 | 56.24 |
| 56.32 | 2.398E+05 | 2.398E+05 | 1.00 | 0.1542 | 0.989 | 0.460 | | 0.63 | 0.87 | <= | 1.27 | 0.007 | 0.00 | 0.83 | 0.00 | 56.24 | 56.32 |
| 56.37 | 2.420E+05 | 2.420E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 0.65 | 0.89 | <= | 1.32 | 0.005 | 0.00 | 0.82 | 0.00 | 56.32 | 56.37 |
| 56.47 | 2.426E+05 | 2.426E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 0.65 | 0.89 | <= | 1.32 | 0.009 | 0.00 | 0.82 | 0.00 | 56.37 | 56.47 |
| 56.50 | 2.426E+05 | 2.426E+05 | 1.00 | 0.1542 | 0.989 | 0.459 | | 0.64 | 0.88 | <= | 1.29 | 0.003 | 0.00 | 0.81 | 0.00 | 56.47 | 56.50 |
| 56.60 | 2.430E+05 | 2.430E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 0.60 | 0.83 | <= | 1.16 | 0.014 | 0.00 | 0.80 | 0.00 | 56.50 | 56.60 |
| 56.64 | 2.460E+05 | 2.460E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 0.60 | 0.82 | <= | 1.15 | 0.006 | 0.00 | 0.79 | 0.00 | 56.60 | 56.64 |
| 56.73 | 2.560E+05 | 2.560E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 0.65 | 0.89 | <= | 1.75 | 0.008 | 0.00 | 0.78 | 0.00 | 56.64 | 56.73 |
| 56.78 | 2.578E+05 | 2.578E+05 | 1.00 | 0.1542 | 0.989 | 0.458 | | 0.36 | 0.50 | <= | 1.83 | 0.005 | 0.00 | 0.78 | 0.00 | 56.73 | 56.78 |
| 56.83 | 2.590E+05 | 2.590E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 0.44 | 0.60 | <= | 1.83 | 0.005 | 0.00 | 0.77 | 0.00 | 56.78 | 56.83 |
| 56.91 | 2.545E+05 | 2.545E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 0.51 | 0.70 | <= | 1.88 | 0.017 | 0.00 | 0.77 | 0.00 | 56.83 | 56.91 |
| 56.97 | 2.539E+05 | 2.539E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 0.55 | 0.76 | <= | 1.88 | 0.013 | 0.00 | 0.75 | 0.00 | 56.91 | 56.97 |
| 57.03 | 2.531E+05 | 2.531E+05 | 1.00 | 0.1542 | 0.989 | 0.457 | | 0.52 | 0.72 | <= | 1.90 | 0.013 | 0.00 | 0.74 | 0.00 | 56.97 | 57.03 |
| 57.09 | 2.444E+05 | 2.444E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 0.36 | 0.50 | <= | 1.97 | 0.014 | 0.00 | 0.72 | 0.00 | 57.03 | 57.09 |
| 57.18 | 2.269E+05 | 2.269E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 0.58 | 0.80 | <= | 1.10 | 0.012 | 0.00 | 0.71 | 0.00 | 57.09 | 57.18 |
| 57.22 | 2.309E+05 | 2.309E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 0.73 | 1.01 | <= | 0.46 | 0.001 | 0.00 | 0.70 | 0.00 | 57.18 | 57.22 |
| 57.30 | 2.365E+05 | 2.365E+05 | 1.00 | 0.1542 | 0.989 | 0.456 | | 0.92 | 1.26 | <= | 0.26 | 0.000 | 0.00 | 0.70 | 0.00 | 57.22 | 57.30 |
| 57.36 | 2.383E+05 | 2.383E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.00 | 1.38 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 57.43 | 2.386E+05 | 2.386E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.02 | 1.41 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 57.49 | 2.386E+05 | 2.386E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 0.99 | 1.37 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 57.55 | 2.403E+05 | 2.403E+05 | 1.00 | 0.1542 | 0.989 | 0.455 | | 1.12 | 1.55 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 57.63 | 2.420E+05 | 2.420E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.21 | 1.67 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 57.72 | 2.424E+05 | 2.424E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.32 | 1.81 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 57.76 | 2.412E+05 | 2.412E+05 | 1.00 | 0.1542 | 0.989 | 0.454 | | 1.39 | 1.91 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 57.85 | 2.366E+05 | 2.366E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.44 | 1.98 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 57.88 | 2.362E+05 | 2.362E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.45 | 1.99 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 57.94 | 2.362E+05 | 2.362E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.45 | 2.00 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.02 | 2.362E+05 | 2.362E+05 | 1.00 | 0.1542 | 0.989 | 0.453 | | 1.46 | 2.01 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.07 | 2.368E+05 | 2.368E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.48 | 2.04 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.16 | 2.401E+05 | 2.401E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.54 | 2.12 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.21 | 2.425E+05 | 2.425E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.54 | 2.12 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.27 | 2.460E+05 | 2.460E+05 | 1.00 | 0.1542 | 0.989 | 0.452 | | 1.53 | 2.11 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.34 | 2.501E+05 | 2.501E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 1.60 | 2.21 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.41 | 2.509E+05 | 2.509E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 1.56 | 2.14 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.48 | 2.496E+05 | 2.496E+05 | 1.00 | 0.1542 | 0.989 | 0.451 | | 1.60 | 2.20 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.54 | 2.465E+05 | 2.465E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.71 | 2.35 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.60 | 2.414E+05 | 2.414E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.77 | 2.44 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.70 | 2.346E+05 | 2.346E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.83 | 2.52 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.74 | 2.225E+05 | 2.225E+05 | 1.00 | 0.1542 | 0.989 | 0.450 | | 1.83 | 2.52 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.81 | 2.006E+05 | 2.006E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 1.83 | 2.52 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.88 | 1.912E+05 | 1.912E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 1.83 | 2.52 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 58.93 | 1.896E+05 | 1.896E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |

## LIQUEFACTION ANALYSIS INCL. DISCRETE COLUMNS WITH CPT DATA

**TEST LOCATION:** CPT-5

**Project Name:** Public Safety Facility Feasibility Study, NEC Arcasia Pkwy & S. Euclid St., Garden Grove, CA
**Project No.:** 7109.23

Discrete Column Pattern (1 = Square, 2 = Equilateral Triangular): 2
Discrete Column Spacing (ft): 8.0 Unit Tributary Area, A ($ft^2$): 45.83 Discrete Column Shear Modulus, $G_G$ (psf): 2,030,000

D (ft): 1 Magnitude: 6.62 Magnitude Scaling Factor: 1.38 Discrete Coumn Dia. (ft): 3.0 Discrete Coumn Cross Sectional Area, $A_{SC}$ ($ft^2$): 7.07 $A_R = A_{sc}/A$: 0.154 Assumed Discrete Column Density (pcf): 130.00

Groundwater Level: 10 feet Accleration: 0.606 g's Discrete Coumn Intalled Depth (ft): from 5.0 to 30.0

| DEPTH (ft) | UNIT WEIGHT (pcf) | TOTAL OVERBURDEN PRESSURE (tsf) | CPT (tsf) | SLEEVE FRICTION, fs (tsf) | FRICTION RATIO | F (%) | N (Sand 0.5) (Clay 1.0) | Q | Ic Input | Kc | (Qcin)cs | Pre-CRR @7.5 | Post-CRR @7.5 [a] | rd | PORE PRESSURE (tsf) | CSR | Vs [b] (ft/sec) | ρ (lb-$sec^2$)/$ft^4$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.00 | 125.68 | 3.8681 | 337.09 | 1.17 | 0.35% | 0.351 | 0.50 | 142.45 | 1.37 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.529 | 0.453 | 858.97 | 3.903 |
| 59.06 | 125.86 | 3.8718 | 340.41 | 1.19 | 0.35% | 0.354 | 0.50 | 143.75 | 1.37 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.531 | 0.453 | 861.84 | 3.909 |
| 59.13 | 126.29 | 3.8763 | 342.12 | 1.26 | 0.37% | 0.373 | 0.50 | 144.34 | 1.38 | 1.00 | 200 | 0.824 | 0.824 | 0.70 | 1.533 | 0.453 | 871.51 | 3.922 |
| 59.21 | 127.58 | 3.8814 | 344.31 | 1.50 | 0.44% | 0.441 | 0.50 | 145.11 | 1.42 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.535 | 0.453 | 901.00 | 3.962 |
| 59.26 | 128.04 | 3.8846 | 343.83 | 1.60 | 0.47% | 0.471 | 0.50 | 144.80 | 1.44 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.537 | 0.452 | 911.92 | 3.976 |
| 59.34 | 128.52 | 3.8897 | 346.07 | 1.70 | 0.49% | 0.497 | 0.50 | 145.59 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.539 | 0.452 | 922.18 | 3.991 |
| 59.38 | 128.65 | 3.8923 | 346.46 | 1.74 | 0.50% | 0.508 | 0.50 | 145.67 | 1.46 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.541 | 0.452 | 926.11 | 3.995 |
| 59.48 | 128.83 | 3.8987 | 346.56 | 1.78 | 0.51% | 0.519 | 0.50 | 145.51 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.544 | 0.451 | 929.95 | 4.001 |
| 59.53 | 128.70 | 3.9019 | 346.56 | 1.75 | 0.50% | 0.511 | 0.50 | 145.40 | 1.46 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.545 | 0.451 | 927.08 | 3.997 |
| 59.58 | 128.54 | 3.9052 | 346.27 | 1.71 | 0.49% | 0.499 | 0.50 | 145.18 | 1.46 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.547 | 0.451 | 923.17 | 3.992 |
| 59.66 | 128.59 | 3.9103 | 348.61 | 1.72 | 0.49% | 0.499 | 0.50 | 146.00 | 1.45 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.549 | 0.451 | 924.15 | 3.993 |
| 59.75 | 127.82 | 3.9160 | 353.59 | 1.54 | 0.44% | 0.440 | 0.50 | 147.93 | 1.42 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.552 | 0.450 | 905.45 | 3.970 |
| 59.80 | 126.84 | 3.9192 | 353.39 | 1.35 | 0.38% | 0.386 | 0.50 | 147.74 | 1.38 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.554 | 0.450 | 883.18 | 3.939 |
| 59.84 | 126.78 | 3.9218 | 353.73 | 1.34 | 0.38% | 0.383 | 0.50 | 147.80 | 1.38 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.555 | 0.450 | 881.92 | 3.937 |
| 59.93 | 127.46 | 3.9275 | 353.88 | 1.46 | 0.41% | 0.417 | 0.50 | 147.68 | 1.40 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.558 | 0.450 | 896.43 | 3.958 |
| 59.98 | 127.96 | 3.9307 | 354.95 | 1.57 | 0.44% | 0.447 | 0.50 | 148.03 | 1.42 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.559 | 0.449 | 908.72 | 3.974 |
| 60.06 | 128.76 | 3.9358 | 356.42 | 1.74 | 0.49% | 0.494 | 0.50 | 148.48 | 1.44 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.562 | 0.449 | 926.11 | 3.999 |
| 60.15 | 129.15 | 3.9417 | 349.19 | 1.85 | 0.53% | 0.536 | 0.50 | 145.25 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.565 | 0.449 | 936.48 | 4.011 |
| 60.20 | 129.32 | 3.9449 | 353.78 | 1.89 | 0.53% | 0.540 | 0.50 | 147.07 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.566 | 0.448 | 940.10 | 4.016 |
| 60.24 | 129.39 | 3.9475 | 352.61 | 1.91 | 0.54% | 0.548 | 0.50 | 146.50 | 1.48 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.567 | 0.448 | 941.88 | 4.018 |
| 60.33 | 129.26 | 3.9533 | 346.85 | 1.89 | 0.54% | 0.551 | 0.50 | 143.89 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.570 | 0.448 | 940.10 | 4.014 |
| 60.37 | 129.06 | 3.9559 | 334.55 | 1.86 | 0.56% | 0.563 | 0.50 | 138.65 | 1.50 | 1.00 | 200 | 0.824 | 0.824 | 0.69 | 1.572 | 0.448 | 937.39 | 4.008 |
| 60.46 | 128.62 | 3.9617 | 332.50 | 1.75 | 0.53% | 0.533 | 0.50 | 137.62 | 1.49 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.574 | 0.447 | 927.08 | 3.994 |
| 60.51 | 128.23 | 3.9649 | 336.41 | 1.66 | 0.49% | 0.499 | 0.50 | 139.16 | 1.47 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.576 | 0.447 | 918.15 | 3.982 |
| 60.58 | 127.02 | 3.9693 | 337.67 | 1.40 | 0.41% | 0.420 | 0.50 | 139.55 | 1.42 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.578 | 0.447 | 889.33 | 3.945 |
| 60.64 | 125.07 | 3.9731 | 336.11 | 1.08 | 0.32% | 0.325 | 0.50 | 138.79 | 1.36 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.580 | 0.447 | 845.43 | 3.884 |
| 60.71 | 125.06 | 3.9774 | 332.11 | 1.08 | 0.33% | 0.329 | 0.50 | 136.99 | 1.37 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.582 | 0.446 | 845.43 | 3.884 |
| 60.78 | 125.00 | 3.9818 | 322.35 | 1.08 | 0.34% | 0.339 | 0.50 | 132.79 | 1.39 | 1.00 | 200 | 0.824 | 0.824 | 0.68 | 1.584 | 0.446 | 845.43 | 3.882 |
| 60.87 | 125.12 | 3.9874 | 291.79 | 1.13 | 0.39% | 0.393 | 0.50 | 119.90 | 1.46 | 1.00 | 182 | 0.642 | 0.642 | 0.68 | 1.587 | 0.446 | 853.09 | 3.886 |
| 60.91 | 125.10 | 3.9899 | 255.48 | 1.18 | 0.46% | 0.469 | 0.50 | 104.72 | 1.55 | 1.00 | 159 | 0.455 | 0.455 | 0.68 | 1.588 | 0.445 | 860.41 | 3.885 |
| 60.97 | 124.79 | 3.9937 | 188.12 | 1.25 | 0.66% | 0.679 | 0.54 | 76.61 | 1.77 | 1.08 | 122 | 0.249 | 0.249 | 0.68 | 1.590 | 0.445 | 870.16 | 3.875 |
| 61.03 | 125.81 | 3.9975 | 167.91 | 1.50 | 0.89% | 0.915 | 0.58 | 68.15 | 1.90 | 1.18 | 115 | 0.222 | 0.222 | 0.68 | 1.592 | 0.445 | 901.00 | 3.907 |
| 61.12 | 126.63 | 4.0032 | 130.03 | 1.83 | 1.41% | 1.452 | 0.65 | 52.33 | 2.13 | 1.51 | 107 | 0.193 | 0.252 | 0.68 | 1.595 | 0.445 | 934.64 | 3.933 |
| 61.18 | 127.50 | 4.0070 | 109.04 | 2.18 | 2.00% | 2.076 | 0.70 | 43.58 | 2.31 | 1.97 | 111 | 0.206 | 0.166 | 0.68 | 1.597 | 0.444 | 964.25 | 3.960 |
| 61.24 | 127.86 | 4.0108 | 87.27 | 2.47 | 2.83% | 2.967 | 0.76 | 34.52 | 2.50 | 2.78 | 118 | 0.231 | 0.219 | 0.68 | 1.599 | 0.444 | 985.37 | 3.971 |
| 61.31 | 127.90 | 4.0153 | 69.02 | 2.68 | 3.88% | 4.123 | 0.82 | 26.92 | 2.69 | 3.95 | 131 | 0.287 | 0.287 | 0.68 | 1.601 | 0.444 | 999.18 | 3.972 |
| 61.36 | 127.55 | 4.0185 | 57.69 | 2.71 | 4.70% | 5.049 | 0.86 | 22.21 | 2.83 | 5.01 | 165 | 0.500 | 0.500 | 0.68 | 1.602 | 0.444 | 1001.06 | 3.961 |
| 61.45 | 126.94 | 4.0242 | 51.45 | 2.59 | 5.03% | 5.461 | 0.88 | 19.61 | 2.89 | 5.64 | 186 | 0.681 | 0.681 | 0.68 | 1.605 | 0.443 | 993.40 | 3.942 |
| 61.49 | 126.74 | 4.0267 | 48.52 | 2.57 | 5.30% | 5.776 | 0.89 | 18.38 | 2.93 | 6.05 | 200 | 0.819 | 0.819 | 0.68 | 1.606 | 0.443 | 992.09 | 3.936 |
| 61.58 | 126.67 | 4.0324 | 44.32 | 2.63 | 5.93% | 6.528 | 0.91 | 16.63 | 3.01 | 6.84 | 226 | 1.151 | 1.151 | 0.68 | 1.609 | 0.443 | 995.99 | 3.934 |
| 61.63 | 126.60 | 4.0356 | 41.10 | 2.67 | 6.50% | 7.204 | 0.93 | 15.29 | 3.07 | 7.55 | 249 | 1.519 | 1.519 | 0.67 | 1.611 | 0.442 | 998.54 | 3.932 |
| 61.72 | 127.24 | 4.0413 | 45.69 | 2.81 | 6.15% | 6.747 | 0.91 | 17.16 | 3.01 | 6.84 | 226 | 1.149 | 1.149 | 0.67 | 1.614 | 0.442 | 1007.19 | 3.952 |
| 61.75 | 127.49 | 4.0432 | 50.08 | 2.82 | 5.63% | 6.126 | 0.89 | 18.96 | 2.94 | 6.13 | 202 | 0.850 | 0.850 | 0.67 | 1.615 | 0.442 | 1007.79 | 3.959 |
| 61.83 | 126.19 | 4.0483 | 68.14 | 2.13 | 3.13% | 3.323 | 0.80 | 26.36 | 2.63 | 3.53 | 117 | 0.227 | 0.227 | 0.67 | 1.617 | 0.442 | 960.32 | 3.919 |
| 61.89 | 124.35 | 4.0520 | 91.96 | 1.50 | 1.63% | 1.706 | 0.70 | 36.13 | 2.31 | 2.00 | 93 | 0.155 | 0.156 | 0.67 | 1.619 | 0.441 | 901.00 | 3.862 |
| 61.98 | 125.03 | 4.0576 | 136.77 | 1.44 | 1.05% | 1.085 | 0.62 | 54.48 | 2.03 | 1.34 | 101 | 0.176 | 0.246 | 0.67 | 1.622 | 0.441 | 894.10 | 3.883 |
| 62.03 | 125.32 | 4.0608 | 174.94 | 1.38 | 0.79% | 0.808 | 0.56 | 70.11 | 1.85 | 1.14 | 116 | 0.226 | 0.226 | 0.67 | 1.623 | 0.441 | 886.90 | 3.892 |
| 62.09 | 125.10 | 4.0645 | 212.23 | 1.26 | 0.59% | 0.605 | 0.51 | 85.34 | 1.69 | 1.03 | 133 | 0.299 | 0.299 | 0.67 | 1.625 | 0.440 | 871.51 | 3.885 |
| 62.14 | 124.16 | 4.0676 | 234.68 | 1.07 | 0.46% | 0.464 | 0.50 | 94.48 | 1.58 | 1.00 | 145 | 0.362 | 0.362 | 0.67 | 1.627 | 0.440 | 843.86 | 3.856 |
| 62.21 | 123.14 | 4.0719 | 242.69 | 0.92 | 0.38% | 0.386 | 0.50 | 97.67 | 1.53 | 1.00 | 150 | 0.392 | 0.392 | 0.67 | 1.629 | 0.440 | 818.31 | 3.824 |
| 62.29 | 123.22 | 4.0769 | 251.87 | 0.92 | 0.37% | 0.371 | 0.50 | 101.33 | 1.50 | 1.00 | 155 | 0.429 | 0.429 | 0.67 | 1.631 | 0.440 | 818.31 | 3.827 |
| 62.34 | 123.35 | 4.0800 | 252.35 | 0.94 | 0.37% | 0.379 | 0.50 | 101.46 | 1.51 | 1.00 | 156 | 0.431 | 0.431 | 0.67 | 1.633 | 0.439 | 821.95 | 3.831 |
| 62.42 | 123.65 | 4.0849 | 250.60 | 0.98 | 0.39% | 0.398 | 0.50 | 100.64 | 1.52 | 1.00 | 154 | 0.423 | 0.423 | 0.67 | 1.636 | 0.439 | 829.00 | 3.840 |
| 62.47 | 123.63 | 4.0880 | 248.06 | 0.98 | 0.40% | 0.402 | 0.50 | 99.54 | 1.53 | 1.00 | 153 | 0.412 | 0.412 | 0.67 | 1.637 | 0.439 | 829.00 | 3.839 |
| 62.56 | 123.50 | 4.0935 | 238.98 | 0.97 | 0.41% | 0.413 | 0.50 | 95.73 | 1.55 | 1.00 | 147 | 0.376 | 0.376 | 0.67 | 1.640 | 0.438 | 827.26 | 3.835 |
| 62.60 | 123.43 | 4.0960 | 232.73 | 0.97 | 0.42% | 0.424 | 0.50 | 93.13 | 1.56 | 1.00 | 143 | 0.352 | 0.352 | 0.67 | 1.641 | 0.438 | 827.26 | 3.833 |
| 62.67 | 123.18 | 4.1003 | 225.12 | 0.95 | 0.42% | 0.430 | 0.50 | 89.95 | 1.58 | 1.00 | 138 | 0.326 | 0.326 | 0.67 | 1.643 | 0.438 | 823.74 | 3.825 |
| 62.75 | 122.91 | 4.1052 | 212.62 | 0.93 | 0.44% | 0.446 | 0.50 | 84.78 | 1.61 | 1.00 | 130 | 0.286 | 0.286 | 0.67 | 1.646 | 0.438 | 820.14 | 3.817 |
| 62.81 | 122.87 | 4.1089 | 203.93 | 0.94 | 0.46% | 0.470 | 0.50 | 81.19 | 1.64 | 1.00 | 125 | 0.261 | 0.261 | 0.67 | 1.648 | 0.437 | 821.95 | 3.816 |
| 62.88 | 123.07 | 4.1132 | 193.39 | 0.98 | 0.51% | 0.518 | 0.51 | 76.84 | 1.68 | 1.03 | 120 | 0.241 | 0.243 | 0.66 | 1.650 | 0.437 | 829.00 | 3.822 |
| 62.96 | 124.31 | 4.1182 | 176.70 | 1.20 | 0.68% | 0.695 | 0.55 | 69.99 | 1.80 | 1.11 | 115 | 0.220 | 0.222 | 0.66 | 1.652 | 0.437 | 863.26 | 3.861 |
| 63.01 | 124.68 | 4.1213 | 164.98 | 1.29 | 0.78% | 0.802 | 0.57 | 65.19 | 1.87 | 1.16 | 110 | 0.203 | 0.225 | 0.66 | 1.654 | 0.437 | 875.49 | 3.872 |
| 63.10 | 125.27 | 4.1270 | 147.60 | 1.45 | 0.98% | 1.011 | 0.60 | 58.08 | 1.98 | 1.28 | 105 | 0.186 | 0.237 | 0.66 | 1.657 | 0.436 | 895.27 | 3.890 |
| 63.14 | 125.60 | 4.1295 | 142.63 | 1.54 | 1.08% | 1.112 | 0.61 | 56.04 | 2.02 | 1.33 | 104 | 0.185 | 0.235 | 0.66 | 1.658 | 0.436 | 905.45 | 3.901 |
| 63.23 | 126.25 | 4.1352 | 129.94 | 1.73 | 1.33% | 1.375 | 0.64 | 50.84 | 2.12 | 1.50 | 103 | 0.183 | 0.247 | 0.66 | 1.661 | 0.436 | 925.13 | 3.921 |
| 63.27 | 126.75 | 4.1377 | 126.62 | 1.87 | 1.48% | 1.527 | 0.66 | 49.47 | 2.16 | 1.58 | 105 | 0.189 | 0.255 | 0.66 | 1.662 | 0.436 | 938.30 | 3.936 |
| 63.32 | 127.28 | 4.1409 | 121.15 | 2.04 | 1.68% | 1.743 | 0.67 | 47.23 | 2.22 | 1.72 | 108 | 0.197 | 0.266 | 0.66 | 1.664 | 0.435 | 953.02 | 3.953 |
| 63.39 | 127.32 | 4.1453 | 117.83 | 2.07 | 1.76% | 1.821 | 0.68 | 45.85 | 2.25 | 1.79 | 108 | 0.197 | 0.148 | 0.66 | 1.666 | 0.435 | 955.49 | 3.954 |
| 63.45 | 126.90 | 4.1491 | 117.34 | 1.96 | 1.67% | 1.732 | 0.68 | 45.61 | 2.23 | 1.75 | 106 | 0.189 | 0.150 | 0.66 | 1.668 | 0.435 | 946.25 | 3.941 |
| 63.55 | 125.90 | 4.1554 | 114.41 | 1.72 | 1.50% | 1.560 | 0.67 | 44.37 | 2.21 | 1.69 | 100 | 0.173 | 0.259 | 0.66 | 1.671 | 0.434 | 924.15 | 3.910 |
| 63.59 | 125.72 | 4.1579 | 112.27 | 1.69 | 1.51% | 1.563 | 0.67 | 43.49 | 2.22 | 1.71 | 99 | 0.170 | 0.147 | 0.66 | 1.672 | 0.434 | 921.18 | 3.904 |
| 63.68 | 124.54 | 4.1636 | 104.75 | 1.48 | 1.41% | 1.471 | 0.68 | 40.42 | 2.23 | 1.73 | 93 | 0.155 | 0.144 | 0.66 | 1.675 | 0.434 | 898.73 | 3.868 |
| 63.72 | 124.36 | 4.1660 | 101.82 | 1.45 | 1.42% | 1.485 | 0.68 | 39.22 | 2.24 | 1.77 | 92 | 0.152 | 0.146 | 0.66 | 1.676 | 0.434 | 895.27 | 3.862 |
| 63.82 | 125.54 | 4.1723 | 90.89 | 1.77 | 1.95% | 2.041 | 0.72 | 34.78 | 2.38 | 2.23 | 99 | 0.170 | 0.169 | 0.66 | 1.679 | 0.433 | 929.00 | 3.899 |
| 63.86 | 125.59 | 4.1748 | 86.30 | 1.82 | 2.11% | 2.216 | 0.74 | 32.92 | 2.43 | 2.42 | 100 | 0.174 | 0.177 | 0.66 | 1.680 | 0.433 | 933.71 | 3.900 |
| 63.95 | 125.84 | 4.1805 | 86.25 | 1.88 | 2.18% | 2.291 | 0.74 | 32.86 | 2.44 | 2.46 | 102 | 0.178 | 0.182 | 0.66 | 1.683 | 0.433 | 939.20 | 3.908 |
| 63.99 | 125.61 | 4.1830 | 86.25 | 1.82 | 2.11% | 2.218 | 0.74 | 32.85 | 2.43 | 2.42 | 100 | 0.174 | 0.177 | 0.66 | 1.684 | 0.432 | 933.71 | 3.901 |
| 64.05 | 125.25 | 4.1868 | 86.20 | 1.73 | 2.01% | 2.109 | 0.73 | 32.80 | 2.41 | 2.36 | 98 | 0.167 | 0.171 | 0.66 | 1.686 | 0.432 | 925.13 | 3.890 |
| 64.11 | 124.86 | 4.1905 | 91.96 | 1.61 | 1.75% | 1.834 | 0.71 | 35.08 | 2.34 | 2.10 | 95 | 0.159 | 0.158 | 0.65 | 1.688 | 0.432 | 912.97 | 3.878 |
| 64.18 | 124.79 | 4.1949 | 89.62 | 1.61 | 1.80% | 1.885 | 0.72 | 34.11 | 2.36 | 2.17 | 95 | 0.159 | 0.163 | 0.65 | 1.690 | 0.432 | 912.97 | 3.875 |
| 64.26 | 124.82 | 4.1999 | 80.64 | 1.67 | 2.07% | 2.185 | 0.74 | 30.49 | 2.45 | 2.52 | 96 | 0.163 | 0.175 | 0.65 | 1.693 | 0.431 | 919.16 | 3.876 |
| 64.31 | 124.97 | 4.2030 | 75.27 | 1.74 | 2.31% | 2.448 | 0.76 | 28.33 | 2.51 | 2.82 | 99 | 0.169 | 0.185 | 0.65 | 1.694 | 0.431 | 926.11 | 3.881 |
| 64.40 | 125.04 | 4.2086 | 63.36 | 1.87 | 2.95% | 3.161 | 0.80 | 23.55 | 2.66 | 3.68 | 122 | 0.247 | 0.247 | 0.65 | 1.697 | 0.431 | 938.30 | 3.883 |
| 64.44 | 124.98 | 4.2111 | 58.38 | 1.90 | 3.25% | 3.508 | 0.82 | 21.56 | 2.72 | 4.14 | 137 | 0.317 | 0.317 | 0.65 | 1.699 | 0.430 | 940.99 | 3.881 |
| 64.51 | 124.38 | 4.2155 | 51.15 | 1.83 | 3.58% | 3.899 | 0.85 | 18.66 | 2.80 | 4.82 | 159 | 0.455 | 0.455 | 0.65 | 1.701 | 0.430 | 934.64 | 3.863 |
| 64.58 | 123.37 | 4.2198 | 51.25 | 1.60 | 3.12% | 3.402 | 0.84 | 18.69 | 2.76 | 4.47 | 148 | 0.379 | 0.379 | 0.65 | 1.703 | 0.430 | 911.92 | 3.831 |
| 64.66 | 121.70 | 4.2247 | 51.25 | 1.27 | 2.48% | 2.701 | 0.82 | 18.67 | 2.69 | 3.95 | 130 | 0.286 | 0.286 | 0.65 | 1.705 | 0.430 | 872.85 | 3.780 |
| 64.71 | 121.30 | 4.2277 | 51.35 | 1.20 | 2.34% | 2.547 | 0.81 | 18.69 | 2.68 | 3.83 | 126 | 0.267 | 0.267 | 0.65 | 1.707 | 0.429 | 863.26 | 3.767 |
| 64.77 | 122.13 | 4.2314 | 59.35 | 1.28 | 2.16% | 2.322 | 0.79 | 21.85 | 2.59 | 3.27 | 108 | 0.197 | 0.197 | 0.65 | 1.709 | 0.429 | 874.17 | 3.793 |
| 64.84 | 122.56 | 4.2356 | 58.77 | 1.36 | 2.31% | 2.494 | 0.79 | 21.60 | 2.62 | 3.42 | 113 | 0.214 | 0.214 | 0.65 | 1.711 | 0.429 | 884.43 | 3.806 |
| 64.90 | 122.19 | 4.2393 | 50.67 | 1.36 | 2.68% | 2.929 | 0.83 | 18.38 | 2.72 | 4.17 | 138 | 0.322 | 0.322 | 0.65 | 1.713 | 0.429 | 884.43 | 3.795 |
| 64.97 | 121.87 | 4.2436 | 42.66 | 1.38 | 3.23% | 3.592 | 0.86 | 15.19 | 2.86 | 5.27 | 174 | 0.570 | 0.570 | 0.65 | 1.715 | 0.428 | 886.90 | 3.785 |
| 65.07 | 121.79 | 4.2497 | 36.02 | 1.44 | 4.00% | 4.533 | 0.91 | 12.55 | 3.00 | 6.70 | 221 | 1.084 | 1.084 | 0.65 | 1.718 | 0.428 | 894.10 | 3.782 |
| 65.11 | 122.15 | 4.2521 | 33.48 | 1.55 | 4.63% | 5.303 | 0.93 | 11.54 | 3.07 | 7.61 | 251 | 1.550 | 1.550 | 0.65 | 1.719 | 0.428 | 906.55 | 3.793 |
| 65.20 | 122.88 | 4.2576 | 35.92 | 1.68 | 4.68% | 5.306 | 0.92 | 12.49 | 3.05 | 7.26 | 240 | 1.359 | 1.359 | 0.65 | 1.722 | 0.427 | 920.17 | 3.816 |
| 65.24 | 122.64 | 4.2601 | 32.02 | 1.69 | 5.28% | 6.088 | 0.95 | 10.94 | 3.14 | 8.38 | 276 | 2.045 | 2.045 | 0.65 | 1.723 | 0.427 | 921.18 | 3.809 |
| 65.29 | 122.80 | 4.2632 | 35.83 | 1.66 | 4.63% | 5.259 | 0.92 | 12.44 | 3.04 | 7.24 | 239 | 1.351 | 1.351 | 0.65 | 1.725 | 0.427 | 918.15 | 3.814 |
| 65.37 | 123.12 | 4.2681 | 46.86 | 1.59 | 3.39% | 3.733 | 0.86 | 16.76 | 2.83 | 5.04 | 166 | 0.509 | 0.509 | 0.64 | 1.728 | 0.426 | 910.86 | 3.824 |
| 65.42 | 124.91 | 4.2712 | 68.04 | 1.79 | 2.63% | 2.807 | 0.79 | 25.09 | 2.60 | 3.30 | 109 | 0.200 | 0.200 | 0.64 | 1.729 | 0.426 | 930.90 | 3.879 |
| 65.51 | 127.65 | 4.2770 | 110.02 | 2.22 | 2.02% | 2.099 | 0.70 | 41.55 | 2.32 | 2.02 | 109 | 0.202 | 0.164 | 0.64 | 1.732 | 0.426 | 967.32 | 3.964 |
| 65.56 | 128.14 | 4.2802 | 112.07 | 2.36 | 2.11% | 2.189 | 0.71 | 42.33 | 2.33 | 2.05 | 113 | 0.213 | 0.164 | 0.64 | 1.733 | 0.426 | 977.67 | 3.980 |
| 65.64 | 129.07 | 4.2853 | 155.22 | 2.40 | 1.55% | 1.590 | 0.64 | 59.21 | 2.11 | 1.47 | 120 | 0.241 | 0.241 | 0.64 | 1.736 | 0.425 | 980.51 | 4.008 |
| 65.69 | 129.50 | 4.2886 | 173.57 | 2.45 | 1.41% | 1.447 | 0.62 | 66.36 | 2.04 | 1.35 | 126 | 0.268 | 0.268 | 0.64 | 1.738 | 0.425 | 984.00 | 4.022 |
| 65.77 | 130.17 | 4.2938 | 184.70 | 2.63 | 1.42% | 1.458 | 0.61 | 70.64 | 2.02 | 1.33 | 132 | 0.296 | 0.296 | 0.64 | 1.740 | 0.425 | 995.99 | 4.043 |
| 65.81 | 130.68 | 4.2964 | 194.76 | 2.77 | 1.42% | 1.454 | 0.61 | 74.54 | 2.00 | 1.30 | 138 | 0.323 | 0.323 | 0.64 | 1.741 | 0.425 | 1004.76 | 4.058 |
| 65.90 | 131.87 | 4.3023 | 210.08 | 3.18 | 1.51% | 1.545 | 0.61 | 80.44 | 1.99 | 1.29 | 148 | 0.382 | 0.382 | 0.64 | 1.744 | 0.424 | 1028.11 | 4.095 |
| 65.95 | 132.61 | 4.3056 | 219.94 | 3.47 | 1.58% | 1.609 | 0.61 | 84.23 | 1.99 | 1.29 | 155 | 0.426 | 0.426 | 0.64 | 1.746 | 0.424 | 1042.88 | 4.118 |
| 66.03 | 133.62 | 4.3110 | 234.20 | 3.90 | 1.67% | 1.696 | 0.60 | 89.70 | 1.99 | 1.29 | 165 | 0.496 | 0.496 | 0.64 | 1.748 | 0.423 | 1062.64 | 4.150 |
| 66.08 | 134.21 | 4.3143 | 246.50 | 4.15 | 1.68% | 1.714 | 0.60 | 94.43 | 1.98 | 1.27 | 172 | 0.553 | 0.553 | 0.64 | 1.750 | 0.423 | 1073.15 | 4.168 |
| 66.16 | 134.91 | 4.3197 | 266.41 | 4.46 | 1.67% | 1.702 | 0.59 | 102.08 | 1.95 | 1.24 | 183 | 0.647 | 0.647 | 0.64 | 1.752 | 0.423 | 1085.34 | 4.190 |
| 66.22 | 135.37 | 4.3238 | 275.69 | 4.69 | 1.70% | 1.728 | 0.59 | 105.60 | 1.94 | 1.23 | 188 | 0.703 | 0.703 | 0.64 | 1.754 | 0.423 | 1093.84 | 4.204 |
| 66.29 | 135.81 | 4.3285 | 274.61 | 4.99 | 1.82% | 1.846 | 0.60 | 105.07 | 1.97 | 1.26 | 191 | 0.724 | 0.724 | 0.64 | 1.756 | 0.422 | 1104.33 | 4.218 |
| 66.35 | 136.34 | 4.3326 | 274.71 | 5.36 | 1.95% | 1.982 | 0.61 | 105.02 | 1.99 | 1.29 | 194 | 0.758 | 0.758 | 0.64 | 1.758 | 0.422 | 1116.43 | 4.234 |
| 66.41 | 136.10 | 4.3367 | 274.81 | 5.19 | 1.89% | 1.919 | 0.60 | 104.97 | 1.98 | 1.28 | 192 | 0.741 | 0.741 | 0.64 | 1.760 | 0.422 | 1110.98 | 4.227 |
| 66.48 | 133.65 | 4.3414 | 286.62 | 3.66 | 1.28% | 1.297 | 0.56 | 109.44 | 1.83 | 1.13 | 185 | 0.668 | 0.668 | 0.64 | 1.762 | 0.421 | 1051.89 | 4.151 |
| 66.57 | 134.14 | 4.3474 | 312.98 | 3.80 | 1.21% | 1.231 | 0.54 | 119.51 | 1.79 | 1.10 | 198 | 0.806 | 0.806 | 0.63 | 1.765 | 0.421 | 1058.24 | 4.166 |
| 66.62 | 134.31 | 4.3508 | 331.43 | 3.82 | 1.15% | 1.168 | 0.53 | 126.57 | 1.75 | 1.07 | 207 | 0.909 | 0.909 | 0.63 | 1.767 | 0.421 | 1059.13 | 4.171 |
| 66.67 | 134.35 | 4.3541 | 340.51 | 3.80 | 1.12% | 1.130 | 0.53 | 129.99 | 1.73 | 1.06 | 211 | 0.958 | 0.958 | 0.63 | 1.768 | 0.420 | 1058.24 | 4.172 |
| 66.74 | 134.09 | 4.3588 | 323.91 | 3.73 | 1.15% | 1.167 | 0.53 | 123.45 | 1.76 | 1.08 | 203 | 0.857 | 0.857 | 0.63 | 1.770 | 0.420 | 1055.10 | 4.164 |
| 66.81 | 134.30 | 4.3635 | 368.23 | 3.68 | 1.00% | 1.011 | 0.51 | 140.43 | 1.66 | 1.01 | 203 | 0.855 | 0.855 | 0.63 | 1.772 | 0.420 | 1052.82 | 4.171 |
| 66.88 | 134.32 | 4.3682 | 372.04 | 3.68 | 0.99% | 1.001 | 0.51 | 141.76 | 1.66 | 1.01 | 202 | 0.844 | 0.844 | 0.63 | 1.775 | 0.419 | 1052.82 | 4.171 |
| 66.94 | 134.36 | 4.3723 | 373.80 | 3.69 | 0.99% | 0.999 | 0.50 | 142.32 | 1.66 | 1.01 | 201 | 0.841 | 0.841 | 0.63 | 1.777 | 0.419 | 1053.28 | 4.173 |
| 67.01 | 134.37 | 4.3770 | 372.04 | 3.70 | 0.99% | 1.006 | 0.51 | 141.50 | 1.66 | 1.01 | 202 | 0.848 | 0.848 | 0.63 | 1.779 | 0.419 | 1053.73 | 4.173 |
| 67.06 | 134.35 | 4.3803 | 367.45 | 3.71 | 1.01% | 1.022 | 0.51 | 139.64 | 1.67 | 1.02 | 203 | 0.863 | 0.863 | 0.63 | 1.780 | 0.419 | 1054.19 | 4.172 |
| 67.15 | 134.06 | 4.3864 | 356.91 | 3.60 | 1.01% | 1.021 | 0.51 | 135.42 | 1.68 | 1.02 | 205 | 0.878 | 0.878 | 0.63 | 1.783 | 0.418 | 1049.10 | 4.163 |
| 67.20 | 133.79 | 4.3897 | 344.61 | 3.51 | 1.02% | 1.032 | 0.52 | 130.60 | 1.69 | 1.03 | 207 | 0.902 | 0.902 | 0.63 | 1.785 | 0.418 | 1044.82 | 4.155 |
| 67.28 | 132.22 | 4.3950 | 330.16 | 2.87 | 0.87% | 0.881 | 0.50 | 124.92 | 1.66 | 1.01 | 198 | 0.806 | 0.806 | 0.63 | 1.787 | 0.418 | 1010.76 | 4.106 |
| 67.32 | 130.53 | 4.3976 | 321.27 | 2.30 | 0.72% | 0.726 | 0.50 | 121.44 | 1.60 | 1.00 | 192 | 0.742 | 0.742 | 0.63 | 1.788 | 0.417 | 973.31 | 4.054 |
| 67.42 | 129.26 | 4.4041 | 305.85 | 1.96 | 0.64% | 0.650 | 0.50 | 115.38 | 1.59 | 1.00 | 183 | 0.649 | 0.649 | 0.63 | 1.792 | 0.417 | 946.25 | 4.014 |
| 67.47 | 128.82 | 4.4073 | 298.14 | 1.87 | 0.63% | 0.637 | 0.50 | 112.36 | 1.59 | 1.00 | 178 | 0.606 | 0.606 | 0.63 | 1.793 | 0.417 | 938.30 | 4.001 |
| 67.55 | 128.14 | 4.4124 | 285.25 | 1.73 | 0.61% | 0.616 | 0.50 | 107.32 | 1.60 | 1.00 | 170 | 0.539 | 0.539 | 0.63 | 1.796 | 0.416 | 925.13 | 3.980 |
| 67.60 | 127.88 | 4.4156 | 275.20 | 1.69 | 0.61% | 0.624 | 0.50 | 103.41 | 1.61 | 1.00 | 164 | 0.491 | 0.491 | 0.63 | 1.797 | 0.416 | 921.18 | 3.971 |
| 67.68 | 127.62 | 4.4207 | 247.86 | 1.69 | 0.68% | 0.694 | 0.51 | 92.88 | 1.68 | 1.03 | 150 | 0.391 | 0.391 | 0.63 | 1.800 | 0.416 | 921.18 | 3.963 |
| 67.73 | 127.52 | 4.4239 | 237.51 | 1.69 | 0.71% | 0.725 | 0.52 | 88.87 | 1.71 | 1.05 | 145 | 0.362 | 0.362 | 0.63 | 1.801 | 0.416 | 921.18 | 3.960 |
| 67.80 | 127.43 | 4.4284 | 209.59 | 1.74 | 0.83% | 0.848 | 0.55 | 78.16 | 1.81 | 1.11 | 132 | 0.293 | 0.293 | 0.62 | 1.803 | 0.415 | 926.11 | 3.957 |
| 67.87 | 128.24 | 4.4329 | 186.07 | 2.02 | 1.09% | 1.112 | 0.59 | 69.13 | 1.94 | 1.22 | 124 | 0.257 | 0.257 | 0.62 | 1.806 | 0.415 | 951.35 | 3.983 |
| 67.93 | 128.51 | 4.4367 | 145.07 | 2.27 | 1.56% | 1.614 | 0.65 | 53.49 | 2.15 | 1.54 | 114 | 0.218 | 0.218 | 0.62 | 1.807 | 0.415 | 971.09 | 3.991 |
| 67.98 | 128.44 | 4.4399 | 117.05 | 2.42 | 2.07% | 2.149 | 0.70 | 42.80 | 2.32 | 2.00 | 113 | 0.214 | 0.154 | 0.62 | 1.809 | 0.414 | 981.91 | 3.989 |
| 68.05 | 128.19 | 4.4444 | 86.69 | 2.59 | 2.99% | 3.149 | 0.77 | 31.23 | 2.55 | 3.03 | 117 | 0.229 | 0.220 | 0.62 | 1.811 | 0.414 | 993.40 | 3.981 |
| 68.12 | 127.87 | 4.4489 | 73.80 | 2.61 | 3.54% | 3.763 | 0.81 | 26.31 | 2.67 | 3.76 | 124 | 0.258 | 0.258 | 0.62 | 1.813 | 0.414 | 994.70 | 3.971 |
| 68.18 | 127.55 | 4.4527 | 66.77 | 2.58 | 3.86% | 4.140 | 0.83 | 23.63 | 2.74 | 4.26 | 141 | 0.339 | 0.339 | 0.62 | 1.815 | 0.413 | 992.74 | 3.961 |
| 68.25 | 126.97 | 4.4572 | 56.33 | 2.52 | 4.47% | 4.858 | 0.86 | 19.65 | 2.85 | 5.25 | 173 | 0.562 | 0.562 | 0.62 | 1.817 | 0.413 | 988.76 | 3.943 |
| 68.31 | 126.65 | 4.4610 | 53.89 | 2.45 | 4.55% | 4.957 | 0.87 | 18.71 | 2.88 | 5.47 | 180 | 0.626 | 0.626 | 0.62 | 1.819 | 0.413 | 984.00 | 3.933 |
| 68.40 | 126.24 | 4.4666 | 51.74 | 2.35 | 4.54% | 4.971 | 0.88 | 17.88 | 2.89 | 5.63 | 186 | 0.677 | 0.677 | 0.62 | 1.822 | 0.412 | 976.95 | 3.920 |
| 68.44 | 125.54 | 4.4691 | 48.23 | 2.19 | 4.54% | 5.004 | 0.88 | 16.54 | 2.92 | 5.93 | 196 | 0.777 | 0.777 | 0.62 | 1.823 | 0.412 | 965.02 | 3.899 |
| 68.51 | 123.16 | 4.4735 | 44.42 | 1.62 | 3.65% | 4.055 | 0.88 | 15.09 | 2.89 | 5.62 | 185 | 0.673 | 0.673 | 0.62 | 1.826 | 0.412 | 914.02 | 3.825 |
| 68.58 | 119.97 | 4.4777 | 40.42 | 1.08 | 2.67% | 3.005 | 0.86 | 13.56 | 2.84 | 5.17 | 171 | 0.541 | 0.541 | 0.62 | 1.828 | 0.412 | 845.43 | 3.726 |
| 68.67 | 120.97 | 4.4831 | 37.39 | 1.27 | 3.40% | 3.859 | 0.89 | 12.41 | 2.95 | 6.21 | 205 | 0.881 | 0.881 | 0.62 | 1.831 | 0.411 | 872.85 | 3.757 |
| 68.73 | 121.69 | 4.4867 | 35.83 | 1.43 | 3.99% | 4.562 | 0.91 | 11.81 | 3.02 | 6.96 | 230 | 1.205 | 1.205 | 0.62 | 1.832 | 0.411 | 892.92 | 3.779 |
| 68.77 | 122.38 | 4.4892 | 35.83 | 1.57 | 4.38% | 5.009 | 0.92 | 11.80 | 3.05 | 7.28 | 240 | 1.372 | 1.372 | 0.62 | 1.834 | 0.411 | 908.72 | 3.801 |
| 68.84 | 123.40 | 4.4935 | 31.82 | 1.87 | 5.88% | 6.843 | 0.97 | 10.28 | 3.19 | 9.16 | 302 | 2.646 | 2.646 | 0.62 | 1.836 | 0.411 | 938.30 | 3.832 |
| 68.90 | 124.76 | 4.4973 | 39.15 | 2.11 | 5.39% | 6.089 | 0.93 | 13.03 | 3.07 | 7.57 | 250 | 1.528 | 1.528 | 0.62 | 1.838 | 0.410 | 958.72 | 3.875 |
| 68.98 | 126.14 | 4.5023 | 43.05 | 2.46 | 5.71% | 6.382 | 0.92 | 14.48 | 3.05 | 7.29 | 241 | 1.374 | 1.374 | 0.62 | 1.840 | 0.410 | 984.69 | 3.917 |
| 69.08 | 126.98 | 4.5086 | 49.79 | 2.63 | 5.28% | 5.808 | 0.90 | 16.99 | 2.96 | 6.32 | 208 | 0.922 | 0.922 | 0.61 | 1.843 | 0.409 | 995.99 | 3.943 |
| 69.11 | 127.21 | 4.5106 | 53.69 | 2.65 | 4.94% | 5.388 | 0.88 | 18.44 | 2.91 | 5.77 | 190 | 0.722 | 0.722 | 0.61 | 1.844 | 0.409 | 997.27 | 3.951 |
| 69.16 | 127.51 | 4.5137 | 65.41 | 2.58 | 3.94% | 4.237 | 0.83 | 22.83 | 2.75 | 4.41 | 146 | 0.367 | 0.367 | 0.61 | 1.846 | 0.409 | 992.74 | 3.960 |
| 69.26 | 124.59 | 4.5200 | 87.86 | 1.57 | 1.79% | 1.884 | 0.72 | 31.20 | 2.39 | 2.27 | 92 | 0.152 | 0.159 | 0.61 | 1.849 | 0.409 | 908.72 | 3.869 |
| 69.30 | 123.47 | 4.5224 | 102.11 | 1.28 | 1.25% | 1.312 | 0.67 | 36.52 | 2.22 | 1.72 | 86 | 0.138 | 0.134 | 0.61 | 1.850 | 0.408 | 874.17 | 3.834 |
| 69.39 | 123.66 | 4.5280 | 112.07 | 1.28 | 1.14% | 1.190 | 0.66 | 40.20 | 2.16 | 1.57 | 87 | 0.142 | 0.247 | 0.61 | 1.853 | 0.408 | 874.17 | 3.840 |
| 69.43 | 123.53 | 4.5305 | 106.70 | 1.28 | 1.20% | 1.253 | 0.67 | 38.18 | 2.19 | 1.65 | 86 | 0.140 | 0.136 | 0.61 | 1.854 | 0.408 | 874.17 | 3.836 |
| 69.49 | 123.41 | 4.5342 | 96.45 | 1.30 | 1.35% | 1.414 | 0.69 | 34.32 | 2.27 | 1.85 | 85 | 0.138 | 0.141 | 0.61 | 1.856 | 0.408 | 876.80 | 3.833 |
| 69.56 | 124.18 | 4.5385 | 82.00 | 1.52 | 1.85% | 1.962 | 0.74 | 28.90 | 2.43 | 2.44 | 90 | 0.149 | 0.160 | 0.61 | 1.858 | 0.407 | 903.24 | 3.857 |
| 69.63 | 124.35 | 4.5429 | 64.82 | 1.69 | 2.61% | 2.804 | 0.80 | 22.47 | 2.63 | 3.52 | 116 | 0.226 | 0.226 | 0.61 | 1.860 | 0.407 | 921.18 | 3.862 |
| 69.70 | 124.51 | 4.5472 | 54.57 | 1.83 | 3.35% | 3.658 | 0.84 | 18.63 | 2.78 | 4.63 | 153 | 0.412 | 0.412 | 0.61 | 1.863 | 0.407 | 934.64 | 3.867 |
| 69.77 | 87.42 | 4.5503 | 49.20 | 0.00 | 0.00% | 0.002 | 0.79 | 16.63 | 2.59 | 3.27 | 108 | 0.197 | 0.197 | 0.61 | 1.865 | 0.406 | -336.11 | 2.715 |
| 69.83 | 87.42 | 4.5529 | 43.73 | 0.00 | 0.00% | 0.003 | 0.79 | 14.58 | 2.61 | 3.39 | 112 | 0.210 | 0.210 | 0.61 | 1.867 | 0.406 | -336.11 | 2.715 |
| 69.88 | 87.42 | 4.5551 | 40.32 | 0.00 | 0.00% | 0.003 | 0.80 | 13.31 | 2.63 | 3.49 | 115 | 0.222 | 0.222 | 0.61 | 1.868 | 0.406 | -336.11 | 2.715 |
| 69.96 | 87.42 | 4.5586 | 35.63 | 0.00 | 0.00% | 0.003 | 0.80 | 11.56 | 2.65 | 3.66 | 121 | 0.243 | 0.243 | 0.61 | 1.871 | 0.406 | -336.11 | 2.715 |
| 70.03 | 87.42 | 4.5617 | 32.31 | 0.00 | 0.00% | 0.004 | 0.81 | 10.32 | 2.67 | 3.81 | 126 | 0.265 | 0.265 | 0.61 | 1.873 | 0.405 | -336.11 | 2.715 |
| 70.10 | 87.42 | 4.5647 | 31.73 | 0.00 | 0.00% | 0.004 | 0.81 | 10.10 | 2.68 | 3.84 | 127 | 0.270 | 0.270 | 0.61 | 1.875 | 0.405 | -336.11 | 2.715 |

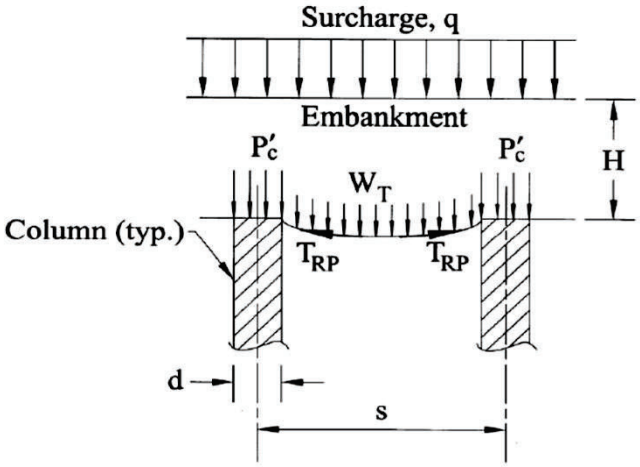
| DEPTH (ft) | Gs (psf) | Gg (psf) | Gr ($G_G/G_S$) | $A_R$ | Rrd ($\tau_s/\tau$) [c] | CSR* [d] | Liquefiable? | FS w/o scale | FS w/ scale | | $(\varepsilon_v)_F$ | $(DS)_{wet}$ (in) | $(DS)_{dry}$ (in) | Accu. $(DS)_{wet}$ (in) | Accu. $(DS)_{dry}$ (in) | Depths of Liquifiable Layer Top (ft) | Bottom (ft) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 59.00 | 1.890E+05 | 1.890E+05 | 1.00 | 0.1542 | 0.989 | 0.449 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.06 | 1.900E+05 | 1.900E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.13 | 1.937E+05 | 1.937E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.21 | 2.049E+05 | 2.049E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.26 | 2.091E+05 | 2.091E+05 | 1.00 | 0.1542 | 0.989 | 0.448 | | 1.84 | 2.53 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.34 | 2.131E+05 | 2.131E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 1.84 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.38 | 2.147E+05 | 2.147E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 1.84 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.48 | 2.162E+05 | 2.162E+05 | 1.00 | 0.1542 | 0.989 | 0.447 | | 1.84 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.53 | 2.150E+05 | 2.150E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 1.85 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.58 | 2.135E+05 | 2.135E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 1.85 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.66 | 2.139E+05 | 2.139E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 1.85 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.75 | 2.065E+05 | 2.065E+05 | 1.00 | 0.1542 | 0.989 | 0.446 | | 1.85 | 2.54 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.80 | 1.980E+05 | 1.980E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 1.85 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.84 | 1.975E+05 | 1.975E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 1.85 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.93 | 2.030E+05 | 2.030E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 1.85 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 59.98 | 2.078E+05 | 2.078E+05 | 1.00 | 0.1542 | 0.989 | 0.445 | | 1.85 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.06 | 2.145E+05 | 2.145E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 1.85 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.15 | 2.187E+05 | 2.187E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 1.86 | 2.55 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.20 | 2.201E+05 | 2.201E+05 | 1.00 | 0.1542 | 0.989 | 0.444 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.24 | 2.208E+05 | 2.208E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.33 | 2.202E+05 | 2.202E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.37 | 2.192E+05 | 2.192E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.46 | 2.152E+05 | 2.152E+05 | 1.00 | 0.1542 | 0.989 | 0.443 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.51 | 2.117E+05 | 2.117E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.58 | 2.005E+05 | 2.005E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 1.86 | 2.56 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.64 | 1.840E+05 | 1.840E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 1.87 | 2.57 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.71 | 1.840E+05 | 1.840E+05 | 1.00 | 0.1542 | 0.989 | 0.442 | | 1.87 | 2.57 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.78 | 1.841E+05 | 1.841E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 1.87 | 2.57 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.87 | 1.873E+05 | 1.873E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 1.46 | 2.00 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.91 | 1.906E+05 | 1.906E+05 | 1.00 | 0.1542 | 0.989 | 0.441 | | 1.03 | 1.42 | | 0.00 | 0.000 | 0.00 | 0.70 | 0.00 | | |
| 60.97 | 1.954E+05 | 1.954E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.57 | 0.78 | <= | 1.77 | 0.009 | 0.00 | 0.70 | 0.00 | 60.91 | 60.97 |
| 61.03 | 2.078E+05 | 2.078E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.50 | 0.69 | <= | 2.06 | 0.012 | 0.00 | 0.69 | 0.00 | 60.97 | 61.03 |
| 61.12 | 2.221E+05 | 2.221E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.57 | 0.79 | <= | 2.19 | 0.022 | 0.00 | 0.68 | 0.00 | 61.03 | 61.12 |
| 61.18 | 2.348E+05 | 2.348E+05 | 1.00 | 0.1542 | 0.989 | 0.440 | | 0.38 | 0.52 | <= | 2.13 | 0.014 | 0.00 | 0.65 | 0.00 | 61.12 | 61.18 |
| 61.24 | 2.445E+05 | 2.445E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | | 0.50 | 0.69 | <= | 2.02 | 0.014 | 0.00 | 0.64 | 0.00 | 61.18 | 61.24 |
| 61.31 | 2.513E+05 | 2.513E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.63 | 0.00 | | |
| 61.36 | 2.530E+05 | 2.530E+05 | 1.00 | 0.1542 | 0.989 | 0.439 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.63 | 0.00 | | |
| 61.45 | 2.503E+05 | 2.503E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.63 | 0.00 | | |
| 61.49 | 2.501E+05 | 2.501E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.63 | 0.00 | | |
| 61.58 | 2.522E+05 | 2.522E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.63 | 0.00 | | |
| 61.63 | 2.536E+05 | 2.536E+05 | 1.00 | 0.1542 | 0.989 | 0.438 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.63 | 0.00 | | |
| 61.72 | 2.567E+05 | 2.567E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.63 | 0.00 | | |
| 61.75 | 2.565E+05 | 2.565E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.63 | 0.00 | | |
| 61.83 | 2.353E+05 | 2.353E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.63 | 0.00 | | |
| 61.89 | 2.102E+05 | 2.102E+05 | 1.00 | 0.1542 | 0.989 | 0.437 | | 0.36 | 0.49 | <= | 2.45 | 0.016 | 0.00 | 0.63 | 0.00 | 61.83 | 61.89 |
| 61.98 | 2.059E+05 | 2.059E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 0.56 | 0.78 | <= | 2.29 | 0.022 | 0.00 | 0.61 | 0.00 | 61.89 | 61.98 |
| 62.03 | 2.021E+05 | 2.021E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 0.52 | 0.71 | <= | 1.69 | 0.007 | 0.00 | 0.59 | 0.00 | 61.98 | 62.03 |
| 62.09 | 1.955E+05 | 1.955E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 0.69 | 0.94 | <= | 0.82 | 0.002 | 0.00 | 0.58 | 0.00 | 62.03 | 62.09 |
| 62.14 | 1.847E+05 | 1.847E+05 | 1.00 | 0.1542 | 0.989 | 0.436 | | 0.83 | 1.14 | <= | 0.36 | 0.000 | 0.00 | 0.58 | 0.00 | 62.09 | 62.14 |
| 62.21 | 1.751E+05 | 1.751E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 0.90 | 1.24 | <= | 0.25 | 0.000 | 0.00 | 0.58 | 0.00 | 62.14 | 62.21 |
| 62.29 | 1.750E+05 | 1.750E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 0.99 | 1.36 | | 0.00 | 0.000 | 0.00 | 0.58 | 0.00 | | |
| 62.34 | 1.764E+05 | 1.764E+05 | 1.00 | 0.1542 | 0.989 | 0.435 | | 0.99 | 1.36 | | 0.00 | 0.000 | 0.00 | 0.58 | 0.00 | | |
| 62.42 | 1.790E+05 | 1.790E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 0.97 | 1.34 | | 0.00 | 0.000 | 0.00 | 0.58 | 0.00 | | |
| 62.47 | 1.790E+05 | 1.790E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 0.95 | 1.31 | | 0.00 | 0.000 | 0.00 | 0.58 | 0.00 | | |
| 62.56 | 1.784E+05 | 1.784E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 0.87 | 1.19 | <= | 0.42 | 0.000 | 0.00 | 0.58 | 0.00 | 62.47 | 62.56 |
| 62.60 | 1.785E+05 | 1.785E+05 | 1.00 | 0.1542 | 0.989 | 0.434 | | 0.81 | 1.12 | <= | 0.33 | 0.000 | 0.00 | 0.58 | 0.00 | 62.56 | 62.60 |
| 62.67 | 1.774E+05 | 1.774E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.75 | 1.03 | <= | 0.52 | 0.000 | 0.00 | 0.58 | 0.00 | 62.60 | 62.67 |
| 62.75 | 1.762E+05 | 1.762E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.66 | 0.91 | <= | 0.72 | 0.003 | 0.00 | 0.58 | 0.00 | 62.67 | 62.75 |
| 62.81 | 1.771E+05 | 1.771E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.60 | 0.83 | <= | 1.22 | 0.003 | 0.00 | 0.58 | 0.00 | 62.75 | 62.81 |
| 62.88 | 1.798E+05 | 1.798E+05 | 1.00 | 0.1542 | 0.989 | 0.433 | | 0.56 | 0.77 | <= | 1.79 | 0.006 | 0.00 | 0.57 | 0.00 | 62.81 | 62.88 |
| 62.96 | 1.930E+05 | 1.930E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.51 | 0.71 | <= | 1.70 | 0.010 | 0.00 | 0.57 | 0.00 | 62.88 | 62.96 |
| 63.01 | 1.980E+05 | 1.980E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.52 | 0.72 | <= | 1.83 | 0.009 | 0.00 | 0.56 | 0.00 | 62.96 | 63.01 |
| 63.10 | 2.060E+05 | 2.060E+05 | 1.00 | 0.1542 | 0.989 | 0.432 | | 0.55 | 0.75 | <= | 2.23 | 0.021 | 0.00 | 0.55 | 0.00 | 63.01 | 63.10 |
| 63.14 | 2.102E+05 | 2.102E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.54 | 0.75 | <= | 2.23 | 0.010 | 0.00 | 0.53 | 0.00 | 63.10 | 63.14 |
| 63.23 | 2.183E+05 | 2.183E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.57 | 0.79 | <= | 2.24 | 0.022 | 0.00 | 0.52 | 0.00 | 63.14 | 63.23 |
| 63.27 | 2.237E+05 | 2.237E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.59 | 0.81 | <= | 1.54 | 0.007 | 0.00 | 0.49 | 0.00 | 63.23 | 63.27 |
| 63.32 | 2.298E+05 | 2.298E+05 | 1.00 | 0.1542 | 0.989 | 0.431 | | 0.62 | 0.85 | <= | 1.77 | 0.011 | 0.00 | 0.49 | 0.00 | 63.27 | 63.32 |
| 63.39 | 2.309E+05 | 2.309E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.34 | 0.47 | <= | 2.17 | 0.016 | 0.00 | 0.48 | 0.00 | 63.32 | 63.39 |
| 63.45 | 2.272E+05 | 2.272E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.35 | 0.48 | <= | 2.21 | 0.014 | 0.00 | 0.46 | 0.00 | 63.39 | 63.45 |
| 63.55 | 2.184E+05 | 2.184E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.60 | 0.83 | <= | 1.77 | 0.021 | 0.00 | 0.45 | 0.00 | 63.45 | 63.55 |
| 63.59 | 2.173E+05 | 2.173E+05 | 1.00 | 0.1542 | 0.989 | 0.430 | | 0.34 | 0.47 | <= | 2.33 | 0.010 | 0.00 | 0.42 | 0.00 | 63.55 | 63.59 |
| 63.68 | 2.088E+05 | 2.088E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.34 | 0.46 | <= | 2.45 | 0.024 | 0.00 | 0.41 | 0.00 | 63.59 | 63.68 |
| 63.72 | 2.075E+05 | 2.075E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.34 | 0.47 | <= | 2.47 | 0.011 | 0.00 | 0.39 | 0.00 | 63.68 | 63.72 |
| 63.82 | 2.214E+05 | 2.214E+05 | 1.00 | 0.1542 | 0.989 | 0.429 | | 0.39 | 0.54 | <= | 2.33 | 0.025 | 0.00 | 0.38 | 0.00 | 63.72 | 63.82 |
| 63.86 | 2.235E+05 | 2.235E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.41 | 0.57 | <= | 2.30 | 0.010 | 0.00 | 0.35 | 0.00 | 63.82 | 63.86 |
| 63.95 | 2.257E+05 | 2.257E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.42 | 0.58 | <= | 2.27 | 0.022 | 0.00 | 0.34 | 0.00 | 63.86 | 63.95 |
| 63.99 | 2.235E+05 | 2.235E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.41 | 0.57 | <= | 2.30 | 0.010 | 0.00 | 0.32 | 0.00 | 63.95 | 63.99 |
| 64.05 | 2.200E+05 | 2.200E+05 | 1.00 | 0.1542 | 0.989 | 0.428 | | 0.40 | 0.55 | <= | 2.35 | 0.015 | 0.00 | 0.31 | 0.00 | 63.99 | 64.05 |
| 64.11 | 2.150E+05 | 2.150E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.37 | 0.51 | <= | 2.41 | 0.016 | 0.00 | 0.30 | 0.00 | 64.05 | 64.11 |
| 64.18 | 2.151E+05 | 2.151E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.38 | 0.52 | <= | 2.41 | 0.018 | 0.00 | 0.28 | 0.00 | 64.11 | 64.18 |
| 64.26 | 2.180E+05 | 2.180E+05 | 1.00 | 0.1542 | 0.989 | 0.427 | | 0.41 | 0.57 | <= | 2.38 | 0.021 | 0.00 | 0.26 | 0.00 | 64.18 | 64.26 |
| 64.31 | 2.210E+05 | 2.210E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | | 0.43 | 0.60 | <= | 2.33 | 0.013 | 0.00 | 0.24 | 0.00 | 64.26 | 64.31 |
| 64.40 | 2.267E+05 | 2.267E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.23 | 0.00 | | |
| 64.44 | 2.281E+05 | 2.281E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.23 | 0.00 | | |
| 64.51 | 2.261E+05 | 2.261E+05 | 1.00 | 0.1542 | 0.989 | 0.426 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.23 | 0.00 | | |
| 64.58 | 2.171E+05 | 2.171E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.23 | 0.00 | | |
| 64.66 | 2.016E+05 | 2.016E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.23 | 0.00 | | |
| 64.71 | 1.978E+05 | 1.978E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.23 | 0.00 | | |
| 64.77 | 2.015E+05 | 2.015E+05 | 1.00 | 0.1542 | 0.989 | 0.425 | | 0.46 | 0.64 | <= | 2.17 | 0.016 | 0.00 | 0.23 | 0.00 | 64.71 | 64.77 |
| 64.84 | 2.055E+05 | 2.055E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 64.90 | 2.061E+05 | 2.061E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 64.97 | 2.078E+05 | 2.078E+05 | 1.00 | 0.1542 | 0.989 | 0.424 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 65.07 | 2.114E+05 | 2.114E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 65.11 | 2.166E+05 | 2.166E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 65.20 | 2.219E+05 | 2.219E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 65.24 | 2.228E+05 | 2.228E+05 | 1.00 | 0.1542 | 0.989 | 0.423 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 65.29 | 2.210E+05 | 2.210E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 65.37 | 2.170E+05 | 2.170E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.21 | 0.00 | | |
| 65.42 | 2.234E+05 | 2.234E+05 | 1.00 | 0.1542 | 0.989 | 0.422 | | 0.47 | 0.65 | <= | 2.16 | 0.012 | 0.00 | 0.21 | 0.00 | 65.37 | 65.42 |
| 65.51 | 2.360E+05 | 2.360E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.39 | 0.53 | <= | 2.14 | 0.021 | 0.00 | 0.20 | 0.00 | 65.42 | 65.51 |
| 65.56 | 2.402E+05 | 2.402E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.39 | 0.54 | <= | 2.10 | 0.011 | 0.00 | 0.18 | 0.00 | 65.51 | 65.56 |
| 65.64 | 2.398E+05 | 2.398E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.57 | 0.79 | <= | 1.99 | 0.007 | 0.00 | 0.17 | 0.00 | 65.56 | 65.64 |
| 65.69 | 2.408E+05 | 2.408E+05 | 1.00 | 0.1542 | 0.989 | 0.421 | | 0.64 | 0.88 | <= | 1.36 | 0.003 | 0.00 | 0.16 | 0.00 | 65.64 | 65.69 |
| 65.77 | 2.454E+05 | 2.454E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.71 | 0.97 | <= | 0.92 | 0.002 | 0.00 | 0.16 | 0.00 | 65.69 | 65.77 |
| 65.81 | 2.488E+05 | 2.488E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.77 | 1.06 | <= | 0.57 | 0.000 | 0.00 | 0.16 | 0.00 | 65.77 | 65.81 |
| 65.90 | 2.581E+05 | 2.581E+05 | 1.00 | 0.1542 | 0.989 | 0.420 | | 0.91 | 1.25 | <= | 0.26 | 0.000 | 0.00 | 0.16 | 0.00 | 65.81 | 65.90 |
| 65.95 | 2.641E+05 | 2.641E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 1.02 | 1.40 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.03 | 2.721E+05 | 2.721E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 1.18 | 1.63 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.08 | 2.763E+05 | 2.763E+05 | 1.00 | 0.1542 | 0.989 | 0.419 | | 1.32 | 1.82 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.16 | 2.812E+05 | 2.812E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 1.55 | 2.13 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.22 | 2.846E+05 | 2.846E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 1.68 | 2.31 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.29 | 2.891E+05 | 2.891E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 1.73 | 2.38 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.35 | 2.944E+05 | 2.944E+05 | 1.00 | 0.1542 | 0.989 | 0.418 | | 1.82 | 2.50 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.41 | 2.920E+05 | 2.920E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | | 1.78 | 2.44 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.48 | 2.666E+05 | 2.666E+05 | 1.00 | 0.1542 | 0.989 | 0.417 | | 1.60 | 2.20 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.57 | 2.688E+05 | 2.688E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | | 1.94 | 2.66 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.62 | 2.689E+05 | 2.689E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | | 2.18 | 3.00 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.67 | 2.684E+05 | 2.684E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | | 2.30 | 3.17 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.74 | 2.673E+05 | 2.673E+05 | 1.00 | 0.1542 | 0.989 | 0.416 | | 2.06 | 2.84 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.81 | 2.658E+05 | 2.658E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | | 2.06 | 2.83 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.88 | 2.657E+05 | 2.657E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | | 2.03 | 2.80 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 66.94 | 2.659E+05 | 2.659E+05 | 1.00 | 0.1542 | 0.989 | 0.415 | | 2.03 | 2.79 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.01 | 2.661E+05 | 2.661E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | | 2.05 | 2.81 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.06 | 2.664E+05 | 2.664E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | | 2.08 | 2.87 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.15 | 2.644E+05 | 2.644E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | | 2.12 | 2.92 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.20 | 2.627E+05 | 2.627E+05 | 1.00 | 0.1542 | 0.989 | 0.414 | | 2.18 | 3.00 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.28 | 2.488E+05 | 2.488E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | | 1.95 | 2.68 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.32 | 2.337E+05 | 2.337E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | | 1.80 | 2.47 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.42 | 2.231E+05 | 2.231E+05 | 1.00 | 0.1542 | 0.989 | 0.413 | | 1.57 | 2.16 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.47 | 2.201E+05 | 2.201E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | | 1.47 | 2.02 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.55 | 2.151E+05 | 2.151E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | | 1.31 | 1.80 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.60 | 2.137E+05 | 2.137E+05 | 1.00 | 0.1542 | 0.989 | 0.412 | | 1.19 | 1.64 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.68 | 2.141E+05 | 2.141E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | | 0.95 | 1.31 | | 0.00 | 0.000 | 0.00 | 0.16 | 0.00 | | |
| 67.73 | 2.143E+05 | 2.143E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | | 0.88 | 1.21 | <= | 0.23 | 0.000 | 0.00 | 0.16 | 0.00 | 67.68 | 67.73 |
| 67.80 | 2.167E+05 | 2.167E+05 | 1.00 | 0.1542 | 0.989 | 0.411 | | 0.71 | 0.98 | <= | 0.96 | 0.002 | 0.00 | 0.16 | 0.00 | 67.73 | 67.80 |
| 67.87 | 2.273E+05 | 2.273E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | | 0.63 | 0.86 | <= | 1.35 | 0.003 | 0.00 | 0.15 | 0.00 | 67.80 | 67.87 |
| 67.93 | 2.363E+05 | 2.363E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | | 0.53 | 0.73 | <= | 2.07 | 0.009 | 0.00 | 0.15 | 0.00 | 67.87 | 67.93 |
| 67.98 | 2.417E+05 | 2.417E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | | 0.38 | 0.52 | <= | 2.09 | 0.007 | 0.00 | 0.14 | 0.00 | 67.93 | 67.98 |
| 68.05 | 2.479E+05 | 2.479E+05 | 1.00 | 0.1542 | 0.989 | 0.410 | | 0.54 | 0.74 | <= | 2.03 | 0.012 | 0.00 | 0.14 | 0.00 | 67.98 | 68.05 |
| 68.12 | 2.492E+05 | 2.492E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.18 | 2.488E+05 | 2.488E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.25 | 2.479E+05 | 2.479E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.31 | 2.462E+05 | 2.462E+05 | 1.00 | 0.1542 | 0.989 | 0.409 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.40 | 2.434E+05 | 2.434E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.44 | 2.389E+05 | 2.389E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.51 | 2.184E+05 | 2.184E+05 | 1.00 | 0.1542 | 0.989 | 0.408 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.58 | 1.918E+05 | 1.918E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.67 | 2.028E+05 | 2.028E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.73 | 2.110E+05 | 2.110E+05 | 1.00 | 0.1542 | 0.989 | 0.407 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.77 | 2.173E+05 | 2.173E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.84 | 2.297E+05 | 2.297E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.90 | 2.372E+05 | 2.372E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 68.98 | 2.475E+05 | 2.475E+05 | 1.00 | 0.1542 | 0.989 | 0.406 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 69.08 | 2.516E+05 | 2.516E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 69.11 | 2.517E+05 | 2.517E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 69.16 | 2.489E+05 | 2.489E+05 | 1.00 | 0.1542 | 0.989 | 0.405 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.12 | 0.00 | | |
| 69.26 | 2.134E+05 | 2.134E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | | 0.39 | 0.54 | <= | 2.47 | 0.026 | 0.00 | 0.12 | 0.00 | 69.16 | 69.26 |
| 69.30 | 1.993E+05 | 1.993E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | | 0.33 | 0.46 | <= | 2.62 | 0.011 | 0.00 | 0.10 | 0.00 | 69.26 | 69.30 |
| 69.39 | 1.990E+05 | 1.990E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | | 0.61 | 0.84 | <= | 2.16 | 0.023 | 0.00 | 0.09 | 0.00 | 69.30 | 69.39 |
| 69.43 | 1.992E+05 | 1.992E+05 | 1.00 | 0.1542 | 0.989 | 0.404 | | 0.34 | 0.46 | <= | 2.60 | 0.011 | 0.00 | 0.06 | 0.00 | 69.39 | 69.43 |
| 69.49 | 2.006E+05 | 2.006E+05 | 1.00 | 0.1542 | 0.989 | 0.403 | | 0.35 | 0.48 | <= | 2.62 | 0.016 | 0.00 | 0.05 | 0.00 | 69.43 | 69.49 |
| 69.56 | 2.116E+05 | 2.116E+05 | 1.00 | 0.1542 | 0.989 | 0.403 | | 0.40 | 0.55 | <= | 2.50 | 0.018 | 0.00 | 0.04 | 0.00 | 69.49 | 69.56 |
| 69.63 | 2.197E+05 | 2.197E+05 | 1.00 | 0.1542 | 0.989 | 0.403 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.02 | 0.00 | | |
| 69.70 | 2.259E+05 | 2.259E+05 | 1.00 | 0.1542 | 0.989 | 0.402 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.02 | 0.00 | | |
| 69.77 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.402 | | 0.49 | 0.67 | <= | 2.17 | 0.018 | 0.00 | 0.02 | 0.00 | 69.70 | 69.77 |
| 69.83 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.402 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.88 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.402 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 69.96 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.401 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.03 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.401 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |
| 70.10 | 4.161E+04 | 4.161E+04 | 1.00 | 0.1542 | 0.989 | 0.401 | NO | 10.00 | 10.00 | | 0.00 | 0.000 | 0.00 | 0.00 | 0.00 | | |

a. Per $(N1)_{60CS}$ improvement correlation stipulated in Shenthan et.al (2006).
b. Vs = 118.8 $log_{10}$ (fs) + 18.5; Vs in m/sec and fs in kilopascals.
c. Per the Rrd - Ar correlation stipulated in Rayamajhi et.al (2012)
d. CSR*= CSR x Rrd

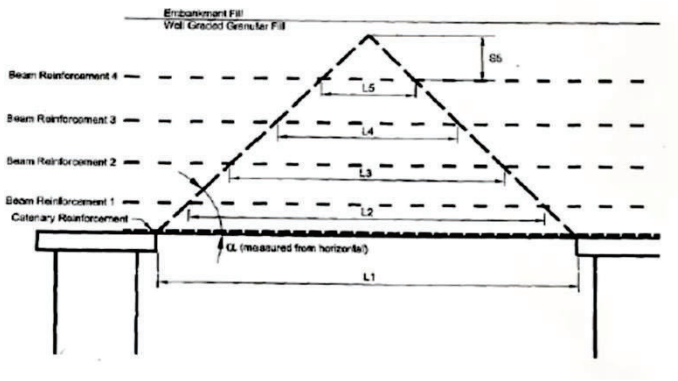
| Total Wet Settlement (in) | 3.96 | Total Wet Settlement with Vibro Stone Columns within 50' Depth (in) | 1.76 |
|---|---|---|---|
| | | Total Dry Settlement with Vibro Stone Columns (in) * | 0.00 |

* Based on 5 ft OX

## Analysis of Geosynthetic-Reinforced Load Transfer Platform over Discrete Columns [a]




(A)




(B)

| | |
|---|---|
| Discrete Column Pattern (A = Square; B = Equilateral Triangular): | B |
| Discrete Column Diameter, D (ft): | 3.0 |
| Discrete Column Center-To-Center Spacing, S (ft): | 8.0 |
| Effective Diameter, $D_e$ (ft): | 8.40 |
| Tributary Area of Unit Discrete Column, $A_C$ ($ft^2$): | 55.42 |
| Uniform D + L Structural Surcharge Load, q (psf): | 2000.0 |
| Thickness of Structural Fill over LTP, $h_S$ (ft): | 2.0 |

| | |
|---|---|
| Layer Spacing between Reinforcing Geosynthetic, $h_n$ (ft): | 1.0 |
| Number of Layers of Reinforcing Geosynthetic, incl. Catenary Layer, n (min. 4): | 4.0 |
| Design Density of Gravel Fill, $\gamma$ (pcf): | 140.0 |
| Design Density of Structural Fill, $\gamma_S$ (pcf): | 125.0 |
| Design Geosynthetic Strain, $\varepsilon$ (%) | 1.0 |
| $\Omega$-factor: | 2.07 |

$(L_S)_i$ = Reinforcement Span within Arching Limits at $i^{th}$ Layer = (S-D) - 2(i-1)$(h_N)$/tan($\pi$/4)

$(A_R)_i$ = Reinforcement Area within Arching Limits at $i^{th}$ Layer = $[(L_S)_i]^2$ and $[(LS)_i]^2$sin($\pi$/3)/2 for square and equilateral triangular discrete column patterns, respectively

$(W_T)_i$ = Uniform Vertical Load within Arching Limits at $i^{th}$ Layer = $\{[(A_R)_i + (A_R)_{i+1}]/2\}h_n\gamma/(A_R)_i$

$(D_S)_i$ = Design Span for Tensioned Reinforcement at $i^{th}$ Layer = 1.41$(L_S)_i$ and 0.867$(L_S)_i$ for square and equilateral triangular discrete column patterns, respectively

$(T_{rp})_i$ = Tension in the Reinforcement at $i^{th}$ Layer = $(W_T)_i\Omega(D_S)_i/2$

Qr = Design Vertical Load per Unit Discrete Column = $A_C(\gamma_S h_S + q)$

| Geosynthetic Layer No. [b] | $(L_S)_i$ (ft) | $(A_R)_i$ ($ft^2$) | $W_{Ti}$ (psf) | $D_{Si}$ (ft) | $T_{rpi}$ (lb/ft) |
|---|---|---|---|---|---|
| 1 | 5.00 | 10.83 | 95.20 | 4.335 | 427.14 |
| 2 | 3.00 | 3.90 | 77.78 | 2.601 | 209.38 |
| 3 | 1.00 | 0.43 | 70.00 | 0.867 | 62.81 |
| 4 | 0.00 | 0.00 | 0.00 | 0.000 | 0.00 |
| | | | | | |
| | | | | | |
| | | | | | |

| Qr (kips) |
|---|
| 124.69 |

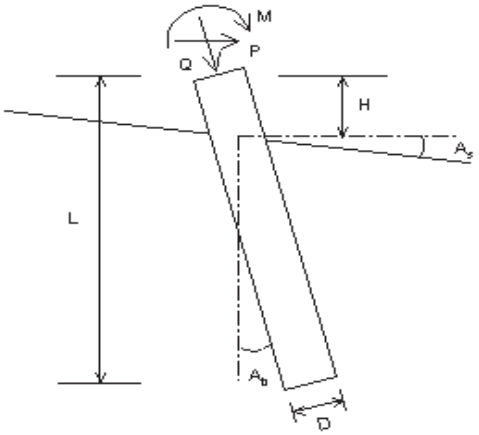
Note: a. Procedures adapted from the "Modified Beam Method" stipulated in Collins, et.al (2005).

b. Refer to Figures (A) and (B) for definition.

| ASE # | 7109.23 |
|---|---|

| Plate No. | O-1 |
|---|---|

# VERTICAL ANALYSIS




Drilled Shaft (dia >24 in. or 61 cm)

**Loads:**
Load Factor for Vertical Loads= 1.0
Load Factor for Lateral Loads= 1.0
Loads Supported by Pile Cap= 0 %
Shear Condition: Cyclic
Number of Cycles: 2

(with Load Factor)
Vertical Load, Q= 125.0 -kp

**Profile:**
Pile Length, L= 25.0 -ft
Top Height, H= 0 -ft
Slope Angle, As= 0
Batter Angle, Ab= 0

* Zero Friction *
Zero Friction Start: 26 -ft End: 27.6 -ft

**Soil Data:**

| Depth -ft | Gamma -lb/f3 | Phi | C -kp/f2 | K -lb/i3 | e50 or Dr % | Nspt |
|---|---|---|---|---|---|---|
| 0 | 102.8 | 35.5 | 0.06 | 408.1 | 0.54 | 22 |
| 10 | 108.3 | 34.0 | 0.06 | 1004.5 | 0.34 | 47 |
| 13 | 125.5 | 34.0 | 0.06 | 415.3 | 0.53 | 23 |
| 25 | 125.5 | 15.5 | 0.86 | 249.0 | 0.45 | 15 |
| 32 | 65.1 | 15.5 | 0.85 | 501.8 | 0.49 | 26 |
| 35 | 46.1 | 35.0 | 0.02 | 299.1 | 0.62 | 18 |
| 37 | 65.1 | 20.0 | 0.70 | 540.8 | 0.47 | 28 |
| 44 | 67.7 | 20.0 | 0.70 | 567.7 | 0.46 | 29 |
| 45 | 63.7 | 20.0 | 0.70 | 567.7 | 0.46 | 29 |

**Pile Data:**

| Depth -ft | Width -in | Area -in2 | Per. -in | I -in4 | E -kp/i2 | Weight -kp/f |
|---|---|---|---|---|---|---|
| 0.0 | 36 | 1017.9 | 113.1 | 82448.0 | 1200 | 1.060 |
| 25.0 | | | | | | |

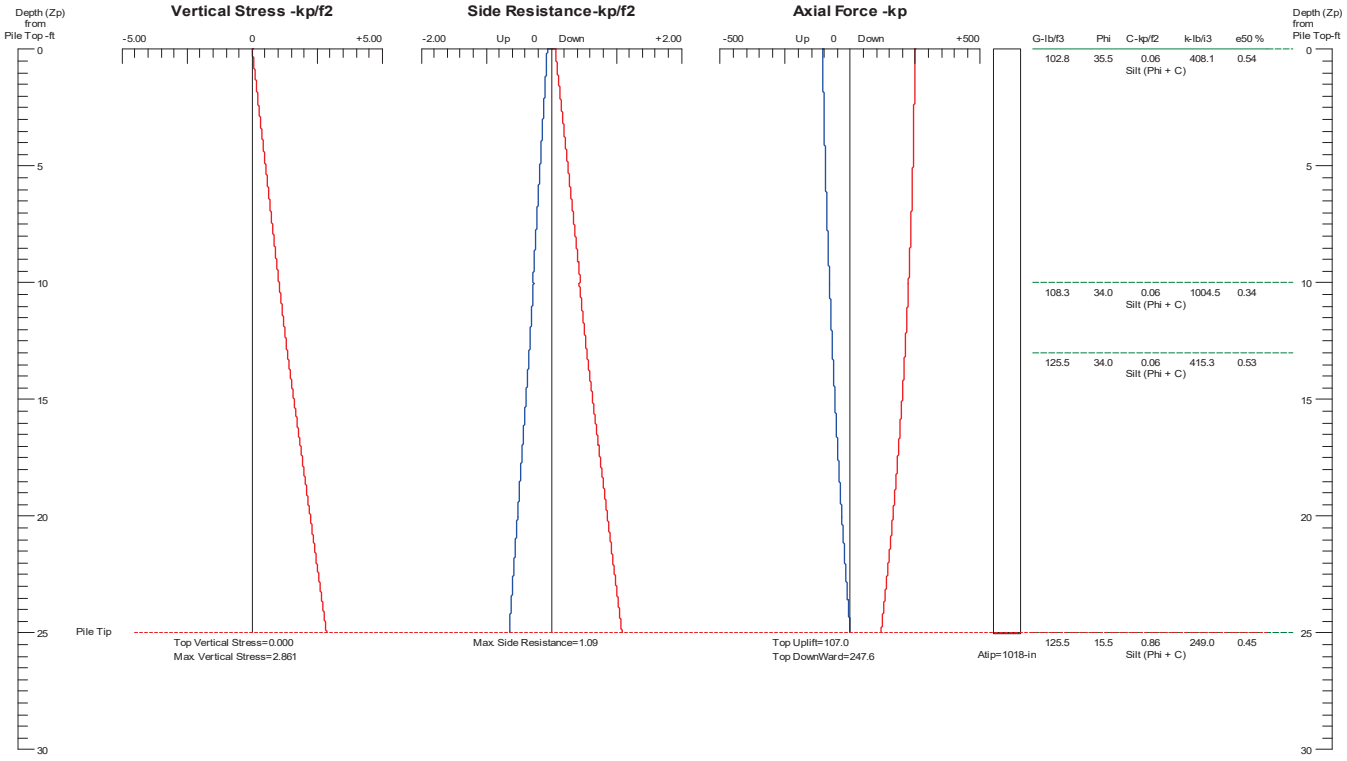
Vertical Capacity:
Weight above Ground= 0.00 Total Weight= 26.50-kp *Soil Weight is not included
Side Resistance (Down)= 130.223-kp Side Resistance (Up)= 80.472-kp
Tip Resistance (Down)= 117.404-kp Tip Resistance (Up)= 0.000-kp
Total Ultimate Capacity (Down) Qult= 247.626-kp Total Ultimate Capacity (Up)= 106.972-kp
Total Allowable Capacity (Down) Qallow= 145.517-kp Total Allowable Capacity (Up) Qallow= 71.315-kp
OK! Qallow > Q

Settlement Calculation:
At Q= 125.00-kp Settlement= 0.09838-in
At Xallow= 1.00-in Q= 215.50526-kp

Note: If the program cannot find a result or the result exceeds the upper limit. The result will be displayed as 99999.

## SOIL STRESS, SIDE RESISTANCE, & AXIAL FORCE vs DEPTH

**Based on Ultimate Load Condition**

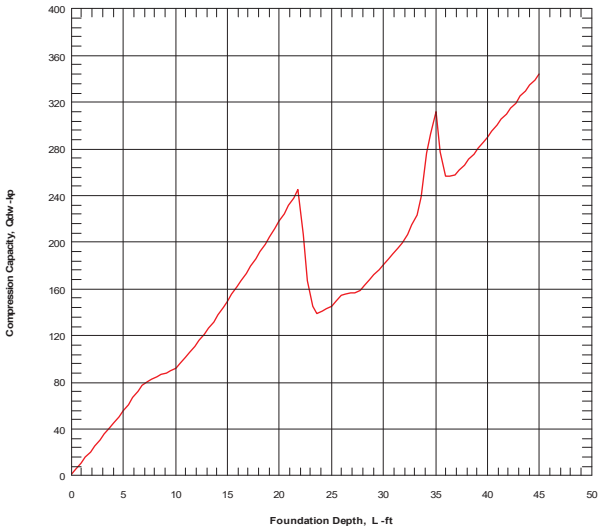


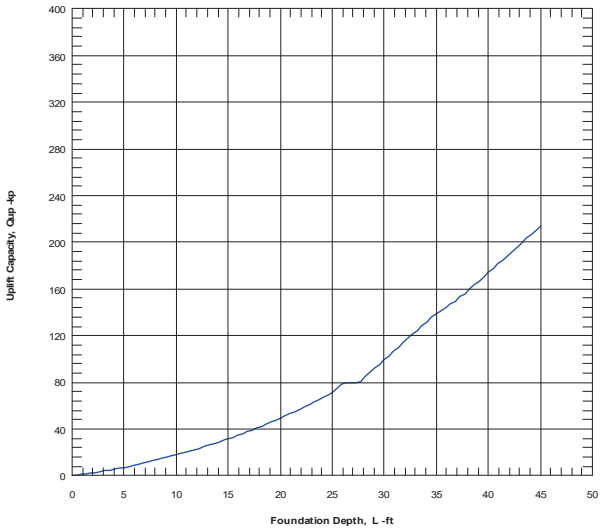

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**3'x30' VSC**

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## ALLOWABLE CAPACITY vs FOUNDATION DEPTH

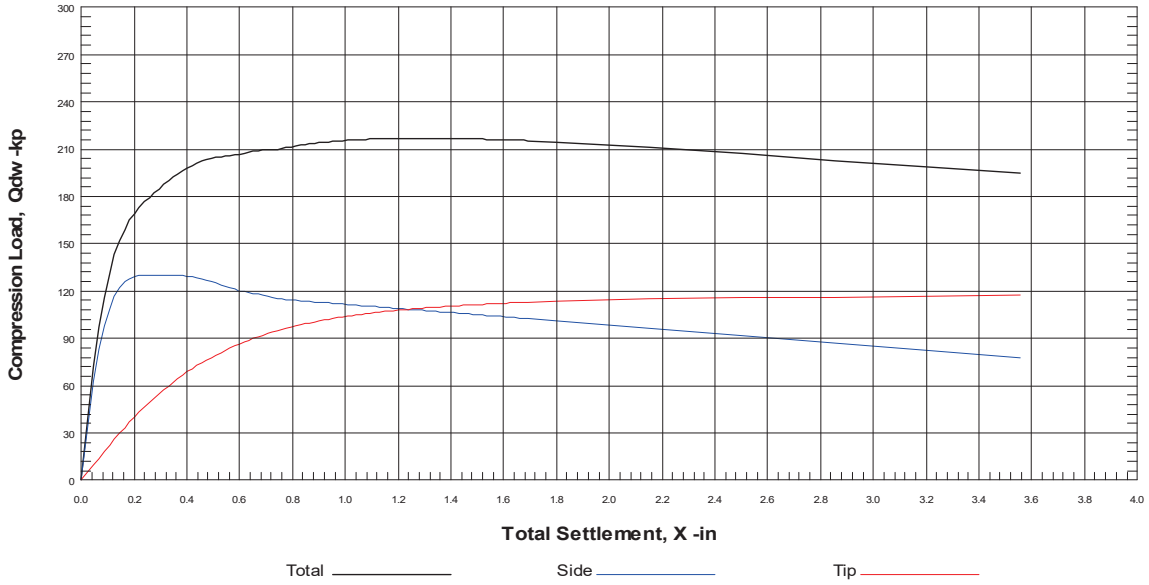



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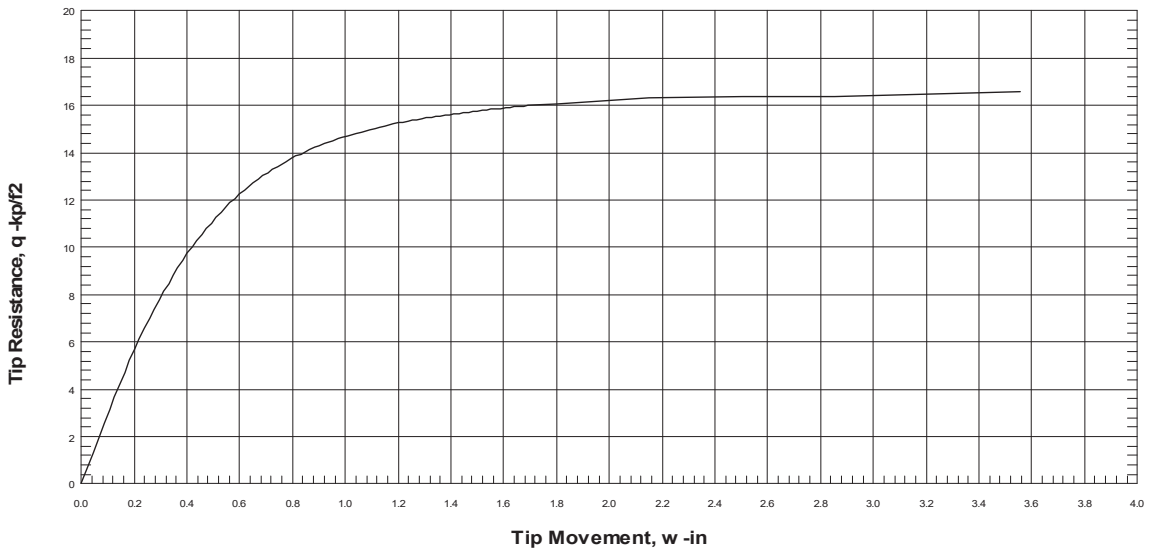
## Vertical Load vs. Total Settlement






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## Tip Resistance vs. Tip Movement (q-w)




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## APPENDIX G – COPY OF REPORT OF SUMMARY OF CONE PENETRATION TEST DATA

(Prepared by Kehoe Testing and Engineering, Inc.)