

APPENDIX D: GEOTECHNICAL REPORT

Lancaster Travel Center Project Draft IS/MND



Lead Agency

City of Lancaster

44933 Fern Avenue
Lancaster, CA 93534

July 2026

GEOTECHNICAL ENGINEERING REPORT WITH LIQUEFACTION ANALYSIS

**Prepared For
Duke Engineering**

**Proposed
Pilot Truck Stop
Vicinity of Avenue H and 25th Street West
Lancaster, Los Angeles County, California
3114-012-064, -066, & -029**

**Job No.: 25-123
May 20, 2025
Revised January 20, 2026**



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**SOIL AND MATERIAL
TESTING AND INSPECTIONS**

May 20, 2025
Revised January 20, 2026

Job No.: 25-123

Mr. Ryan Duke
Duke Engineering
759 W Lancaster Blvd
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Subject: Geotechnical Engineering Report with Liquefaction Analysis for Proposed Pilot Truck Stop Vicinity of Avenue H and 25th Street West, Lancaster Los Angeles County, California, APN 3114-012-064, -066, -029

Dear Mr. Duke:

Presented herewith in is our Geotechnical Engineering Report and Liquefaction Analysis for the subject project. Our work was performed in accordance with the scope of work outlined in our original proposal dated January 22, 2025.

This report presents the results of our field investigation, laboratory testing, along with our engineering judgment, opinions, conclusions, and recommendations pertaining to the proposed development.

It has been a pleasure to be of service to you on this project. Should you have any questions regarding the contents of this report, or should you require additional information, please contact the undersigned at (661) 273-9078.

Respectfully submitted,

BRUIN GEOTECHNICAL SERVICES, INC.


Ryan D. Duke, P.E.
RDD/mes



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GEOTECHNICAL ENGINEERING REPORT
WITH LIQUEFACTION ANALYSIS
PROPOSED PILOT TRUCK STOP
VICINITY OF AVENUE H AND 25TH STREET WEST
LANCASTER, LOS ANGELES COUNTY, CALIFORNIA
3114-012-029, 064 & -066

1.0 INTRODUCTION

This report presents the results of our geotechnical investigation performed by Bruin Geotechnical Services, Inc. for the proposed commercial development at the subject site based on discussions and preliminary site plans provided by the client. A Liquefaction analysis is included and performed in accordance with Los Angeles County Liquefaction Analysis Guidelines (P/BC 2020-151). This report is specific to the proposed commercial development.

The purpose of this investigation was to evaluate the on-site subsurface soil conditions relative to geotechnical engineering characteristics and to provide geotechnical recommendations relative to proposed commercial development.

The scope of the authorized geotechnical investigation included the following tasks:

- Performing a site reconnaissance
- Conducting field subsurface exploration through soil borings and sampling
- Laboratory testing program of selected soil samples
- Performing engineering analyses of the data
- Preparing this Geotechnical Engineering Report with Liquefaction Analysis

This study also includes a review of published and unpublished literature and geotechnical maps with respect to active and potentially active faults located in proximity to the site which may have impact on the seismic design of the proposed structure.

2.0 SITE LOCATION AND DESCRIPTION

The subject site, identified as APN 3314-012-029, 3314-012-064 and 3314-012-066 and herein after referred to as Site, is located at the southeast corner of 25th Street West and Avenue H, in Lancaster, Los Angeles County, California. The irregular-shaped Site consists of approximately 10.16 acres. The Site is located in a semi-developed area of Lancaster, with commercial and residential developments in the vicinity of the subject site. The site is bound by Antelope Valley Fairgrounds to the north, across Avenue H, vacant land in the

parcels to the west across 25th Street West, as well as across Avenue H-2 to the south and in the parcel to the east.

At the time of our investigation, the Site vegetation consisted of sparse, low annual weeds and brush. The Site topography is relatively flat and level with a general slope to the southeast with drainage by sheet flow at approximately one to two (1-2) percent across the Site and a one to two (1-2) foot high berm was observed around the perimeter of the parcels. It appears the site had been previously graded to a relatively level condition. The approximate elevation of the Site is approximately 2,312 feet above mean sea level. The aforementioned site description is intended to be illustrative and is specifically not intended for use as a legal description of the Site.

Access to the Site is from Avenue H-2 which is a paved road.

The general location of the subject site is shown on Figure 1.

3.0 PROPOSED GRADING AND CONSTRUCTION

Based on our review of the preliminary site plans and discussions, Bruin GSI understands that the development will consist of a Pilot Truck Stop (truck and auto fueling station) , with an approximately 9,000 square foot building (travel center) with truck and auto fuel pumps and canopies and a truck scale, and two (2)- 3,000 to 4,000 SF drive-thru restaurant structures.

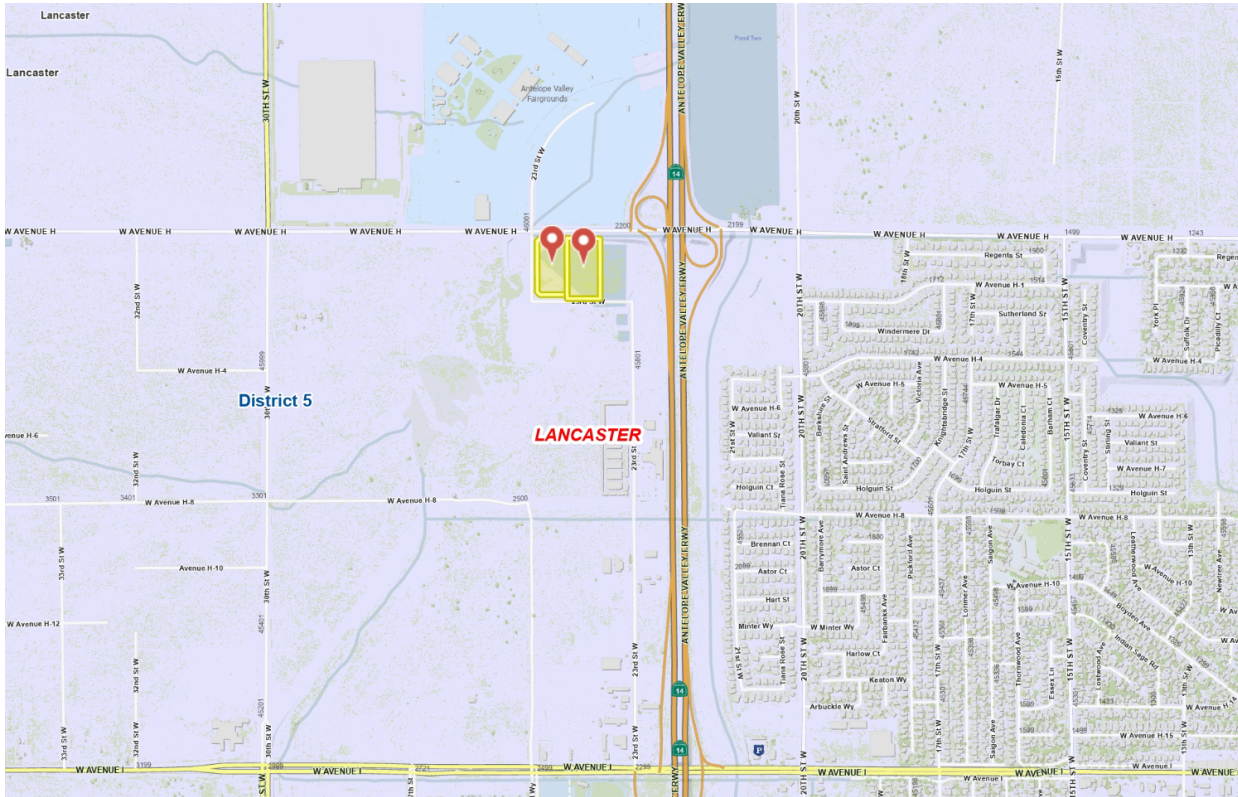
The proposed development also includes auto parking spaces, truck parking spaces, an eight (8) lane diesel fuel pumps, and above and below ground fuel storage tanks and trash enclosure.

We anticipate typical wood- or light gauge steel stud framing with conventional concrete continuous and isolated foundations and slab-on-grade floors for the structures and deep concrete cast-in-drilled-hole (CIDH) foundation for the canopies. No basements are planned. We anticipate maximum structural loads of 2,000 pounds per lineal foot and 40 kips for deep CIDH foundations.

Exterior improvements are anticipated to include concrete flatwork, landscape and hardscape areas, and asphalt-concrete and concrete pavement drive areas, as well as off-site roadway improvements with curb & gutter and sidewalks. It is anticipated that the drainage will consist of sloped surfaces to drainage swales, a box culvert along Avenue H to an approved area. The proposed structures will be connected to a public sewer system and existing utilities lines from the street.

Vicinity Map

N.T.S



= Denotes approximate parcel boundary



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Figure 1

Due to the relatively flat topography, it appears the proposed earthwork will be minimal and consist of conventional cut and fill methods to grade the Site. However, the Site is located within a flood zone and it appears that imported soil will be necessary to raise site grades. Anticipated maximum slope heights of approximately one to three (1-3) feet are anticipated to achieve design grades.

4.0 DOCUMENT REVIEW

Based on the site location, a review of the California Department of Conservation Seismic Hazard Zone Report for the Lancaster West 7.5-Minute Quadrangle (2005) was utilized for the liquefaction analysis. Historic documents were also accessed for research, including the United States Geologic Survey Topographic Map of Lancaster West Quadrangle, California, Los Angeles Co., 7.5 Minute Series (1974).

California Geological Survey Seismic Hazard Report for Lancaster West 7.5 Minute Quadrangle (2005)

Saturation is required for liquefaction, and the liquefaction susceptibility of a soil varies with the depth to ground water. Very shallow ground water increases the susceptibility to liquefaction (soil is more likely to liquefy). Soils that lack resistance (susceptible soils) typically are saturated, loose and sandy. Soils resistant to liquefaction include all soil types that are dry, cohesive, or sufficiently dense.

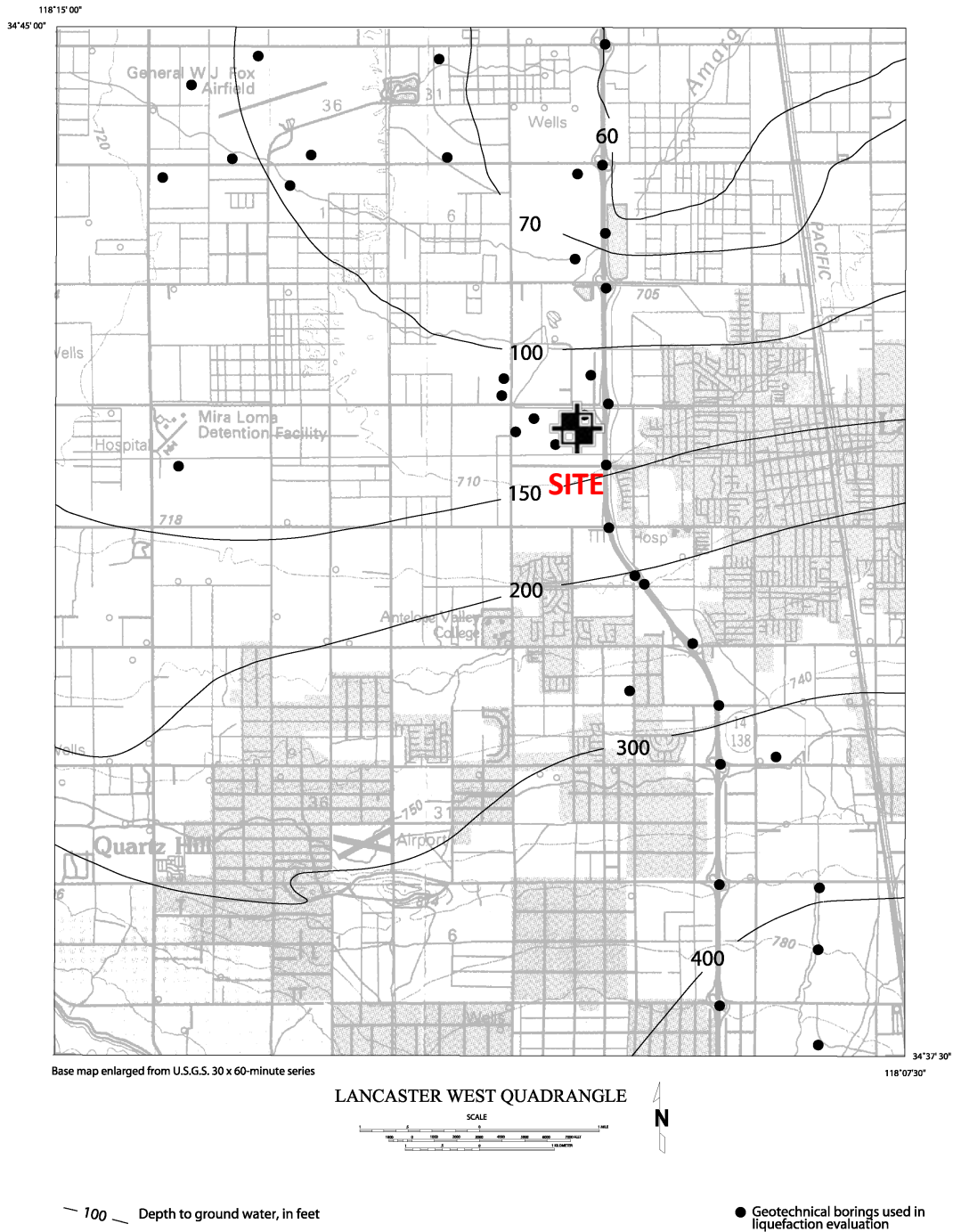
Depth to groundwater is analyzed in the referenced Lancaster West Seismic Hazard Report. Areas most susceptible to liquefaction include the units listed in the table below along with groundwater shallower than forty (40) feet. During an earthquake, dramatic fluctuations in groundwater may occur. Due to human activities (farming, water pumping, etc.) and natural processes, the groundwater level during an earthquake event is unpredictable.

For these reasons, the maximum historic groundwater level was used for evaluating liquefaction potential. Figure 2a shows the project location in respect to Plate 1.2 from the referenced Seismic Hazards Report (2005). The historic high groundwater was estimated to be one hundred to one-hundred fifty (100-150) feet.

Based on review of the USGS Topographic Map (1974), the previous presence of a pond was identified on the Site, covering the entire east portion of the site and extending to the northwest. Figure 2b shows the location of the pond in relation to the Site. Based on the current level site condition, it appears that the pond was backfilled and the site was graded to its current elevation.

Groundwater Map

N.T.S.



Project

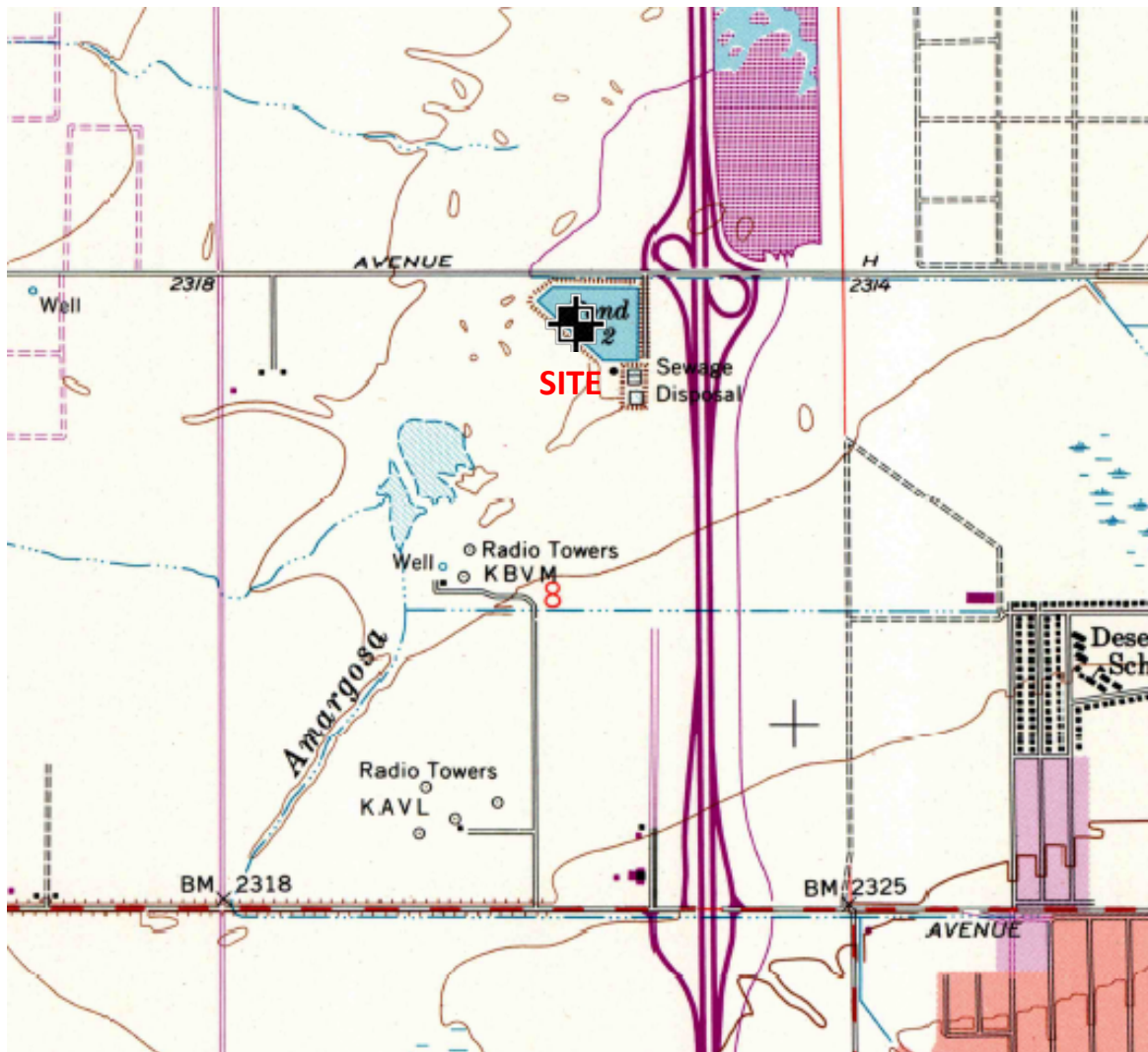
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Figure 2a

Groundwater Map

N.T.S.



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Figure 2b

Geologic units that are likely to liquefy include alluvial and fluvial sedimentary deposits and artificial fill with deposits containing saturated and loose sandy and silty soils being the most susceptible. Table 1.2 from the report showing Liquefaction Susceptibility is presented below.

Geologic Map Unit	Material Type	Consistency	Age	Liquefaction Susceptibility*
stream channel, wash (Qsc)	medium to coarse sand and gravel	very loose	latest Holocene	high
sand dune (Qsd)	sand	very loose	Holocene & late Pleistocene	high
overbank, sheet flood (Q7)	sand, gravel, & silt	Loose	Holocene & late Pleistocene	high
alluvial fan, overbank, sheet flood (Q6)	sand, gravel, & silt	loose to dense	Holocene & late Pleistocene	high to moderate
alluvial fan w/ secondary carbonate (Quca)	sand and silt w/ up to 10' thick zone of calcium carbonate cement	loose to very dense	Holocene & late Pleistocene	high to low
playa deposits (Qpl)	sand, silt, clay	loose to dense	Holocene & late Pleistocene	high to low
alluvial fan (Q4)	gravel, sand, silt, clay	Dense	Pleistocene	low
alluvial fan (Q3)	gravel, sand, silt, clay	Dense	Pleistocene	low

*when saturated

Table 1.2 Quaternary Map Units used in the Lancaster West 7.5-Minute Quadrangle and Their Geotechnical Characteristics and Liquefaction Susceptibility (excerpt from CGS Seismic Hazards Report 2005).

The Subject Site is mapped within the quadrangle with units described as Quaternary playa deposits (Qpl), which are defined as compact lacustrine silt and clay with minor loose well-sorted sand and fine gravel, with units in the Lancaster West Quadrangle deposits containing significant amounts of loose sand and silt. In the Lancaster West Quadrangle, the presence of calcium carbonate is usually limited to a zone extending between five (5) and fifteen (15) feet in depth.

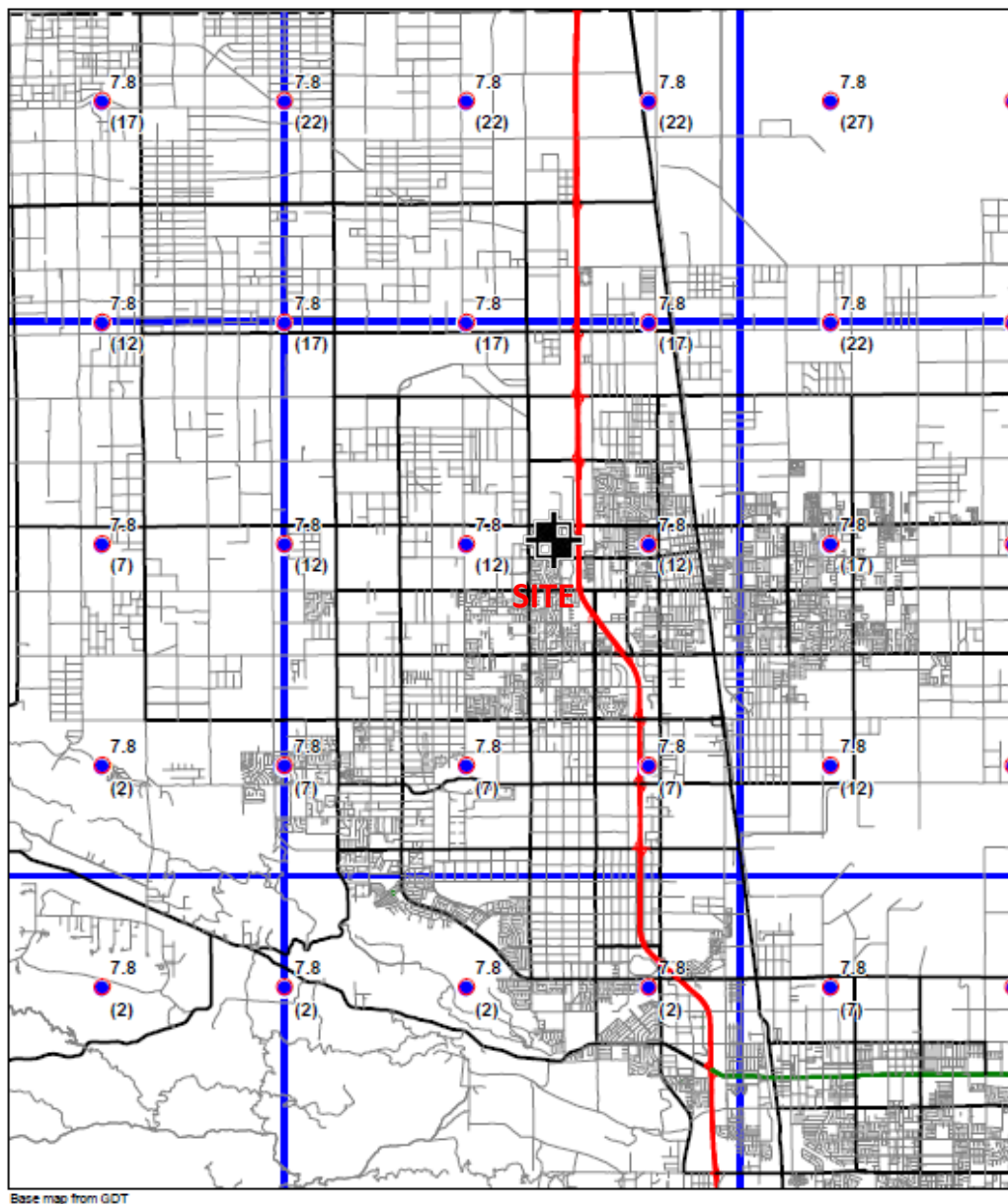
Figure 3 shows the project location in respect to Figure 3.4 in the referenced Seismic Hazards Report (2005). The magnitude of the “predominant earthquake” in respect to the alluvial site conditions is 7.8 M_w . A more accurate magnitude using the USGS Unified Hazard tool (<https://earthquake.usgs.gov/hazards/interactive/>) is discussed in the Methodology section of this report.

There was no evidence found of documented historical liquefaction or paleoseismic liquefaction in the Lancaster West 7.5 Minute Quadrangle in the CGS Seismic Hazard report (2005).

5.0 GEOTECHNICAL INVESTIGATION

Earthquake Magnitude Map

N.T.S.



Base Map - Figure 3.4 Department of Conservation California Geological Survey - Seismic Hazard Evaluation Report



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Figure 3

The geotechnical investigation included a field subsurface exploration program and a laboratory testing program on soil samples collected. These programs were performed in accordance with our proposal for Geotechnical Investigation Report dated January 22, 2025. The scope of work did not include environmental assessment or investigation for the presence or absence of hazardous substances or toxic materials in structures, soil, surface water, groundwater, or air, below or around the site. The field subsurface exploration and laboratory testing programs are described below.

5.1 Field Exploration Program

A site reconnaissance was made by our representative prior to instigating the field exploration program. The Site was observed, and boundaries roughly located for purposes of underground utility locating. As required by law, Bruin GSI contacted Underground Service Alert (one-call notification service) to attain underground utility marking and clearance, a minimum of 72 hours prior to performing the field subsurface investigation.

The field exploration program was initiated on February 21, 2022, under the technical supervision of our engineer. A total of nine (9) exploratory borings were drilled using a CME 75 drill rig with eight (8) inch hollow stem auger in accordance with generally accepted geotechnical exploration procedures (ASTM D 1452). The borings were advanced to maximum depths of fifty (50) feet below ground surface (bgs). The approximate locations of the borings within the area of the proposed construction were determined by sighting and pacing from existing site improvements, such as streets, and should be only considered accurate to the degree implied by the method used. The borings locations are shown on Figure 4.

Soil samples were obtained at various depth intervals, consisting of relatively undisturbed brass ring samples (Modified California split-spoon sampler) and Standard Penetration Test (SPT) samples driven by a 140-pound hammer falling 30 inches. After seating of the sampler, the number of blows required to drive the sampler one foot was recorded in six (6) inch increments, in general accordance with procedures presented in ASTM D 1586.

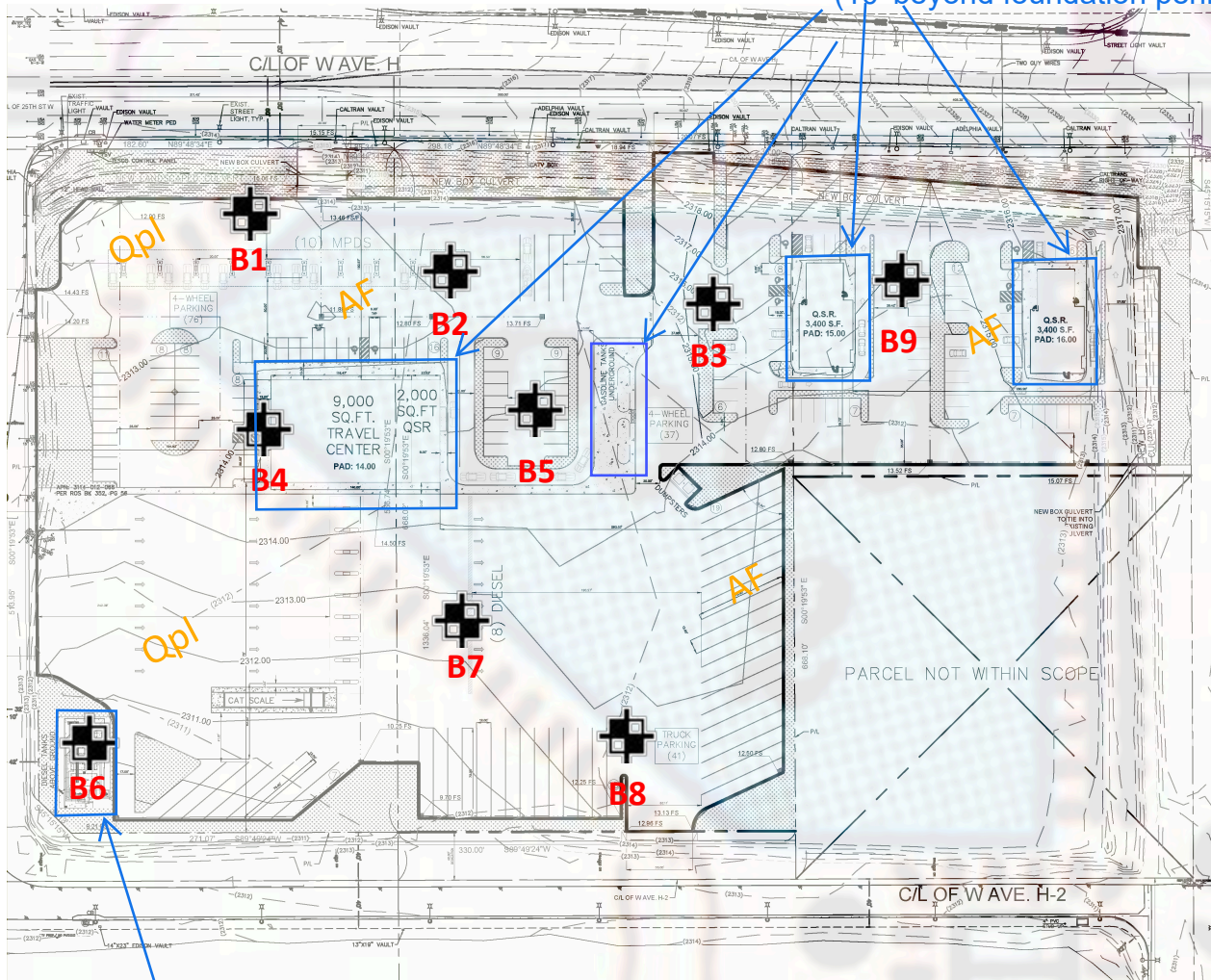
Bulk samples were also collected at various depths from auger cuttings during drilling and represent a mixture of soils within the noted depths. The soil samples were returned to the laboratory for analysis and testing.

Final boring logs presented in Appendix A are Bruin GSI's interpretation of the field logs prepared by our representative during drilling, as well as laboratory test results. The stratification lines represent approximate boundaries between soil types. The actual soil transitions may be gradual.

Geotechnical and

N.T.S.

Limits of Over-Ex, 13' bgs,
(10' beyond foundation perimeter)



Limits of Over-Ex, 5' bgs,
(5' beyond foundation perimeter)



B1

= Denotes Approximate Boring Location

Qpl = Quaternary Playa Deposits

AF = Artificial Fill



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Figure 4

5.2 Site and Subsurface Conditions

Quaternary playa deposits (Qpl), silts, clays with sands, and artificial fill materials were encountered within our exploratory borings. The materials encountered were noted to be slightly moist to moist and medium dense to dense. The soil strata encountered consisted primarily of sandy silt (ML), clay (CL), clayey sand (SC), and occasional poorly graded sands (SP). The artificial fill ranged from ten to thirteen (10-13) feet bgs. For more detailed descriptions of the subsurface materials refer to the excavation logs in Appendix A.

5.3 Groundwater Conditions

Groundwater was not encountered in any of our exploratory borings, at least to the maximum depth explored (50 feet bgs). Bruin GSI reviewed available reports and electronic data bases to assess historic water level conditions in the vicinity of the Site. Sources reviewed included the historically highest groundwater contours prepared by State of California Department of Water Resources SGMA electronic database and the Lancaster West 7.5-Minute Quadrangle report, historically highest groundwater levels in the immediate site vicinity indicate that groundwater level at the site are over 100 feet bgs, which is shown on Figure 2a. Based on this information, groundwater is not a design factor for this project.

5.4 Laboratory Testing

The field boring logs and soil samples were reviewed to assess which samples would be analyzed further. The selected soil samples collected during trenching activities at the Site were then tested in the laboratory to assist in evaluating engineering properties of subsurface materials deemed within structural influence.

The soil samples were classified in accordance with the Unified Soils Classification System and a testing program was established. The samples were tested to determine the following:

- In-situ moisture and dry unit weight determinations were determined in accordance with ASTM D 2937.
- Relative strength characteristics were estimated from results of direct shear tests (ASTM D 3080) performed on bulk soil samples remolded to approximately 90% of the maximum dry density as determined by ASTM D 1557 test method.

- Consolidation potential was determined on select soil samples in accordance with ASTM D 2435.
- Soil chemical analysis on a soil sample from the site was performed by Anaheim Test Lab, which included pH, resistivity, soluble sulfates and soluble chlorides as well as other chemical contents.

The following additional tests were performed:

- | | |
|---|-------------|
| • Identification of soils | ASTM D 2488 |
| • Expansion Index | ASTM D 4829 |
| • Maximum density – Optimum moisture | ASTM D 1557 |
| • Material Finer than the No. 200 Sieve | ASTM D 1140 |
| • Sand Equivalent Value | ASTM D 2419 |

Pertinent tabular and graphic test results are presented in Appendix B.

5.5 Soil Engineering Properties

Physical tests were performed on the bulk and relatively undisturbed samples to characterize the engineering properties of the native soils.

Moisture content and dry unit weight determinations were performed on samples to evaluate the in-situ unit weights of the different materials. Moisture contents were generally two to thirty-eight (2-38) percent. In-place dry densities ranged generally 71 pounds per cubic foot (pcf) to 116 pcf. Moisture content and dry unit weight results are shown on the excavation logs in Appendix A.

The expansion index tests (ASTM D 4829) indicate that the surficial soils are within the “very low” to “medium” expansion category.

Consolidation test results reveal that some samples tested in the upper five to six (5-6) feet of soil has a moderate potential to hydro-consolidate.

Artificial fill was encountered at depths up to fourteen (14) feet below ground surface. The artificial fill was non-uniform in density.

6.0 REGIONAL GEOLOGY AND SEISMIC HAZARDS

The project site is located in a seismically active area typical of Southern California and likely to be subjected to a strong ground shaking due to earthquakes on nearby faults.

The San Andreas Fault zone is the largest active fault rift zone, which is several miles wide, and passes through the Antelope Valley, extending from the Gulf of Mexico through the western portion of the State of California to a point at Cape Mendocino in northern California. The San Andreas Fault is predicted to have an event every 100-200 years based on geologic records. The San Andreas Fault has had two major eruptions in the last 150 years: 1) in the Southern California area in 1857, and 2) in San Francisco in 1906. In each event, approximately 320 kilometers of surface rupture has taken place, as well as a horizontal displacement of approximately 9 meters. Additional faulting has occurred adjacent to the San Andreas Fault causing numerous events of various magnitudes throughout the length of the San Andreas Fault.

The project site is located in an area in which active seismic occurrences are recorded on a yearly basis. Seismic studies conducted show a major break along the San Andreas Fault could be responsible for an event of approximately 8.4 on the Richter scale. A seismic event of this magnitude could cause bedrock accelerations as large as 0.5g. Events of this magnitude are anticipated to occur approximately every 150 years. The last occurrence of this magnitude was in 1857.

No known active faults have been mapped across the subject site. The potential hazards due to active fault ground rupture are considered minimal. According to current publications by the State of California, the project site is not located within the Alquist-Priolo special studies zone.

According to the California Department of Conservation (CGS) and California Geological Survey (CGS) online database for Zones of Required Investigation, this parcel is not located within a Liquefaction, Landslide, or Earthquake Zone.

6.1 CBC Design Parameters

The future structures should be designed by the structural engineer in accordance with the applicable seismic building code. Based on our geotechnical investigation, the subject site is classified as **Site Class D** in accordance with the 2022 California Building Code that refers to ASCE 7-16.

According to ASCE 7-16, Supplement 3, Section 11.4.8, for structures on Sites Class D site with S_1 greater than or equal to 0.2, the parameter S_{M1} determined by equation (11.4-2) shall be increased by 50%.

The design spectral response acceleration parameters presented on the following table generated by ASCE 7 Hazard Tool (<https://ascehazardtool.org>), may be utilized for seismic design:

Latitude: 34.717066°

Longitude: -118.174678°

Spectral Response Acceleration, Short Period - S_s	1.5g	0.2(sec)
Spectral Response Acceleration at 1 sec. - S_1	0.6g	1.0(sec)
Mapped Spectral Response, Short period - S_{Ds}	1.0g	0.2(sec)
Mapped Spectral Response at 1 sec. - S_{D1}	*	1.0(sec)
Site Coefficient – F_A	1.0	
Site Coefficient – F_V	*	
Site Modified Spectral Response Acceleration, Short period - S_{MS}	1.5g	
Site Modified Spectral Response Acceleration, Short period - S_{M1}	*	

Site modified peak ground acceleration $PGA_M = 0.604$ g

Long-period transition period $T_L = 12$ second

Seismic Design Category = D - Stiff Soil

It should be recognized that much of southern California is subject to some level of damaging ground shaking as a result of movement along the major active (and potentially active) fault zones that characterize this region. Design utilizing the 2022 CBC is not meant to completely protect against damage or loss of function. Therefore, the preceding parameters should be considered as minimum design criteria.

*The actual method of seismic design should be determined by the Structural Engineer in accordance with Section 11.4.8 Site-Specific Ground Motion Procedures of the ASCE 7-16. Refer to Appendix C for the Design Maps Summary Report provided by the American Society of Civil Engineers Hazard Tool website.

6.2 Other Secondary Seismic Hazards

Seismic hazards relative to earthquakes include landslides, ground lurching, tsunamis, seiches and seismic-induced settlement. As site topography is relatively flat, hazards from landslides are considered negligible. Ground lurching is generally associated with fault rupture and liquefaction. As these hazards are considered unlikely, it is Bruin GSI's opinion that the potential for ground lurching is low. Tsunami hazards are considered nonexistent due to the site location.

6.3 Soil Settlement

Differential soil settlement occurs when supporting soils are not uniform in density or classification and seismic shaking causes one type of soil to settle more than the other. When unaccounted for in design, such settlement can result in damage to structures, pavement, and subsurface utilities. Soils with potential for hydro-consolidation can also cause differential settlement under loading conditions and the induction of moisture.

Re-compaction of the upper site soils is intended to remedy most potentials of settlement due to structures supported on native soils with non-uniform densities, soil classifications and hydro-consolidation.

Settlement of structures founded on compacted fill will be relatively small, less than one (1) inch. Differential settlement is anticipated to be on the order of 50% of the total settlement in a thirty (30) foot span. Most settlement should take place during construction.

6.4 Erosion

The subject site drainage occurs by minor sheet flow and erosion could occur. Appropriate analysis, grading and drainage design and site maintenance should minimize the sheet flow erosion potential.

6.5 Flood Hazard

Bruin GSI reviewed available data regarding the flood potential at the subject site. Based on our FEMA database research, a portion of the project site is located on map number 06037C0845F, panel 845 of 2204. Review of panels indicates the southern portion of the subject site (driveway approach) lies within the following Flood Zone:

Zone AH

Area inundated by the Base Flood with flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.

Refer to Figure 5 for approximate location of the flood zone.

7.0 LIQUEFACTION ANALYSIS

Flood Zone Map

N.T.S.



= Approximate site boundary



Project:

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Figure 5

Liquefaction is a seismic phenomenon in which loose, saturated, granular (non-cohesive) soils react as a fluid when subject to high-intensity ground shaking. Research and historical data indicate loose granular soils with a specific range of grain size distribution, saturated by a relatively shallow groundwater table are most susceptible to liquefaction.

The effects of liquefaction on level ground include settlement, sand boils and bearing capacity failures below structures.

The liquefaction analysis was performed in accordance with the Los Angeles County Liquefaction Analysis Guidelines (P/BC 2020-151). Based on the Seismic Design Maps discussed in the previous section, the Geometric Mean Peak Ground Acceleration (PGA_m) was determined to be 0.604g for a site Class D (Stiff Soil). A summary of these reports is presented in Appendix D. Ground motions used to evaluate liquefaction were obtained based on methods prescribed in the 2020 LABC.

The liquefaction potential of the subsurface materials was evaluated using CivilTech LiquefyPro Software. This software uses the Yoshimine et al (2006) method for settlement analysis and the Stark and Olsen (1995) method for liquefaction.

Parameters used for the software were gathered from the subsurface investigation, CGS Seismic Hazard Zone Report for the Lancaster 7.5-Minute Quadrangle (2005), and online research.

The data used is presented in Boring 6 of the boring logs in Appendix A, and utilizing an historic groundwater depth of 100 feet below ground surface, per the CGS Lancaster 7.5-Minute Quadrangle report (2005).

7.1 Two-Thirds PGA_m Analysis

In accordance with the methods described in the 2020 LABC, two-thirds (2/3) of the PGA_m (where $2/3 \text{ } PGA_m = 0.402$) was used for the liquefaction analysis. Using the site class and location on USGS Unified Hazard tool (<https://earthquake.usgs.gov/hazards/interactive/>) for a 475-year return period, the mean earthquake magnitude of 7.8 located at a distance of approximately 7.5km (4.66 miles) was determined and used for the liquefaction analysis.

Liquefaction Analysis Data for two-thirds PGA_m is presented in Appendix E.

7.2 Full PGA_m Analysis

In accordance with the methods described in the 2020 LABC, the full PGA_m (where PGA_m is 0.604) was used for the liquefaction analysis in addition to the two-thirds

method. Using the site class and location on USGS Unified Hazard tool (<https://earthquake.usgs.gov/hazards/interactive/>) for a 2475-year return period, the mean earthquake magnitude of 7.8 located at a distance of approximately 7.65km (4.75 miles) was determined and used for the liquefaction analysis.

Liquefaction Analysis for full PGA_m is presented in Appendix F.

8.0 FINAL ANALYSIS

Two-Thirds PGA_M

In accordance with the methodology and information above, a site peak ground acceleration of two-thirds (2/3) PGA_M (where $2/3 \text{ } PGA_M = 0.402$) and an earthquake magnitude of 7.80 M_w were used to evaluate liquefaction potential. A 1.3 factor of safety was utilized in this analysis.

The potential for seismically induced liquefaction of soils for the full soil column height (50 feet) was calculated and settlement is estimated to be 0.07 inches.

Full PGA_M

In accordance with the methodology and information above, a site peak ground acceleration of PGA_M (where $PGA_M = 0.604$) and an earthquake magnitude of 7.80 M_w were used to evaluate liquefaction potential. A 1.3 factor of safety was utilized in this analysis.

The potential for seismically induced liquefaction of soils for the full soil column height (50 feet) was calculated and settlement is estimated to be 0.21 inches.

Due to the generally flat site topography and negligible liquefaction result, it is our opinion that there is a negligible potential for lateral spreading, subsidence, and collapsing and will not be factors for the proposed development.

9.0 111 STATEMENT

Subsequent to compliance with the recommendations provided in this report and based on the site reconnaissance, subsurface exploration, and laboratory analysis, it is our opinion the proposed structures will be safe from hazards associated with landslides, slippage, and settlement. The proposed development will not adversely impact the existing geotechnical stability of adjacent sites.

10.0 EFFECT OF PROPOSED GRADING ON ADJACENT PROPERTIES

It is our opinion that the proposed grading and construction will not adversely affect the stability of adjoining properties provided that grading and construction are performed in compliance with the recommendations presented herein.

11.0 OPINIONS AND CONCLUSIONS

Based upon the results of our investigation and liquefaction analysis, the proposed development is considered feasible from a geotechnical standpoint, and it is our professional opinion that the seismically induced settlement (liquefaction) is minimal and should not adversely affect the proposed structure, provided the recommendations presented herein are incorporated into the design and construction. If changes in the design of the structure are made or variations of changed conditions are encountered during construction, Bruin GSI should be contacted to evaluate their effects on these recommendations.

The upper five to six (5-6) feet of soil were found to be non-uniform with some areas of the site soils subject to hydro-consolidation. Artificial fill encountered is non-uniform in density, with some areas below standard compaction requirements of 90% relative compaction. Based on the laboratory testing and subsurface data obtained, it is Bruin GSI's opinion that the upper site soils will not provide a uniform soil support system without remediation through re-compaction. In order to provide a more uniform soil support system and minimize the potential for differential settlement, the proposed structures should be supported by a re-compacted fill mat.

Provided that the recommendations in this report are incorporated into the design and construction, it is Bruin GSI's opinion that conventional shallow (continuous and isolated) foundations and concrete cast-in-drilled-hole (CIDH) may be designed to support the proposed structure and canopies. Refer to Section 13.2 for details and soil values regarding foundation design.

As an alternative to completely removing the undocumented fill from pavement areas and exterior slabs outside the building pad limits defined in this report, the client may choose to accept a higher risk of settlement and distress in these areas. In that case, after clearing and grubbing, new pavement areas, exterior slabs-on-grade outside the building pad limits, or new fill should be over-excavated to a depth of at least 3 feet below the existing site grade. However, this over-excavation will not eliminate all artificial fill, so there remains a heightened risk of damage due to potential differential settlement.

12.0 GEOTECHNICAL RECOMMENDATIONS

The following geotechnical engineering recommendations for the proposed development are based on observations from the field investigation program and the laboratory test results and our experience with sites of similar conditions.

The local Department of Building and Safety should be contacted prior to start of construction to assure the project is properly permitted and inspected during construction. Any grading performed at the site shall be in compliance with the recommendations provided in this report, the local building code and the Earthwork and Grading Specifications for Rough Grading presented in Appendix G.

Field observations and testing during rough-grading operations should be provided by Bruin GSI so a decision can be formed regarding the adequacy of the site preparation, the acceptability of fill materials, and the extent to which the earthwork construction and the degree of compaction comply with the project geotechnical specifications. **Any work related to grading performed without the full knowledge of, and under the supervision of the Geotechnical Consultant, may render the recommendations of this report invalid.**

12.1 Earthwork

Prior to any grading, the site should be cleared and grubbed of all vegetation. All pavements, vegetation, trash, debris and abandoned underground utilities shall be removed from the area to be graded and should not be incorporated into engineered fill.

Any depressions resulting from removals during grubbing process (trees etc.) shall be observed by the Geotechnical Consultant. Depressions requiring backfill within structural areas will require placement of engineered fill, observed, and tested by the Geotechnical Consultant.

It is our professional opinion that the grading of the site can be performed with conventional earth-moving equipment.

12.2 Remedial Grading for Building Pad

To provide a more uniform bearing for the proposed structure foundations and slab-on-grade, subsequent to clearing and grubbing of the area to be graded, the existing native soils shall be excavated to a depth of thirteen (13) feet below existing grade or finish grade, whichever is lower. The excavation shall extend a minimum of ten (10) feet beyond the limits of the proposed foundations, where obtainable. Observation and approval of the over-excavation by the Geotechnical Consultant is required prior to any fill placement.

The Geotechnical Consultant shall inspect the resulting surfaces prior to scarification and fill placement. The intent of this recommendation is to remove the artificial fill within the structure support areas. Additional removals may be required at the time of grading.

Subsequent to approval of the resulting surface by the Geotechnical Consultant, the resulting soil surface shall be scarified (ripped) an additional six (6) inches, properly moisture conditioned or aerated to minimum of 2% over optimum moisture content, and mechanically compacted with heavy compaction equipment to 90% relative compaction as determined by ASTM D 1557 test method. **Compaction shall be verified by testing.**

12.3 Remedial Grading for Above Ground Tanks

Subsequent to clearing and grubbing the area to be graded, the existing native soils shall be excavated a minimum of five (5) feet below existing grade or finish grade, whichever is lower.

A minimum of two (2) feet of compacted fill is required beneath the storage tanks.

Subsequent to approval of the resulting surface by the Geotechnical Consultant, the resulting soil surface shall be scarified (ripped) an additional six (6) inches, properly moisture conditioned or aerated to minimum of 2% over optimum moisture content, and mechanically compacted with heavy compaction equipment to 90% relative compaction as determined by ASTM D 1557 test method. **Compaction shall be verified by testing.**

12.4 Remedial Grading for Below Ground Tanks

Subsequent to clearing and grubbing the area to be graded, the existing native soils shall be excavated a minimum of thirteen (13) feet below existing grade or finish grade, whichever is lower.

A minimum of two (2) feet of compacted fill is required beneath the storage tanks.

Subsequent to approval of the resulting surface by the Geotechnical Consultant, the resulting soil surface shall be scarified (ripped) an additional six (6) inches, properly moisture conditioned or aerated to minimum of 2% over optimum moisture content, and mechanically compacted with heavy compaction equipment to 90% relative compaction as determined by ASTM D 1557 test method. **Compaction shall be verified by testing.**

12.5 Remedial Grading for Flexible (Asphalt-Concrete) and Rigid (PCC) Pavement

Note: that this recommendation is based on an acceptance by the client to choose to accept a higher risk of settlement and distress in these areas and indicated in Section 11.0.

Subsequent to clearing and grubbing the area to be graded, the existing native soils shall be excavated thirty-six (36) inches below existing grade or finish grade, whichever is lower. The exposed surface shall be scarified (ripped) an additional six (6) inches. The excavation shall extend a minimum of three (3) feet beyond the limits of the proposed pavement, where obtainable. The Geotechnical Consultant shall inspect the resulting surfaces prior to fill placement.

Subsequent to approval of the resulting surface by the Geotechnical Consultant, the resulting soil surface shall be properly moisture conditioned or aerated to a minimum of 2% over optimum moisture content, and mechanically compacted with heavy compaction equipment to 90% relative compaction (95% relative compaction beneath proposed PCC pavement in the upper twelve inches) as determined by ASTM D 1557 test method. **Compaction shall be verified by testing.**

12.6 Remedial Grading and Exterior Non-Traffic Bearing Concrete Flatwork (Sidewalks, Patios, Walkways, etc.) and Lightly Loaded Structures (Site walls and Trash Enclosures)

Subsequent to clearing and grubbing the area to be graded, the existing native soils shall be excavated thirty six (36) inches below existing grade or finish grade, whichever is lower. The exposed surface shall be scarified (ripped) an additional six (6) inches. The excavation shall extend a minimum of two (2) feet beyond the limits of the proposed flatwork, were obtainable. The Geotechnical Consultant shall inspect the resulting surfaces prior to fill placement.

Subsequent to approval of the resulting surface by the Geotechnical Consultant, the resulting soil surface shall be properly moisture conditioned or aerated to 2% over optimum moisture content, and mechanically compacted with mechanical compaction equipment to 90% relative compaction as determined by ASTM D 1557 test method. **Compaction shall be verified by testing.**

12.7 Fill Placement and Compaction Requirements

The excavated native soils may be used as engineered fill to backfill the excavation. Materials for engineered fill should be free of organic material, debris, and other

deleterious substances, and should not contain rocks greater than eight (8) inches in maximum dimension.

If wet, unstable soils are encountered and cannot be stabilized through drying, a layer of crushed stone (approximately 12 to 18 inches thick, composed of 1½-inch aggregate) wrapped in a geotextile fabric (Mirafi 500X or equal) should be used to stabilize the base. Where moisture levels are suitable, the exposed surface should be scarified, conditioned to about minimum 2% over above optimum moisture, and compacted.

It should be noted that the above preparation method may also be applied to spread footings beneath new fuel canopy areas. However, given the extent of fill removal required in these areas, drilled pier foundations may be a more effective solution.

All native soil shall be moisture conditioned or air dried as necessary to achieve minimum 2% over optimum moisture condition, placed in lifts (eight to ten inches, measured loose) and then compacted in place by mechanical compaction equipment to a minimum relative compaction of 90% as determined in accordance with Test Method ASTM D 1557.

All import soil fill (meeting the requirements of Section 10.8) should be placed in eight-inch-thick maximum lifts measured loose, moisture conditioned or air dried as necessary to near optimum moisture condition, and then compacted in place to a minimum relative compaction of 90% as determined in accordance with Test Method ASTM D 1557.

A representative of the project consultant should be present on-site during grading operations to verify proper placement and compaction of all fill, as well as to verify compliance with the other geotechnical recommendations presented herein.

12.8 Native Soil Shrinkage

A shrinkage factor of the upper site soils is estimated at four to eight to thirteen (8-13) percent. This estimate is based on the limited data collected from the subsurface exploration and laboratory test data with an average degree of compaction of 92% and may vary depending on contractor methods.

During compaction, an additional one-quarter of an inch (1/4") subsidence of the underlying soil is estimated. Losses from site clearing and grubbing operations may

effect quantity calculations and should be taken into account. Actual shrinkage of the soil may vary.

We recommend monitoring the rough grading excavations by survey with comparison to grading contractor earthwork yardage estimates to determine a closer estimate of actual shrinkage so adjustments (if necessary) may be made during grading.

12.9 Fill Slope Construction and Stability

Provided all material is properly compacted as recommended, fill slopes may be constructed at a 2:1 (horizontal to vertical) gradient or flatter. Permanent cut slopes may be constructed at 2:1 or flatter. Fill slopes constructed as recommended at a slope ratio not exceeding 2:1 (horizontal: vertical), are expected to be both grossly and surficially stable and are expected to remain so under normal conditions.

Proper drainage should be planned so water is not allowed to flow over the tops of slopes. The slopes should be planted as soon as possible to minimize erosion and maintenance.

If slopes are planned steeper than 2:1, the Geotechnical Consultant shall be notified for slope stability determinations.

12.10 Imported Soils

If imported soils are required to complete the planned grading, these soils shall be free of organic matter and deleterious substances, meeting the following criteria:

- 100% passing a 2-inch sieve
- 60% to 100% passing the #4 sieve
- no more than 20% passing a #200 sieve
- expansion index less than 20
- liquid limit less than 35
- plasticity index less than 12
- R-value greater than 40
- Low corrosion potential
 - Soluble Sulfates less than 1,500 ppm
 - Soluble Chlorides less than 150 ppm
 - Minimum Resistivity greater than 8,000 ohm-cm

Prospective import soils should be observed, tested and pre-approved by this firm prior to importing the soils to the site. Final approval of the import soil will be given

once the material is on site either in place or adequate quantities to finish the grading.

12.11 Grading Observations and Testing

The grading of the site shall be observed and tested by the Geotechnical Consultant to verify compliance with the recommendations. Any grading performed without full knowledge of the Geotechnical Consultant may render the recommendations of this report invalid.

13.0 POST-GRADING AND DESIGN CONSIDERATIONS

13.1 Pad Drainage

A surface drainage system consisting of a combination of sloped concrete flatwork, swales and sheet flow gradients in landscape areas, and roof gutters and downspouts should be designed for the site. The roof gutters and downspouts should also be tied directly into the proposed area drain system. Drainage from structures should be designed at minimum 5% gradient to approved areas. The purpose of this drainage system will be to reduce water infiltration into the subgrade soils and to direct surface waters away from building foundations, walls and slope areas.

Concrete flatwork surfaces and paved sloped surfaces should be inclined at a minimum gradient of 2% away from the building foundations and similar structures. A minimum twelve-inch-high berm should be maintained along the top of the descending slope to prevent any water from flowing over the slope.

The owner is advised that all irrigation and drainage devices should be properly maintained throughout the lifetime of the development.

13.2 Site Drainage

It is recommended to avoid placing landscaped areas, including planters, directly adjacent to building foundations or interior slabs-on-grade. Trees should be setback a minimum of 10 feet away from any structures, or at a distance equal to the radius of the mature tree's canopy—whichever is greater. For instance, a tree with an expected canopy diameter of 30 feet should be planted no closer than 15 feet from the structure.

After construction, landscaping should be designed to promote positive drainage, ensuring that both rainfall and irrigation runoff flow away from all structures. Irrigation systems should be carefully installed and maintained to prevent leaks, which could lead to moisture-related issues near the building.

For water efficiency and to limit moisture infiltration near structures, landscaped areas should utilize low-flow irrigation systems, such as drip lines, bubblers, or fine mist emitters. The use of drought-tolerant or low-water-use plants is strongly encouraged.

Although the project is not expected to incorporate stormwater infiltration systems due to the site's low soil permeability and limited depth of permeable layers, any future consideration of such systems—including bioswales, dry wells, or similar features—should be reviewed by the Geotechnical Consultant prior to installation. If stormwater systems that concentrate runoff into the ground are proposed, they should be located no closer than 20 feet from building foundations unless they are completely sealed with an impermeable liner to prevent water migration toward the structures.

13.3 Foundation Design Recommendations

The proposed structure shall be constructed on a conventional concrete foundation system and concrete cast-in-drilled holes foundations. Provided the recommendations in this report are incorporated into site development, foundation for load bearing walls and interior columns constructed on compacted certified fill may be designed as follows:

13.3.1 Allowable Bearing Capacity

Continuous Foundations Design Values: An allowable “net” bearing capacity of 2,000 psf. can be utilized for dead and sustained live loads. This value includes a minimum safety factor of three (3) and may be increased by one-third (1/3) for total loads, including seismic forces.

Continuous foundations should be embedded a minimum of twenty-four (24) inches below lowest adjacent soil elevation and be a minimum of fifteen (15) inches in width. Reinforcement shall consist of a minimum of two (2) No. 4 bars, one (1) top and one (1) bottom. Actual depth, width, and reinforcement requirements for continuous foundations will be dependent on the Expansion Index of the bearing soils, applicable sections of the governing building code and requirements of the structural engineer.

The allowable bearing capacity for continuous foundations may be increased by 200 psf. for each additional six (6) inches of foundation depth and 150 psf for each additional one foot of foundation width. The allowable bearing capacity should not exceed 2,500 psf for continuous foundations to keep estimated settlements within allowable limits.

Isolated Pad (Column or Pier) Foundations Design Values: An allowable “net” bearing capacity of 2,000 psf. can be utilized for dead and sustained live loads. This value includes a minimum safety factor of three (3) and may be increased by one-third (1/3) for total loads, including seismic forces.

Isolated foundations should be a minimum of twenty-four (24) inches square and embedded a minimum of twenty-four (24) inches below lowest adjacent soil elevation. Actual depth, width, and reinforcement requirements for isolated foundations will be dependent on the Expansion Index of the bearing soil, applicable sections of the governing building code and requirements of the structural engineer.

The allowable bearing capacity for continuous foundations may be increased by 200 psf for each additional six (6) inches of foundation depth and 200 psf for each additional one foot of foundation width. The allowable bearing capacity should not exceed 2,500 psf for isolated foundations to keep estimated settlements within allowable limits.

13.3.2 Lateral Load Resistance

Lateral load resistance for the spread footings will be developed by passive soil pressure against sides of footings below grade and by friction acting at the base of the concrete footings bearing on compacted fill. An allowable passive pressure of $275 Z$ PSF, where Z = Depth (in feet) below finish grade. In passive pressure calculations, the upper one (1) foot of soil should be subtracted from the depth, “ Z ”, unless confined by pavement or slab. An appropriate safety factor should be used for design calculations.

Friction along the foundation base may provide resistance to lateral loading. The coefficient of friction was estimated to be 0.32 for site soils compacted to 90% of the maximum dry density as determined by ASTM D 1557 test method and may be used for dead load forces and includes a reduction factor of one-third (1/3).

For design of building foundations, passive resistance may be combined with frictional resistance provided that a one-third ($1/3$) reduction in the coefficient of friction is used.

13.3.3 Footing Reinforcement

Reinforcement for concrete footings should be designed by the structural engineer based on the anticipated loading conditions and expansion index of the supporting soil. Preliminary expansion index for the native soil is categorized as “very low” to “medium” as determined by ASTM D 4829. Footings should be reinforced with a minimum of four (4) No. 4 bars, two (2) top and two (2) bottom.

13.3.4 CIDH Recommendations

A licensed structural engineer in the state of California should be responsible for developing the structural design and detailing of the fuel canopy foundations to adequately resist applied shear, moment, and axial forces (both tensile and compressive).

When designing pile foundations, skin friction within the top $13\frac{1}{2}$ feet of soil beneath the preconstruction grade should be disregarded unless this zone is over-excavated and recompactd as engineered fill. Below this depth, the allowable skin friction for vertical downward loading of cast-in-drilled-hole (CIDH) piles may be taken as 275 pounds per square foot, assuming the piles bear in undisturbed native material. Piles should extend at least 5 feet into native soils, or deeper as needed to meet design load demands. These values can be increased for transient loading conditions such as seismic or wind events.

For uplift design, the allowable resistance may be taken as 50% of the skin friction used for downward capacity. Piles should be spaced a minimum of three diameters apart, measured center-to-center. If alternative spacing is proposed, the pile group capacity must be adjusted using appropriate reduction factors.

A structural engineer with relevant experience in foundation design should also determine the required foundation thickness, reinforcement details, and concrete specifications, accounting for an expected total static settlement of up to $1\frac{1}{2}$ inches and differential settlement of no more than $\frac{3}{4}$ inch between footings.

Passive earth pressure resistance should also exclude the top 1 foot of soil for design purposes. Below this depth, lateral resistance may be modeled using an equivalent fluid pressure of 275 pounds per cubic foot, up to a maximum of 2,750 pounds per square foot. This value may also be increased by one-third for temporary seismic or wind loads. For piles spaced at three diameters apart, the passive resistance may be considered effective across a width equal to two times the pile diameter.

Piles should be placed no closer than three pile diameters, center-to-center. For alternate spacing, the capacity of piles in groups should be reduced using appropriate group reduction formulas.

13.3.5 Footing Observations

All footing trenches and drilled shafts for CIDH should be observed by a representative of the project geotechnical consultant to verify that they have been excavated into competent soils prior to placement of forms, reinforcement, or concrete. The excavations should be trimmed neat, level, and square. All loose, sloughed or moisture-softened soils and/or any construction debris should be removed prior to placing concrete. **Excavated soils derived from footing and/or utility trenches should not be placed in building slab-on-grade areas or exterior concrete flatwork areas unless the soils are compacted to at least 90% of maximum dry density.**

13.3.6 Foundation Setbacks

Footings of structures (including retaining walls) located above a slope having a total height of ten (10) feet or less should have a minimum setback of five (5) feet, measured from the outside edge of the footing bottom along a horizontal line to the face of the slope. For footings above slopes having a total height greater than ten (10) feet, the setback should be, at minimum, equal to one third of the total height of the slope but need not exceed forty (40) feet. Refer to CBC Section 1804.

13.4 RETAINING WALLS AND STRUCTURES BELOW GRADE

The project may include shallow retaining walls or walls below grade (i.e., loading docks, light standards, flagpoles, or similar structures supporting soil materials. These walls are anticipated to be shallow (i.e., approximately 10 feet or less in height). Design lateral earth pressures, backfill criteria, and drainage recommendations for walls below grade are presented.

13.4.1 Lateral Earth Pressures

	Driving Earth Pressure*	Resisting Earth Pressure*
Well-Drained Soil	38	275***
Well-Drained Soil (2:1 Backfill)	55	
At-Rest (Restrained Wall)	60**	

*Equivalent fluid pressure (PSF) per foot of soil height

**For design purposes, a wall is considered restrained if it prevented from movement greater than $0.002H$ (H = height of wall in feet) at the top of the wall.

***The upper one (1) foot of soil should be subtracted from the depth, "Z", unless confined by pavement or slab. This is an ultimate value.

Note: The pressures recommended above are based on the assumption that the backfill will be compacted to 90% of the maximum dry density. The use of select may lower the recommended driving earth pressure. The resisting pressure provided is an ultimate value. An appropriate factor of safety is recommended.

Friction acting along the base of the foundation may provide resistance to lateral loading. The coefficient of friction is estimated to be 0.32 for native soils compacted to 90% of the maximum dry density, and may be used with dead loads. This value may be increase by one-third ($1/3$) for total loads, including seismic forces. Frictional and passive resistance may be combined without reduction.

The above values are for retaining walls that have been supplied with a proper sub-drain system. All walls should be designed to support any adjacent structural surcharge loads imposed by other nearby walls, footings or vehicular traffic within a distance approximately equal to the height of the wall.

Retaining walls over six (6) feet in height may need to be designed for a seismic load force that is applied to the static forces when the seismic shaking occurs. The geotechnical consultant should be contacted for retaining walls over six (6) feet in height.

13.4.2 Wall Backfill

Backfill behind shallow retaining walls or walls below grade should consist of non-expansive granular materials. Wall backfill should not contain organic material, rubble, debris, and rocks or cemented fragments larger than three (3) inches in greatest dimension. In the case where no shoring was used, the granular backfill should extend outward from the base of the wall to ground surface at a 1:1 (horizontal: vertical) slope. The geotechnical consultant should be allowed the opportunity to sample and test and comment about the adequacy of the proposed imported backfill material once adequate quantities to complete the project are on site.

Backfill should be placed in lifts not exceeding eight to ten (8-10) inches in thickness measured loose, moisture conditioned to above optimum moisture content and mechanically compacted with hand-operated equipment to minimum 90% of the maximum dry density as determined by ASTM D 1557. Walls below grade that are not free to deflect should be properly braced prior to placement and compaction of backfill. **Compaction should be verified by testing.**

13.4.3 Drainage and Waterproofing

It is recommended that waterproofing be provided behind the retaining walls to help reduce efflorescent formation.

Walls designed for drained earth pressures shall have adequate drainage provided behind the walls. Sub-drains or weep holes at the base of the walls shall be incorporated into design.

Retaining walls shall be designed by a registered Civil Engineer.

14.0 CORROSION AND CHEMICAL ATTACK

Soluble sulfate, pH, resistivity and chloride concentration test results are presented in Appendix B. The Resistivity (CTM 643) test results on a bulk soil sample from the site are presented below in Table 1:

Table 1: Corrosion Results

Sample Location	pH	Sulfate, (% by weight)	Chloride, ppm	Minimum Resistivity, ohm-cm	Exposure Class
B7@0-5'	7.5	0.0362% (negligible)	96	1,600	S0

Based on the preliminary chemical analysis performed on a sample of the native soil, foundation concrete shall consist of type II cement with a minimum compressive strength of 2,500 psi as indicated in the ACI 318 Table 19.3.2.1. A higher compressive strength may be required by the structural engineer. Additional soil chemical analysis during grading is recommended. The minimum concrete compressive strength should be determined by the structural engineer.

The chemical test results should be distributed to the project design team for their interpretations pertaining to the corrosivity or reactivity of the construction materials (ferrous metals, and piping).

Table 2: ACI Exposure Categories for Water Soluble Sulfate in Soils	
Sulfate Exposure Class (ACI 318)	Water Soluble Sulfate In Soil (% by Mass)
S0	Less than 0.10 Percent
S1	0.10 to Less than 0.20 Percent
S2	0.20 to Less than or Equal to 2.00 Percent
S3	Greater than 2.00 Percent

15.0 EXCAVATIONS

It is Bruin GSI's opinion that standard construction techniques should be sufficient for site excavations. All excavations should be made in accordance with applicable regulations, including CAL/OSHA for and OSHA type "C" soil. Project safety is the contractor's responsibility and the owner. Bruin GSI will not be responsible for project safety.

The attention of contractors, particularly the underground contractors, should be drawn to the State of California Construction Safety Orders for "Excavations, Trenches, and Earthwork." Trenches or excavations greater than five (5) feet in depth should be shored or sloped back in accordance with OSHA Regulations prior to entry.

Open excavations, un-shored or un-surcharged (above the groundwater level) may be cut vertically to a maximum depth of no more than five (5) feet. Excavations higher than five (5) feet should be sloped back at a minimum 1.5:1 (horizontal to vertical) slope or flatter or shored. Sloughing will occur if the soil is dry or dries out while open. No excavation should be made within a 1:1 line projected outward from the toe of any existing foundation or structure.

No heavy equipment or other surcharge loads (i.e., excavation spoils) should be allowed within the top of slope a distance equal to the depth of the excavation, both measured from the top of the excavation.

Soil backfill around foundations or behind walls below grade should be placed in lifts not exceeding eight to ten inches, measured loose, moisture conditioned to near optimum moisture content and uniformly mechanically compacted to minimum 90% relative compaction as determined by ASTM D 1557 test method. Flooding or jetting is not recommended.

16.0 UTILITY TRENCHES AND BACKFILL

Standard construction techniques should be sufficient for site utility trench excavations. Utility trenches often settle even when backfill is placed under optimum conditions.

Trench backfill shall be moisture conditioned to near optimum moisture content, placed in lifts not exceeding eight to ten inches, measured loose, and uniformly compacted to minimum 90% of the maximum dry density with mechanical compaction equipment. **No flooding or jetting is recommended.**

Backfill of public utilities within road right-of-ways or on the subject site should be placed in strict conformance with the requirements of the governing agency. As a minimum it is recommended that utility trench backfill should be moisture conditioned to near optimum moisture content, placed in lifts not exceeding eight to ten (8-10) inches, measured loose, (depending on means of compaction) and uniformly compacted to minimum 90% of the maximum dry density with mechanical compaction equipment. If aggregate base is used for backfill material, it should be moisture conditioned to near optimum moisture content, placed in eight to ten inch lifts, measured loose, and uniformly compacted to minimum 95% of the maximum dry density using mechanical compaction equipment. **Compaction should be verified by testing.**

For purposes of this section of the report, "bedding" is defined as material placed in a trench up to one (1) foot above a utility pipe, and "backfill" is all material placed in the trench above the bedding. Unless concrete bedding is required around utility pipes, free-draining sand should be used as bedding. Sand proposed for use as bedding should be

tested in our laboratory to verify its suitability and measure its compaction characteristics. **Sand bedding should be compacted by mechanical means to achieve at least 90% relative compaction based on ASTM D 1557.**

Backfill operations should be observed and tested by the Geotechnical Consultant to monitor compliance with these recommendations.

Where utility trenches enter the footprint of the building, trenches should be backfilled through their entire depths with on-site fill materials, sand-cement slurry, or concrete rather than with any sand or gravel shading. This "Plug" of less- or non-permeable materials will mitigate the potential for water to migrate through the backfilled trenches from outside of the building to the areas beneath the foundations and floor slabs.

The backfill soil should be moisture conditioned to near optimum moisture content, placed in lifts not exceeding eight to ten inches (8-10), measured loose, (depending on means of compaction) and uniformly compacted to minimum 90% of the maximum dry density with mechanical compaction equipment.

17.0 INTERIOR CONCRETE SLAB-ON-GRADE

It should be understood that as a manufactured product, concrete will crack even under ideal conditions. It is our experience that shrinkage is more pronounced in the Antelope Valley due to environmental conditions (high winds, daily extreme temperature differences and low humidity). Appropriate mix designs, placement procedures and concrete curing methods should be planned and implemented during construction in order to reduce the occurrence and magnitude of concrete shrinkage cracking.

Interior slab-on-grade construction should be supported by compacted soil, prepared as recommended in the "Remedial Grading for Proposed Building Pad(s)" Section of this report.

17.1 Vapor Barrier and Water Proofing

It is recommended that a vapor retarded/waterproofing be placed below the concrete slab on grade. Vapor/moisture transmission through slabs does occur and can impact various components of the structure.

Vapor retarded/waterproofing designing and inspection of installation is not the responsibility of the geotechnical engineer (most often the responsibility of the architect). Bruin Geotechnical Services, Inc. does not practice in the field of water and moisture vapor transmission evaluation/mitigation. Therefore, we recommend

that a qualified person/firm be engaged/consulted to evaluate the general and specific water and moisture vapor transmission paths and any impact on the proposed development. This person/firm should provide recommendations for mitigation of potential adverse impact of water and moisture vapor transmission on various components of the structure as deemed necessary. The actual waterproofing design shall be provided by the architect, structural engineer, or contractor with experience in waterproofing.

In order to promote good building practices and alert the rest of the design/construction team of the appropriate standards and expect recommendations pertaining to vapor barriers/retarders, engineers (especially those aware of the issues surrounding blow-slab moisture protection and its effect on the success of their projects) should consider recommending and citing specific performance characteristics. The following paragraph includes criteria from the latest standards and expert recommendations and should be considered for use in your firm's own recommendations:

Vapor barrier shall consist of a minimum 15 mil extruded polyolefin plastic (no recycled content of woven materials permitted). Permeance as tested before and after mandatory conditions (ASTM E 17455 Section 7.1 and Sub-Paragraph 7.1.1-7.1.5): less than 0.01 perms [grains/(ft²-hr-inHg)] and comply with the ASTM E1745 Class A requirements. Install vapor barrier according to ASTM E1643, including proper perimeter seal. Basis of design: Stego Wrap Vapor Barrier 15 mil and Stego Crete Claw Tape (perimeter seal tape). Approved Alternatives: Vaporguard by Reef Industries, Sundance 15 mil Vapor Barrier by Sundance Inc.

17.2 Thickness and Joint Spacing

Concrete slab-on-grade should be at least four (4) inches thick and provided with frequent construction joints or expansion joints. The slab-on-grade should have a minimum compressive strength of 2,500 psi at 28 days. More stringent requirements may be required by the structural engineer.

17.3 Reinforcement

Reinforcement of the slab-on-grade is contingent on the structural engineer's recommendations and the Expansion Index of the supporting soil. As a minimum, reinforcement should consist of No. 4 bars spaced sixteen (16) inches on center, both ways. The reinforcement should be positioned near the middle of the slabs by means of concrete chairs or brick. Additional reinforcement may be required by the structural engineer.

17.4 Subgrade Preparation

As further measure to minimize cracking of concrete flatwork, the subgrade soils and all utility line trenches below concrete slab-on-grade areas should first be compacted to a minimum relative compaction of **90%** and then thoroughly moistened to achieve a moisture content that is near optimum moisture content. **A representative of the project geotechnical consultant should observe and verify the density and moisture content of the soils, and the depth or moisture penetration prior to pouring concrete.**

18.0 EXTERIOR CONCRETE FLATWORK (PATIOS, WALKWAYS, SIDEWALKS, etc.)

It should be understood that as a manufactured product, concrete will crack even under ideal conditions. It is our experience that shrinkage is more pronounced in the Antelope Valley due to environmental conditions (high winds, daily extreme temperature differences and low humidity). Appropriate mix designs, placement procedures and concrete curing methods should be planned and implemented during construction in order to reduce the occurrence and magnitude of concrete shrinkage cracking.

Exterior slab-on-grade construction should be supported by compacted soil, prepared as recommended in the "Remedial Grading and Exterior Non-Traffic Bearing Concrete" Section of this report. At locations where slabs cross trenches, observation and testing of trench backfill should be performed to confirm uniformity of conditions.

18.1 Thickness and Joint Spacing

To reduce the potential of unsightly cracking, concrete sidewalks, patio-type slabs should be at least four (4) inches thick and provided with frequent construction joints or expansion joints, especially at area of re-entrant corners, to help control cracking. A thickened edge twelve (12) inches deep and six (6) inches wide should be designed for "medium" soil expansion conditions. Exterior perimeter slabs should be designed relatively independent of the foundation stems (free-floating) to help cracking due to settlement and/or expansion. The slab-on-grade should have a minimum compressive strength of 2,500 psi at 28 days. More stringent requirements may be required by the structural engineer.

18.2 Reinforcement

Reinforcement of the exterior slab-on-grade is contingent on the structural engineer's recommendations and the Expansion Index of the supporting soil. As a minimum, reinforcement should consist of No. 3 bars spaced twenty-four (24)

inches on center, both ways. The reinforcement should be positioned near the middle of the slabs by means of concrete chairs or brick. Additional reinforcement may be required by the structural engineer.

18.3 Subgrade Preparation

As further measure to minimize cracking of concrete flatwork, the subgrade soils below concrete flatwork areas should first be compacted to a minimum relative compaction of 90% and then thoroughly moistened to achieve a moisture content that is near optimum moisture content. Pre-wetting of the soils to a depth of six (6) inches a maximum of 24-hours prior to concrete placement will promote uniform curing of the concrete and minimize the development of shrinkage cracks. **A representative of the project geotechnical consultant should observe and verify the density and moisture content of the soils, and the depth or moisture penetration a maximum of 24-hours prior to pouring concrete.**

19.0 RIGID (PCC) PAVEMENT

It should be understood that as a manufactured product, concrete will crack even under ideal conditions. It is our experience that shrinkage is more pronounced in the Antelope Valley due to environmental conditions (high winds, daily extreme temperature differences and low humidity). Appropriate mix designs, placement procedures and concrete curing methods should be planned and implemented during construction in order to reduce the occurrence and magnitude of concrete shrinkage cracking.

Exterior slab-on-grade construction should be supported by compacted soil, prepared as recommended in "Remedial Grading for Flexible (Asphalt-Concrete) and Rigid PCC Pavement" section of this report. At locations where slabs cross trenches, observation and testing of trench backfill should be performed to confirm uniformity of conditions.

19.1 Thickness and Joint Spacing

To reduce the potential of unsightly cracking, rigid concrete pavement should be at least six (6) inches thick (eight inches thick in heavy truck traffic areas) and provided with frequent construction joints or expansion joints, especially at area of re-entrant corners, to help control cracking. Perimeter pavement should be designed relatively independent of the foundation stems (free-floating) to help cracking due to settlement and /or expansion. A thickened edge twelve (12) inches deep and six (6) inches wide should be designed for "medium" soil expansion conditions. The slab-on-grade should have a minimum compressive strength of 3,500 psi at 28 days. More stringent requirements may be required by the structural engineer.

19.2 Reinforcement

Reinforcement of the exterior pavement is contingent on the structural engineer's recommendations and the Expansion Index of the supporting soil. As a minimum, reinforcement should consist of No. 4 bars spaced eighteen (18) inches on center, both ways. The reinforcement should be positioned near the middle of the slabs by means of concrete chairs or brick. Additional reinforcement may be required by the structural engineer.

19.3 Aggregate Base Preparation

The exterior rigid pavement should be underlain by minimum six (6) inches of Class 2 aggregate base conforming to Caltrans Chapter 4, Section 26. The six (6) inches of aggregate base below concrete flatwork areas should be compacted to a minimum relative compaction of **95%** and then thoroughly moistened to achieve near optimum moisture content.

19.4 Subgrade Preparation

As further measure to minimize cracking of concrete flatwork, the upper twelve inches of subgrade soils below concrete flatwork areas should first be compacted to a minimum relative compaction of **95%** and then thoroughly moistened to achieve a moisture content that is a minimum of 2% over optimum moisture content. Verification by the Geotechnical Consultant of moisture content of the soil to a depth of six (6) inches a maximum of 24-hours prior to concrete placement will promote uniform curing of the concrete and minimize the development of shrinkage cracks. A representative of the project geotechnical consultant should observe and verify the density and moisture content of the soils, and the depth or moisture penetration a maximum of 24-hours prior to pouring concrete.

20.0 PRELIMINARY FLEXIBLE PAVEMENT DESIGN

Asphalt-concrete pavements shall be designed per the Caltrans Highway Design Manual based on R-Value and Traffic Index. An R-value of the native soil of 30 was utilized for the preliminary structural pavement section. During grading as soils are mixed, soil samples should be obtained and tested for R-Value determination.

For pavement design, the preliminary flexible pavement layer thickness is as follows:

RECOMMENDED ASPHALT PAVEMENT SECTION LAYER THICKNESS

Pavement Material	Recommended Thickness (TI = 5.0) Auto On-site Parking and Drive Areas
Asphalt Concrete	3.5"
Class 2 Aggregate Base	8"
Compacted Subgrade	18"

Pavement Material	Recommended Thickness (TI = 6.0) Auto On-site Parking and Drive Areas
Asphalt Concrete	4"
Class 2 Aggregate Base	9"
Compacted Subgrade	18"

Pavement Material	Recommended Thickness (TI = 10.0) Avenue H & 25th Street West
Asphalt Concrete	6"
Class 2 Aggregate Base	13"
Compacted Subgrade	18"

Asphalt concrete should conform to Sections 203 and 302 of the latest edition of the Standard Specifications for Public Works Construction ("Greenbook").

Class 2 aggregate base should conform to Section 26 of the Caltrans Standard Specifications, latest edition. The aggregate base material should be compacted to at least 95% of the maximum dry density as determined by ASTM Method D 1557.

21.0 CONSTRUCTION CONSIDERATIONS

Based on our field exploration program, earthwork can be performed with conventional construction equipment.

21.1 Temporary Dewatering

Groundwater was not encountered in any of our borings to the maximum depth of our explorations. Based on the anticipated excavation depths, the need for temporary dewatering is considered low.

21.2 Construction Slopes

Excavations during construction should be conducted so that slope failure and excessive ground movement will not occur. The short-term stability of excavation depends on many factors, including slope angle, engineering characteristics of the subsoils, height of the excavation and length of time the excavation remains unsupported and exposed to equipment vibrations, rainfall, and desiccation.

Where spacing permits, and providing that adjacent facilities are adequately supported, open excavations may be considered. In general, unsupported slopes for temporary construction excavations should not be expected to stand at an inclination steeper than 1:1 (horizontal: vertical). The temporary excavation side walls may be cut vertically to a height of three (3) feet and then laid back at a 1:1 slope ratio above a height of three (3) feet.

Surcharge loads (equipment, spoil piles, etc.) should be kept away from the top of temporary excavations a horizontal distance equal to the depth of excavation. Surface drainage should be controlled along the top of temporary excavations to preclude wetting of the soils and erosion of the excavation faces. Even with the implementation of the above recommendations, sloughing of the surface of the temporary excavations may still occur, and workmen should be adequately protected from such sloughing.

21.3 Temporary Shoring

If shoring is considered, Bruin GSI should be notified in order to provide appropriate design parameters.

22.0 ADDITIONAL SERVICES

Final project plans and specifications should be reviewed prior to construction to confirm that the full intent of the recommendations presented herein have been applied to design and construction. This report is based on the assumption that an adequate testing and inspection program along with client consultation will be performed during final design and construction phases to verify compliance with the recommendations of this report.

Retaining Bruin GSI as the geotechnical consultant to provide additional services from preliminary design through project completion will assure continuity of services.

Additional services include:

- Consultation during design stages of the project.
- Review, stamp and signature of the grading and building plans.
- Observation and testing during rough grading, fine grading and trench backfill as well as placement of engineered fill.
- Consultation as required during construction.

Cost estimates can be prepared if requested. Please contact our office.

23.0 LIMITATIONS AND UNIFORMITY OF CONDITIONS

This report is based on the development plans provided to our office. If structure design changes or structure locations changes occur, the conclusion and recommendations in this report may not be considered valid unless the changes are reviewed, and the conclusions of this report are modified or approved by the Geotechnical Consultant.

The subsurface conditions and characteristics described herein have been projected from individual borings or test pits placed across the subject property. Actual variations in the subsurface conditions and characteristics may occur.

If conditions encountered during construction differ from those described in this report, this office should be notified so as to consider the necessity for modifications. No responsibility for construction compliance with the design concepts, specifications, or recommendations is assumed unless on-site construction review is performed during the course of construction, which pertains to the specific recommendations contained herein.

It is recommended that Bruin GSI be provided the opportunity for a general review of final design and specifications in order that earthwork and foundation recommendations may be properly interpreted and implemented in the design specifications. If Bruin GSI is not accorded the privilege of making this recommended review, Bruin GSI can assume no responsibility for misinterpretation of the recommendations contained in this report.

This report has been prepared in accordance with generally accepted practice and standards in this community at this time. No warranties, either expressed or implied, are made as to the professional advice provided under the terms of the agreement and included in this report. This report has been prepared for the exclusive use of Duke Engineering and their authorized agents. Unauthorized reproduction of any portion of this report without expressed written permission is prohibited.

If parties other than Bruin GSI are engaged to provide construction geotechnical services, they must be notified that they will be required to assume complete responsibility for the geotechnical phase of the project by concurring with the findings and recommendations in this report or providing alternate recommendations.

24.0 CLOSURE

The conclusions, recommendations, and opinions presented herein are: (1) based upon our evaluation and interpretations of the limited data obtained from our field and laboratory programs; (2) based upon an interpolation of soil conditions between and beyond the borings; (3) are subject to confirmation of the actual conditions encountered during construction; and, (4) are based upon the assumption that sufficient observation and testing will be provided during the grading, infrastructure installation and building phases of site development.

25.0 REFERENCES

California Department of Conservation, California Geological Survey, 2005, Seismic Hazard Zone Report for the Lancaster 7.5-Minute Quadrangle, Los Angeles County, California, Seismic Hazard Report 095.

California Department of Conservation, Division of Mines and Geology, 2008, Guidelines for Evaluation and Mitigation of Seismic Hazards in California: Special Publication 117

Los Angeles County Liquefaction Analysis Guidelines, Information Bulletin/Public – Building Code 2020-151, dated January 2020.

Pradel, D., 1998a, Procedure to Evaluate Earthquake-Induced Settlements in Dry Sandy Soils: Journal of Geotechnical and Geoenvironmental Engineering, dated April, pp. 364-368.

Stark, T.D., and Olson, S.M., 1995, "Liquefaction resistance using CPT and field case histories," Journal of Geotechnical Engineering, ASCE, Vol. 121, No.12, pp. 856-869

United States Geologic Survey, Topographic Map of Lancaster West Quadrangle, California, Los Angeles Co., 7.5 Minute Series 1958, photorevised 1974

Yoshimine, M., Nishizaki, H., Amano, K., and Hosono, Y., 2006. Flow Deformation of Liquified Sand Under Constant Shear Load and its Application to Analysis of Flow Slide in Infinite Slope. Soil Dynamics and Earthquake Engineering, 26, 253-264.

APPENDIX A

Boring Logs and Classification Key



Date(s) drilled	2/21/2025	LOG OF BORING 1 Page 1 of 1	
Drilling Contractor	GP Drilling		
Drilling Method	Hollow Stem Auger		
Drill Rig Type	Mobile B-61	Logged By:	CDD
Drill Bit Size/Type	8"	Checked By:	MS
Sampling Method(s)	CSS	Total Depth of Borehole	30' BGS
Client:	Duke	Groundwater	None Encountered
Project Number:	25-123	Borehole Backfill	Native/ Cuttings
Project Location:	Lancaster	Hammer Data	140#, 30" drop
		Boring Location:	See Figure 2
		Notes:	

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
		CL		Light grey silty clay with occ. fine sand to 1/2" gravel (AF) Firm, Slightly moist	10-26		
		CL		Light olive grey fine to medium sandy clay with occasional #4 gravel (AF) Firm, Slightly moist	9-12	102.2	12.0
5'		CL		Light grey fine sandy clay with trace #4 gravel (AF) Stiff, moist	15-21	104.7	14.1
		CL		Dark brown fine to coarse sandy clay with rare #4 gravel (AF) Stiff, moist	5-9		
10'		CL		Olive grey fine sandy clay with occasional medium to coarse sand (AF) Stiff, moist	4-6	108.3	18.2
		SC		Light greyish brown clayey fine sand (AF) Medium dense, moist	4-9	111.0	10.8
15'		CL		Greenish grey silty clay with trace fine to medium sand Firm, Saturated	3-4	80.3	37.5
20'		SC		Dark yellowish brown clayey fine to medium sand Medium dense, moist	6-8	112.3	13.2
25'		SC		Yellowish grey brown clayey fine to coarse sand Dense, moist	19-27		
30'		CL		Light greyish brown silty clay Stiff, moist	7-10		
				Boring terminated @ 30' bgs No groundwater No caving			



Date(s) drilled	2/21/2025	LOG OF BORING 2 Page 1 of 1	
Drilling Contractor	GP Drilling		
Drilling Method	Hollow Stem Auger		
Drill Rig Type	Mobile B-61	Logged By:	CDD
Drill Bit Size/Type	8"	Checked By:	MS
Sampling Method(s)	SPT/Bulk	Total Depth of Borehole	15' BGS

Client:	Duke	Groundwater	None Encountered	Boring Location:	See Figure 2
Project Number:	25-123	Borehole Backfill	Native/ Cuttings	Notes:	
Project Location:	Lancaster	Hammer Data	140#, 30" drop		

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
5'		ML		Light greyish brown fine to medium sandy silt with occasional #4 gravel (AF) Firm, slightly moist	7-10-11		9.8
		CL		Dark olive grey fine to medium sandy clay (AF) Stiff, moist	4-8-9		15.4
		SC		Light olive grey clayey fine to medium sand (AF) Medium dense, moist	4-7-5		14.6
10'		CL		Light olive grey fine to medium sandy clay (AF) Stiff, saturated	2-3-6		26.0
15'		SP		Orange yellowish brown fine to medium sand Medium dense, slightly moist	7-11-15		4.6
20'				Boring terminated @ 15' bgs No groundwater No caving			
25'							
30'							



Date(s) drilled	2/21/2025	LOG OF BORING 3 Page 1 of 1	
Drilling Contractor	GP Drilling		
Drilling Method	Hollow Stem Auger		
Drill Rig Type	Mobile B-61	Logged By:	CDD
Drill Bit Size/Type	8"	Checked By:	MS
Sampling Method(s)	CSS	Total Depth of Borehole	20' BGS

Client:	Duke	Groundwater	None Encountered	Boring Location:	See Figure 2
Project Number:	25-123	Borehole Backfill	Native/ Cuttings	Notes:	
Project Location:	Lancaster	Hammer Data	140#, 30" drop		

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
		CL		Light grey silty clay with occasional fine to medium sand (AF) Soft, moist	3-4	74.7	16.4
		ML		Light grey fine sandy silt w/ trace clay (AF) Soft, very moist	5-7	71.7	18.2
5'		CL		Dark olive brown fine to medium sandy clay (AF) Firm, moist	5-6	87.4	17.9
		SC		Olive brown clayey fine to medium sand (AF) Dense, moist	15-20	112.1	8.9
10'		SP/SC		Light greyish brown slightly clayey fine to medium sand with (AF) Dense, moist	17-21		
15'		SC		Olive grey clayey fine to medium sand Loose, saturated	3-4	90.5	25.9
20'		CL		Olive grey fine to medium sandy clay Firm, moist	3-5		
25'							
30'				Boring terminated @ 20' bgs No groundwater No caving			



Date(s) drilled	2/21/2025	LOG OF BORING 4 Page 1 of 1	
Drilling Contractor	GP Drilling		
Drilling Method	Hollow Stem Auger		
Drill Rig Type	Mobile B-61	Logged By:	CDD
Drill Bit Size/Type	8"	Checked By:	MS
Sampling Method(s)	SPT	Total Depth of Borehole	15' BGS
Client:	Duke	Groundwater	None Encountered
Project Number:	25-123	Borehole Backfill	Native/ Cuttings
Project Location:	Lancaster	Hammer Data	140#, 30" drop
		Boring Location:	See Figure 2
		Notes:	

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
5'		SC		Light grey fine to coarse sandy silt (AF) Dry, medium dense	8-10-8		8.0
		SC		Light olive grey fine to medium sandy clay transitioning to medium sand (AF) Moist, stiff	7-8-8		4.1
		SC		Light greenish grey fine to medium sandy clay transitioning to fine to medium sand (AF) Moist, stiff	5-8-11		5.2
10'		SC		Olive grey fine to medium Sandy clay (AF) Moist, stiff	4-6-8		8.1
		SP/SC		Olive grey fine to medium sandy clay transitioning to light orangish grey fine sand (AF) Moist, medium dense	7-10-11		3.6
15'		SP		Brownish grey fine to medium sand with occasional silt Moist, medium dense	8-10-14		2.6
20'				Boring terminated @ 15' bgs No groundwater No caving			
25'							
30'							



Date(s) drilled	2/21/2025	LOG OF BORING 5 Page 1 of 4	
Drilling Contractor	####		
Drilling Method	Hollow Stem Auger		
Drill Rig Type	Mobile B-61	Logged By:	CDD
Drill Bit Size/Type	8"	Checked By:	MS
Sampling Method(s)	SPT/CSS	Total Depth of Borehole	50' bgs
Client: Duke Engineering	Groundwater	None Encountered	Boring Location: See Figure 2
Project Number: 25-123	Borehole Backfill	Native/ Cuttings	Notes:
Project Location: Lancaster	Hammer Data	140#, 30" drop	

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
1		CL		Brown silty clay with fine sand (AF)	5-6-8		32.7
2				Stiff, saturated		80.3	
3		CL		(AF)	7-8-10		31.6
4				Firm, saturated		81.6	
5		SC		Light grey clayey medium to coarse sand (AF)	6-8-9		19.7
				Medium dense, very moist		92.3	
6		SP/SC		Light grey slightly clayey fine to coarse sand (AF)	8-10-12		6.4
				Medium dene, slightly moist		110.5	
7		SC		Light grey brown clayey fine to medium sand (AF)	8-9-11		8.3
8				Medium dense, moist		109.7	
9		SC		Brown fine sandy clay (AF)	6-9-11		17.2
				Loose, very moist		95.7	
10		SC		Greyish brown clayey fine to medium sand (AF)	7-10-10		6.3
11				Medium dense, slightly moist		108.5	
12		SC		Greyish brown fine to medium sand (AF)	10-13-19		4.0
				Dense, slightly moist		111.5	
13		SC		(AF)	15-18-17		3.8
14				Dense, slightly moist		112.2	
15		SC		Greyish brown clayey fine to medium sand	8-9-10		17.5
				Loose, very moist		96.2	



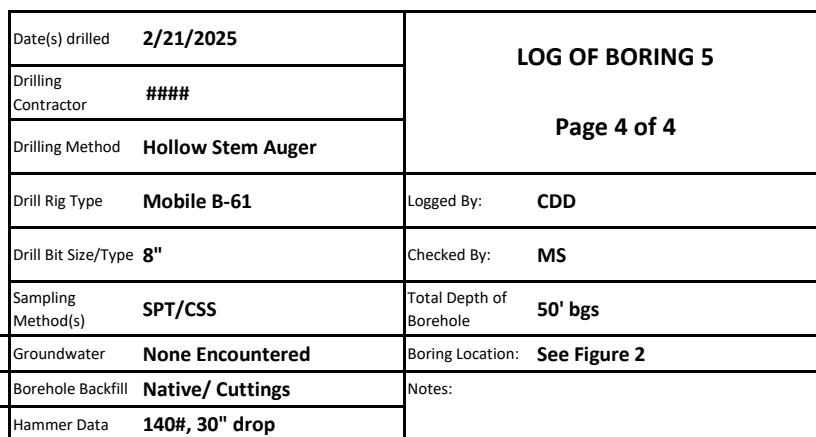
Date(s) drilled	2/21/2025	LOG OF BORING 5 Page 2 of 4	
Drilling Contractor	####		
Drilling Method	Hollow Stem Auger		
Drill Rig Type	Mobile B-61	Logged By:	CDD
Drill Bit Size/Type	8"	Checked By:	MS
Sampling Method(s)	SPT/CSS	Total Depth of Borehole	50' bgs
Client: Duke Engineering	Groundwater	None Encountered	Boring Location: See Figure 2
Project Number: 25-123	Borehole Backfill	Native/ Cuttings	Notes:
Project Location: Lancaster	Hammer Data	140#, 30" drop	

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
16		SC			6-7-7		10.9
17				Medium dense, moist		102.1	
18		CL		Greyish brown silty clay with fine sand	8-7-7		18.7
19				Stiff, moist		86.4	
20		CL		Olive brown silty clay with fine to medium sand	8-9-9		25.2
21				Stiff, very moist		82.1	
22		CL		Light greyish brown fine to medium sandy clay	7-9-11		25.0
23				Soft, very moist		81.9	
24		CL			8-9-10		20.6
25				Firm, very moist		83.4	
26		CL			6-9-11		23.2
27				Firm, very moist		85.1	
28		CL		Olive brown fine sandy clay	8-8-7		32.4
29				Soft, saturated		76.6	
30		SC		Olive brown clayey fine sand	7-8-10		17.7
31				Loose, moist		95.1	
32		CL		Light olive brown clayey fine sand	8-8-9		26.0
33				Loose, saturated		80.1	
34		CL		Light olive brown fine sandy clay	6-8-9		22.1
35				Firm, very moist		84.9	
36		CL		Greyish brown fine sandy clay with medium sand	5-7-8		23.0



Date(s) drilled	2/21/2025	LOG OF BORING 5 Page 3 of 4
Drilling Contractor	####	
Drilling Method	Hollow Stem Auger	
Drill Rig Type	Mobile B-61	Logged By: CDD
Drill Bit Size/Type	8"	Checked By: MS
Sampling Method(s)	SPT/CSS	Total Depth of Borehole: 50' bgs
Client: Duke Engineering	Groundwater: None Encountered	Boring Location: See Figure 2
Project Number: 25-123	Borehole Backfill: Native/ Cuttings	Notes:
Project Location: Lancaster	Hammer Data: 140#, 30" drop	

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
32				Stiff, very moist		85.6	
33		CL		Firm, very moist	6-7-9	80.3	26.2
34							
35		CL		Olive brown fine sandy clay with occ. medium sand	5-7-10	84.7	22.6
				Stiff, very moist			
36		CL		Dark brown fine to medium sandy clay	4-5-9	81.2	25.9
				Stiff, very moist			
37		CL		Dark brown clay with fine sand	5-7-7		31.5
38				Stiff, Saturadeted		79.5	
39		CL		Olive greyish brown clay with fine sand	6-8-9		35.3
				Firm, saturated		76.1	
40		CL		Brown clay with fine sand	9-9-10		30.0
41				Stiff, saturated		80.2	
42		CL			6-6-8		29.7
				Stiff, saturated		81.6	
43		CL		Brown silty clay with occ. fine sand & #4 to 1/2" gravel	7-9-9		27.6
44				Stiff, saturated		83.5	
45		CL			5-6-6		22.1
				Stiff, very moist		86.4	
46		CL			5-8-8		21.8
47				Stiff, very moist		85.1	



Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
48		SC		Brown clayey fine to medium sand with occ. #4 to 1/2" gravel	4-7-8		21.5
				Medium dense, very moist			91.1
49							
		SC		Greyish brown clayey fine sand	6-11-15		16.2
50				Medium dense, moist		96.1	
				Boring terminated @ 50' bgs			
				No groundwater			
				No caving			



Date(s) drilled	2/21/2025	LOG OF BORING 6 Page 1 of 1	
Drilling Contractor	GP Drilling		
Drilling Method	Hollow Stem Auger		
Drill Rig Type	Mobile B-61	Logged By:	CDD
Drill Bit Size/Type	8"	Checked By:	MS
Sampling Method(s)	SPT	Total Depth of Borehole	20' BGS

Client:	Duke	Groundwater	None Encountered	Boring Location:	See Figure 2
Project Number:	25-123	Borehole Backfill	Native/ Cuttings	Notes:	
Project Location:	Lancaster	Hammer Data	140#, 30" drop		

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
5'		SC		Dark yellowish brown clayey fine to medium sand Medium dense, slightly moist	12-11-10		7.8
		SC		Dark yellow brown fine to medium sand with silt and occasional #4 gravel Medium dense, moist	9-12-15		9.8
10'		SC		Dark olive grey clayey fine to medium sand Medium dense, very moist	7-9-11		21.5
		SP/SM		Light grey slightly silty fine to medium sand Medium dense, slightly moist	7-13-16		4.1
15'		SP/SC		Light grey slightly clayey fine to medium sand Dense, slightly moist	15-19-19		4.4
20'		CL		Olive brown fine sandy clay Firm, moist	3-4-4		16.0
25'				Boring terminated @ 20' bgs No groundwater No caving			
30'							



Date(s) drilled	2/21/2025	LOG OF BORING 7 Page 1 of 1	
Drilling Contractor	GP Drilling		
Drilling Method	Hollow Stem Auger		
Drill Rig Type	Mobile B-61	Logged By:	CDD
Drill Bit Size/Type	8"	Checked By:	MS
Sampling Method(s)	CSS/Bulk	Total Depth of Borehole	20' BGS

Client:	Duke	Groundwater	None Encountered	Boring Location:	See Figure 2
Project Number:	25-123	Borehole Backfill	Native/ Cuttings	Notes:	
Project Location:	Lancaster	Hammer Data	140#, 30" drop		

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
5'		SC		Light grey clayey fine to medium sand with occ. #4 to 1/2" gravel (AF) Dense, moist	14-17	DIST	16.2
		SP		Light greyish brown fine to coarse sand with trace #4 gravel(AF) Medium dense, dry	11-11	DIST	2.0
		SP		Light orangish brown fine to medium sand with #4 gravel (AF) Dense, dry	15-28	108.4	2.1
10'		CL		Dark brown clay with occasional fine sand and #4 gravel (AF) Stiff, very moist	3-5	93.0	25.4
15'		CL		Olive grey silty clay with trace fine sand Stiff, very moist	8-13		
20'				Boring terminated @ 15' bgs No groundwater No caving			
25'							
30'							



Date(s) drilled	2/21/2025	LOG OF BORING 8 Page 1 of 1
Drilling Contractor	GP Drilling	
Drilling Method	Hollow Stem Auger	
Drill Rig Type	Mobile B-61	Logged By: CDD
Drill Bit Size/Type	8"	Checked By: MS
Sampling Method(s)	CSS	Total Depth of Borehole 20' BGS

Client: Duke	Groundwater None Encountered	Boring Location: See Figure 2
Project Number: 25-123	Borehole Backfill Native/ Cuttings	Notes:
Project Location: Lancaster	Hammer Data 140#, 30" drop	

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
5'		ML		Light grey fine sandy silt with trace clay Soft, saturated	9-11	67.5	25.6
		ML/CL		Light gray clayey silt with fine sand Firm, very moist	8-10	86.3	23.8
10'		SP/SC		Orangish brown slightly clayey fine to medium sand Medium dense, slightly moist	10-19	114.5	6.5
		SP		Orangish brown fine to medium sand dense, moist	14-12	112.6	7.3
15'		SP		Olive brown fine sand with silt and occasional medium to coarse grains Medium dense, moist	8-9	DIST	6.9
20'		CL		Olive grey fine to medium sandy clay Stiff, very moist	8-8	106.7	21.3
25'				Boring terminated @ 20' bgs No groundwater No caving			
30'							



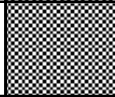
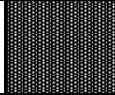
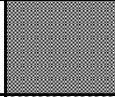
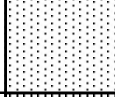
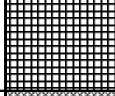
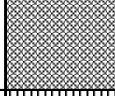
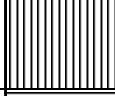
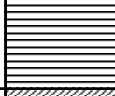
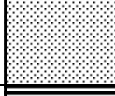
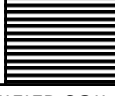
Date(s) drilled	2/21/2025	LOG OF BORING 9 Page 1 of 1	
Drilling Contractor	GP Drilling		
Drilling Method	Hollow Stem Auger		
Drill Rig Type	Mobile B-61	Logged By:	CDD
Drill Bit Size/Type	8"	Checked By:	MS
Sampling Method(s)	CSS	Total Depth of Borehole	20' BGS

Client:	Duke	Groundwater	None Encountered	Boring Location:	See Figure 2
Project Number:	25-123	Borehole Backfill	Native/ Cuttings	Notes:	
Project Location:	Lancaster	Hammer Data	140#, 30" drop		

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
5'		CL		Light grayish brown fine sandy clay (AF) Soft, saturated	13-16	79.2	26.4
		CL		(AF) Soft, moist	8-11	92.5	16.4
		CL		(AF) Soft, moist	8-9	95.0	15.8
		CL		Greenish brown fine to medium sandy clay (AF) Soft, moist	5-11		
10'		CL		Grey fine sandy clay (AF) Soft, moist	6-6	97.4	15.8
15'		ML/CL		Grey fine clayey silt w/ fine to medium sand soft, slightly moist	9-10	96.8	8.3
20'		ML/CL		Olive grey clayey silt with occ. medium sand to #4 gravel Moderately firm, moist	7-10	102.8	16.3
25'							
30'				Boring terminated @ 20' bgs No groundwater No caving			

BRUIN GEOTECHNICAL SERVICES, INC.

GEOTECHNICAL REPORTS | MATERIAL TESTING | CONSTRUCTION INSPECTION

SOIL CLASSIFICATION KEY					
MAJOR DIVISIONS			SYMBOL		TYPICAL NAMES
Coarse Grained Soils 50% or more larger than #200 sieve	Gravels More than half coarse-fraction is larger than No. 4 sieve size	Clean gravels with little or no fines	GW		Well graded gravels, gravel-sand mixtures
			GP		Poorly graded gravels, gravel-sand mixtures
		Gravel with over 12% fines	GM		Silty gravels, poorly graded gravel-sand-silt mixtures
			GC		Clayey gravels, poorly graded gravel-sand-clay mixtures
	Sands More than half coarse-fraction is smaller than No. 4 sieve size	Clean sands with little or no fines	SW		Well graded sands, gravelly sands
			SP		Poorly graded sands, gravelly sands
		Sands with over 12% fines	SM		Silty sands, poorly graded sand-silt mixtures
			SC		Clayey sands, poorly graded sand-clay mixtures
Fine Grained Soils 50% or more smaller than #200 sieve	Silts and Clays Liquid limit less than 50		ML		Inorganic silts, rock flour, clayey silts
			CL		Inorganic clays of low to medium plasticity, sandy clays, silty clays
			OL		Organic clays and organic silty clays of low plasticity
	Silts and Clays Liquid limit greater than 50		MH		Inorganic silts, micaceous or diatomaceous fine sandy/silty soils, elastic silts
			CH		Inorganic clays with high plasticity, fat clays
			OH		Organic clays of medium to high plasticity, organic silts
Highly Organic Soils			Pt		Peat and other highly organic soils
CLASSIFICATION SYSTEM BASED ON THE UNIFIED SOIL CLASSIFICATION SYSTEM					

Boring Log Key

Sheet 2 of 2

Depth	Sample	USCS	Graphic Log	Material Description	Penetration Resistance (Blows/6")	Dry Unit Weight pcf	Water Content %
1	2	3	4	5	6	7	8
COLUMN DESCRIPTIONS							
1	Depth in feet below the ground surface			5	Description of the material encountered. May include consistency, moisture, color, and other descriptors		
2	Sampling Method see "symbols" below			6	Number of blows to advance driven sampler one foot (or distance shown) beyond seating interval		
3	USCS symbol			7	Dry weight per unit volume of soil sample measured in laboratory units in pounds per cubic foot		
4	Graphic depiction of the subsurface material			8	Water content of the sample expressed as a percentage of the dry weight of the sample		
ABBREVIATIONS							
DIST = Disturbed Sample N/A = Not Analyzed N/R = No Recovery CHEM = Chemical Test							
SAMPLING METHOD SYMBOLS							
 California Split Spoon (CSS)  Standard Penetration Test (SPT)  Bulk Sample  Grab Sample							
GENERAL NOTES							
1. Soil classifications are based on the Unified Soil Classification System. Descriptions and stratum lines are interpretive, and actual lithologic changes may be gradual. Field descriptions may have been modified to reflect results of lab tests. 2. Descriptions on these logs apply only at the specific boring locations and at the time the borings were advanced. They are not warranted to be representative of subsurface conditions at other locations or times.							

APPENDIX B

Laboratory Test Data

SUMMARY OF LABORATORY TEST RESULTS

SIEVE ANALYSIS

Percent passing individual sieves

Sample I.D.	1/2"	3/8"	#4	#10	#40	#100	#200
B1@12			100	98	82	59	39
B1@20			100	94	50	28	21
B2@6			100	93	62	42	34
B2@15		100	99	88	41	10	4
B2@0-5		100	99	98	87	74	66
B3@1	97	97	96	94	88	82	77
B3@15	100	99	98	97	88	59	48
B4@4			100	95	59	26	19
B4@9			100	99	82	59	23
B5@3			100	99	91	84	80
B5@5			100	98	81	65	57
B5@11	97	96	95	94	85	76	64
B5@16			100	99	66	28	18
B5@18			100	91	52	29	20
B5@20			100	98	77	59	44
B5@24	100	99	98	97	94	90	82
B5@36	98	98	95	85	484	31	27
B5@48			100	100	88	50	32
B7@3		100	94	65	24	7	4
B7@0-5	96	95	91	79	51	36	31

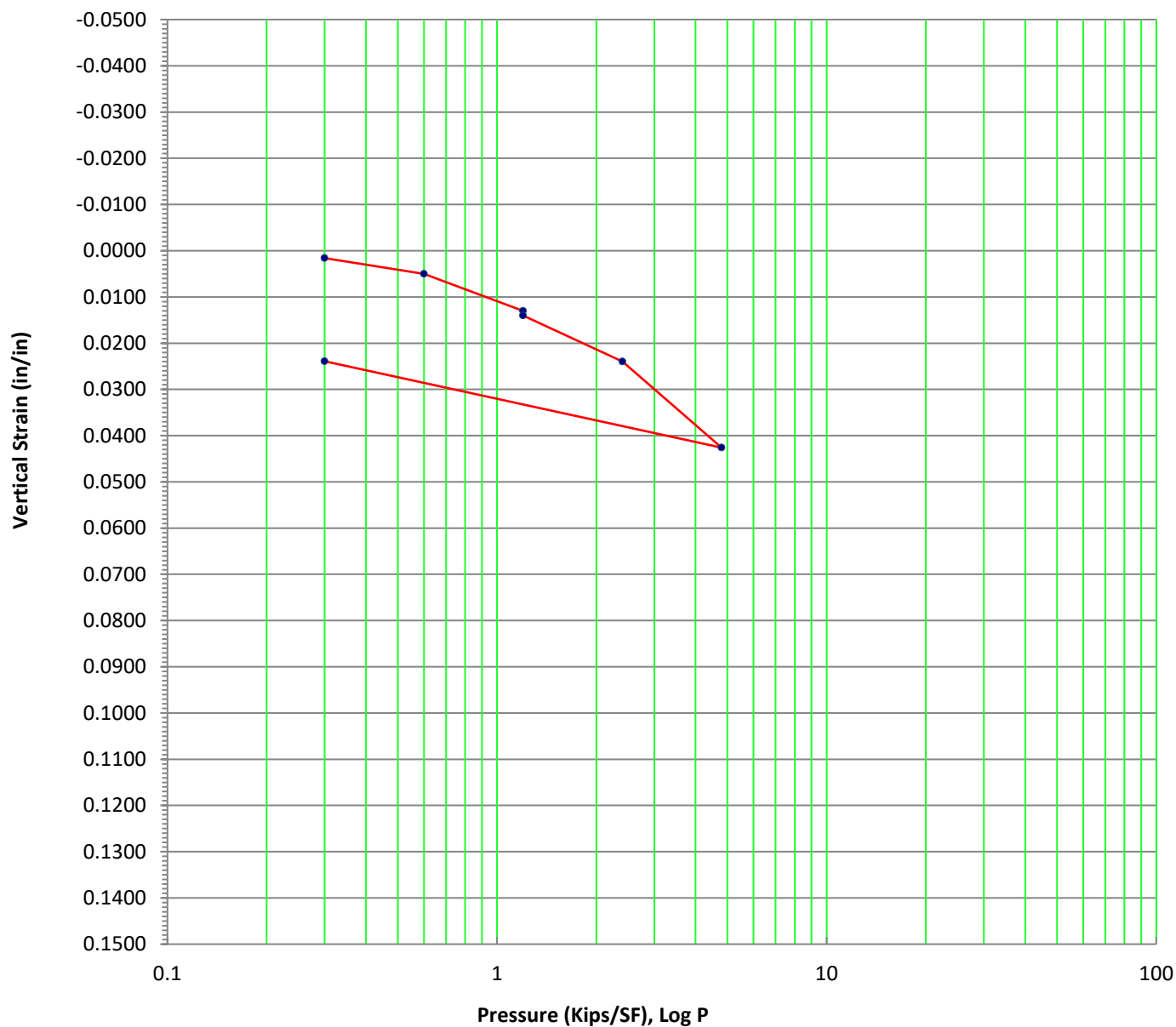
SIEVE ANALYSIS

Percent passing individual sieves

Sample I.D.	#200
B1@15	75
B3@3	75
B4@6	23.4
B4@12	11
B6@8	45
B6@15	5
B7@1	49
B7@10	80

EXPANSION INDEX

Sample I.D.	Expansion Index	Classification
B7@0-5'	1	Very Low



Sample location: B1 @ 3'
 Material: CL
 Initial Dry Density: 102.1 PCF
 Moisture Content: 12.0 %
 % Hydroconsolidation: 0.1 %

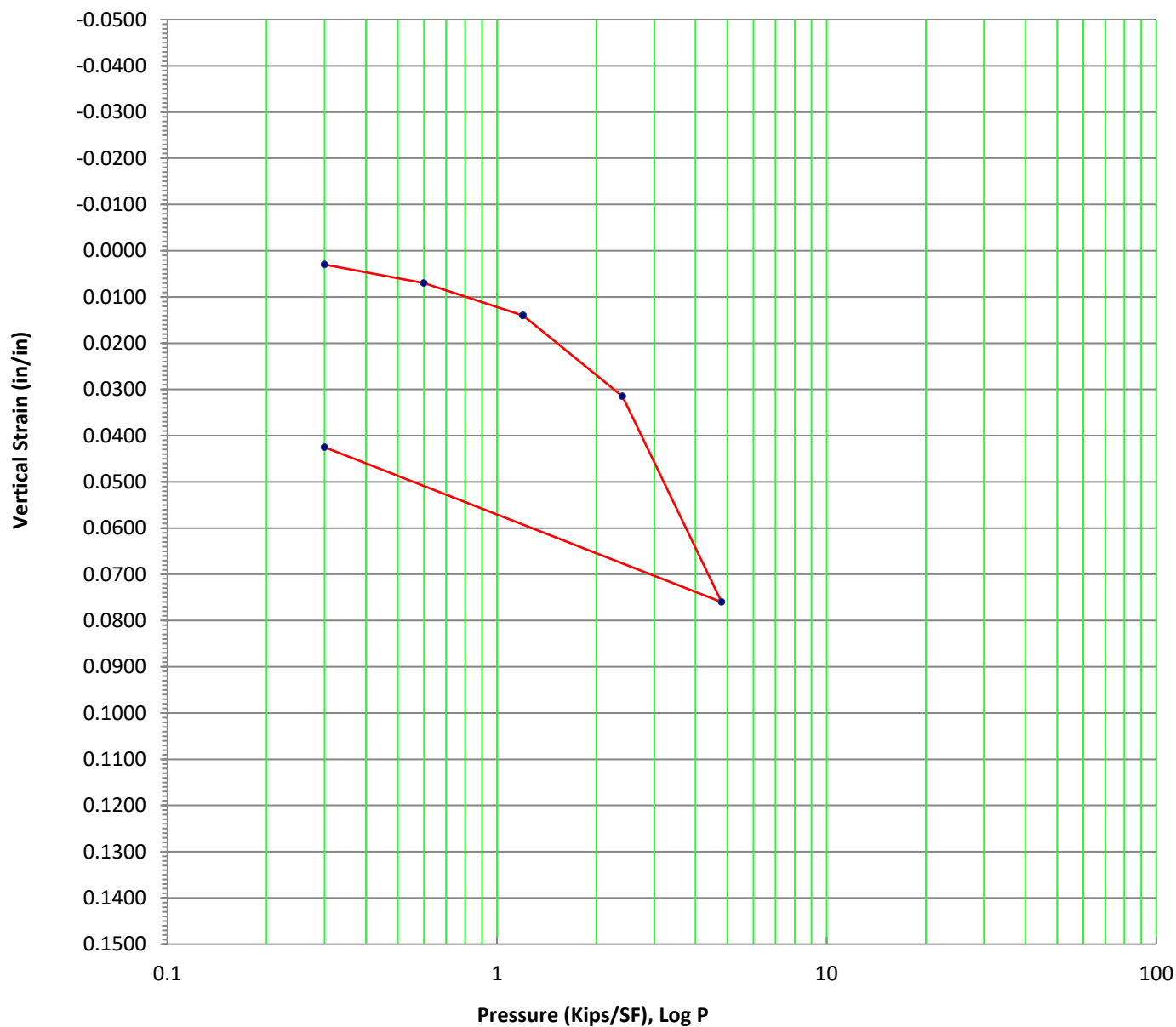
Test Method: ASTM D-2435

Consolidation Test

Duke



J.N. 25-123



Sample location: B3 @ 5'
 Material: CL
 Initial Dry Density: 87.4 PCF
 Moisture Content: 17.9 %
 % Hydroconsolidation: 0.0 %

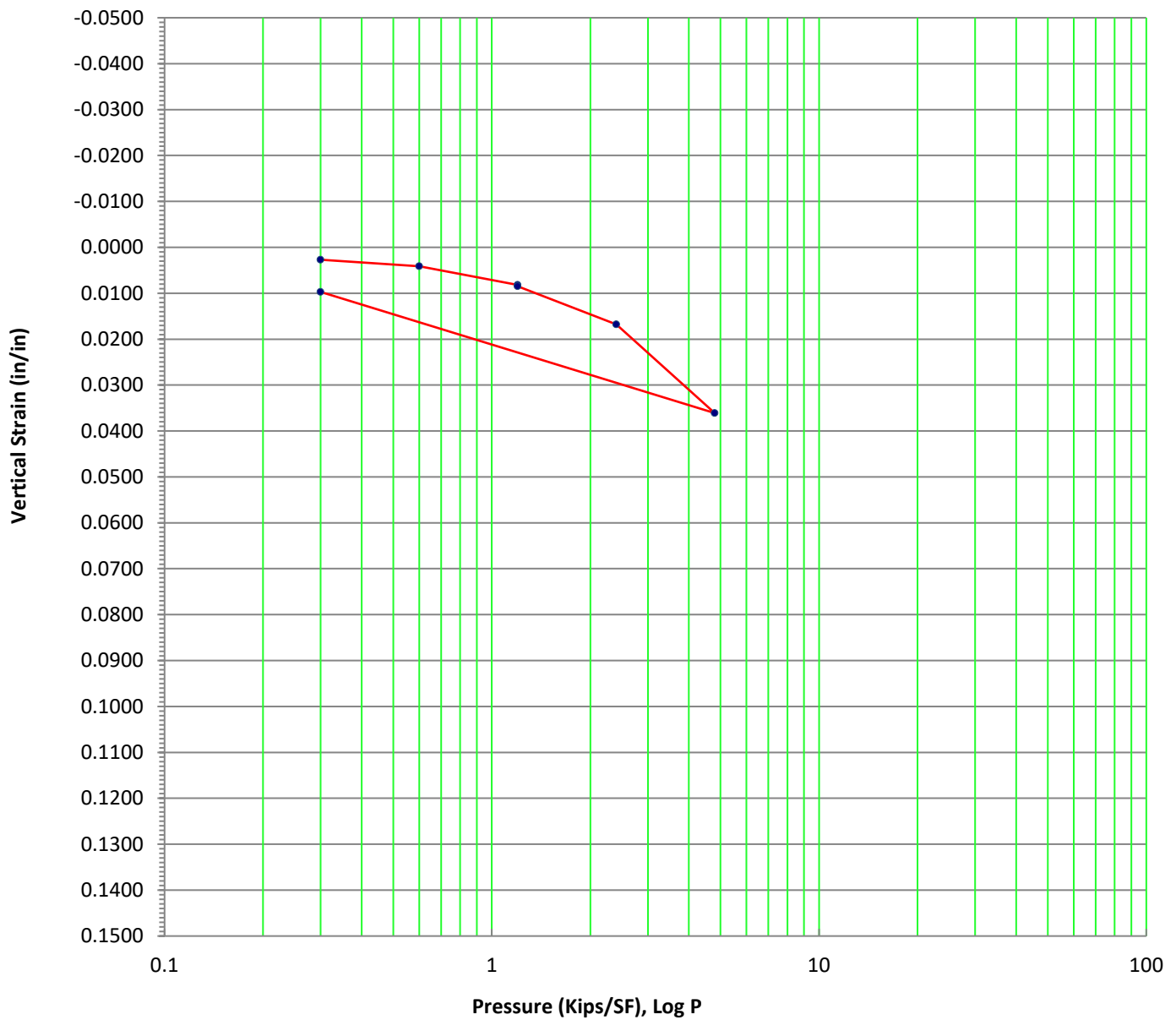
Test Method: ASTM D-2435

Consolidation Test

Duke



J.N. 25-123



Sample location: B8 @ 5'
 Material: 0
 Initial Dry Density: 86.4 PCF
 Moisture Content: 23.8 %
 % Hydroconsolidation: 0.0 %

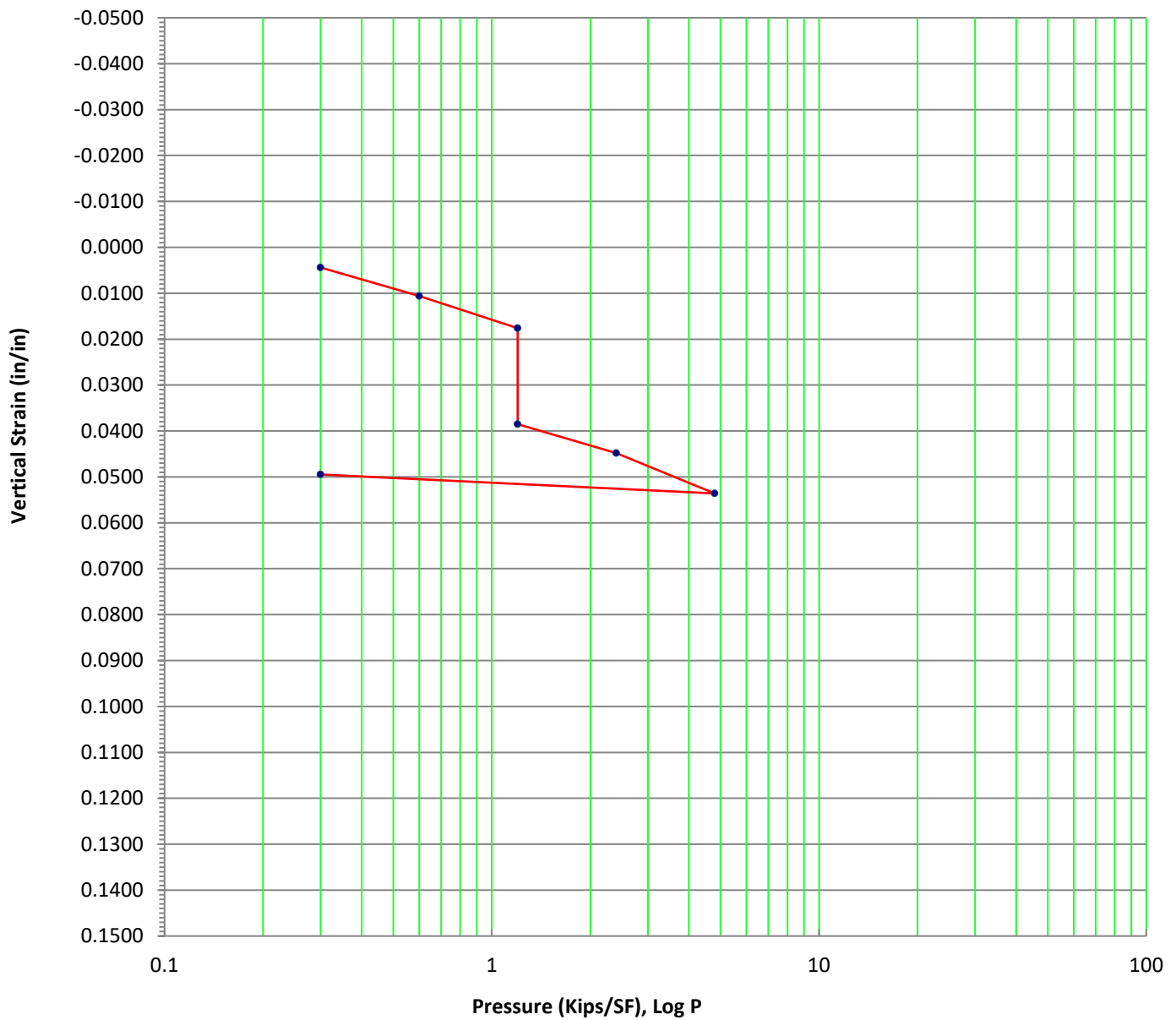
Test Method: ASTM D-2435

Consolidation Test

Duke



J.N. 25-123



Sample location: B7 @ 6'
 Material: SP
 Initial Dry Density: 108.4 PCF
 Moisture Content: 2.1 %
 % Hydroconsolidation: 2.1 %

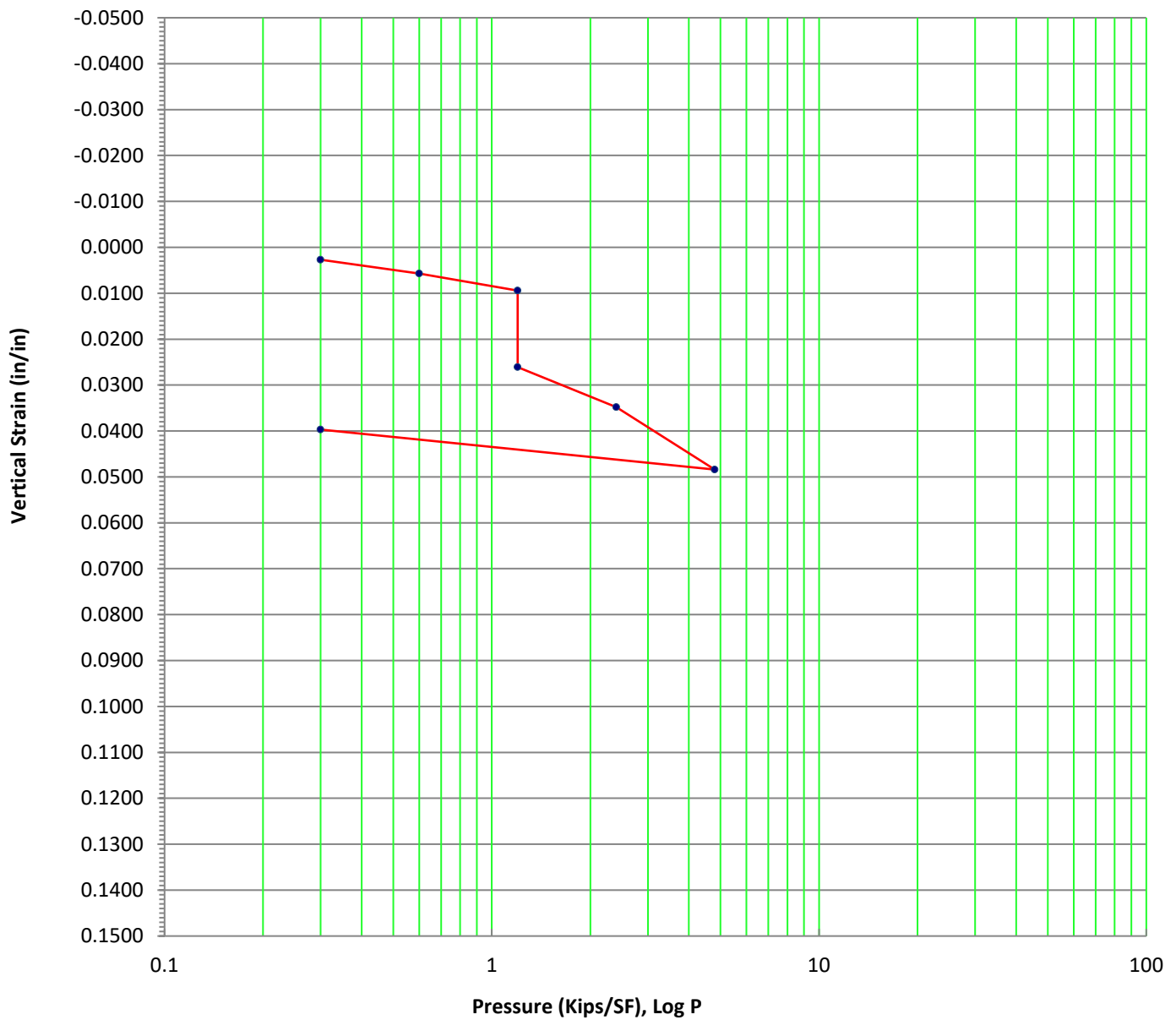
Test Method: ASTM D-2435

Consolidation Test

Duke



J.N. 25-123



Sample location: B3 @ 7'
 Material: SC
 Initial Dry Density: 112.1 PCF
 Moisture Content: 8.9 %
 % Hydroconsolidation: 1.7 %

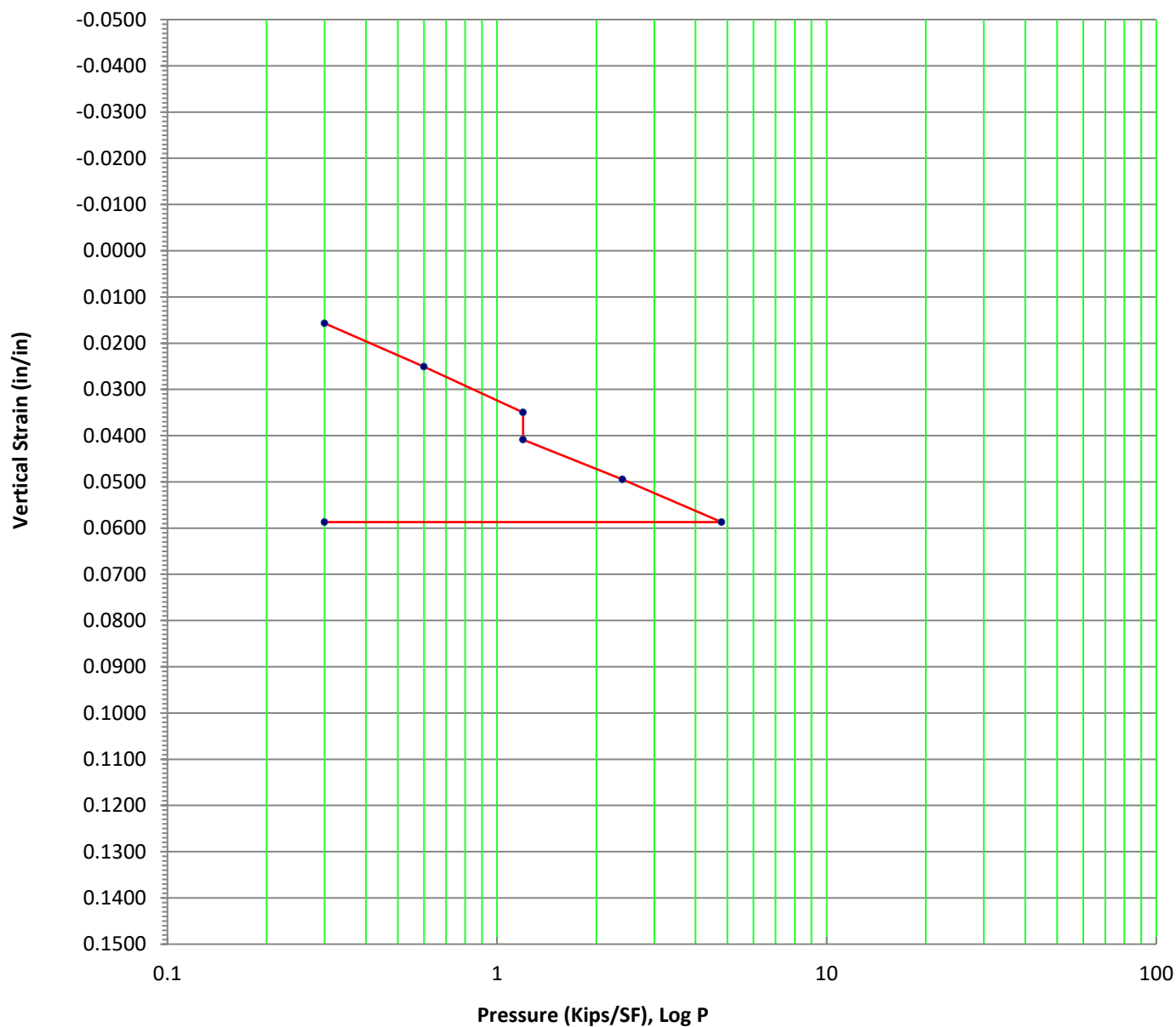
Test Method: ASTM D-2435

Consolidation Test

Duke



J.N. 25-123



Sample location: B8 @ 7'
 Material: SP/SM
 Initial Dry Density: 114.5 PCF
 Moisture Content: 6.5 %
 % Hydroconsolidation: 0.6 %

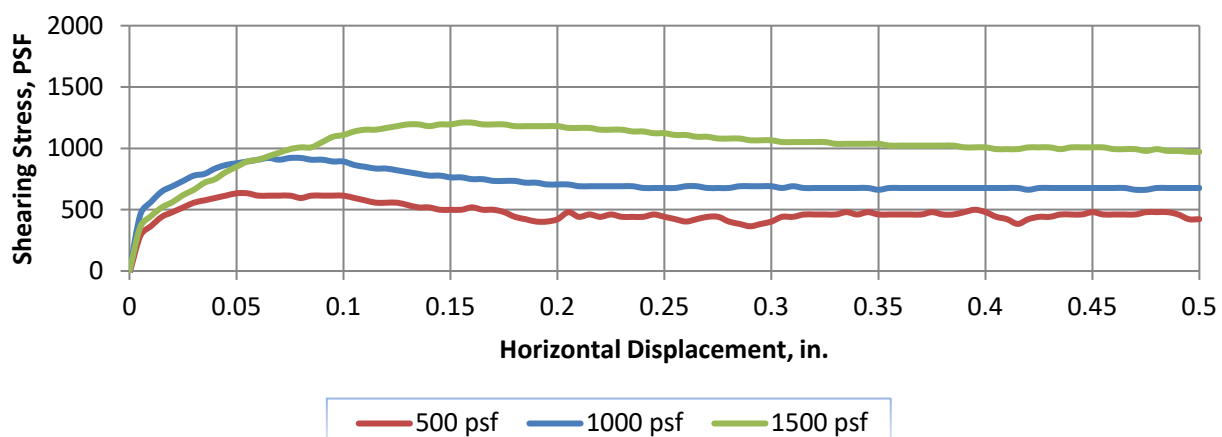
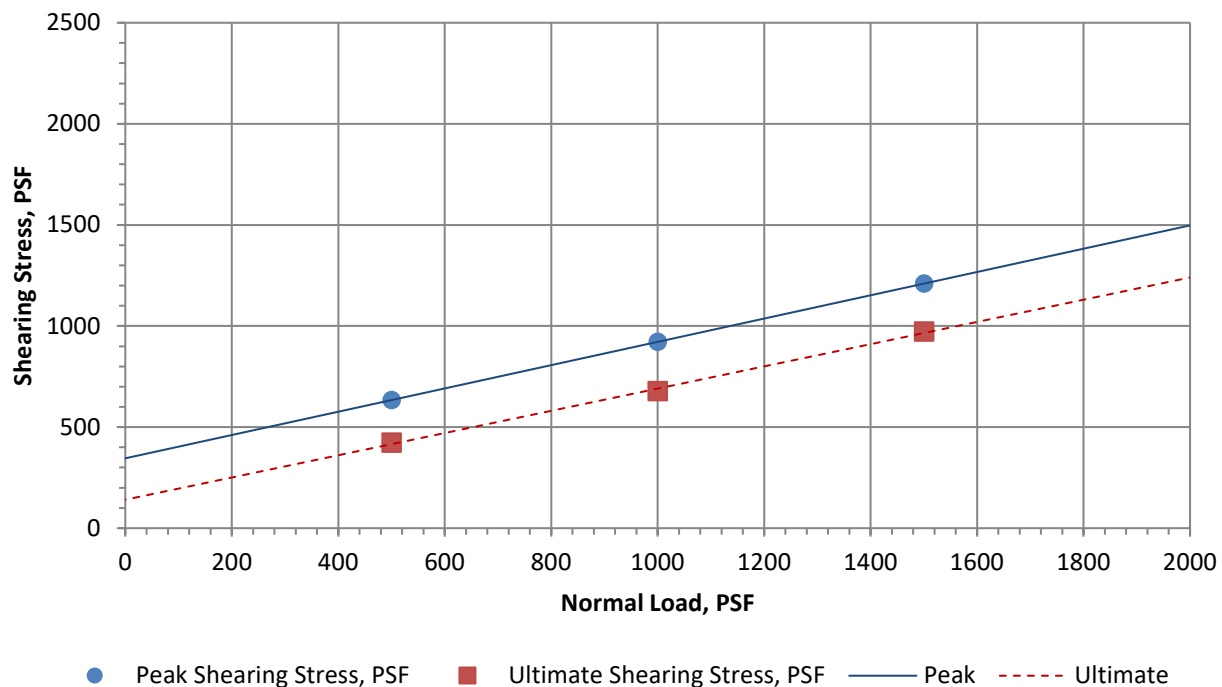
Test Method: ASTM D-2435

Consolidation Test

Duke



J.N. 25-123



Sample Description: (CL) - Light rey brown fine sandy clay w. trace #4 gravel

DIRECT SHEAR DATA (ASTM D-3080)

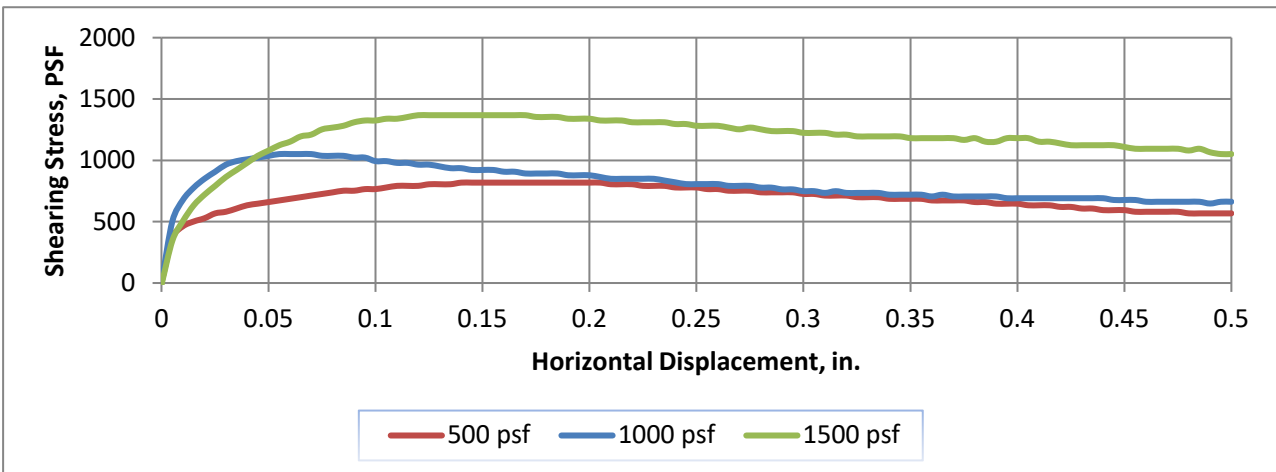
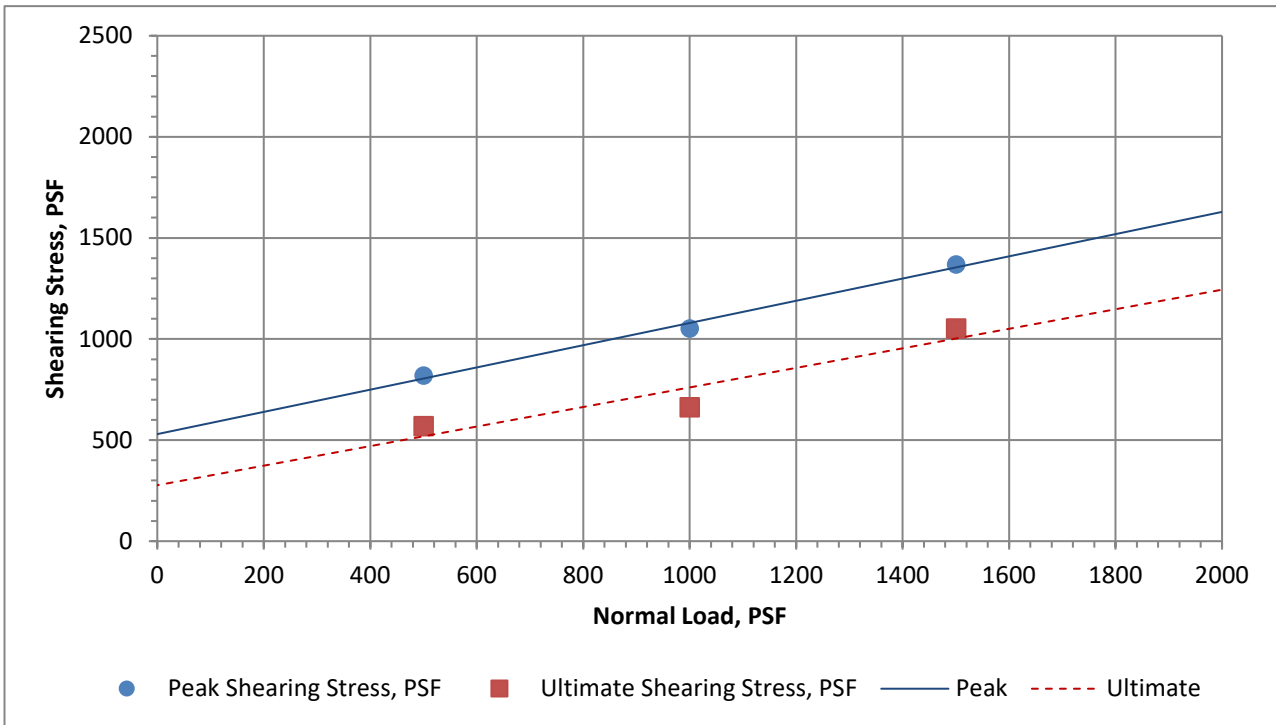
Sample ID	Symbol	Depth, feet	Dry Density, PCF	Average deg. of saturation
B1	●	5'	105	97
			Peak	Ultimate
Angle of friction, (degrees)			30	29
Cohesive Strength (PSF)			346	141

Direct Shear Test

Duke



J.N. 25-123



Sample Description: (CL) - Olive grey fine sandy clay w/ occ. medium to coarse sand

DIRECT SHEAR DATA (ASTM D-3080)

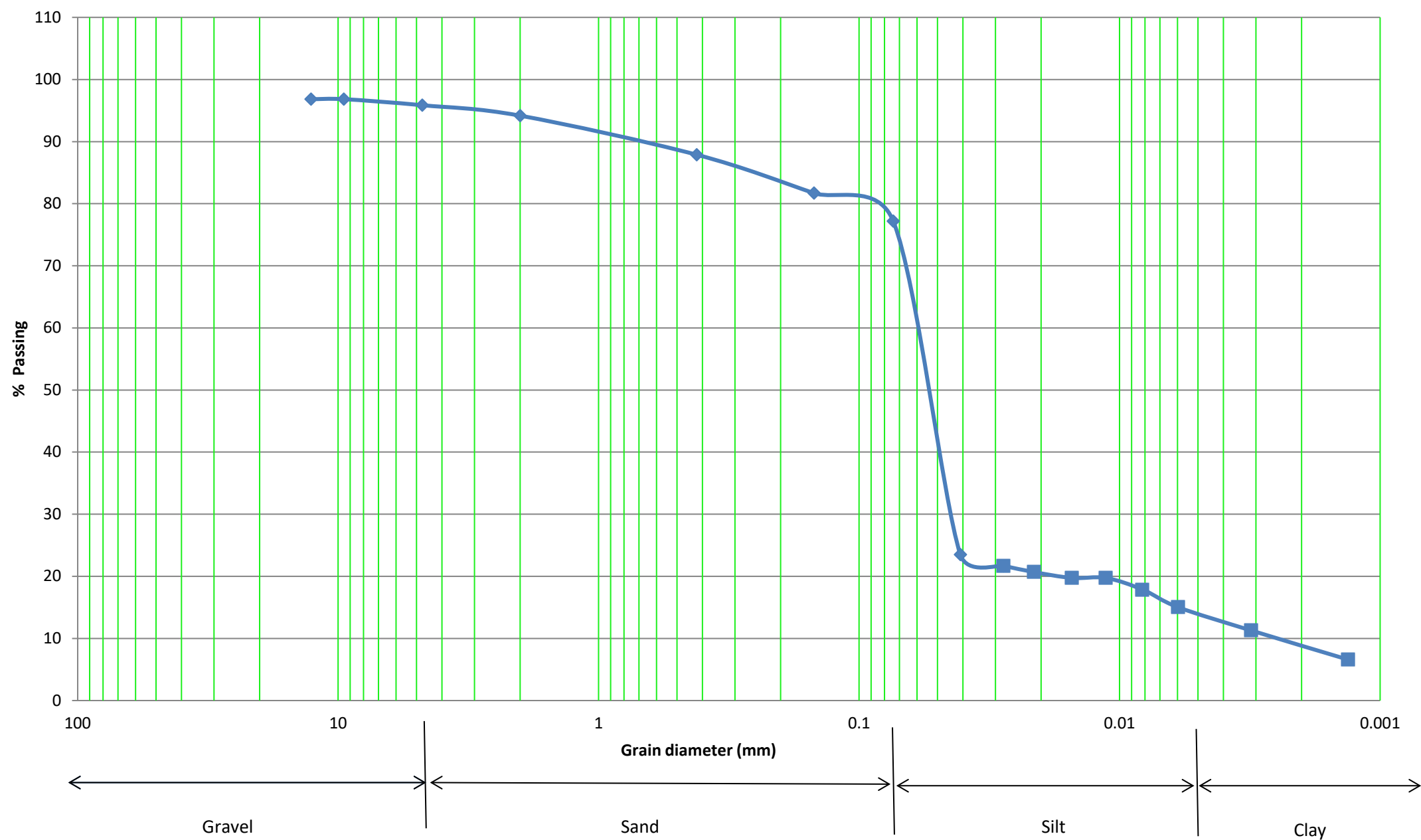
Sample ID	Symbol	Depth, feet	Dry Density, PCF	Average deg. of saturation
B1	●	10'	108	97
			Peak	Ultimate
Angle of friction, (degrees)			29	26
Cohesive Strength (PSF)			530	277

Direct Shear Test

Duke



J.N. 25-123



Grain Size Distribution Curve (ASTM D422)

Job Number: 25-123

Client Name: Duke

Sample I.D.: [B3 @ 1'](#)

Coefficient of Uniformity, Cu: 70.00

Particle range, mm: 12.699



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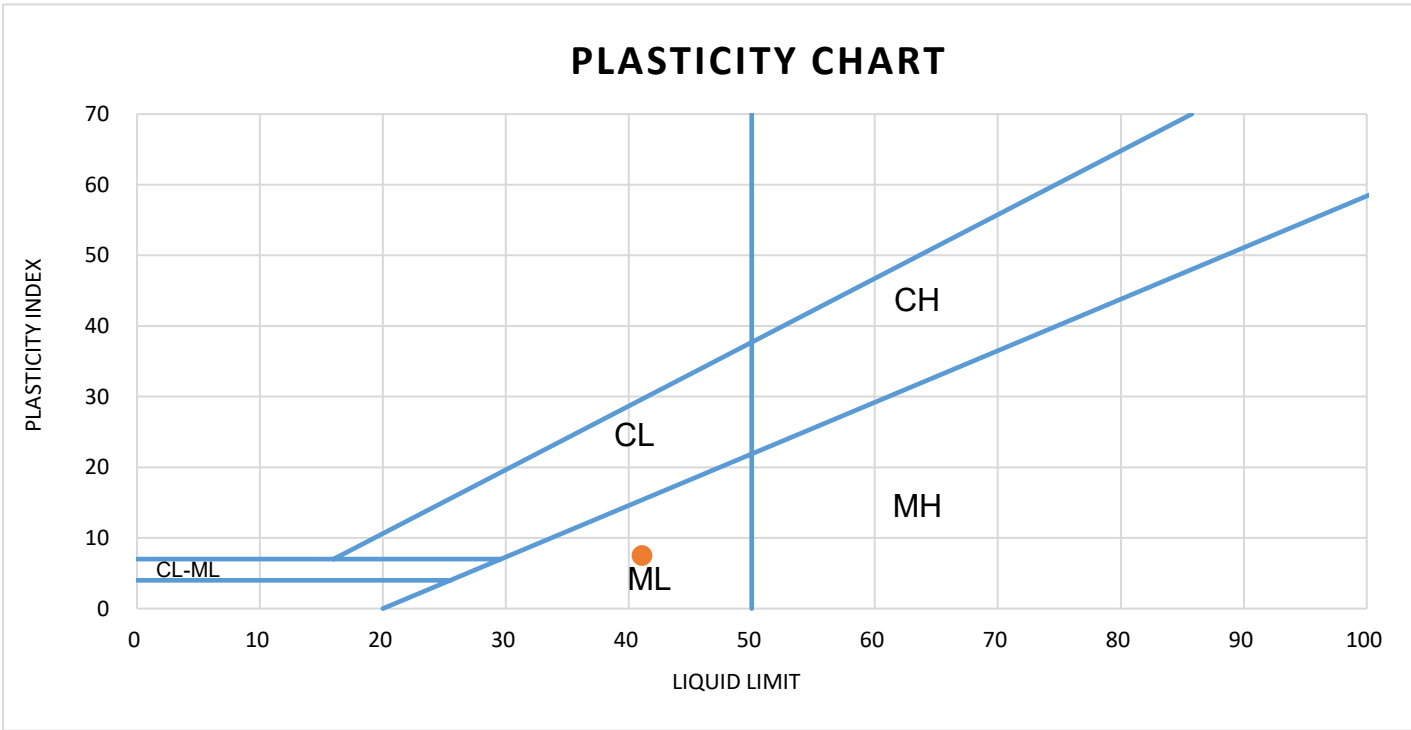
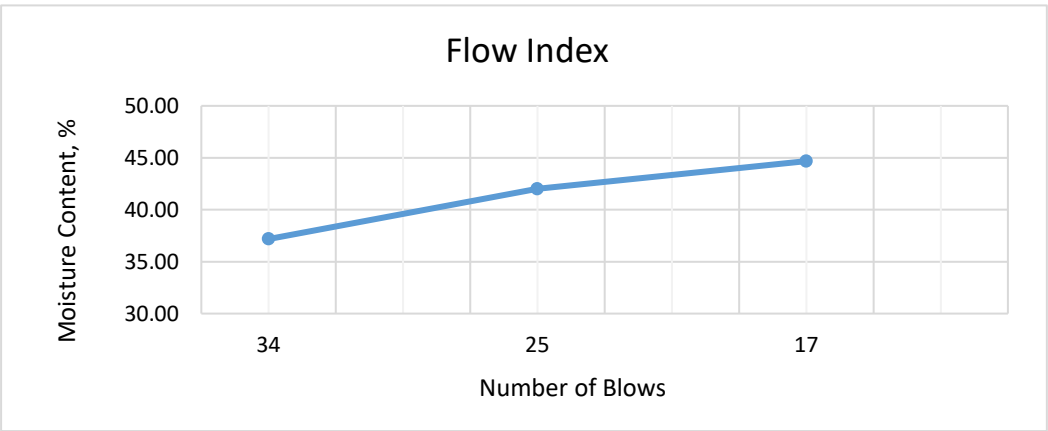
Plasticity Index ASTM D4318

Job Number: 25-123
Client: Duke
Lab ID Number: B8 @ 2'
Description: (ML) Light grey fine sandy silt

Apr. 7, 2025

Data Summary			
Number of Blows:	34.0	25.0	17.0
Water Content:	37%	42%	45%

Liquid Limit:	41
Plastic Limit:	34
Plasticity Index:	7



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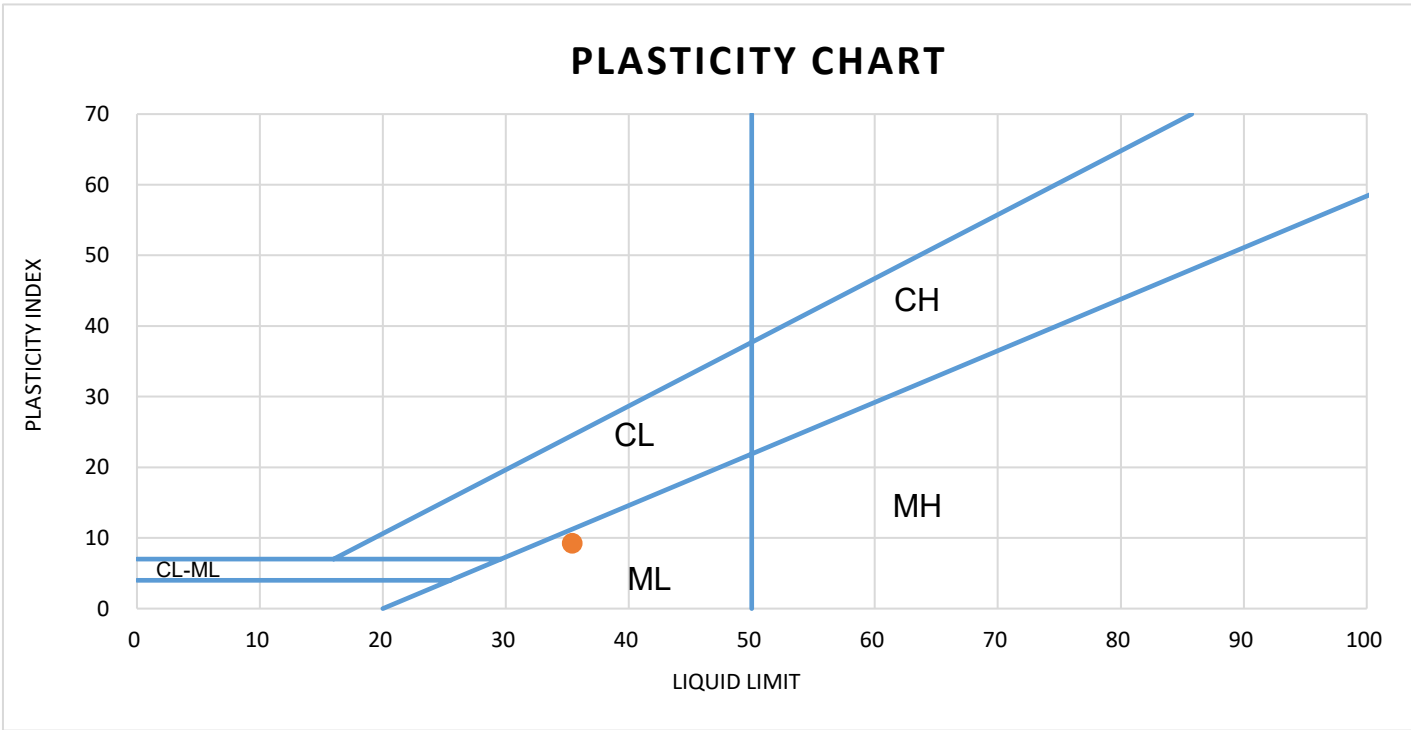
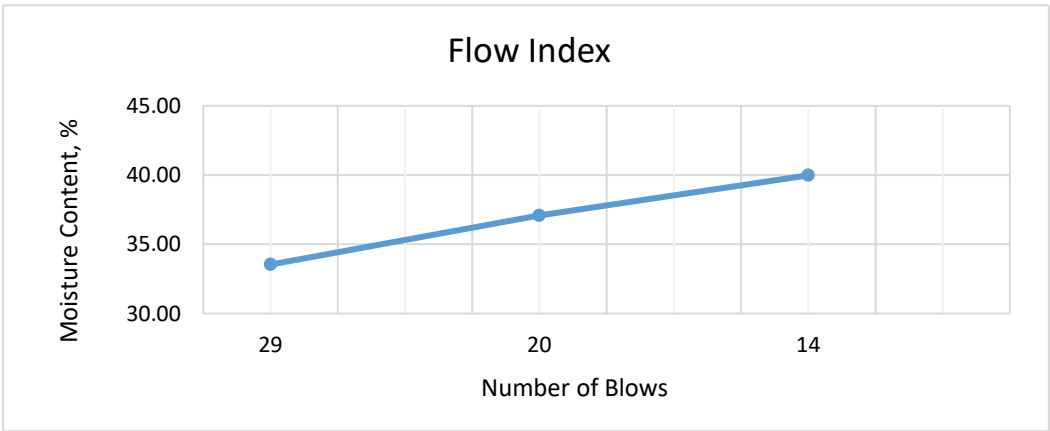
Plasticity Index ASTM D4318

Job Number: 25-123
Client: Duke
Lab ID Number: B3 @ 3'
Description: (ML) Light grey clayey silt w/ occ. fine to medium sand

Apr. 1, 2025

Data Summary			
Number of Blows:	29.0	20.0	14.0
Water Content:	34%	37%	40%

Liquid Limit:	35
Plastic Limit:	26
Plasticity Index:	9



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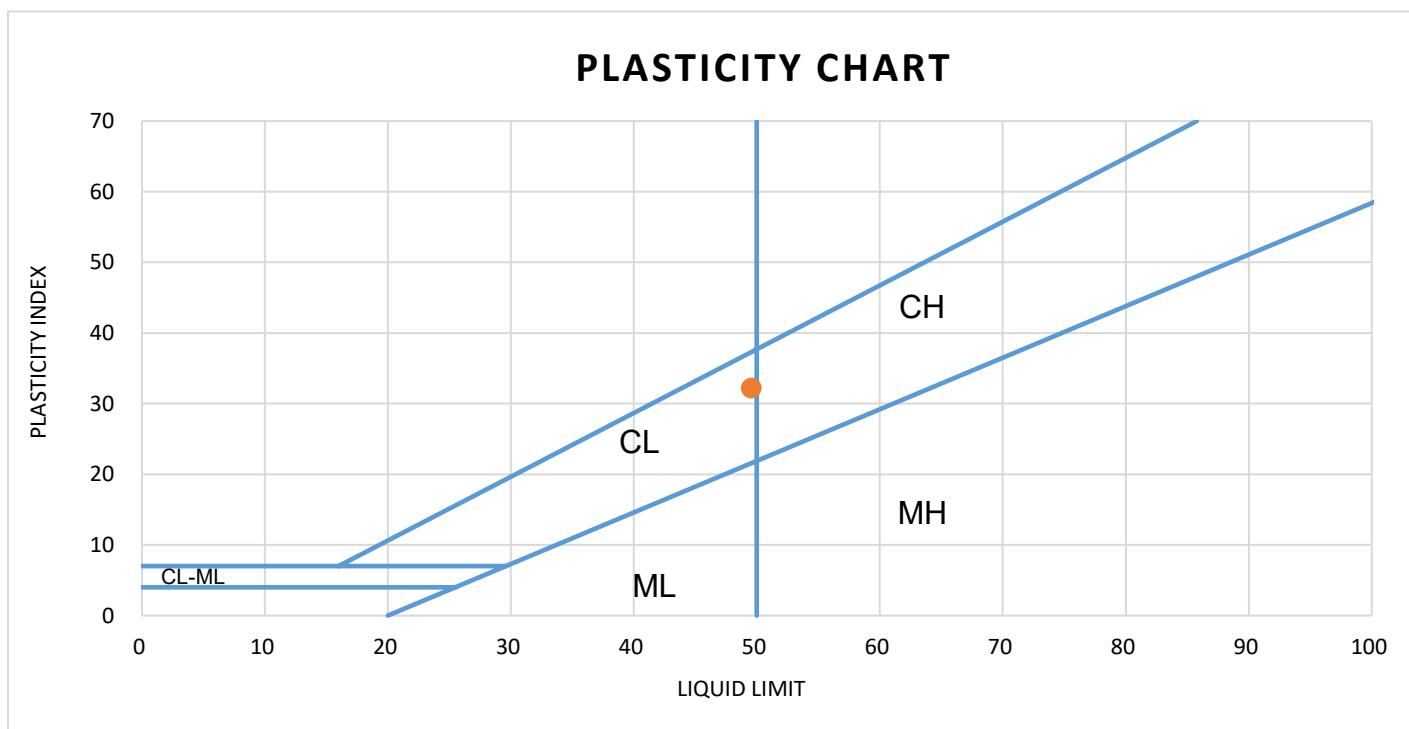
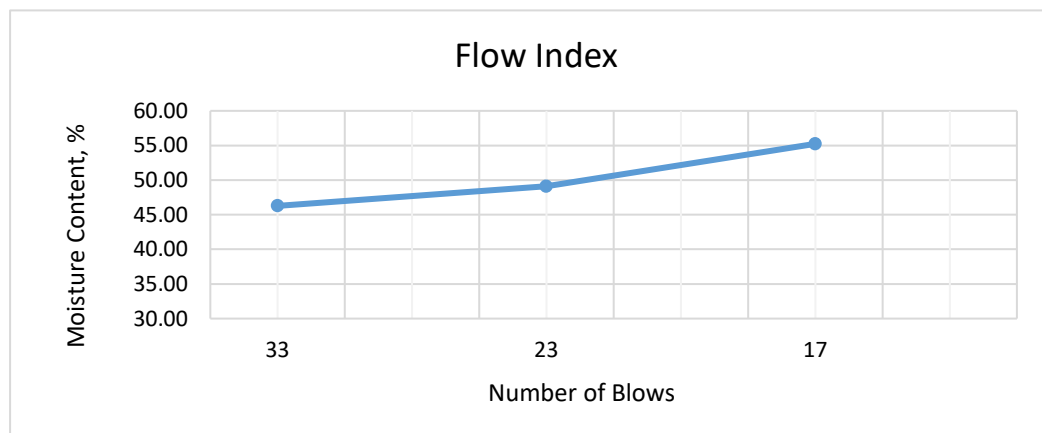
Plasticity Index ASTM D4318

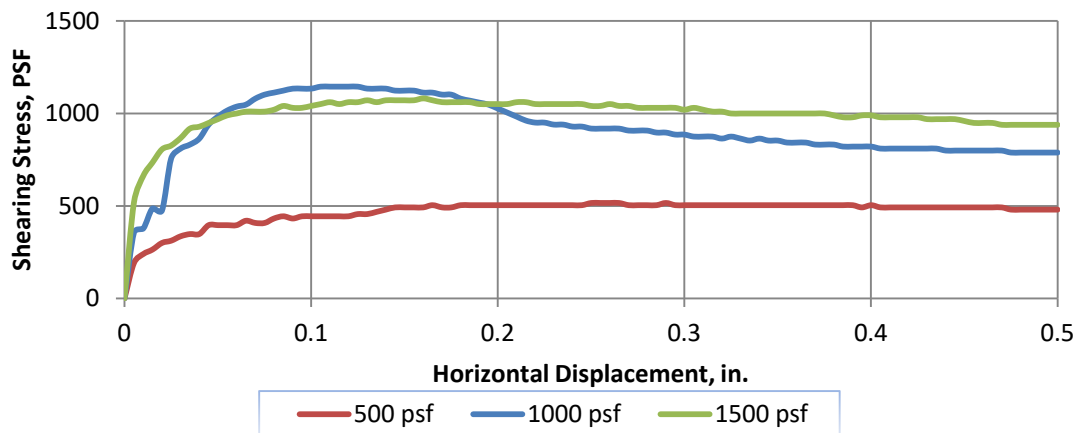
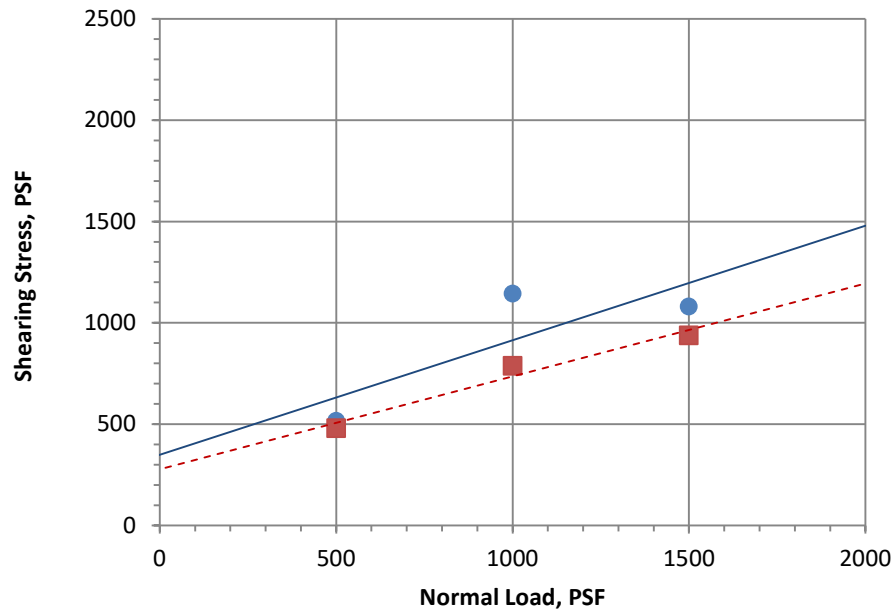
Job Number: 25-123
Client: Duke
Lab ID Number: B2 @ 4
Description: (CL) Dark Olive grey silty clay w/ fine to medium sand

Feb. 28, 2025

Data Summary			
Number of Blows:	33.0	23.0	17.0
Water Content:	46%	49%	55%

Liquid Limit:	50
Plastic Limit:	17
Plasticity Index:	32





Sample Description: (SC) - Light brown clayey fine to medium sand w/ occ. #4 to 3/4" gravel

DIRECT SHEAR DATA (ASTM D-3080)

Sample ID	Symbol	Depth, feet	Dry Density, PCF	Average deg. of saturation
B7	●	0-5'	90	92

* Sample remolded to 90% relative compaction as determined by ASTM D-1557 Test Method

	Peak	Ultimate
Angle of friction, (degrees)	29	25
Cohesive Strength (PSF)	349	277

Direct Shear Test

Duke



25-123

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Maximum Density/Optimum Moisture Proctor ASTM D698/D1557

Project Number: 25-123

March 17, 2025

Project Name: Duke

ASTM D-1557 A

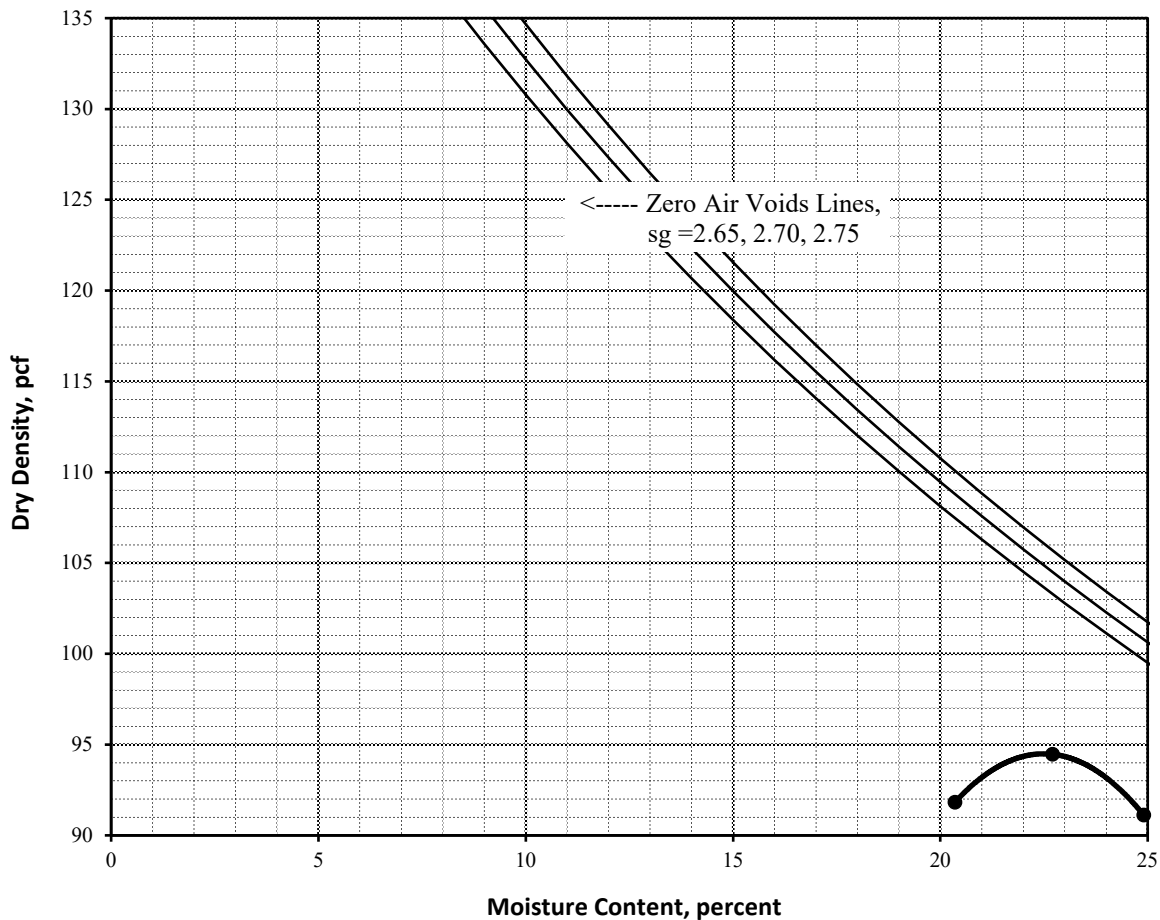
Lab ID Number: B2 @ 0-5'

Rammer Type: 10#

Sample Location: Lancaster, Los Angeles County, California

Description: Light brown fine to medium sandy clay with occ. #4 to 3/8" gravel

		Sieve Size	% Retained
Maximum Density:	94.5 pcf	3/4"	0.3
Optimum Moisture:	22.5%	3/8"	1.5
		#4	4.5



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Maximum Density/Optimum Moisture Proctor ASTM D698/D1557

Project Number: 25-123

March 17, 2025

Project Name: Duke

ASTM D-1557 A

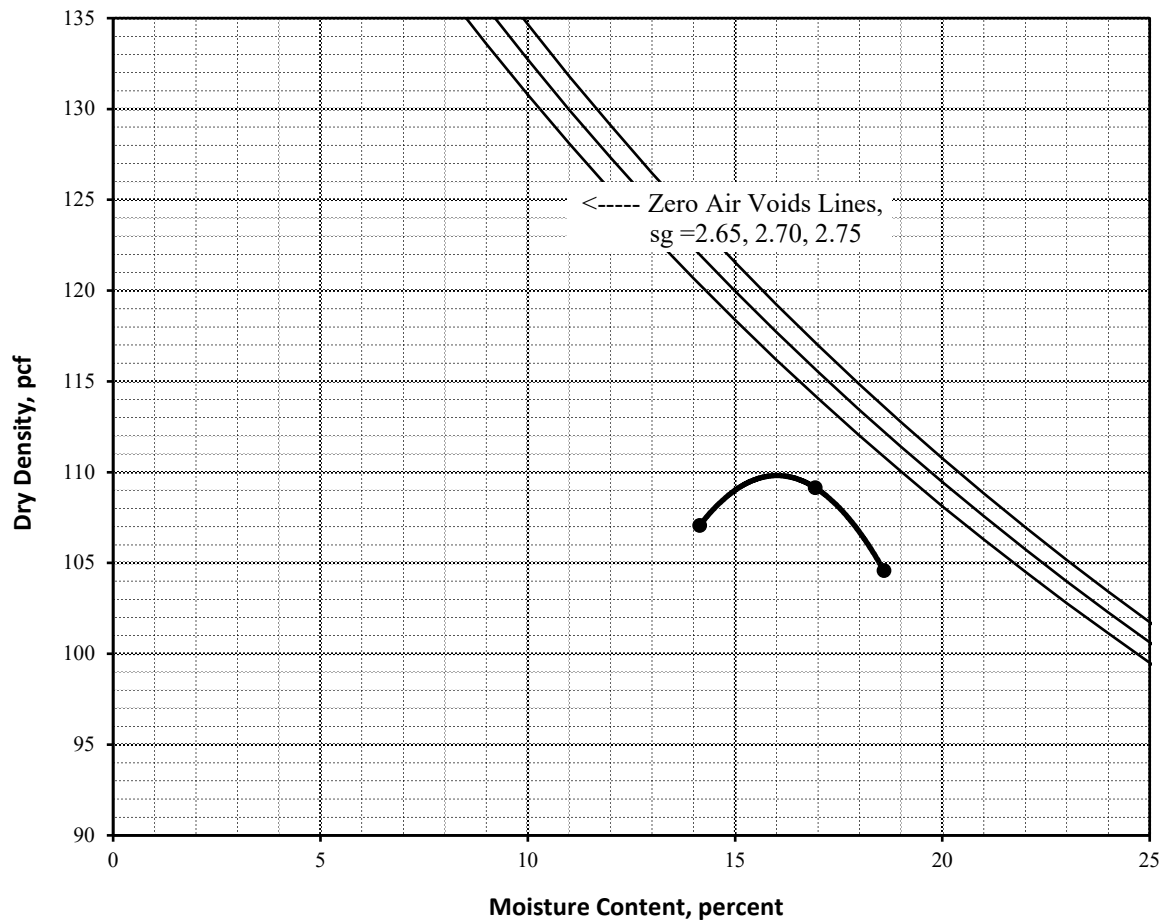
Lab ID Number: B7 @ 0-5'

Rammer Type: 10#

Sample Location: Lancaster, Los Angeles County, California

Description: (SC) Light brown clayey fine to medium sand w/ occ. #4 to 4/4" gravel

		Sieve Size	% Retained
Maximum Density:	110 pcf	3/4"	2.2
Optimum Moisture:	16%	3/8"	7.4
		#4	13.3



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Expansion Index Test UBC Std. 29-2 / ASTM D4829

Job Number: 25-123
Client: Dike
Lab ID Number: B7 @ 0-5'
Sample Location: Lancaster, Los Angeles County, California
Description: Light brown clayey fine to medium sand w/ occ. #4 to 3/4" gravel

Date Tested: 2/27/2025

Water Added (mL)	N/A
Weight of Soil and Mold (gm)	575.3
Weight of Mold (gm)	196.7
Weight of Soil (gm)	378.6
Weight of Soil (lb.)	0.835
Wet Density (lbs./cu.ft.)	114.2
Moisture Sample (wet weight, gm)	132.0
Moisture Sample (dry weight, gm)	116.9
Percent Moisture (%)	12.9
Dry Density (lbs./cu.ft.)	101.1
Specific Gravity	2.7
Degree of Saturation (%)	52

ASTM Saturation required = 50% +/-2%.

Time	Dial Reading
8:40 AM	0.0000
Final Time	Final Reading
9:00 PM	0.0011

Voumetric Swell	0.11%
-----------------	-------

EXPANSION INDEX = 1

Expansion Potential Table	
Expansion Index	Potential Expansion
0-20	Very Low
21-50	Low
51-90	Medium
91-130	High
> 130	Very High

ANAHEIM TEST LAB, INC

196 Technology Drive, Unit D
Irvine, CA 92618
Phone (949) 336-6544

Bruin Geotechnical Services, Inc.
44732 Yucca Avenue
Lancaster, CA 93534

DATE: 3/5/2025

P.O. NO.: Transmittal

LAB NO.: C-8675

SPECIFICATION: CTM-643/417/422

MATERIAL: Soil

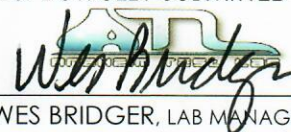
Project No.: 25-123
Project: Duke – Truck Stop
Vicinity of 25th St W & Ave H, Lancaster, CA
Sample ID: B7 @ 0-5'

ANALYTICAL REPORT

CORROSION SERIES SUMMARY OF DATA

pH	MIN. RESISTIVITY per CT. 643 ohm-cm	SOLUBLE SULFATES per CT. 417 (% by weight)	SOLUBLE CHLORIDES per CT. 422 ppm
7.5	1,600	0.0362%	96

RESPECTFULLY SUBMITTED


WES BRIDGER, LAB MANAGER

ANAHEIM TEST LAB, INC

196 Technology Drive, Unit D
Irvine, CA 92618
Phone (949) 336-6544

TO:

Bruin Geotechnical Services, Inc.
44732 Yucca Avenue
Lancaster, CA 93534

DATE: 3/12/2025

P.O. NO.: Transmittal

LAB NO.: C-8675

SPECIFICATION: CA 301

MATERIAL: Brown, Clayey Silt

Project No.: 25-123
Project: Duke – Truck Stop
Vicinity of 25th St W & Ave H, Lancaster, CA
Boring ID: B2 @ 0-5'

ANALYTICAL REPORT

"R" VALUE

BY EXUDATION

BY EXPANSION

30

16

RESPECTFULLY SUBMITTED



WES BRIDGER LAB MANAGER

"R" VALUE CA 301

Client: Bruin Geotechnical Services, Inc.

ATL No.: C 8675

Date: 3/12/2025

Client Reference No.: 25-123

Sample: B2 @ 0-5'

Soil Type: Brown, Clayey Silt

TEST SPECIMEN		A	B	C	D
Compactor Air Pressure	psi	70	200	100	
Initial Moisture Content	%	20.3	20.3	20.3	
Moisture at Compaction	%	30.3	28.3	29.3	
Briquette Height	in.	2.48	2.47	2.50	
Dry Density	pcf	88.9	92.1	90.3	
EXUDATION PRESSURE	psi	246	404	326	
EXPANSION PRESSURE	psf	225	442	325	
Ph at 1000 pounds	psi	45	30	37	
Ph at 2000 pounds	psi	107	76	93	
Displacement	turns	3.92	3.58	3.73	
"R" Value		24	44	33	
CORRECTED "R" VALUE		24	44	33	

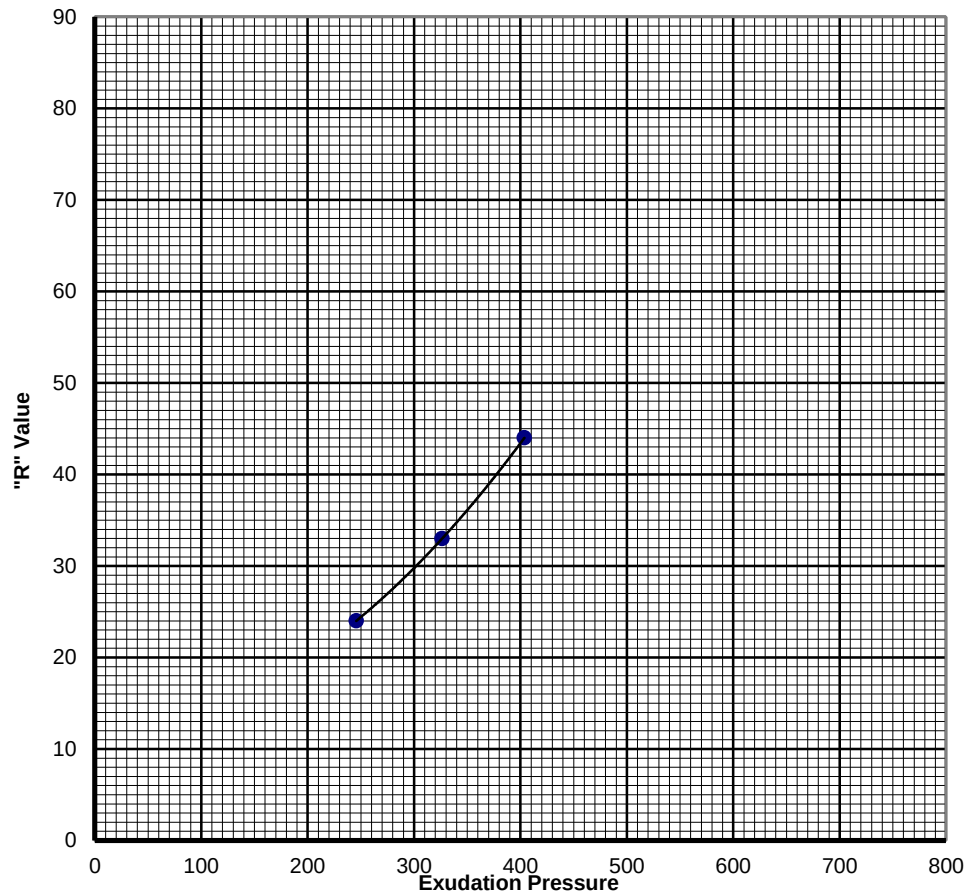
Final "R" Value

BY EXUDATION:
@ 300 psi

30

BY EXPANSION:
TI = 5.0

16



APPENDIX C

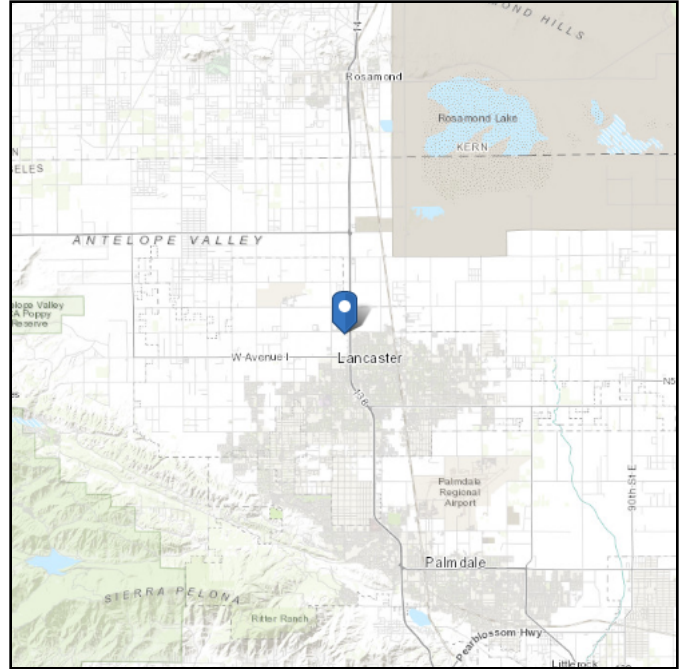
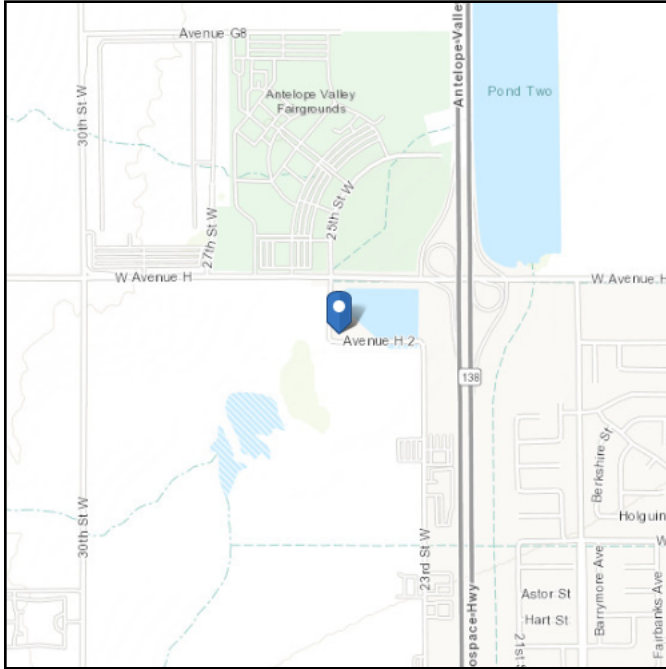
ASCE Seismic Design Summary Report

ASCE Hazards Report

Address:
No Address at This Location

Standard: ASCE/SEI 7-16
Risk Category: II
Soil Class: D - Stiff Soil

Latitude: 34.717066
Longitude: -118.174678
Elevation: 2310.707186252339 ft (NAVD 88)



Site Soil Class: D - Stiff Soil

Results:

S_S :	1.5	S_{D1} :	N/A
S_1 :	0.6	T_L :	12
F_a :	1	PGA :	0.549
F_v :	N/A	PGA_M :	0.604
S_{MS} :	1.5	F_{PGA} :	1.1
S_{M1} :	N/A	I_e :	1
S_{DS} :	1	C_v :	1.4

Ground motion hazard analysis may be required. See ASCE/SEI 7-16 Section 11.4.8.

Data Accessed: Wed Apr 16 2025

Date Source: [USGS Seismic Design Maps](#)

The ASCE Hazard Tool is provided for your convenience, for informational purposes only, and is provided “as is” and without warranties of any kind. The location data included herein has been obtained from information developed, produced, and maintained by third party providers; or has been extrapolated from maps incorporated in the ASCE standard. While ASCE has made every effort to use data obtained from reliable sources or methodologies, ASCE does not make any representations or warranties as to the accuracy, completeness, reliability, currency, or quality of any data provided herein. Any third-party links provided by this Tool should not be construed as an endorsement, affiliation, relationship, or sponsorship of such third-party content by or from ASCE.

ASCE does not intend, nor should anyone interpret, the results provided by this Tool to replace the sound judgment of a competent professional, having knowledge and experience in the appropriate field(s) of practice, nor to substitute for the standard of care required of such professionals in interpreting and applying the contents of this Tool or the ASCE standard.

In using this Tool, you expressly assume all risks associated with your use. Under no circumstances shall ASCE or its officers, directors, employees, members, affiliates, or agents be liable to you or any other person for any direct, indirect, special, incidental, or consequential damages arising from or related to your use of, or reliance on, the Tool or any information obtained therein. To the fullest extent permitted by law, you agree to release and hold harmless ASCE from any and all liability of any nature arising out of or resulting from any use of data provided by the ASCE Hazard Tool.

APPENDIX D

USGS Unified Hazard Report

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) (unknown)

Latitude

Decimal degrees

34.717066

Longitude

Decimal degrees, negative values for western longitudes

-118.174678

Site Class

259 m/s (Site class D)

Spectral Period

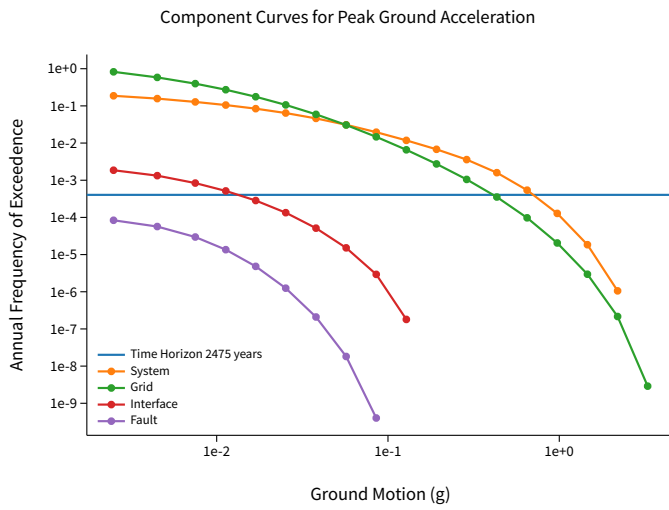
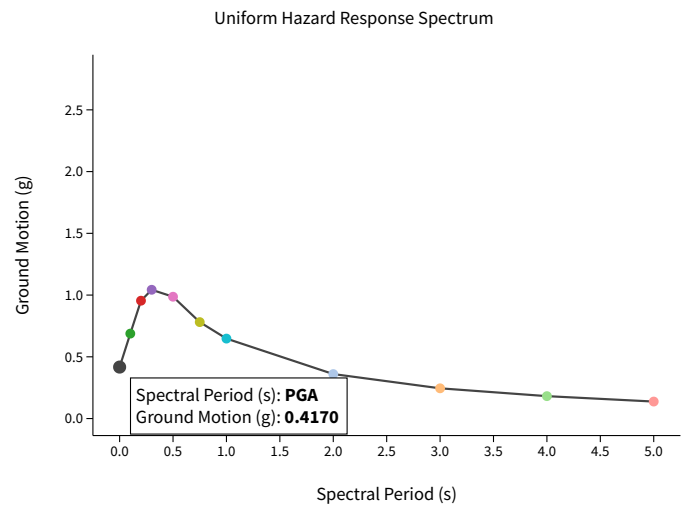
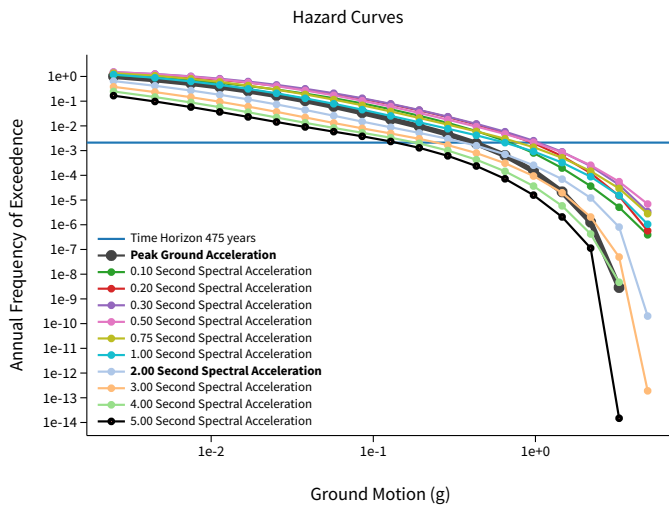
Peak Ground Acceleration

Time Horizon

Return period in years

475

^ Hazard Curve

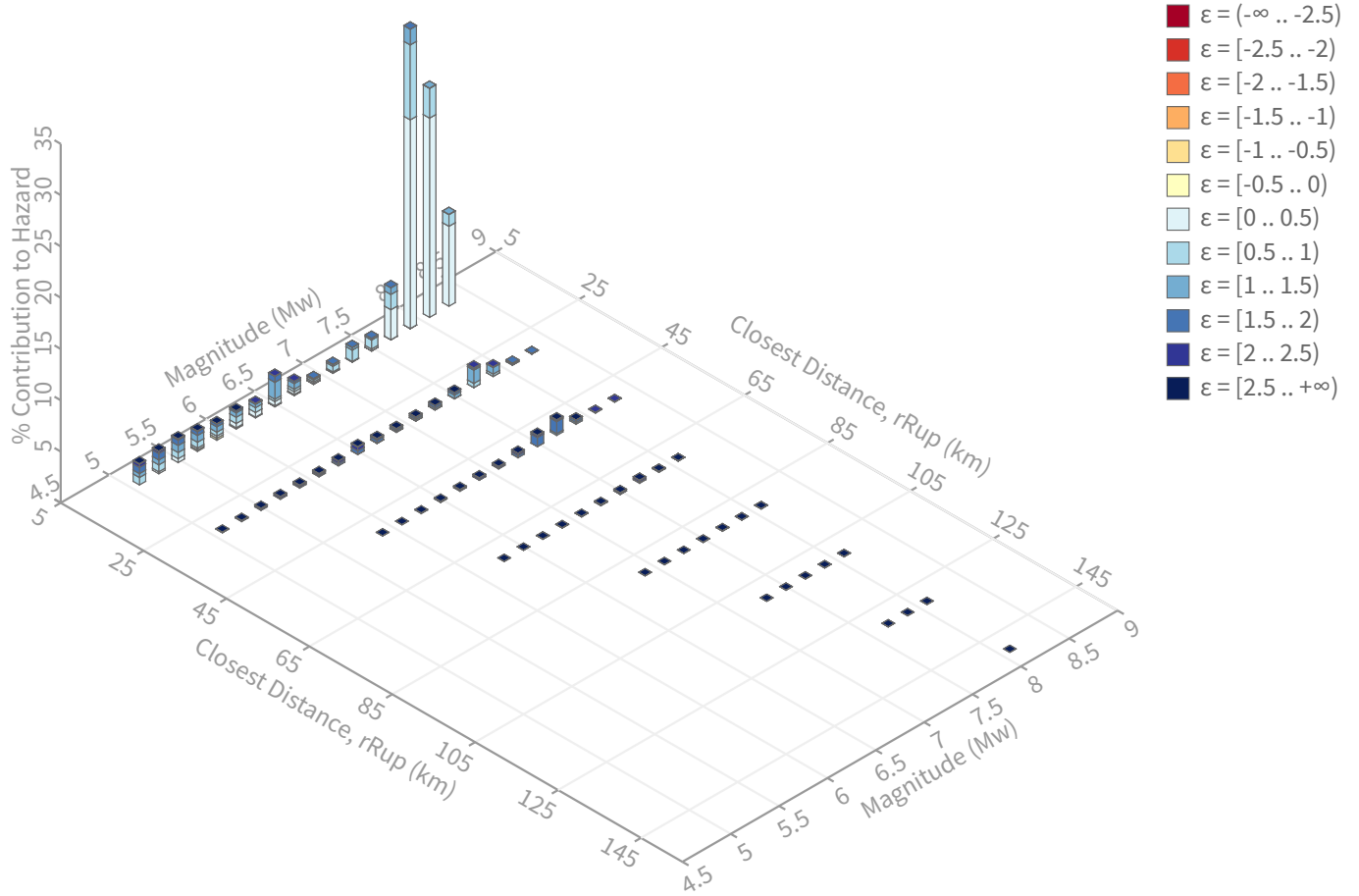


[View Raw Data](#)

^ Deaggregation

Component

Total



Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 475 yrs
Exceedance rate: 0.0021052632 yr⁻¹
PGA ground motion: 0.41697079 g

Recovered targets

Return period: 506.90525 yrs
Exceedance rate: 0.0019727553 yr⁻¹

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.17 %

Mean (over all sources)

m: 7.5
r: 16.93 km
ε₀: 0.7 σ

Mode (largest m-r bin)

m: 7.9
r: 14.5 km
ε₀: 0.45 σ
Contribution: 29.19 %

Mode (largest m-r-ε₀ bin)

m: 7.9
r: 14.48 km
ε₀: 0.33 σ
Contribution: 20.35 %

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	ϵ_0	lon	lat	az	%
UC33brAvg_FM32	San Andreas (Mojave S) [4]	System	14.46	7.97	0.41	118.240°W	34.599°N	204.45	41.09
									33.28
UC33brAvg_FM31	San Andreas (Mojave S) [4]	System	14.46	7.97	0.41	118.240°W	34.599°N	204.45	40.80
									33.19
UC33brAvg_FM31 (opt)	PointSourceFinite: -118.175, 34.740	Grid	5.68	5.59	0.51	118.175°W	34.740°N	0.00	9.06
	PointSourceFinite: -118.175, 34.740		5.68	5.59	0.51	118.175°W	34.740°N	0.00	1.19
									1.19
UC33brAvg_FM32 (opt)	PointSourceFinite: -118.175, 34.740	Grid	5.68	5.59	0.51	118.175°W	34.740°N	0.00	9.05
	PointSourceFinite: -118.175, 34.740		5.68	5.59	0.51	118.175°W	34.740°N	0.00	1.19
									1.19

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) (unknown)

Latitude

Decimal degrees

34.717066

Longitude

Decimal degrees, negative values for western longitudes

-118.174678

Site Class

259 m/s (Site class D)

Spectral Period

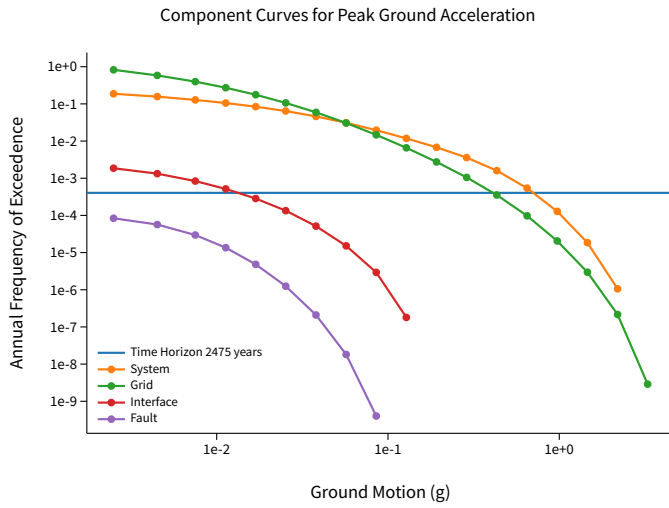
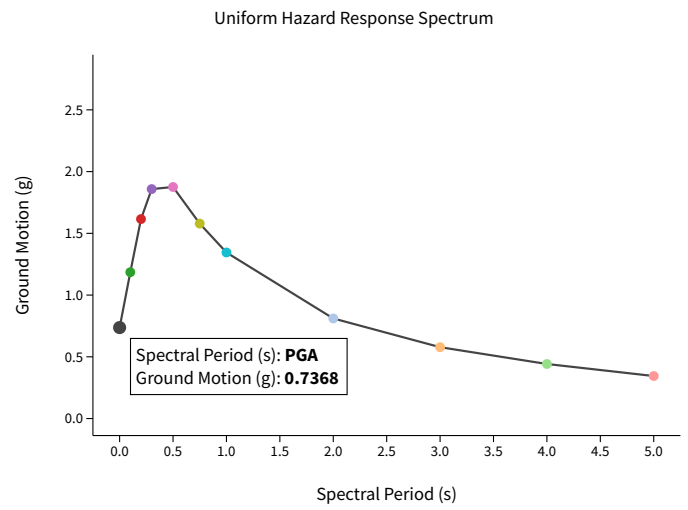
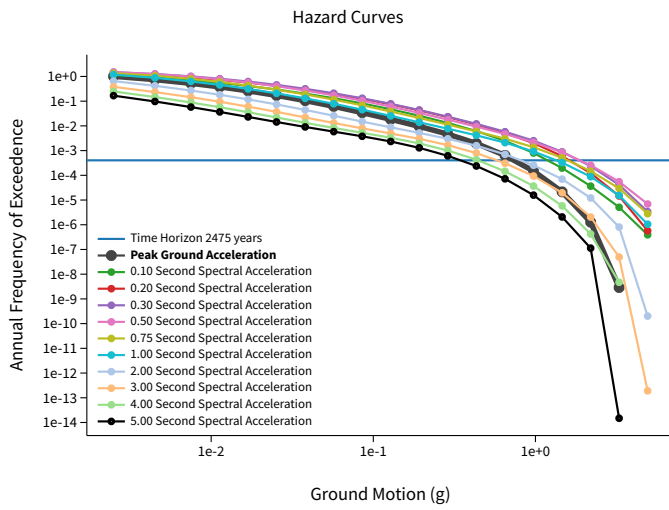
Peak Ground Acceleration

Time Horizon

Return period in years

2475

^ Hazard Curve

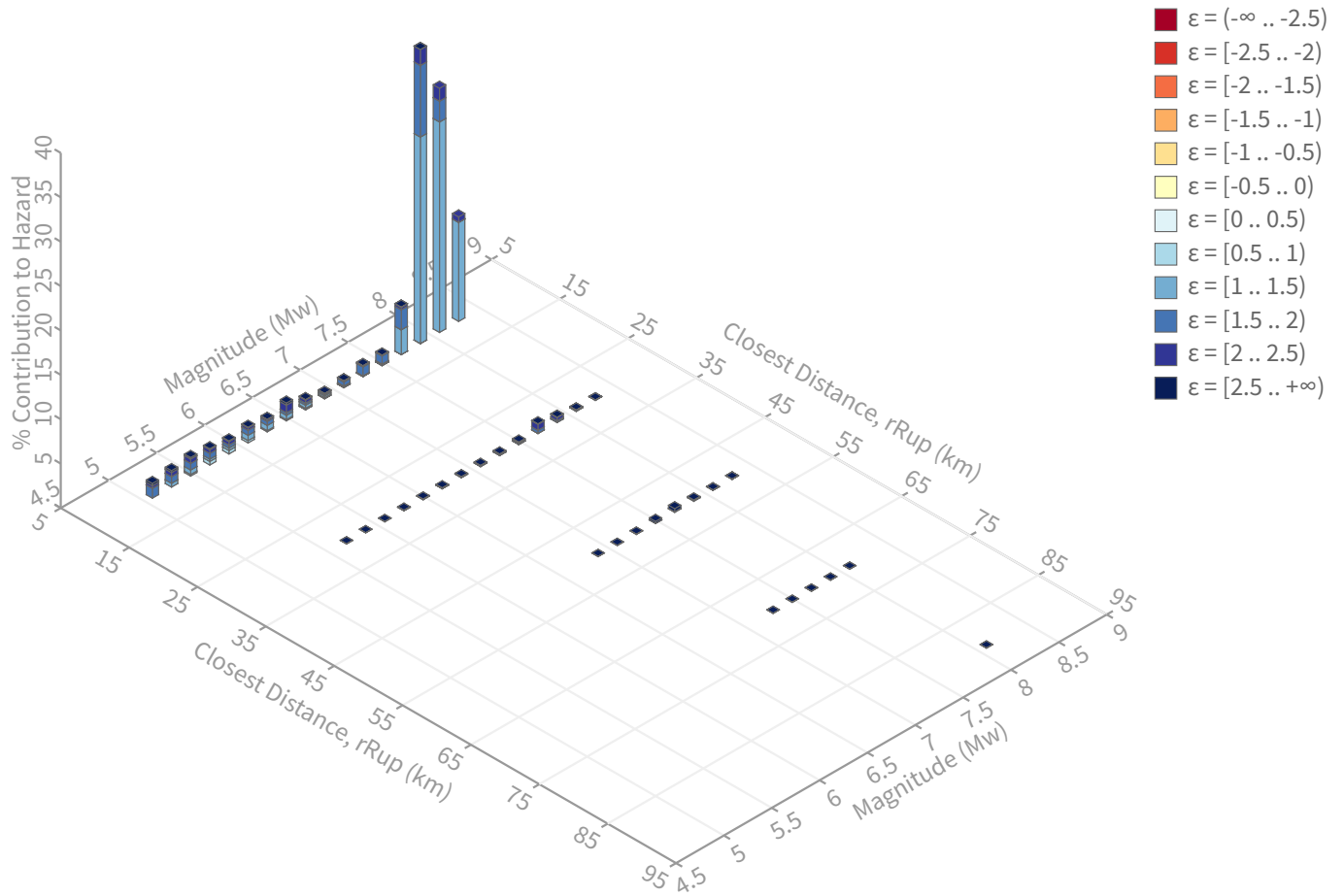


[View Raw Data](#)

Deaggregation

Component

Total



Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr⁻¹
PGA ground motion: 0.73683799 g

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.12 %

Mode (largest m-r bin)

m: 7.9
r: 14.5 km
ε₀: 1.47 σ
Contribution: 33.1 %

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

Recovered targets

Return period: 2975.4903 yrs
Exceedance rate: 0.00033607906 yr⁻¹

Mean (over all sources)

m: 7.65
r: 14.32 km
ε₀: 1.5 σ

Mode (largest m-r-ε₀ bin)

m: 8.1
r: 14.46 km
ε₀: 1.3 σ
Contribution: 23.71 %

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	ϵ_0	lon	lat	az	%
UC33brAvg_FM32	San Andreas (Mojave S) [4]	System	14.46	7.99	1.42	118.240°W	34.599°N	204.45	42.57
									39.05
UC33brAvg_FM31	San Andreas (Mojave S) [4]	System	14.46	7.99	1.42	118.240°W	34.599°N	204.45	42.40
									38.95
UC33brAvg_FM31 (opt)	PointSourceFinite: -118.175, 34.740	Grid	5.64	5.64	1.35	118.175°W	34.740°N	0.00	7.52
	PointSourceFinite: -118.175, 34.740		5.64	5.64	1.35	118.175°W	34.740°N	0.00	1.65
									1.65
UC33brAvg_FM32 (opt)	PointSourceFinite: -118.175, 34.740	Grid	5.64	5.64	1.35	118.175°W	34.740°N	0.00	7.51
	PointSourceFinite: -118.175, 34.740		5.64	5.64	1.35	118.175°W	34.740°N	0.00	1.65
									1.65

APPENDIX E

Two-Thirds PGAm Analysis Data

LIQUEFACTION ANALYSIS CALCULATION DETAILS

Copyright by CivilTech Software

www.civiltech.com

Font: Courier New, Regular, Size 8 is recommended for this report.

Licensed to , 4/16/2025 2:11:27 PM

Input File Name: E:\Liquefy5\25-123 PGAm (Two-thirds).liq

Title: Two-Thirds PGAm

Subtitle: 25-123 Duke - Truckstop

Input Data:

Surface Elev.=

Hole No.=

Depth of Hole=50.00 ft

Water Table during Earthquake= 100.00 ft

Water Table during In-Situ Testing= 100.00 ft

Max. Acceleration=0.4 g

Earthquake Magnitude=7.80

No-Liquefiable Soils: CL, OL are Non-Liq. Soil

1. SPT or BPT Calculation.

2. Settlement Analysis Method: Ishihara / Yoshimine

3. Fines Correction for Liquefaction: Stark/Olson et al.*

4. Fine Correction for Settlement: During Liquefaction*

5. Settlement Calculation in: All zones*

6. Hammer Energy Ratio,

Ce = 1.25

7. Borehole Diameter,

Cb= 1.15

8. Sampling Method,

Cs= 1.2

9. User request factor of safety (apply to CSR) , User= 1.3

Plot one CSR curve (fs1=User)

10. Average two input data between two Depths: Yes*

* Recommended Options

In-Situ Test Data:

Depth ft	SPT	Gamma pcf	Fines %
-------------	-----	--------------	------------

1.50	14.00	80.30	NoLiq
3.00	18.00	81.60	NoLiq
4.50	17.00	92.30	49.00
6.00	22.00	110.50	12.00
7.50	20.00	109.70	17.00
9.00	20.00	95.70	36.00
10.50	20.00	108.50	36.00
12.00	32.00	111.50	4.00
13.50	35.00	112.20	4.00
15.00	19.00	96.20	37.00
16.50	14.00	102.10	37.00
18.00	14.00	86.40	NoLiq
19.50	18.00	82.10	NoLiq
21.00	20.00	81.90	NoLiq
22.50	19.00	83.40	NoLiq
24.00	20.00	85.10	NoLiq
25.50	15.00	76.60	NoLiq
27.00	18.00	95.10	54.00
28.50	17.00	80.10	NoLiq
30.00	17.00	84.90	NoLiq
31.50	15.00	85.60	NoLiq
33.00	16.00	80.30	NoLiq
34.50	17.00	84.70	NoLiq
36.00	14.00	81.20	NoLiq
37.50	14.00	79.50	NoLiq
39.00	17.00	76.10	NoLiq
40.50	19.00	80.20	NoLiq
42.00	14.00	81.60	NoLiq
43.50	18.00	83.50	NoLiq
45.00	12.00	86.40	NoLiq
46.50	16.00	85.10	NoLiq

48.00	15.00	91.10	37.00
49.50	26.00	96.10	32.00

Output Results:

Calculation segment, dz=0.050 ft

User defined Print Interval, dp=0.05 ft

Peak Ground Acceleration (PGA), a_max = 0.40g

CSR Calculation:

Depth ft	gamma pcf	sigma atm	gamma' pcf	sigma' atm	rd	mZ g	a(z) g	CSR	x fs1	=CSRfs
1.50	80.30	0.057	80.30	0.057	1.00	0.000	0.402	0.26	1.30	0.34
1.55	80.34	0.059	80.34	0.059	1.00	0.000	0.402	0.26	1.30	0.34
1.60	80.39	0.061	80.39	0.061	1.00	0.000	0.402	0.26	1.30	0.34
1.65	80.43	0.063	80.43	0.063	1.00	0.000	0.402	0.26	1.30	0.34
1.70	80.47	0.065	80.47	0.065	1.00	0.000	0.402	0.26	1.30	0.34
1.75	80.52	0.066	80.52	0.066	1.00	0.000	0.402	0.26	1.30	0.34
1.80	80.56	0.068	80.56	0.068	1.00	0.000	0.402	0.26	1.30	0.34
1.85	80.60	0.070	80.60	0.070	1.00	0.000	0.402	0.26	1.30	0.34
1.90	80.65	0.072	80.65	0.072	1.00	0.000	0.402	0.26	1.30	0.34
1.95	80.69	0.074	80.69	0.074	1.00	0.000	0.402	0.26	1.30	0.34
2.00	80.73	0.076	80.73	0.076	1.00	0.000	0.402	0.26	1.30	0.34
2.05	80.78	0.078	80.78	0.078	1.00	0.000	0.402	0.26	1.30	0.34
2.10	80.82	0.080	80.82	0.080	1.00	0.000	0.402	0.26	1.30	0.34
2.15	80.86	0.082	80.86	0.082	0.99	0.000	0.402	0.26	1.30	0.34
2.20	80.91	0.084	80.91	0.084	0.99	0.000	0.402	0.26	1.30	0.34
2.25	80.95	0.085	80.95	0.085	0.99	0.000	0.402	0.26	1.30	0.34
2.30	80.99	0.087	80.99	0.087	0.99	0.000	0.402	0.26	1.30	0.34
2.35	81.04	0.089	81.04	0.089	0.99	0.000	0.402	0.26	1.30	0.34
2.40	81.08	0.091	81.08	0.091	0.99	0.000	0.402	0.26	1.30	0.34
2.45	81.12	0.093	81.12	0.093	0.99	0.000	0.402	0.26	1.30	0.34
2.50	81.17	0.095	81.17	0.095	0.99	0.000	0.402	0.26	1.30	0.34
2.55	81.21	0.097	81.21	0.097	0.99	0.000	0.402	0.26	1.30	0.34
2.60	81.25	0.099	81.25	0.099	0.99	0.000	0.402	0.26	1.30	0.34
2.65	81.30	0.101	81.30	0.101	0.99	0.000	0.402	0.26	1.30	0.34
2.70	81.34	0.103	81.34	0.103	0.99	0.000	0.402	0.26	1.30	0.34
2.75	81.38	0.105	81.38	0.105	0.99	0.000	0.402	0.26	1.30	0.34
2.80	81.43	0.107	81.43	0.107	0.99	0.000	0.402	0.26	1.30	0.34
2.85	81.47	0.109	81.47	0.109	0.99	0.000	0.402	0.26	1.30	0.34
2.90	81.51	0.110	81.51	0.110	0.99	0.000	0.402	0.26	1.30	0.34
2.95	81.56	0.112	81.56	0.112	0.99	0.000	0.402	0.26	1.30	0.34
3.00	81.60	0.114	81.60	0.114	0.99	0.000	0.402	0.26	1.30	0.34
3.05	81.96	0.116	81.96	0.116	0.99	0.000	0.402	0.26	1.30	0.34
3.10	82.31	0.118	82.31	0.118	0.99	0.000	0.402	0.26	1.30	0.34
3.15	82.67	0.120	82.67	0.120	0.99	0.000	0.402	0.26	1.30	0.34
3.20	83.03	0.122	83.03	0.122	0.99	0.000	0.402	0.26	1.30	0.34
3.25	83.38	0.124	83.38	0.124	0.99	0.000	0.402	0.26	1.30	0.34
3.30	83.74	0.126	83.74	0.126	0.99	0.000	0.402	0.26	1.30	0.34
3.35	84.10	0.128	84.10	0.128	0.99	0.000	0.402	0.26	1.30	0.34
3.40	84.45	0.130	84.45	0.130	0.99	0.000	0.402	0.26	1.30	0.34
3.45	84.81	0.132	84.81	0.132	0.99	0.000	0.402	0.26	1.30	0.34
3.50	85.17	0.134	85.17	0.134	0.99	0.000	0.402	0.26	1.30	0.34
3.55	85.52	0.136	85.52	0.136	0.99	0.000	0.402	0.26	1.30	0.34
3.60	85.88	0.138	85.88	0.138	0.99	0.000	0.402	0.26	1.30	0.34
3.65	86.24	0.140	86.24	0.140	0.99	0.000	0.402	0.26	1.30	0.34
3.70	86.59	0.142	86.59	0.142	0.99	0.000	0.402	0.26	1.30	0.34
3.75	86.95	0.144	86.95	0.144	0.99	0.000	0.402	0.26	1.30	0.34
3.80	87.31	0.146	87.31	0.146	0.99	0.000	0.402	0.26	1.30	0.34
3.85	87.66	0.148	87.66	0.148	0.99	0.000	0.402	0.26	1.30	0.34
3.90	88.02	0.150	88.02	0.150	0.99	0.000	0.402	0.26	1.30	0.34
3.95	88.38	0.152	88.38	0.152	0.99	0.000	0.402	0.26	1.30	0.34
4.00	88.73	0.154	88.73	0.154	0.99	0.000	0.402	0.26	1.30	0.34
4.05	89.09	0.157	89.09	0.157	0.99	0.000	0.402	0.26	1.30	0.34
4.10	89.45	0.159	89.45	0.159	0.99	0.000	0.402	0.26	1.30	0.34
4.15	89.80	0.161	89.80	0.161	0.99	0.000	0.402	0.26	1.30	0.34

4.20	90.16	0.163	90.16	0.163	0.99	0.000	0.402	0.26	1.30	0.34
4.25	90.52	0.165	90.52	0.165	0.99	0.000	0.402	0.26	1.30	0.34
4.30	90.87	0.167	90.87	0.167	0.99	0.000	0.402	0.26	1.30	0.34
4.35	91.23	0.169	91.23	0.169	0.99	0.000	0.402	0.26	1.30	0.34
4.40	91.59	0.171	91.59	0.171	0.99	0.000	0.402	0.26	1.30	0.34
4.45	91.94	0.174	91.94	0.174	0.99	0.000	0.402	0.26	1.30	0.34
4.50	92.30	0.176	92.30	0.176	0.99	0.000	0.402	0.26	1.30	0.34
4.55	92.91	0.178	92.91	0.178	0.99	0.000	0.402	0.26	1.30	0.34
4.60	93.51	0.180	93.51	0.180	0.99	0.000	0.402	0.26	1.30	0.34
4.65	94.12	0.182	94.12	0.182	0.99	0.000	0.402	0.26	1.30	0.34
4.70	94.73	0.185	94.73	0.185	0.99	0.000	0.402	0.26	1.30	0.34
4.75	95.33	0.187	95.33	0.187	0.99	0.000	0.402	0.26	1.30	0.34
4.80	95.94	0.189	95.94	0.189	0.99	0.000	0.402	0.26	1.30	0.34
4.85	96.55	0.191	96.55	0.191	0.99	0.000	0.402	0.26	1.30	0.34
4.90	97.15	0.194	97.15	0.194	0.99	0.000	0.402	0.26	1.30	0.34
4.95	97.76	0.196	97.76	0.196	0.99	0.000	0.402	0.26	1.30	0.34
5.00	98.37	0.198	98.37	0.198	0.99	0.000	0.402	0.26	1.30	0.34
5.05	98.97	0.201	98.97	0.201	0.99	0.000	0.402	0.26	1.30	0.34
5.10	99.58	0.203	99.58	0.203	0.99	0.000	0.402	0.26	1.30	0.34
5.15	100.19	0.205	100.19	0.205	0.99	0.000	0.402	0.26	1.30	0.34
5.20	100.79	0.208	100.79	0.208	0.99	0.000	0.402	0.26	1.30	0.34
5.25	101.40	0.210	101.40	0.210	0.99	0.000	0.402	0.26	1.30	0.34
5.30	102.01	0.212	102.01	0.212	0.99	0.000	0.402	0.26	1.30	0.34
5.35	102.61	0.215	102.61	0.215	0.99	0.000	0.402	0.26	1.30	0.34
5.40	103.22	0.217	103.22	0.217	0.99	0.000	0.402	0.26	1.30	0.34
5.45	103.83	0.220	103.83	0.220	0.99	0.000	0.402	0.26	1.30	0.34
5.50	104.43	0.222	104.43	0.222	0.99	0.000	0.402	0.26	1.30	0.34
5.55	105.04	0.225	105.04	0.225	0.99	0.000	0.402	0.26	1.30	0.34
5.60	105.65	0.227	105.65	0.227	0.99	0.000	0.402	0.26	1.30	0.34
5.65	106.25	0.230	106.25	0.230	0.99	0.000	0.402	0.26	1.30	0.34
5.70	106.86	0.232	106.86	0.232	0.99	0.000	0.402	0.26	1.30	0.34
5.75	107.47	0.235	107.47	0.235	0.99	0.000	0.402	0.26	1.30	0.34
5.80	108.07	0.237	108.07	0.237	0.99	0.000	0.402	0.26	1.30	0.34
5.85	108.68	0.240	108.68	0.240	0.99	0.000	0.402	0.26	1.30	0.34
5.90	109.29	0.242	109.29	0.242	0.99	0.000	0.402	0.26	1.30	0.34
5.95	109.89	0.245	109.89	0.245	0.99	0.000	0.402	0.26	1.30	0.33
6.00	110.50	0.247	110.50	0.247	0.99	0.000	0.402	0.26	1.30	0.33
6.05	110.47	0.250	110.47	0.250	0.99	0.000	0.402	0.26	1.30	0.33
6.10	110.45	0.253	110.45	0.253	0.99	0.000	0.402	0.26	1.30	0.33
6.15	110.42	0.255	110.42	0.255	0.99	0.000	0.402	0.26	1.30	0.33
6.20	110.39	0.258	110.39	0.258	0.99	0.000	0.402	0.26	1.30	0.33
6.25	110.37	0.260	110.37	0.260	0.99	0.000	0.402	0.26	1.30	0.33
6.30	110.34	0.263	110.34	0.263	0.99	0.000	0.402	0.26	1.30	0.33
6.35	110.31	0.266	110.31	0.266	0.99	0.000	0.402	0.26	1.30	0.33
6.40	110.29	0.268	110.29	0.268	0.99	0.000	0.402	0.26	1.30	0.33
6.45	110.26	0.271	110.26	0.271	0.98	0.000	0.402	0.26	1.30	0.33
6.50	110.23	0.274	110.23	0.274	0.98	0.000	0.402	0.26	1.30	0.33
6.55	110.21	0.276	110.21	0.276	0.98	0.000	0.402	0.26	1.30	0.33
6.60	110.18	0.279	110.18	0.279	0.98	0.000	0.402	0.26	1.30	0.33
6.65	110.15	0.281	110.15	0.281	0.98	0.000	0.402	0.26	1.30	0.33
6.70	110.13	0.284	110.13	0.284	0.98	0.000	0.402	0.26	1.30	0.33
6.75	110.10	0.287	110.10	0.287	0.98	0.000	0.402	0.26	1.30	0.33
6.80	110.07	0.289	110.07	0.289	0.98	0.000	0.402	0.26	1.30	0.33
6.85	110.05	0.292	110.05	0.292	0.98	0.000	0.402	0.26	1.30	0.33
6.90	110.02	0.294	110.02	0.294	0.98	0.000	0.402	0.26	1.30	0.33
6.95	109.99	0.297	109.99	0.297	0.98	0.000	0.402	0.26	1.30	0.33
7.00	109.97	0.300	109.97	0.300	0.98	0.000	0.402	0.26	1.30	0.33
7.05	109.94	0.302	109.94	0.302	0.98	0.000	0.402	0.26	1.30	0.33
7.10	109.91	0.305	109.91	0.305	0.98	0.000	0.402	0.26	1.30	0.33
7.15	109.89	0.307	109.89	0.307	0.98	0.000	0.402	0.26	1.30	0.33
7.20	109.86	0.310	109.86	0.310	0.98	0.000	0.402	0.26	1.30	0.33
7.25	109.83	0.313	109.83	0.313	0.98	0.000	0.402	0.26	1.30	0.33
7.30	109.81	0.315	109.81	0.315	0.98	0.000	0.402	0.26	1.30	0.33
7.35	109.78	0.318	109.78	0.318	0.98	0.000	0.402	0.26	1.30	0.33
7.40	109.75	0.320	109.75	0.320	0.98	0.000	0.402	0.26	1.30	0.33
7.45	109.73	0.323	109.73	0.323	0.98	0.000	0.402	0.26	1.30	0.33
7.50	109.70	0.325	109.70	0.325	0.98	0.000	0.402	0.26	1.30	0.33
7.55	109.23	0.328	109.23	0.328	0.98	0.000	0.402	0.26	1.30	0.33
7.60	108.77	0.331	108.77	0.331	0.98	0.000	0.402	0.26	1.30	0.33

7.65	108.30	0.333	108.30	0.333	0.98	0.000	0.402	0.26	1.30	0.33
7.70	107.83	0.336	107.83	0.336	0.98	0.000	0.402	0.26	1.30	0.33
7.75	107.37	0.338	107.37	0.338	0.98	0.000	0.402	0.26	1.30	0.33
7.80	106.90	0.341	106.90	0.341	0.98	0.000	0.402	0.26	1.30	0.33
7.85	106.43	0.343	106.43	0.343	0.98	0.000	0.402	0.26	1.30	0.33
7.90	105.97	0.346	105.97	0.346	0.98	0.000	0.402	0.26	1.30	0.33
7.95	105.50	0.348	105.50	0.348	0.98	0.000	0.402	0.26	1.30	0.33
8.00	105.03	0.351	105.03	0.351	0.98	0.000	0.402	0.26	1.30	0.33
8.05	104.57	0.353	104.57	0.353	0.98	0.000	0.402	0.26	1.30	0.33
8.10	104.10	0.356	104.10	0.356	0.98	0.000	0.402	0.26	1.30	0.33
8.15	103.63	0.358	103.63	0.358	0.98	0.000	0.402	0.26	1.30	0.33
8.20	103.17	0.361	103.17	0.361	0.98	0.000	0.402	0.26	1.30	0.33
8.25	102.70	0.363	102.70	0.363	0.98	0.000	0.402	0.26	1.30	0.33
8.30	102.23	0.366	102.23	0.366	0.98	0.000	0.402	0.26	1.30	0.33
8.35	101.77	0.368	101.77	0.368	0.98	0.000	0.402	0.26	1.30	0.33
8.40	101.30	0.370	101.30	0.370	0.98	0.000	0.402	0.26	1.30	0.33
8.45	100.83	0.373	100.83	0.373	0.98	0.000	0.402	0.26	1.30	0.33
8.50	100.37	0.375	100.37	0.375	0.98	0.000	0.402	0.26	1.30	0.33
8.55	99.90	0.378	99.90	0.378	0.98	0.000	0.402	0.26	1.30	0.33
8.60	99.43	0.380	99.43	0.380	0.98	0.000	0.402	0.26	1.30	0.33
8.65	98.97	0.382	98.97	0.382	0.98	0.000	0.402	0.26	1.30	0.33
8.70	98.50	0.385	98.50	0.385	0.98	0.000	0.402	0.26	1.30	0.33
8.75	98.03	0.387	98.03	0.387	0.98	0.000	0.402	0.26	1.30	0.33
8.80	97.57	0.389	97.57	0.389	0.98	0.000	0.402	0.26	1.30	0.33
8.85	97.10	0.392	97.10	0.392	0.98	0.000	0.402	0.26	1.30	0.33
8.90	96.63	0.394	96.63	0.394	0.98	0.000	0.402	0.26	1.30	0.33
8.95	96.17	0.396	96.17	0.396	0.98	0.000	0.402	0.26	1.30	0.33
9.00	95.70	0.398	95.70	0.398	0.98	0.000	0.402	0.26	1.30	0.33
9.05	96.13	0.401	96.13	0.401	0.98	0.000	0.402	0.26	1.30	0.33
9.10	96.55	0.403	96.55	0.403	0.98	0.000	0.402	0.26	1.30	0.33
9.15	96.98	0.405	96.98	0.405	0.98	0.000	0.402	0.26	1.30	0.33
9.20	97.41	0.408	97.41	0.408	0.98	0.000	0.402	0.26	1.30	0.33
9.25	97.83	0.410	97.83	0.410	0.98	0.000	0.402	0.26	1.30	0.33
9.30	98.26	0.412	98.26	0.412	0.98	0.000	0.402	0.26	1.30	0.33
9.35	98.69	0.414	98.69	0.414	0.98	0.000	0.402	0.26	1.30	0.33
9.40	99.11	0.417	99.11	0.417	0.98	0.000	0.402	0.26	1.30	0.33
9.45	99.54	0.419	99.54	0.419	0.98	0.000	0.402	0.26	1.30	0.33
9.50	99.97	0.422	99.97	0.422	0.98	0.000	0.402	0.26	1.30	0.33
9.55	100.39	0.424	100.39	0.424	0.98	0.000	0.402	0.26	1.30	0.33
9.60	100.82	0.426	100.82	0.426	0.98	0.000	0.402	0.26	1.30	0.33
9.65	101.25	0.429	101.25	0.429	0.98	0.000	0.402	0.26	1.30	0.33
9.70	101.67	0.431	101.67	0.431	0.98	0.000	0.402	0.26	1.30	0.33
9.75	102.10	0.433	102.10	0.433	0.98	0.000	0.402	0.26	1.30	0.33
9.80	102.53	0.436	102.53	0.436	0.98	0.000	0.402	0.26	1.30	0.33
9.85	102.95	0.438	102.95	0.438	0.98	0.000	0.402	0.26	1.30	0.33
9.90	103.38	0.441	103.38	0.441	0.98	0.000	0.402	0.26	1.30	0.33
9.95	103.81	0.443	103.81	0.443	0.98	0.000	0.402	0.26	1.30	0.33
10.00	104.23	0.446	104.23	0.446	0.98	0.000	0.402	0.26	1.30	0.33
10.05	104.66	0.448	104.66	0.448	0.98	0.000	0.402	0.26	1.30	0.33
10.10	105.09	0.451	105.09	0.451	0.98	0.000	0.402	0.26	1.30	0.33
10.15	105.51	0.453	105.51	0.453	0.98	0.000	0.402	0.26	1.30	0.33
10.20	105.94	0.456	105.94	0.456	0.98	0.000	0.402	0.26	1.30	0.33
10.25	106.37	0.458	106.37	0.458	0.98	0.000	0.402	0.26	1.30	0.33
10.30	106.79	0.461	106.79	0.461	0.98	0.000	0.402	0.26	1.30	0.33
10.35	107.22	0.463	107.22	0.463	0.98	0.000	0.402	0.25	1.30	0.33
10.40	107.65	0.466	107.65	0.466	0.98	0.000	0.402	0.25	1.30	0.33
10.45	108.07	0.468	108.07	0.468	0.98	0.000	0.402	0.25	1.30	0.33
10.50	108.50	0.471	108.50	0.471	0.98	0.000	0.402	0.25	1.30	0.33
10.55	108.60	0.473	108.60	0.473	0.98	0.000	0.402	0.25	1.30	0.33
10.60	108.70	0.476	108.70	0.476	0.98	0.000	0.402	0.25	1.30	0.33
10.65	108.80	0.478	108.80	0.478	0.98	0.000	0.402	0.25	1.30	0.33
10.70	108.90	0.481	108.90	0.481	0.98	0.000	0.402	0.25	1.30	0.33
10.75	109.00	0.484	109.00	0.484	0.97	0.000	0.402	0.25	1.30	0.33
10.80	109.10	0.486	109.10	0.486	0.97	0.000	0.402	0.25	1.30	0.33
10.85	109.20	0.489	109.20	0.489	0.97	0.000	0.402	0.25	1.30	0.33
10.90	109.30	0.491	109.30	0.491	0.97	0.000	0.402	0.25	1.30	0.33
10.95	109.40	0.494	109.40	0.494	0.97	0.000	0.402	0.25	1.30	0.33
11.00	109.50	0.496	109.50	0.496	0.97	0.000	0.402	0.25	1.30	0.33
11.05	109.60	0.499	109.60	0.499	0.97	0.000	0.402	0.25	1.30	0.33

11.10	109.70	0.502	109.70	0.502	0.97	0.000	0.402	0.25	1.30	0.33
11.15	109.80	0.504	109.80	0.504	0.97	0.000	0.402	0.25	1.30	0.33
11.20	109.90	0.507	109.90	0.507	0.97	0.000	0.402	0.25	1.30	0.33
11.25	110.00	0.509	110.00	0.509	0.97	0.000	0.402	0.25	1.30	0.33
11.30	110.10	0.512	110.10	0.512	0.97	0.000	0.402	0.25	1.30	0.33
11.35	110.20	0.515	110.20	0.515	0.97	0.000	0.402	0.25	1.30	0.33
11.40	110.30	0.517	110.30	0.517	0.97	0.000	0.402	0.25	1.30	0.33
11.45	110.40	0.520	110.40	0.520	0.97	0.000	0.402	0.25	1.30	0.33
11.50	110.50	0.522	110.50	0.522	0.97	0.000	0.402	0.25	1.30	0.33
11.55	110.60	0.525	110.60	0.525	0.97	0.000	0.402	0.25	1.30	0.33
11.60	110.70	0.528	110.70	0.528	0.97	0.000	0.402	0.25	1.30	0.33
11.65	110.80	0.530	110.80	0.530	0.97	0.000	0.402	0.25	1.30	0.33
11.70	110.90	0.533	110.90	0.533	0.97	0.000	0.402	0.25	1.30	0.33
11.75	111.00	0.535	111.00	0.535	0.97	0.000	0.402	0.25	1.30	0.33
11.80	111.10	0.538	111.10	0.538	0.97	0.000	0.402	0.25	1.30	0.33
11.85	111.20	0.541	111.20	0.541	0.97	0.000	0.402	0.25	1.30	0.33
11.90	111.30	0.543	111.30	0.543	0.97	0.000	0.402	0.25	1.30	0.33
11.95	111.40	0.546	111.40	0.546	0.97	0.000	0.402	0.25	1.30	0.33
12.00	111.50	0.549	111.50	0.549	0.97	0.000	0.402	0.25	1.30	0.33
12.05	111.52	0.551	111.52	0.551	0.97	0.000	0.402	0.25	1.30	0.33
12.10	111.55	0.554	111.55	0.554	0.97	0.000	0.402	0.25	1.30	0.33
12.15	111.57	0.557	111.57	0.557	0.97	0.000	0.402	0.25	1.30	0.33
12.20	111.59	0.559	111.59	0.559	0.97	0.000	0.402	0.25	1.30	0.33
12.25	111.62	0.562	111.62	0.562	0.97	0.000	0.402	0.25	1.30	0.33
12.30	111.64	0.564	111.64	0.564	0.97	0.000	0.402	0.25	1.30	0.33
12.35	111.66	0.567	111.66	0.567	0.97	0.000	0.402	0.25	1.30	0.33
12.40	111.69	0.570	111.69	0.570	0.97	0.000	0.402	0.25	1.30	0.33
12.45	111.71	0.572	111.71	0.572	0.97	0.000	0.402	0.25	1.30	0.33
12.50	111.73	0.575	111.73	0.575	0.97	0.000	0.402	0.25	1.30	0.33
12.55	111.76	0.578	111.76	0.578	0.97	0.000	0.402	0.25	1.30	0.33
12.60	111.78	0.580	111.78	0.580	0.97	0.000	0.402	0.25	1.30	0.33
12.65	111.80	0.583	111.80	0.583	0.97	0.000	0.402	0.25	1.30	0.33
12.70	111.83	0.586	111.83	0.586	0.97	0.000	0.402	0.25	1.30	0.33
12.75	111.85	0.588	111.85	0.588	0.97	0.000	0.402	0.25	1.30	0.33
12.80	111.87	0.591	111.87	0.591	0.97	0.000	0.402	0.25	1.30	0.33
12.85	111.90	0.593	111.90	0.593	0.97	0.000	0.402	0.25	1.30	0.33
12.90	111.92	0.596	111.92	0.596	0.97	0.000	0.402	0.25	1.30	0.33
12.95	111.94	0.599	111.94	0.599	0.97	0.000	0.402	0.25	1.30	0.33
13.00	111.97	0.601	111.97	0.601	0.97	0.000	0.402	0.25	1.30	0.33
13.05	111.99	0.604	111.99	0.604	0.97	0.000	0.402	0.25	1.30	0.33
13.10	112.01	0.607	112.01	0.607	0.97	0.000	0.402	0.25	1.30	0.33
13.15	112.04	0.609	112.04	0.609	0.97	0.000	0.402	0.25	1.30	0.33
13.20	112.06	0.612	112.06	0.612	0.97	0.000	0.402	0.25	1.30	0.33
13.25	112.08	0.615	112.08	0.615	0.97	0.000	0.402	0.25	1.30	0.33
13.30	112.11	0.617	112.11	0.617	0.97	0.000	0.402	0.25	1.30	0.33
13.35	112.13	0.620	112.13	0.620	0.97	0.000	0.402	0.25	1.30	0.33
13.40	112.15	0.623	112.15	0.623	0.97	0.000	0.402	0.25	1.30	0.33
13.45	112.18	0.625	112.18	0.625	0.97	0.000	0.402	0.25	1.30	0.33
13.50	112.20	0.628	112.20	0.628	0.97	0.000	0.402	0.25	1.30	0.33
13.55	111.67	0.631	111.67	0.631	0.97	0.000	0.402	0.25	1.30	0.33
13.60	111.13	0.633	111.13	0.633	0.97	0.000	0.402	0.25	1.30	0.33
13.65	110.60	0.636	110.60	0.636	0.97	0.000	0.402	0.25	1.30	0.33
13.70	110.07	0.638	110.07	0.638	0.97	0.000	0.402	0.25	1.30	0.33
13.75	109.53	0.641	109.53	0.641	0.97	0.000	0.402	0.25	1.30	0.33
13.80	109.00	0.644	109.00	0.644	0.97	0.000	0.402	0.25	1.30	0.33
13.85	108.47	0.646	108.47	0.646	0.97	0.000	0.402	0.25	1.30	0.33
13.90	107.93	0.649	107.93	0.649	0.97	0.000	0.402	0.25	1.30	0.33
13.95	107.40	0.651	107.40	0.651	0.97	0.000	0.402	0.25	1.30	0.33
14.00	106.87	0.654	106.87	0.654	0.97	0.000	0.402	0.25	1.30	0.33
14.05	106.33	0.656	106.33	0.656	0.97	0.000	0.402	0.25	1.30	0.33
14.10	105.80	0.659	105.80	0.659	0.97	0.000	0.402	0.25	1.30	0.33
14.15	105.27	0.661	105.27	0.661	0.97	0.000	0.402	0.25	1.30	0.33
14.20	104.73	0.664	104.73	0.664	0.97	0.000	0.402	0.25	1.30	0.33
14.25	104.20	0.666	104.20	0.666	0.97	0.000	0.402	0.25	1.30	0.33
14.30	103.67	0.669	103.67	0.669	0.97	0.000	0.402	0.25	1.30	0.33
14.35	103.13	0.671	103.13	0.671	0.97	0.000	0.402	0.25	1.30	0.33
14.40	102.60	0.674	102.60	0.674	0.97	0.000	0.402	0.25	1.30	0.33
14.45	102.07	0.676	102.07	0.676	0.97	0.000	0.402	0.25	1.30	0.33
14.50	101.53	0.679	101.53	0.679	0.97	0.000	0.402	0.25	1.30	0.33

14.55	101.00	0.681	101.00	0.681	0.97	0.000	0.402	0.25	1.30	0.33
14.60	100.47	0.683	100.47	0.683	0.97	0.000	0.402	0.25	1.30	0.33
14.65	99.93	0.686	99.93	0.686	0.97	0.000	0.402	0.25	1.30	0.33
14.70	99.40	0.688	99.40	0.688	0.97	0.000	0.402	0.25	1.30	0.33
14.75	98.87	0.690	98.87	0.690	0.97	0.000	0.402	0.25	1.30	0.33
14.80	98.33	0.693	98.33	0.693	0.97	0.000	0.402	0.25	1.30	0.33
14.85	97.80	0.695	97.80	0.695	0.97	0.000	0.402	0.25	1.30	0.33
14.90	97.27	0.697	97.27	0.697	0.97	0.000	0.402	0.25	1.30	0.33
14.95	96.73	0.700	96.73	0.700	0.97	0.000	0.402	0.25	1.30	0.33
15.00	96.20	0.702	96.20	0.702	0.97	0.000	0.402	0.25	1.30	0.33
15.05	96.40	0.704	96.40	0.704	0.96	0.000	0.402	0.25	1.30	0.33
15.10	96.59	0.706	96.59	0.706	0.96	0.000	0.402	0.25	1.30	0.33
15.15	96.79	0.709	96.79	0.709	0.96	0.000	0.402	0.25	1.30	0.33
15.20	96.99	0.711	96.99	0.711	0.96	0.000	0.402	0.25	1.30	0.33
15.25	97.18	0.713	97.18	0.713	0.96	0.000	0.402	0.25	1.30	0.33
15.30	97.38	0.716	97.38	0.716	0.96	0.000	0.402	0.25	1.30	0.33
15.35	97.58	0.718	97.58	0.718	0.96	0.000	0.402	0.25	1.30	0.33
15.40	97.77	0.720	97.77	0.720	0.96	0.000	0.402	0.25	1.30	0.33
15.45	97.97	0.723	97.97	0.723	0.96	0.000	0.402	0.25	1.30	0.33
15.50	98.17	0.725	98.17	0.725	0.96	0.000	0.402	0.25	1.30	0.33
15.55	98.36	0.727	98.36	0.727	0.96	0.000	0.402	0.25	1.30	0.33
15.60	98.56	0.730	98.56	0.730	0.96	0.000	0.402	0.25	1.30	0.33
15.65	98.76	0.732	98.76	0.732	0.96	0.000	0.402	0.25	1.30	0.33
15.70	98.95	0.734	98.95	0.734	0.96	0.000	0.402	0.25	1.30	0.33
15.75	99.15	0.737	99.15	0.737	0.96	0.000	0.402	0.25	1.30	0.33
15.80	99.35	0.739	99.35	0.739	0.96	0.000	0.402	0.25	1.30	0.33
15.85	99.54	0.741	99.54	0.741	0.96	0.000	0.402	0.25	1.30	0.33
15.90	99.74	0.744	99.74	0.744	0.96	0.000	0.402	0.25	1.30	0.33
15.95	99.94	0.746	99.94	0.746	0.96	0.000	0.402	0.25	1.30	0.33
16.00	100.13	0.748	100.13	0.748	0.96	0.000	0.402	0.25	1.30	0.33
16.05	100.33	0.751	100.33	0.751	0.96	0.000	0.402	0.25	1.30	0.33
16.10	100.53	0.753	100.53	0.753	0.96	0.000	0.402	0.25	1.30	0.33
16.15	100.72	0.755	100.72	0.755	0.96	0.000	0.402	0.25	1.30	0.33
16.20	100.92	0.758	100.92	0.758	0.96	0.000	0.402	0.25	1.30	0.33
16.25	101.12	0.760	101.12	0.760	0.96	0.000	0.402	0.25	1.30	0.33
16.30	101.31	0.763	101.31	0.763	0.96	0.000	0.402	0.25	1.30	0.33
16.35	101.51	0.765	101.51	0.765	0.96	0.000	0.402	0.25	1.30	0.33
16.40	101.71	0.767	101.71	0.767	0.96	0.000	0.402	0.25	1.30	0.33
16.45	101.90	0.770	101.90	0.770	0.96	0.000	0.402	0.25	1.30	0.33
16.50	102.10	0.772	102.10	0.772	0.96	0.000	0.402	0.25	1.30	0.33
16.55	101.58	0.775	101.58	0.775	0.96	0.000	0.402	0.25	1.30	0.33
16.60	101.05	0.777	101.05	0.777	0.96	0.000	0.402	0.25	1.30	0.33
16.65	100.53	0.779	100.53	0.779	0.96	0.000	0.402	0.25	1.30	0.33
16.70	100.01	0.782	100.01	0.782	0.96	0.000	0.402	0.25	1.30	0.33
16.75	99.48	0.784	99.48	0.784	0.96	0.000	0.402	0.25	1.30	0.33
16.80	98.96	0.786	98.96	0.786	0.96	0.000	0.402	0.25	1.30	0.33
16.85	98.44	0.789	98.44	0.789	0.96	0.000	0.402	0.25	1.30	0.33
16.90	97.91	0.791	97.91	0.791	0.96	0.000	0.402	0.25	1.30	0.33
16.95	97.39	0.793	97.39	0.793	0.96	0.000	0.402	0.25	1.30	0.33
17.00	96.87	0.796	96.87	0.796	0.96	0.000	0.402	0.25	1.30	0.33
17.05	96.34	0.798	96.34	0.798	0.96	0.000	0.402	0.25	1.30	0.33
17.10	95.82	0.800	95.82	0.800	0.96	0.000	0.402	0.25	1.30	0.33
17.15	95.30	0.803	95.30	0.803	0.96	0.000	0.402	0.25	1.30	0.33
17.20	94.77	0.805	94.77	0.805	0.96	0.000	0.402	0.25	1.30	0.33
17.25	94.25	0.807	94.25	0.807	0.96	0.000	0.402	0.25	1.30	0.33
17.30	93.73	0.809	93.73	0.809	0.96	0.000	0.402	0.25	1.30	0.33
17.35	93.20	0.811	93.20	0.811	0.96	0.000	0.402	0.25	1.30	0.33
17.40	92.68	0.814	92.68	0.814	0.96	0.000	0.402	0.25	1.30	0.33
17.45	92.16	0.816	92.16	0.816	0.96	0.000	0.402	0.25	1.30	0.33
17.50	91.63	0.818	91.63	0.818	0.96	0.000	0.402	0.25	1.30	0.33
17.55	91.11	0.820	91.11	0.820	0.96	0.000	0.402	0.25	1.30	0.33
17.60	90.59	0.822	90.59	0.822	0.96	0.000	0.402	0.25	1.30	0.33
17.65	90.06	0.824	90.06	0.824	0.96	0.000	0.402	0.25	1.30	0.33
17.70	89.54	0.827	89.54	0.827	0.96	0.000	0.402	0.25	1.30	0.33
17.75	89.02	0.829	89.02	0.829	0.96	0.000	0.402	0.25	1.30	0.33
17.80	88.49	0.831	88.49	0.831	0.96	0.000	0.402	0.25	1.30	0.33
17.85	87.97	0.833	87.97	0.833	0.96	0.000	0.402	0.25	1.30	0.33
17.90	87.45	0.835	87.45	0.835	0.96	0.000	0.402	0.25	1.30	0.33
17.95	86.92	0.837	86.92	0.837	0.96	0.000	0.402	0.25	1.30	0.33

18.00	86.40	0.839	86.40	0.839	0.96	0.000	0.402	0.25	1.30	0.33
18.05	86.26	0.841	86.26	0.841	0.96	0.000	0.402	0.25	1.30	0.33
18.10	86.11	0.843	86.11	0.843	0.96	0.000	0.402	0.25	1.30	0.33
18.15	85.97	0.845	85.97	0.845	0.96	0.000	0.402	0.25	1.30	0.33
18.20	85.83	0.847	85.83	0.847	0.96	0.000	0.402	0.25	1.30	0.33
18.25	85.68	0.849	85.68	0.849	0.96	0.000	0.402	0.25	1.30	0.33
18.30	85.54	0.851	85.54	0.851	0.96	0.000	0.402	0.25	1.30	0.33
18.35	85.40	0.853	85.40	0.853	0.96	0.000	0.402	0.25	1.30	0.33
18.40	85.25	0.855	85.25	0.855	0.96	0.000	0.402	0.25	1.30	0.33
18.45	85.11	0.857	85.11	0.857	0.96	0.000	0.402	0.25	1.30	0.33
18.50	84.97	0.859	84.97	0.859	0.96	0.000	0.402	0.25	1.30	0.33
18.55	84.82	0.861	84.82	0.861	0.96	0.000	0.402	0.25	1.30	0.32
18.60	84.68	0.863	84.68	0.863	0.96	0.000	0.402	0.25	1.30	0.32
18.65	84.54	0.865	84.54	0.865	0.96	0.000	0.402	0.25	1.30	0.32
18.70	84.39	0.867	84.39	0.867	0.96	0.000	0.402	0.25	1.30	0.32
18.75	84.25	0.869	84.25	0.869	0.96	0.000	0.402	0.25	1.30	0.32
18.80	84.11	0.871	84.11	0.871	0.96	0.000	0.402	0.25	1.30	0.32
18.85	83.96	0.873	83.96	0.873	0.96	0.000	0.402	0.25	1.30	0.32
18.90	83.82	0.875	83.82	0.875	0.96	0.000	0.402	0.25	1.30	0.32
18.95	83.68	0.877	83.68	0.877	0.96	0.000	0.402	0.25	1.30	0.32
19.00	83.53	0.879	83.53	0.879	0.96	0.000	0.402	0.25	1.30	0.32
19.05	83.39	0.881	83.39	0.881	0.96	0.000	0.402	0.25	1.30	0.32
19.10	83.25	0.883	83.25	0.883	0.96	0.000	0.402	0.25	1.30	0.32
19.15	83.10	0.885	83.10	0.885	0.96	0.000	0.402	0.25	1.30	0.32
19.20	82.96	0.887	82.96	0.887	0.96	0.000	0.402	0.25	1.30	0.32
19.25	82.82	0.889	82.82	0.889	0.96	0.000	0.402	0.25	1.30	0.32
19.30	82.67	0.891	82.67	0.891	0.96	0.000	0.402	0.25	1.30	0.32
19.35	82.53	0.893	82.53	0.893	0.95	0.000	0.402	0.25	1.30	0.32
19.40	82.39	0.895	82.39	0.895	0.95	0.000	0.402	0.25	1.30	0.32
19.45	82.24	0.897	82.24	0.897	0.95	0.000	0.402	0.25	1.30	0.32
19.50	82.10	0.899	82.10	0.899	0.95	0.000	0.402	0.25	1.30	0.32
19.55	82.09	0.901	82.09	0.901	0.95	0.000	0.402	0.25	1.30	0.32
19.60	82.09	0.903	82.09	0.903	0.95	0.000	0.402	0.25	1.30	0.32
19.65	82.08	0.905	82.08	0.905	0.95	0.000	0.402	0.25	1.30	0.32
19.70	82.07	0.907	82.07	0.907	0.95	0.000	0.402	0.25	1.30	0.32
19.75	82.07	0.909	82.07	0.909	0.95	0.000	0.402	0.25	1.30	0.32
19.80	82.06	0.911	82.06	0.911	0.95	0.000	0.402	0.25	1.30	0.32
19.85	82.05	0.912	82.05	0.912	0.95	0.000	0.402	0.25	1.30	0.32
19.90	82.05	0.914	82.05	0.914	0.95	0.000	0.402	0.25	1.30	0.32
19.95	82.04	0.916	82.04	0.916	0.95	0.000	0.402	0.25	1.30	0.32
20.00	82.03	0.918	82.03	0.918	0.95	0.000	0.402	0.25	1.30	0.32
20.05	82.03	0.920	82.03	0.920	0.95	0.000	0.402	0.25	1.30	0.32
20.10	82.02	0.922	82.02	0.922	0.95	0.000	0.402	0.25	1.30	0.32
20.15	82.01	0.924	82.01	0.924	0.95	0.000	0.402	0.25	1.30	0.32
20.20	82.01	0.926	82.01	0.926	0.95	0.000	0.402	0.25	1.30	0.32
20.25	82.00	0.928	82.00	0.928	0.95	0.000	0.402	0.25	1.30	0.32
20.30	81.99	0.930	81.99	0.930	0.95	0.000	0.402	0.25	1.30	0.32
20.35	81.99	0.932	81.99	0.932	0.95	0.000	0.402	0.25	1.30	0.32
20.40	81.98	0.934	81.98	0.934	0.95	0.000	0.402	0.25	1.30	0.32
20.45	81.97	0.936	81.97	0.936	0.95	0.000	0.402	0.25	1.30	0.32
20.50	81.97	0.938	81.97	0.938	0.95	0.000	0.402	0.25	1.30	0.32
20.55	81.96	0.940	81.96	0.940	0.95	0.000	0.402	0.25	1.30	0.32
20.60	81.95	0.942	81.95	0.942	0.95	0.000	0.402	0.25	1.30	0.32
20.65	81.95	0.943	81.95	0.943	0.95	0.000	0.402	0.25	1.30	0.32
20.70	81.94	0.945	81.94	0.945	0.95	0.000	0.402	0.25	1.30	0.32
20.75	81.93	0.947	81.93	0.947	0.95	0.000	0.402	0.25	1.30	0.32
20.80	81.93	0.949	81.93	0.949	0.95	0.000	0.402	0.25	1.30	0.32
20.85	81.92	0.951	81.92	0.951	0.95	0.000	0.402	0.25	1.30	0.32
20.90	81.91	0.953	81.91	0.953	0.95	0.000	0.402	0.25	1.30	0.32
20.95	81.91	0.955	81.91	0.955	0.95	0.000	0.402	0.25	1.30	0.32
21.00	81.90	0.957	81.90	0.957	0.95	0.000	0.402	0.25	1.30	0.32
21.05	81.95	0.959	81.95	0.959	0.95	0.000	0.402	0.25	1.30	0.32
21.10	82.00	0.961	82.00	0.961	0.95	0.000	0.402	0.25	1.30	0.32
21.15	82.05	0.963	82.05	0.963	0.95	0.000	0.402	0.25	1.30	0.32
21.20	82.10	0.965	82.10	0.965	0.95	0.000	0.402	0.25	1.30	0.32
21.25	82.15	0.967	82.15	0.967	0.95	0.000	0.402	0.25	1.30	0.32
21.30	82.20	0.969	82.20	0.969	0.95	0.000	0.402	0.25	1.30	0.32
21.35	82.25	0.971	82.25	0.971	0.95	0.000	0.402	0.25	1.30	0.32
21.40	82.30	0.973	82.30	0.973	0.95	0.000	0.402	0.25	1.30	0.32

21.45	82.35	0.974	82.35	0.974	0.95	0.000	0.402	0.25	1.30	0.32
21.50	82.40	0.976	82.40	0.976	0.95	0.000	0.402	0.25	1.30	0.32
21.55	82.45	0.978	82.45	0.978	0.95	0.000	0.402	0.25	1.30	0.32
21.60	82.50	0.980	82.50	0.980	0.95	0.000	0.402	0.25	1.30	0.32
21.65	82.55	0.982	82.55	0.982	0.95	0.000	0.402	0.25	1.30	0.32
21.70	82.60	0.984	82.60	0.984	0.95	0.000	0.402	0.25	1.30	0.32
21.75	82.65	0.986	82.65	0.986	0.95	0.000	0.402	0.25	1.30	0.32
21.80	82.70	0.988	82.70	0.988	0.95	0.000	0.402	0.25	1.30	0.32
21.85	82.75	0.990	82.75	0.990	0.95	0.000	0.402	0.25	1.30	0.32
21.90	82.80	0.992	82.80	0.992	0.95	0.000	0.402	0.25	1.30	0.32
21.95	82.85	0.994	82.85	0.994	0.95	0.000	0.402	0.25	1.30	0.32
22.00	82.90	0.996	82.90	0.996	0.95	0.000	0.402	0.25	1.30	0.32
22.05	82.95	0.998	82.95	0.998	0.95	0.000	0.402	0.25	1.30	0.32
22.10	83.00	1.000	83.00	1.000	0.95	0.000	0.402	0.25	1.30	0.32
22.15	83.05	1.002	83.05	1.002	0.95	0.000	0.402	0.25	1.30	0.32
22.20	83.10	1.004	83.10	1.004	0.95	0.000	0.402	0.25	1.30	0.32
22.25	83.15	1.006	83.15	1.006	0.95	0.000	0.402	0.25	1.30	0.32
22.30	83.20	1.008	83.20	1.008	0.95	0.000	0.402	0.25	1.30	0.32
22.35	83.25	1.010	83.25	1.010	0.95	0.000	0.402	0.25	1.30	0.32
22.40	83.30	1.012	83.30	1.012	0.95	0.000	0.402	0.25	1.30	0.32
22.45	83.35	1.014	83.35	1.014	0.95	0.000	0.402	0.25	1.30	0.32
22.50	83.40	1.016	83.40	1.016	0.95	0.000	0.402	0.25	1.30	0.32
22.55	83.46	1.018	83.46	1.018	0.95	0.000	0.402	0.25	1.30	0.32
22.60	83.51	1.020	83.51	1.020	0.95	0.000	0.402	0.25	1.30	0.32
22.65	83.57	1.022	83.57	1.022	0.95	0.000	0.402	0.25	1.30	0.32
22.70	83.63	1.023	83.63	1.023	0.95	0.000	0.402	0.25	1.30	0.32
22.75	83.68	1.025	83.68	1.025	0.95	0.000	0.402	0.25	1.30	0.32
22.80	83.74	1.027	83.74	1.027	0.95	0.000	0.402	0.25	1.30	0.32
22.85	83.80	1.029	83.80	1.029	0.95	0.000	0.402	0.25	1.30	0.32
22.90	83.85	1.031	83.85	1.031	0.95	0.000	0.402	0.25	1.30	0.32
22.95	83.91	1.033	83.91	1.033	0.95	0.000	0.402	0.25	1.30	0.32
23.00	83.97	1.035	83.97	1.035	0.95	0.000	0.402	0.25	1.30	0.32
23.05	84.02	1.037	84.02	1.037	0.95	0.000	0.402	0.25	1.30	0.32
23.10	84.08	1.039	84.08	1.039	0.95	0.000	0.402	0.25	1.30	0.32
23.15	84.14	1.041	84.14	1.041	0.95	0.000	0.402	0.25	1.30	0.32
23.20	84.19	1.043	84.19	1.043	0.95	0.000	0.402	0.25	1.30	0.32
23.25	84.25	1.045	84.25	1.045	0.95	0.000	0.402	0.25	1.30	0.32
23.30	84.31	1.047	84.31	1.047	0.95	0.000	0.402	0.25	1.30	0.32
23.35	84.36	1.049	84.36	1.049	0.95	0.000	0.402	0.25	1.30	0.32
23.40	84.42	1.051	84.42	1.051	0.95	0.000	0.402	0.25	1.30	0.32
23.45	84.48	1.053	84.48	1.053	0.95	0.000	0.402	0.25	1.30	0.32
23.50	84.53	1.055	84.53	1.055	0.95	0.000	0.402	0.25	1.30	0.32
23.55	84.59	1.057	84.59	1.057	0.95	0.000	0.402	0.25	1.30	0.32
23.60	84.65	1.059	84.65	1.059	0.94	0.000	0.402	0.25	1.30	0.32
23.65	84.70	1.061	84.70	1.061	0.94	0.000	0.402	0.25	1.30	0.32
23.70	84.76	1.063	84.76	1.063	0.94	0.000	0.402	0.25	1.30	0.32
23.75	84.82	1.065	84.82	1.065	0.94	0.000	0.402	0.25	1.30	0.32
23.80	84.87	1.067	84.87	1.067	0.94	0.000	0.402	0.25	1.30	0.32
23.85	84.93	1.069	84.93	1.069	0.94	0.000	0.402	0.25	1.30	0.32
23.90	84.99	1.071	84.99	1.071	0.94	0.000	0.402	0.25	1.30	0.32
23.95	85.04	1.073	85.04	1.073	0.94	0.000	0.402	0.25	1.30	0.32
24.00	85.10	1.075	85.10	1.075	0.94	0.000	0.402	0.25	1.30	0.32
24.05	84.82	1.077	84.82	1.077	0.94	0.000	0.402	0.25	1.30	0.32
24.10	84.53	1.079	84.53	1.079	0.94	0.000	0.402	0.25	1.30	0.32
24.15	84.25	1.081	84.25	1.081	0.94	0.000	0.402	0.25	1.30	0.32
24.20	83.97	1.083	83.97	1.083	0.94	0.000	0.402	0.25	1.30	0.32
24.25	83.68	1.085	83.68	1.085	0.94	0.000	0.402	0.25	1.30	0.32
24.30	83.40	1.087	83.40	1.087	0.94	0.000	0.402	0.25	1.30	0.32
24.35	83.12	1.089	83.12	1.089	0.94	0.000	0.402	0.25	1.30	0.32
24.40	82.83	1.091	82.83	1.091	0.94	0.000	0.402	0.25	1.30	0.32
24.45	82.55	1.093	82.55	1.093	0.94	0.000	0.402	0.25	1.30	0.32
24.50	82.27	1.095	82.27	1.095	0.94	0.000	0.402	0.25	1.30	0.32
24.55	81.98	1.097	81.98	1.097	0.94	0.000	0.402	0.25	1.30	0.32
24.60	81.70	1.099	81.70	1.099	0.94	0.000	0.402	0.25	1.30	0.32
24.65	81.42	1.101	81.42	1.101	0.94	0.000	0.402	0.25	1.30	0.32
24.70	81.13	1.103	81.13	1.103	0.94	0.000	0.402	0.25	1.30	0.32
24.75	80.85	1.105	80.85	1.105	0.94	0.000	0.402	0.25	1.30	0.32
24.80	80.57	1.107	80.57	1.107	0.94	0.000	0.402	0.25	1.30	0.32
24.85	80.28	1.109	80.28	1.109	0.94	0.000	0.402	0.25	1.30	0.32

24.90	80.00	1.110	80.00	1.110	0.94	0.000	0.402	0.25	1.30	0.32
24.95	79.72	1.112	79.72	1.112	0.94	0.000	0.402	0.25	1.30	0.32
25.00	79.43	1.114	79.43	1.114	0.94	0.000	0.402	0.25	1.30	0.32
25.05	79.15	1.116	79.15	1.116	0.94	0.000	0.402	0.25	1.30	0.32
25.10	78.87	1.118	78.87	1.118	0.94	0.000	0.402	0.25	1.30	0.32
25.15	78.58	1.120	78.58	1.120	0.94	0.000	0.402	0.25	1.30	0.32
25.20	78.30	1.122	78.30	1.122	0.94	0.000	0.402	0.25	1.30	0.32
25.25	78.02	1.124	78.02	1.124	0.94	0.000	0.402	0.25	1.30	0.32
25.30	77.73	1.125	77.73	1.125	0.94	0.000	0.402	0.25	1.30	0.32
25.35	77.45	1.127	77.45	1.127	0.94	0.000	0.402	0.25	1.30	0.32
25.40	77.17	1.129	77.17	1.129	0.94	0.000	0.402	0.25	1.30	0.32
25.45	76.88	1.131	76.88	1.131	0.94	0.000	0.402	0.25	1.30	0.32
25.50	76.60	1.133	76.60	1.133	0.94	0.000	0.402	0.25	1.30	0.32
25.55	77.22	1.135	77.22	1.135	0.94	0.000	0.402	0.25	1.30	0.32
25.60	77.83	1.136	77.83	1.136	0.94	0.000	0.402	0.25	1.30	0.32
25.65	78.45	1.138	78.45	1.138	0.94	0.000	0.402	0.25	1.30	0.32
25.70	79.07	1.140	79.07	1.140	0.94	0.000	0.402	0.25	1.30	0.32
25.75	79.68	1.142	79.68	1.142	0.94	0.000	0.402	0.25	1.30	0.32
25.80	80.30	1.144	80.30	1.144	0.94	0.000	0.402	0.25	1.30	0.32
25.85	80.92	1.146	80.92	1.146	0.94	0.000	0.402	0.25	1.30	0.32
25.90	81.53	1.148	81.53	1.148	0.94	0.000	0.402	0.25	1.30	0.32
25.95	82.15	1.150	82.15	1.150	0.94	0.000	0.402	0.25	1.30	0.32
26.00	82.77	1.151	82.77	1.151	0.94	0.000	0.402	0.25	1.30	0.32
26.05	83.38	1.153	83.38	1.153	0.94	0.000	0.402	0.25	1.30	0.32
26.10	84.00	1.155	84.00	1.155	0.94	0.000	0.402	0.25	1.30	0.32
26.15	84.62	1.157	84.62	1.157	0.94	0.000	0.402	0.25	1.30	0.32
26.20	85.23	1.159	85.23	1.159	0.94	0.000	0.402	0.25	1.30	0.32
26.25	85.85	1.161	85.85	1.161	0.94	0.000	0.402	0.25	1.30	0.32
26.30	86.47	1.163	86.47	1.163	0.94	0.000	0.402	0.25	1.30	0.32
26.35	87.08	1.165	87.08	1.165	0.94	0.000	0.402	0.25	1.30	0.32
26.40	87.70	1.168	87.70	1.168	0.94	0.000	0.402	0.25	1.30	0.32
26.45	88.32	1.170	88.32	1.170	0.94	0.000	0.402	0.25	1.30	0.32
26.50	88.93	1.172	88.93	1.172	0.94	0.000	0.402	0.25	1.30	0.32
26.55	89.55	1.174	89.55	1.174	0.94	0.000	0.402	0.25	1.30	0.32
26.60	90.17	1.176	90.17	1.176	0.94	0.000	0.402	0.25	1.30	0.32
26.65	90.78	1.178	90.78	1.178	0.94	0.000	0.402	0.25	1.30	0.32
26.70	91.40	1.180	91.40	1.180	0.94	0.000	0.402	0.25	1.30	0.32
26.75	92.02	1.182	92.02	1.182	0.94	0.000	0.402	0.25	1.30	0.32
26.80	92.63	1.184	92.63	1.184	0.94	0.000	0.402	0.24	1.30	0.32
26.85	93.25	1.187	93.25	1.187	0.94	0.000	0.402	0.24	1.30	0.32
26.90	93.87	1.189	93.87	1.189	0.94	0.000	0.402	0.24	1.30	0.32
26.95	94.48	1.191	94.48	1.191	0.94	0.000	0.402	0.24	1.30	0.32
27.00	95.10	1.193	95.10	1.193	0.94	0.000	0.402	0.24	1.30	0.32
27.05	94.60	1.196	94.60	1.196	0.94	0.000	0.402	0.24	1.30	0.32
27.10	94.10	1.198	94.10	1.198	0.94	0.000	0.402	0.24	1.30	0.32
27.15	93.60	1.200	93.60	1.200	0.94	0.000	0.402	0.24	1.30	0.32
27.20	93.10	1.202	93.10	1.202	0.94	0.000	0.402	0.24	1.30	0.32
27.25	92.60	1.204	92.60	1.204	0.94	0.000	0.402	0.24	1.30	0.32
27.30	92.10	1.207	92.10	1.207	0.94	0.000	0.402	0.24	1.30	0.32
27.35	91.60	1.209	91.60	1.209	0.94	0.000	0.402	0.24	1.30	0.32
27.40	91.10	1.211	91.10	1.211	0.94	0.000	0.402	0.24	1.30	0.32
27.45	90.60	1.213	90.60	1.213	0.94	0.000	0.402	0.24	1.30	0.32
27.50	90.10	1.215	90.10	1.215	0.94	0.000	0.402	0.24	1.30	0.32
27.55	89.60	1.217	89.60	1.217	0.94	0.000	0.402	0.24	1.30	0.32
27.60	89.10	1.220	89.10	1.220	0.94	0.000	0.402	0.24	1.30	0.32
27.65	88.60	1.222	88.60	1.222	0.94	0.000	0.402	0.24	1.30	0.32
27.70	88.10	1.224	88.10	1.224	0.94	0.000	0.402	0.24	1.30	0.32
27.75	87.60	1.226	87.60	1.226	0.94	0.000	0.402	0.24	1.30	0.32
27.80	87.10	1.228	87.10	1.228	0.94	0.000	0.402	0.24	1.30	0.32
27.85	86.60	1.230	86.60	1.230	0.94	0.000	0.402	0.24	1.30	0.32
27.90	86.10	1.232	86.10	1.232	0.93	0.000	0.402	0.24	1.30	0.32
27.95	85.60	1.234	85.60	1.234	0.93	0.000	0.402	0.24	1.30	0.32
28.00	85.10	1.236	85.10	1.236	0.93	0.000	0.402	0.24	1.30	0.32
28.05	84.60	1.238	84.60	1.238	0.93	0.000	0.402	0.24	1.30	0.32
28.10	84.10	1.240	84.10	1.240	0.93	0.000	0.402	0.24	1.30	0.32
28.15	83.60	1.242	83.60	1.242	0.93	0.000	0.402	0.24	1.30	0.32
28.20	83.10	1.244	83.10	1.244	0.93	0.000	0.402	0.24	1.30	0.32
28.25	82.60	1.246	82.60	1.246	0.93	0.000	0.402	0.24	1.30	0.32
28.30	82.10	1.248	82.10	1.248	0.93	0.000	0.402	0.24	1.30	0.32

28.35	81.60	1.250	81.60	1.250	0.93	0.000	0.402	0.24	1.30	0.32
28.40	81.10	1.252	81.10	1.252	0.93	0.000	0.402	0.24	1.30	0.32
28.45	80.60	1.254	80.60	1.254	0.93	0.000	0.402	0.24	1.30	0.32
28.50	80.10	1.256	80.10	1.256	0.93	0.000	0.402	0.24	1.30	0.32
28.55	80.26	1.257	80.26	1.257	0.93	0.000	0.402	0.24	1.30	0.32
28.60	80.42	1.259	80.42	1.259	0.93	0.000	0.402	0.24	1.30	0.32
28.65	80.58	1.261	80.58	1.261	0.93	0.000	0.402	0.24	1.30	0.32
28.70	80.74	1.263	80.74	1.263	0.93	0.000	0.402	0.24	1.30	0.32
28.75	80.90	1.265	80.90	1.265	0.93	0.000	0.402	0.24	1.30	0.32
28.80	81.06	1.267	81.06	1.267	0.93	0.000	0.402	0.24	1.30	0.32
28.85	81.22	1.269	81.22	1.269	0.93	0.000	0.402	0.24	1.30	0.32
28.90	81.38	1.271	81.38	1.271	0.93	0.000	0.402	0.24	1.30	0.32
28.95	81.54	1.273	81.54	1.273	0.93	0.000	0.402	0.24	1.30	0.32
29.00	81.70	1.275	81.70	1.275	0.93	0.000	0.402	0.24	1.30	0.32
29.05	81.86	1.277	81.86	1.277	0.93	0.000	0.402	0.24	1.30	0.32
29.10	82.02	1.279	82.02	1.279	0.93	0.000	0.402	0.24	1.30	0.32
29.15	82.18	1.280	82.18	1.280	0.93	0.000	0.402	0.24	1.30	0.32
29.20	82.34	1.282	82.34	1.282	0.93	0.000	0.402	0.24	1.30	0.32
29.25	82.50	1.284	82.50	1.284	0.93	0.000	0.402	0.24	1.30	0.32
29.30	82.66	1.286	82.66	1.286	0.93	0.000	0.402	0.24	1.30	0.32
29.35	82.82	1.288	82.82	1.288	0.93	0.000	0.402	0.24	1.30	0.32
29.40	82.98	1.290	82.98	1.290	0.93	0.000	0.402	0.24	1.30	0.32
29.45	83.14	1.292	83.14	1.292	0.93	0.000	0.402	0.24	1.30	0.32
29.50	83.30	1.294	83.30	1.294	0.93	0.000	0.402	0.24	1.30	0.32
29.55	83.46	1.296	83.46	1.296	0.93	0.000	0.402	0.24	1.30	0.32
29.60	83.62	1.298	83.62	1.298	0.93	0.000	0.402	0.24	1.30	0.32
29.65	83.78	1.300	83.78	1.300	0.93	0.000	0.402	0.24	1.30	0.32
29.70	83.94	1.302	83.94	1.302	0.93	0.000	0.402	0.24	1.30	0.32
29.75	84.10	1.304	84.10	1.304	0.93	0.000	0.402	0.24	1.30	0.32
29.80	84.26	1.306	84.26	1.306	0.93	0.000	0.402	0.24	1.30	0.32
29.85	84.42	1.308	84.42	1.308	0.93	0.000	0.402	0.24	1.30	0.32
29.90	84.58	1.310	84.58	1.310	0.93	0.000	0.402	0.24	1.30	0.32
29.95	84.74	1.312	84.74	1.312	0.93	0.000	0.402	0.24	1.30	0.32
30.00	84.90	1.314	84.90	1.314	0.93	0.000	0.402	0.24	1.30	0.32
30.05	84.92	1.316	84.92	1.316	0.93	0.000	0.402	0.24	1.30	0.32
30.10	84.95	1.318	84.95	1.318	0.93	0.000	0.402	0.24	1.30	0.32
30.15	84.97	1.320	84.97	1.320	0.93	0.000	0.402	0.24	1.30	0.32
30.20	84.99	1.322	84.99	1.322	0.93	0.000	0.402	0.24	1.30	0.32
30.25	85.02	1.324	85.02	1.324	0.93	0.000	0.402	0.24	1.30	0.32
30.30	85.04	1.326	85.04	1.326	0.93	0.000	0.402	0.24	1.30	0.32
30.35	85.06	1.328	85.06	1.328	0.93	0.000	0.402	0.24	1.30	0.31
30.40	85.09	1.330	85.09	1.330	0.93	0.000	0.402	0.24	1.30	0.31
30.45	85.11	1.332	85.11	1.332	0.93	0.000	0.402	0.24	1.30	0.31
30.50	85.13	1.334	85.13	1.334	0.93	0.000	0.402	0.24	1.30	0.31
30.55	85.16	1.336	85.16	1.336	0.93	0.000	0.402	0.24	1.30	0.31
30.60	85.18	1.338	85.18	1.338	0.92	0.000	0.402	0.24	1.30	0.31
30.65	85.20	1.340	85.20	1.340	0.92	0.000	0.402	0.24	1.30	0.31
30.70	85.23	1.342	85.23	1.342	0.92	0.000	0.402	0.24	1.30	0.31
30.75	85.25	1.344	85.25	1.344	0.92	0.000	0.402	0.24	1.30	0.31
30.80	85.27	1.346	85.27	1.346	0.92	0.000	0.402	0.24	1.30	0.31
30.85	85.30	1.348	85.30	1.348	0.92	0.000	0.402	0.24	1.30	0.31
30.90	85.32	1.350	85.32	1.350	0.92	0.000	0.402	0.24	1.30	0.31
30.95	85.34	1.352	85.34	1.352	0.92	0.000	0.402	0.24	1.30	0.31
31.00	85.37	1.354	85.37	1.354	0.92	0.000	0.402	0.24	1.30	0.31
31.05	85.39	1.356	85.39	1.356	0.92	0.000	0.402	0.24	1.30	0.31
31.10	85.41	1.358	85.41	1.358	0.92	0.000	0.402	0.24	1.30	0.31
31.15	85.44	1.360	85.44	1.360	0.92	0.000	0.402	0.24	1.30	0.31
31.20	85.46	1.362	85.46	1.362	0.92	0.000	0.402	0.24	1.30	0.31
31.25	85.48	1.364	85.48	1.364	0.92	0.000	0.402	0.24	1.30	0.31
31.30	85.51	1.366	85.51	1.366	0.92	0.000	0.402	0.24	1.30	0.31
31.35	85.53	1.368	85.53	1.368	0.92	0.000	0.402	0.24	1.30	0.31
31.40	85.55	1.370	85.55	1.370	0.92	0.000	0.402	0.24	1.30	0.31
31.45	85.58	1.372	85.58	1.372	0.92	0.000	0.402	0.24	1.30	0.31
31.50	85.60	1.374	85.60	1.374	0.92	0.000	0.402	0.24	1.30	0.31
31.55	85.42	1.376	85.42	1.376	0.92	0.000	0.402	0.24	1.30	0.31
31.60	85.25	1.378	85.25	1.378	0.92	0.000	0.402	0.24	1.30	0.31
31.65	85.07	1.380	85.07	1.380	0.92	0.000	0.402	0.24	1.30	0.31
31.70	84.89	1.383	84.89	1.383	0.92	0.000	0.402	0.24	1.30	0.31
31.75	84.72	1.385	84.72	1.385	0.92	0.000	0.402	0.24	1.30	0.31

31.80	84.54	1.387	84.54	1.387	0.92	0.000	0.402	0.24	1.30	0.31
31.85	84.36	1.389	84.36	1.389	0.91	0.000	0.402	0.24	1.30	0.31
31.90	84.19	1.391	84.19	1.391	0.91	0.000	0.402	0.24	1.30	0.31
31.95	84.01	1.392	84.01	1.392	0.91	0.000	0.402	0.24	1.30	0.31
32.00	83.83	1.394	83.83	1.394	0.91	0.000	0.402	0.24	1.30	0.31
32.05	83.66	1.396	83.66	1.396	0.91	0.000	0.402	0.24	1.30	0.31
32.10	83.48	1.398	83.48	1.398	0.91	0.000	0.402	0.24	1.30	0.31
32.15	83.30	1.400	83.30	1.400	0.91	0.000	0.402	0.24	1.30	0.31
32.20	83.13	1.402	83.13	1.402	0.91	0.000	0.402	0.24	1.30	0.31
32.25	82.95	1.404	82.95	1.404	0.91	0.000	0.402	0.24	1.30	0.31
32.30	82.77	1.406	82.77	1.406	0.91	0.000	0.402	0.24	1.30	0.31
32.35	82.60	1.408	82.60	1.408	0.91	0.000	0.402	0.24	1.30	0.31
32.40	82.42	1.410	82.42	1.410	0.91	0.000	0.402	0.24	1.30	0.31
32.45	82.24	1.412	82.24	1.412	0.91	0.000	0.402	0.24	1.30	0.31
32.50	82.07	1.414	82.07	1.414	0.91	0.000	0.402	0.24	1.30	0.31
32.55	81.89	1.416	81.89	1.416	0.91	0.000	0.402	0.24	1.30	0.31
32.60	81.71	1.418	81.71	1.418	0.91	0.000	0.402	0.24	1.30	0.31
32.65	81.54	1.420	81.54	1.420	0.91	0.000	0.402	0.24	1.30	0.31
32.70	81.36	1.422	81.36	1.422	0.91	0.000	0.402	0.24	1.30	0.31
32.75	81.18	1.424	81.18	1.424	0.91	0.000	0.402	0.24	1.30	0.31
32.80	81.01	1.426	81.01	1.426	0.91	0.000	0.402	0.24	1.30	0.31
32.85	80.83	1.428	80.83	1.428	0.91	0.000	0.402	0.24	1.30	0.31
32.90	80.65	1.429	80.65	1.429	0.91	0.000	0.402	0.24	1.30	0.31
32.95	80.48	1.431	80.48	1.431	0.91	0.000	0.402	0.24	1.30	0.31
33.00	80.30	1.433	80.30	1.433	0.91	0.000	0.402	0.24	1.30	0.31
33.05	80.45	1.435	80.45	1.435	0.91	0.000	0.402	0.24	1.30	0.31
33.10	80.59	1.437	80.59	1.437	0.90	0.000	0.402	0.24	1.30	0.31
33.15	80.74	1.439	80.74	1.439	0.90	0.000	0.402	0.24	1.30	0.31
33.20	80.89	1.441	80.89	1.441	0.90	0.000	0.402	0.24	1.30	0.31
33.25	81.03	1.443	81.03	1.443	0.90	0.000	0.402	0.24	1.30	0.31
33.30	81.18	1.445	81.18	1.445	0.90	0.000	0.402	0.24	1.30	0.31
33.35	81.33	1.447	81.33	1.447	0.90	0.000	0.402	0.24	1.30	0.31
33.40	81.47	1.449	81.47	1.449	0.90	0.000	0.402	0.24	1.30	0.31
33.45	81.62	1.451	81.62	1.451	0.90	0.000	0.402	0.24	1.30	0.31
33.50	81.77	1.452	81.77	1.452	0.90	0.000	0.402	0.24	1.30	0.31
33.55	81.91	1.454	81.91	1.454	0.90	0.000	0.402	0.24	1.30	0.31
33.60	82.06	1.456	82.06	1.456	0.90	0.000	0.402	0.24	1.30	0.31
33.65	82.21	1.458	82.21	1.458	0.90	0.000	0.402	0.24	1.30	0.31
33.70	82.35	1.460	82.35	1.460	0.90	0.000	0.402	0.24	1.30	0.31
33.75	82.50	1.462	82.50	1.462	0.90	0.000	0.402	0.24	1.30	0.31
33.80	82.65	1.464	82.65	1.464	0.90	0.000	0.402	0.23	1.30	0.31
33.85	82.79	1.466	82.79	1.466	0.90	0.000	0.402	0.23	1.30	0.31
33.90	82.94	1.468	82.94	1.468	0.90	0.000	0.402	0.23	1.30	0.31
33.95	83.09	1.470	83.09	1.470	0.90	0.000	0.402	0.23	1.30	0.30
34.00	83.23	1.472	83.23	1.472	0.90	0.000	0.402	0.23	1.30	0.30
34.05	83.38	1.474	83.38	1.474	0.90	0.000	0.402	0.23	1.30	0.30
34.10	83.53	1.476	83.53	1.476	0.90	0.000	0.402	0.23	1.30	0.30
34.15	83.67	1.478	83.67	1.478	0.90	0.000	0.402	0.23	1.30	0.30
34.20	83.82	1.480	83.82	1.480	0.90	0.000	0.402	0.23	1.30	0.30
34.25	83.97	1.482	83.97	1.482	0.90	0.000	0.402	0.23	1.30	0.30
34.30	84.11	1.484	84.11	1.484	0.89	0.000	0.402	0.23	1.30	0.30
34.35	84.26	1.486	84.26	1.486	0.89	0.000	0.402	0.23	1.30	0.30
34.40	84.41	1.488	84.41	1.488	0.89	0.000	0.402	0.23	1.30	0.30
34.45	84.55	1.490	84.55	1.490	0.89	0.000	0.402	0.23	1.30	0.30
34.50	84.70	1.492	84.70	1.492	0.89	0.000	0.402	0.23	1.30	0.30
34.55	84.58	1.494	84.58	1.494	0.89	0.000	0.402	0.23	1.30	0.30
34.60	84.47	1.496	84.47	1.496	0.89	0.000	0.402	0.23	1.30	0.30
34.65	84.35	1.498	84.35	1.498	0.89	0.000	0.402	0.23	1.30	0.30
34.70	84.23	1.500	84.23	1.500	0.89	0.000	0.402	0.23	1.30	0.30
34.75	84.12	1.502	84.12	1.502	0.89	0.000	0.402	0.23	1.30	0.30
34.80	84.00	1.504	84.00	1.504	0.89	0.000	0.402	0.23	1.30	0.30
34.85	83.88	1.506	83.88	1.506	0.89	0.000	0.402	0.23	1.30	0.30
34.90	83.77	1.508	83.77	1.508	0.89	0.000	0.402	0.23	1.30	0.30
34.95	83.65	1.510	83.65	1.510	0.89	0.000	0.402	0.23	1.30	0.30
35.00	83.53	1.512	83.53	1.512	0.89	0.000	0.402	0.23	1.30	0.30
35.05	83.42	1.514	83.42	1.514	0.89	0.000	0.402	0.23	1.30	0.30
35.10	83.30	1.516	83.30	1.516	0.89	0.000	0.402	0.23	1.30	0.30
35.15	83.18	1.518	83.18	1.518	0.89	0.000	0.402	0.23	1.30	0.30
35.20	83.07	1.519	83.07	1.519	0.89	0.000	0.402	0.23	1.30	0.30

35.25	82.95	1.521	82.95	1.521	0.89	0.000	0.402	0.23	1.30	0.30
35.30	82.83	1.523	82.83	1.523	0.89	0.000	0.402	0.23	1.30	0.30
35.35	82.72	1.525	82.72	1.525	0.89	0.000	0.402	0.23	1.30	0.30
35.40	82.60	1.527	82.60	1.527	0.89	0.000	0.402	0.23	1.30	0.30
35.45	82.48	1.529	82.48	1.529	0.89	0.000	0.402	0.23	1.30	0.30
35.50	82.37	1.531	82.37	1.531	0.89	0.000	0.402	0.23	1.30	0.30
35.55	82.25	1.533	82.25	1.533	0.88	0.000	0.402	0.23	1.30	0.30
35.60	82.13	1.535	82.13	1.535	0.88	0.000	0.402	0.23	1.30	0.30
35.65	82.02	1.537	82.02	1.537	0.88	0.000	0.402	0.23	1.30	0.30
35.70	81.90	1.539	81.90	1.539	0.88	0.000	0.402	0.23	1.30	0.30
35.75	81.78	1.541	81.78	1.541	0.88	0.000	0.402	0.23	1.30	0.30
35.80	81.67	1.543	81.67	1.543	0.88	0.000	0.402	0.23	1.30	0.30
35.85	81.55	1.545	81.55	1.545	0.88	0.000	0.402	0.23	1.30	0.30
35.90	81.43	1.547	81.43	1.547	0.88	0.000	0.402	0.23	1.30	0.30
35.95	81.32	1.549	81.32	1.549	0.88	0.000	0.402	0.23	1.30	0.30
36.00	81.20	1.551	81.20	1.551	0.88	0.000	0.402	0.23	1.30	0.30
36.05	81.14	1.552	81.14	1.552	0.88	0.000	0.402	0.23	1.30	0.30
36.10	81.09	1.554	81.09	1.554	0.88	0.000	0.402	0.23	1.30	0.30
36.15	81.03	1.556	81.03	1.556	0.88	0.000	0.402	0.23	1.30	0.30
36.20	80.97	1.558	80.97	1.558	0.88	0.000	0.402	0.23	1.30	0.30
36.25	80.92	1.560	80.92	1.560	0.88	0.000	0.402	0.23	1.30	0.30
36.30	80.86	1.562	80.86	1.562	0.88	0.000	0.402	0.23	1.30	0.30
36.35	80.80	1.564	80.80	1.564	0.88	0.000	0.402	0.23	1.30	0.30
36.40	80.75	1.566	80.75	1.566	0.88	0.000	0.402	0.23	1.30	0.30
36.45	80.69	1.568	80.69	1.568	0.88	0.000	0.402	0.23	1.30	0.30
36.50	80.63	1.570	80.63	1.570	0.88	0.000	0.402	0.23	1.30	0.30
36.55	80.58	1.572	80.58	1.572	0.88	0.000	0.402	0.23	1.30	0.30
36.60	80.52	1.573	80.52	1.573	0.88	0.000	0.402	0.23	1.30	0.30
36.65	80.46	1.575	80.46	1.575	0.88	0.000	0.402	0.23	1.30	0.30
36.70	80.41	1.577	80.41	1.577	0.88	0.000	0.402	0.23	1.30	0.30
36.75	80.35	1.579	80.35	1.579	0.87	0.000	0.402	0.23	1.30	0.30
36.80	80.29	1.581	80.29	1.581	0.87	0.000	0.402	0.23	1.30	0.30
36.85	80.24	1.583	80.24	1.583	0.87	0.000	0.402	0.23	1.30	0.30
36.90	80.18	1.585	80.18	1.585	0.87	0.000	0.402	0.23	1.30	0.30
36.95	80.12	1.587	80.12	1.587	0.87	0.000	0.402	0.23	1.30	0.30
37.00	80.07	1.589	80.07	1.589	0.87	0.000	0.402	0.23	1.30	0.30
37.05	80.01	1.591	80.01	1.591	0.87	0.000	0.402	0.23	1.30	0.30
37.10	79.95	1.592	79.95	1.592	0.87	0.000	0.402	0.23	1.30	0.30
37.15	79.90	1.594	79.90	1.594	0.87	0.000	0.402	0.23	1.30	0.30
37.20	79.84	1.596	79.84	1.596	0.87	0.000	0.402	0.23	1.30	0.30
37.25	79.78	1.598	79.78	1.598	0.87	0.000	0.402	0.23	1.30	0.30
37.30	79.73	1.600	79.73	1.600	0.87	0.000	0.402	0.23	1.30	0.30
37.35	79.67	1.602	79.67	1.602	0.87	0.000	0.402	0.23	1.30	0.30
37.40	79.61	1.604	79.61	1.604	0.87	0.000	0.402	0.23	1.30	0.30
37.45	79.56	1.606	79.56	1.606	0.87	0.000	0.402	0.23	1.30	0.30
37.50	79.50	1.608	79.50	1.608	0.87	0.000	0.402	0.23	1.30	0.30
37.55	79.39	1.609	79.39	1.609	0.87	0.000	0.402	0.23	1.30	0.29
37.60	79.27	1.611	79.27	1.611	0.87	0.000	0.402	0.23	1.30	0.29
37.65	79.16	1.613	79.16	1.613	0.87	0.000	0.402	0.23	1.30	0.29
37.70	79.05	1.615	79.05	1.615	0.87	0.000	0.402	0.23	1.30	0.29
37.75	78.93	1.617	78.93	1.617	0.87	0.000	0.402	0.23	1.30	0.29
37.80	78.82	1.619	78.82	1.619	0.87	0.000	0.402	0.23	1.30	0.29
37.85	78.71	1.621	78.71	1.621	0.87	0.000	0.402	0.23	1.30	0.29
37.90	78.59	1.622	78.59	1.622	0.87	0.000	0.402	0.23	1.30	0.29
37.95	78.48	1.624	78.48	1.624	0.87	0.000	0.402	0.23	1.30	0.29
38.00	78.37	1.626	78.37	1.626	0.86	0.000	0.402	0.23	1.30	0.29
38.05	78.25	1.628	78.25	1.628	0.86	0.000	0.402	0.23	1.30	0.29
38.10	78.14	1.630	78.14	1.630	0.86	0.000	0.402	0.23	1.30	0.29
38.15	78.03	1.632	78.03	1.632	0.86	0.000	0.402	0.23	1.30	0.29
38.20	77.91	1.634	77.91	1.634	0.86	0.000	0.402	0.23	1.30	0.29
38.25	77.80	1.635	77.80	1.635	0.86	0.000	0.402	0.23	1.30	0.29
38.30	77.69	1.637	77.69	1.637	0.86	0.000	0.402	0.23	1.30	0.29
38.35	77.57	1.639	77.57	1.639	0.86	0.000	0.402	0.23	1.30	0.29
38.40	77.46	1.641	77.46	1.641	0.86	0.000	0.402	0.23	1.30	0.29
38.45	77.35	1.643	77.35	1.643	0.86	0.000	0.402	0.23	1.30	0.29
38.50	77.23	1.645	77.23	1.645	0.86	0.000	0.402	0.22	1.30	0.29
38.55	77.12	1.646	77.12	1.646	0.86	0.000	0.402	0.22	1.30	0.29
38.60	77.01	1.648	77.01	1.648	0.86	0.000	0.402	0.22	1.30	0.29
38.65	76.89	1.650	76.89	1.650	0.86	0.000	0.402	0.22	1.30	0.29

38.70	76.78	1.652	76.78	1.652	0.86	0.000	0.402	0.22	1.30	0.29
38.75	76.67	1.654	76.67	1.654	0.86	0.000	0.402	0.22	1.30	0.29
38.80	76.55	1.656	76.55	1.656	0.86	0.000	0.402	0.22	1.30	0.29
38.85	76.44	1.657	76.44	1.657	0.86	0.000	0.402	0.22	1.30	0.29
38.90	76.33	1.659	76.33	1.659	0.86	0.000	0.402	0.22	1.30	0.29
38.95	76.21	1.661	76.21	1.661	0.86	0.000	0.402	0.22	1.30	0.29
39.00	76.10	1.663	76.10	1.663	0.86	0.000	0.402	0.22	1.30	0.29
39.05	76.24	1.665	76.24	1.665	0.86	0.000	0.402	0.22	1.30	0.29
39.10	76.37	1.666	76.37	1.666	0.86	0.000	0.402	0.22	1.30	0.29
39.15	76.51	1.668	76.51	1.668	0.86	0.000	0.402	0.22	1.30	0.29
39.20	76.65	1.670	76.65	1.670	0.86	0.000	0.402	0.22	1.30	0.29
39.25	76.78	1.672	76.78	1.672	0.85	0.000	0.402	0.22	1.30	0.29
39.30	76.92	1.674	76.92	1.674	0.85	0.000	0.402	0.22	1.30	0.29
39.35	77.06	1.675	77.06	1.675	0.85	0.000	0.402	0.22	1.30	0.29
39.40	77.19	1.677	77.19	1.677	0.85	0.000	0.402	0.22	1.30	0.29
39.45	77.33	1.679	77.33	1.679	0.85	0.000	0.402	0.22	1.30	0.29
39.50	77.47	1.681	77.47	1.681	0.85	0.000	0.402	0.22	1.30	0.29
39.55	77.60	1.683	77.60	1.683	0.85	0.000	0.402	0.22	1.30	0.29
39.60	77.74	1.685	77.74	1.685	0.85	0.000	0.402	0.22	1.30	0.29
39.65	77.88	1.686	77.88	1.686	0.85	0.000	0.402	0.22	1.30	0.29
39.70	78.01	1.688	78.01	1.688	0.85	0.000	0.402	0.22	1.30	0.29
39.75	78.15	1.690	78.15	1.690	0.85	0.000	0.402	0.22	1.30	0.29
39.80	78.29	1.692	78.29	1.692	0.85	0.000	0.402	0.22	1.30	0.29
39.85	78.42	1.694	78.42	1.694	0.85	0.000	0.402	0.22	1.30	0.29
39.90	78.56	1.696	78.56	1.696	0.85	0.000	0.402	0.22	1.30	0.29
39.95	78.70	1.697	78.70	1.697	0.85	0.000	0.402	0.22	1.30	0.29
40.00	78.83	1.699	78.83	1.699	0.85	0.000	0.402	0.22	1.30	0.29
40.05	78.97	1.701	78.97	1.701	0.85	0.000	0.402	0.22	1.30	0.29
40.10	79.11	1.703	79.11	1.703	0.85	0.000	0.402	0.22	1.30	0.29
40.15	79.24	1.705	79.24	1.705	0.85	0.000	0.402	0.22	1.30	0.29
40.20	79.38	1.707	79.38	1.707	0.85	0.000	0.402	0.22	1.30	0.29
40.25	79.52	1.709	79.52	1.709	0.85	0.000	0.402	0.22	1.30	0.29
40.30	79.65	1.711	79.65	1.711	0.85	0.000	0.402	0.22	1.30	0.29
40.35	79.79	1.712	79.79	1.712	0.85	0.000	0.402	0.22	1.30	0.29
40.40	79.93	1.714	79.93	1.714	0.85	0.000	0.402	0.22	1.30	0.29
40.45	80.06	1.716	80.06	1.716	0.84	0.000	0.402	0.22	1.30	0.29
40.50	80.20	1.718	80.20	1.718	0.84	0.000	0.402	0.22	1.30	0.29
40.55	80.25	1.720	80.25	1.720	0.84	0.000	0.402	0.22	1.30	0.29
40.60	80.29	1.722	80.29	1.722	0.84	0.000	0.402	0.22	1.30	0.29
40.65	80.34	1.724	80.34	1.724	0.84	0.000	0.402	0.22	1.30	0.29
40.70	80.39	1.726	80.39	1.726	0.84	0.000	0.402	0.22	1.30	0.29
40.75	80.43	1.728	80.43	1.728	0.84	0.000	0.402	0.22	1.30	0.29
40.80	80.48	1.729	80.48	1.729	0.84	0.000	0.402	0.22	1.30	0.29
40.85	80.53	1.731	80.53	1.731	0.84	0.000	0.402	0.22	1.30	0.29
40.90	80.57	1.733	80.57	1.733	0.84	0.000	0.402	0.22	1.30	0.29
40.95	80.62	1.735	80.62	1.735	0.84	0.000	0.402	0.22	1.30	0.29
41.00	80.67	1.737	80.67	1.737	0.84	0.000	0.402	0.22	1.30	0.29
41.05	80.71	1.739	80.71	1.739	0.84	0.000	0.402	0.22	1.30	0.29
41.10	80.76	1.741	80.76	1.741	0.84	0.000	0.402	0.22	1.30	0.29
41.15	80.81	1.743	80.81	1.743	0.84	0.000	0.402	0.22	1.30	0.29
41.20	80.85	1.745	80.85	1.745	0.84	0.000	0.402	0.22	1.30	0.28
41.25	80.90	1.747	80.90	1.747	0.84	0.000	0.402	0.22	1.30	0.28
41.30	80.95	1.749	80.95	1.749	0.84	0.000	0.402	0.22	1.30	0.28
41.35	80.99	1.750	80.99	1.750	0.84	0.000	0.402	0.22	1.30	0.28
41.40	81.04	1.752	81.04	1.752	0.84	0.000	0.402	0.22	1.30	0.28
41.45	81.09	1.754	81.09	1.754	0.84	0.000	0.402	0.22	1.30	0.28
41.50	81.13	1.756	81.13	1.756	0.84	0.000	0.402	0.22	1.30	0.28
41.55	81.18	1.758	81.18	1.758	0.84	0.000	0.402	0.22	1.30	0.28
41.60	81.23	1.760	81.23	1.760	0.84	0.000	0.402	0.22	1.30	0.28
41.65	81.27	1.762	81.27	1.762	0.84	0.000	0.402	0.22	1.30	0.28
41.70	81.32	1.764	81.32	1.764	0.83	0.000	0.402	0.22	1.30	0.28
41.75	81.37	1.766	81.37	1.766	0.83	0.000	0.402	0.22	1.30	0.28
41.80	81.41	1.768	81.41	1.768	0.83	0.000	0.402	0.22	1.30	0.28
41.85	81.46	1.770	81.46	1.770	0.83	0.000	0.402	0.22	1.30	0.28
41.90	81.51	1.772	81.51	1.772	0.83	0.000	0.402	0.22	1.30	0.28
41.95	81.55	1.773	81.55	1.773	0.83	0.000	0.402	0.22	1.30	0.28
42.00	81.60	1.775	81.60	1.775	0.83	0.000	0.402	0.22	1.30	0.28
42.05	81.66	1.777	81.66	1.777	0.83	0.000	0.402	0.22	1.30	0.28
42.10	81.73	1.779	81.73	1.779	0.83	0.000	0.402	0.22	1.30	0.28

42.15	81.79	1.781	81.79	1.781	0.83	0.000	0.402	0.22	1.30	0.28
42.20	81.85	1.783	81.85	1.783	0.83	0.000	0.402	0.22	1.30	0.28
42.25	81.92	1.785	81.92	1.785	0.83	0.000	0.402	0.22	1.30	0.28
42.30	81.98	1.787	81.98	1.787	0.83	0.000	0.402	0.22	1.30	0.28
42.35	82.04	1.789	82.04	1.789	0.83	0.000	0.402	0.22	1.30	0.28
42.40	82.11	1.791	82.11	1.791	0.83	0.000	0.402	0.22	1.30	0.28
42.45	82.17	1.793	82.17	1.793	0.83	0.000	0.402	0.22	1.30	0.28
42.50	82.23	1.795	82.23	1.795	0.83	0.000	0.402	0.22	1.30	0.28
42.55	82.30	1.797	82.30	1.797	0.83	0.000	0.402	0.22	1.30	0.28
42.60	82.36	1.799	82.36	1.799	0.83	0.000	0.402	0.22	1.30	0.28
42.65	82.42	1.801	82.42	1.801	0.83	0.000	0.402	0.22	1.30	0.28
42.70	82.49	1.803	82.49	1.803	0.83	0.000	0.402	0.22	1.30	0.28
42.75	82.55	1.804	82.55	1.804	0.83	0.000	0.402	0.22	1.30	0.28
42.80	82.61	1.806	82.61	1.806	0.83	0.000	0.402	0.22	1.30	0.28
42.85	82.68	1.808	82.68	1.808	0.83	0.000	0.402	0.22	1.30	0.28
42.90	82.74	1.810	82.74	1.810	0.82	0.000	0.402	0.22	1.30	0.28
42.95	82.80	1.812	82.80	1.812	0.82	0.000	0.402	0.22	1.30	0.28
43.00	82.87	1.814	82.87	1.814	0.82	0.000	0.402	0.22	1.30	0.28
43.05	82.93	1.816	82.93	1.816	0.82	0.000	0.402	0.22	1.30	0.28
43.10	82.99	1.818	82.99	1.818	0.82	0.000	0.402	0.22	1.30	0.28
43.15	83.06	1.820	83.06	1.820	0.82	0.000	0.402	0.22	1.30	0.28
43.20	83.12	1.822	83.12	1.822	0.82	0.000	0.402	0.21	1.30	0.28
43.25	83.18	1.824	83.18	1.824	0.82	0.000	0.402	0.21	1.30	0.28
43.30	83.25	1.826	83.25	1.826	0.82	0.000	0.402	0.21	1.30	0.28
43.35	83.31	1.828	83.31	1.828	0.82	0.000	0.402	0.21	1.30	0.28
43.40	83.37	1.830	83.37	1.830	0.82	0.000	0.402	0.21	1.30	0.28
43.45	83.44	1.832	83.44	1.832	0.82	0.000	0.402	0.21	1.30	0.28
43.50	83.50	1.834	83.50	1.834	0.82	0.000	0.402	0.21	1.30	0.28
43.55	83.60	1.836	83.60	1.836	0.82	0.000	0.402	0.21	1.30	0.28
43.60	83.69	1.838	83.69	1.838	0.82	0.000	0.402	0.21	1.30	0.28
43.65	83.79	1.840	83.79	1.840	0.82	0.000	0.402	0.21	1.30	0.28
43.70	83.89	1.842	83.89	1.842	0.82	0.000	0.402	0.21	1.30	0.28
43.75	83.98	1.844	83.98	1.844	0.82	0.000	0.402	0.21	1.30	0.28
43.80	84.08	1.846	84.08	1.846	0.82	0.000	0.402	0.21	1.30	0.28
43.85	84.18	1.848	84.18	1.848	0.82	0.000	0.402	0.21	1.30	0.28
43.90	84.27	1.850	84.27	1.850	0.82	0.000	0.402	0.21	1.30	0.28
43.95	84.37	1.852	84.37	1.852	0.82	0.000	0.402	0.21	1.30	0.28
44.00	84.47	1.854	84.47	1.854	0.82	0.000	0.402	0.21	1.30	0.28
44.05	84.56	1.856	84.56	1.856	0.82	0.000	0.402	0.21	1.30	0.28
44.10	84.66	1.858	84.66	1.858	0.82	0.000	0.402	0.21	1.30	0.28
44.15	84.76	1.860	84.76	1.860	0.81	0.000	0.402	0.21	1.30	0.28
44.20	84.85	1.862	84.85	1.862	0.81	0.000	0.402	0.21	1.30	0.28
44.25	84.95	1.864	84.95	1.864	0.81	0.000	0.402	0.21	1.30	0.28
44.30	85.05	1.866	85.05	1.866	0.81	0.000	0.402	0.21	1.30	0.28
44.35	85.14	1.868	85.14	1.868	0.81	0.000	0.402	0.21	1.30	0.28
44.40	85.24	1.870	85.24	1.870	0.81	0.000	0.402	0.21	1.30	0.28
44.45	85.34	1.872	85.34	1.872	0.81	0.000	0.402	0.21	1.30	0.28
44.50	85.43	1.874	85.43	1.874	0.81	0.000	0.402	0.21	1.30	0.28
44.55	85.53	1.876	85.53	1.876	0.81	0.000	0.402	0.21	1.30	0.28
44.60	85.63	1.878	85.63	1.878	0.81	0.000	0.402	0.21	1.30	0.28
44.65	85.72	1.880	85.72	1.880	0.81	0.000	0.402	0.21	1.30	0.28
44.70	85.82	1.882	85.82	1.882	0.81	0.000	0.402	0.21	1.30	0.28
44.75	85.92	1.884	85.92	1.884	0.81	0.000	0.402	0.21	1.30	0.28
44.80	86.01	1.886	86.01	1.886	0.81	0.000	0.402	0.21	1.30	0.27
44.85	86.11	1.888	86.11	1.888	0.81	0.000	0.402	0.21	1.30	0.27
44.90	86.21	1.890	86.21	1.890	0.81	0.000	0.402	0.21	1.30	0.27
44.95	86.30	1.892	86.30	1.892	0.81	0.000	0.402	0.21	1.30	0.27
45.00	86.40	1.894	86.40	1.894	0.81	0.000	0.402	0.21	1.30	0.27
45.05	86.36	1.896	86.36	1.896	0.81	0.000	0.402	0.21	1.30	0.27
45.10	86.31	1.898	86.31	1.898	0.81	0.000	0.402	0.21	1.30	0.27
45.15	86.27	1.900	86.27	1.900	0.81	0.000	0.402	0.21	1.30	0.27
45.20	86.23	1.902	86.23	1.902	0.81	0.000	0.402	0.21	1.30	0.27
45.25	86.18	1.904	86.18	1.904	0.81	0.000	0.402	0.21	1.30	0.27
45.30	86.14	1.906	86.14	1.906	0.81	0.000	0.402	0.21	1.30	0.27
45.35	86.10	1.908	86.10	1.908	0.80	0.000	0.402	0.21	1.30	0.27
45.40	86.05	1.910	86.05	1.910	0.80	0.000	0.402	0.21	1.30	0.27
45.45	86.01	1.912	86.01	1.912	0.80	0.000	0.402	0.21	1.30	0.27
45.50	85.97	1.914	85.97	1.914	0.80	0.000	0.402	0.21	1.30	0.27
45.55	85.92	1.916	85.92	1.916	0.80	0.000	0.402	0.21	1.30	0.27

45.60	85.88	1.918	85.88	1.918	0.80	0.000	0.402	0.21	1.30	0.27
45.65	85.84	1.921	85.84	1.921	0.80	0.000	0.402	0.21	1.30	0.27
45.70	85.79	1.923	85.79	1.923	0.80	0.000	0.402	0.21	1.30	0.27
45.75	85.75	1.925	85.75	1.925	0.80	0.000	0.402	0.21	1.30	0.27
45.80	85.71	1.927	85.71	1.927	0.80	0.000	0.402	0.21	1.30	0.27
45.85	85.66	1.929	85.66	1.929	0.80	0.000	0.402	0.21	1.30	0.27
45.90	85.62	1.931	85.62	1.931	0.80	0.000	0.402	0.21	1.30	0.27
45.95	85.58	1.933	85.58	1.933	0.80	0.000	0.402	0.21	1.30	0.27
46.00	85.53	1.935	85.53	1.935	0.80	0.000	0.402	0.21	1.30	0.27
46.05	85.49	1.937	85.49	1.937	0.80	0.000	0.402	0.21	1.30	0.27
46.10	85.45	1.939	85.45	1.939	0.80	0.000	0.402	0.21	1.30	0.27
46.15	85.40	1.941	85.40	1.941	0.80	0.000	0.402	0.21	1.30	0.27
46.20	85.36	1.943	85.36	1.943	0.80	0.000	0.402	0.21	1.30	0.27
46.25	85.32	1.945	85.32	1.945	0.80	0.000	0.402	0.21	1.30	0.27
46.30	85.27	1.947	85.27	1.947	0.80	0.000	0.402	0.21	1.30	0.27
46.35	85.23	1.949	85.23	1.949	0.80	0.000	0.402	0.21	1.30	0.27
46.40	85.19	1.951	85.19	1.951	0.80	0.000	0.402	0.21	1.30	0.27
46.45	85.14	1.953	85.14	1.953	0.80	0.000	0.402	0.21	1.30	0.27
46.50	85.10	1.955	85.10	1.955	0.80	0.000	0.402	0.21	1.30	0.27
46.55	85.30	1.957	85.30	1.957	0.80	0.000	0.402	0.21	1.30	0.27
46.60	85.50	1.959	85.50	1.959	0.79	0.000	0.402	0.21	1.30	0.27
46.65	85.70	1.961	85.70	1.961	0.79	0.000	0.402	0.21	1.30	0.27
46.70	85.90	1.963	85.90	1.963	0.79	0.000	0.402	0.21	1.30	0.27
46.75	86.10	1.965	86.10	1.965	0.79	0.000	0.402	0.21	1.30	0.27
46.80	86.30	1.967	86.30	1.967	0.79	0.000	0.402	0.21	1.30	0.27
46.85	86.50	1.969	86.50	1.969	0.79	0.000	0.402	0.21	1.30	0.27
46.90	86.70	1.971	86.70	1.971	0.79	0.000	0.402	0.21	1.30	0.27
46.95	86.90	1.973	86.90	1.973	0.79	0.000	0.402	0.21	1.30	0.27
47.00	87.10	1.975	87.10	1.975	0.79	0.000	0.402	0.21	1.30	0.27
47.05	87.30	1.977	87.30	1.977	0.79	0.000	0.402	0.21	1.30	0.27
47.10	87.50	1.979	87.50	1.979	0.79	0.000	0.402	0.21	1.30	0.27
47.15	87.70	1.981	87.70	1.981	0.79	0.000	0.402	0.21	1.30	0.27
47.20	87.90	1.983	87.90	1.983	0.79	0.000	0.402	0.21	1.30	0.27
47.25	88.10	1.986	88.10	1.986	0.79	0.000	0.402	0.21	1.30	0.27
47.30	88.30	1.988	88.30	1.988	0.79	0.000	0.402	0.21	1.30	0.27
47.35	88.50	1.990	88.50	1.990	0.79	0.000	0.402	0.21	1.30	0.27
47.40	88.70	1.992	88.70	1.992	0.79	0.000	0.402	0.21	1.30	0.27
47.45	88.90	1.994	88.90	1.994	0.79	0.000	0.402	0.21	1.30	0.27
47.50	89.10	1.996	89.10	1.996	0.79	0.000	0.402	0.21	1.30	0.27
47.55	89.30	1.998	89.30	1.998	0.79	0.000	0.402	0.21	1.30	0.27
47.60	89.50	2.000	89.50	2.000	0.79	0.000	0.402	0.21	1.30	0.27
47.65	89.70	2.002	89.70	2.002	0.79	0.000	0.402	0.21	1.30	0.27
47.70	89.90	2.004	89.90	2.004	0.79	0.000	0.402	0.21	1.30	0.27
47.75	90.10	2.007	90.10	2.007	0.79	0.000	0.402	0.21	1.30	0.27
47.80	90.30	2.009	90.30	2.009	0.79	0.000	0.402	0.21	1.30	0.27
47.85	90.50	2.011	90.50	2.011	0.78	0.000	0.402	0.21	1.30	0.27
47.90	90.70	2.013	90.70	2.013	0.78	0.000	0.402	0.20	1.30	0.27
47.95	90.90	2.015	90.90	2.015	0.78	0.000	0.402	0.20	1.30	0.27
48.00	91.10	2.017	91.10	2.017	0.78	0.000	0.402	0.20	1.30	0.27
48.05	91.27	2.019	91.27	2.019	0.78	0.000	0.402	0.20	1.30	0.27
48.10	91.43	2.022	91.43	2.022	0.78	0.000	0.402	0.20	1.30	0.27
48.15	91.60	2.024	91.60	2.024	0.78	0.000	0.402	0.20	1.30	0.27
48.20	91.77	2.026	91.77	2.026	0.78	0.000	0.402	0.20	1.30	0.27
48.25	91.93	2.028	91.93	2.028	0.78	0.000	0.402	0.20	1.30	0.27
48.30	92.10	2.030	92.10	2.030	0.78	0.000	0.402	0.20	1.30	0.27
48.35	92.27	2.032	92.27	2.032	0.78	0.000	0.402	0.20	1.30	0.27
48.40	92.43	2.035	92.43	2.035	0.78	0.000	0.402	0.20	1.30	0.27
48.45	92.60	2.037	92.60	2.037	0.78	0.000	0.402	0.20	1.30	0.26
48.50	92.77	2.039	92.77	2.039	0.78	0.000	0.402	0.20	1.30	0.26
48.55	92.93	2.041	92.93	2.041	0.78	0.000	0.402	0.20	1.30	0.26
48.60	93.10	2.043	93.10	2.043	0.78	0.000	0.402	0.20	1.30	0.26
48.65	93.27	2.046	93.27	2.046	0.78	0.000	0.402	0.20	1.30	0.26
48.70	93.43	2.048	93.43	2.048	0.78	0.000	0.402	0.20	1.30	0.26
48.75	93.60	2.050	93.60	2.050	0.78	0.000	0.402	0.20	1.30	0.26
48.80	93.77	2.052	93.77	2.052	0.78	0.000	0.402	0.20	1.30	0.26
48.85	93.93	2.054	93.93	2.054	0.78	0.000	0.402	0.20	1.30	0.26
48.90	94.10	2.057	94.10	2.057	0.78	0.000	0.402	0.20	1.30	0.26
48.95	94.27	2.059	94.27	2.059	0.78	0.000	0.402	0.20	1.30	0.26
49.00	94.43	2.061	94.43	2.061	0.78	0.000	0.402	0.20	1.30	0.26

49.05	94.60	2.063	94.60	2.063	0.77	0.000	0.402	0.20	1.30	0.26
49.10	94.77	2.066	94.77	2.066	0.77	0.000	0.402	0.20	1.30	0.26
49.15	94.93	2.068	94.93	2.068	0.77	0.000	0.402	0.20	1.30	0.26
49.20	95.10	2.070	95.10	2.070	0.77	0.000	0.402	0.20	1.30	0.26
49.25	95.27	2.072	95.27	2.072	0.77	0.000	0.402	0.20	1.30	0.26
49.30	95.43	2.074	95.43	2.074	0.77	0.000	0.402	0.20	1.30	0.26
49.35	95.60	2.077	95.60	2.077	0.77	0.000	0.402	0.20	1.30	0.26
49.40	95.77	2.079	95.77	2.079	0.77	0.000	0.402	0.20	1.30	0.26
49.45	95.93	2.081	95.93	2.081	0.77	0.000	0.402	0.20	1.30	0.26
49.50	96.10	2.084	96.10	2.084	0.77	0.000	0.402	0.20	1.30	0.26
49.55	96.10	2.086	96.10	2.086	0.77	0.000	0.402	0.20	1.30	0.26
49.60	96.10	2.088	96.10	2.088	0.77	0.000	0.402	0.20	1.30	0.26
49.65	96.10	2.090	96.10	2.090	0.77	0.000	0.402	0.20	1.30	0.26
49.70	96.10	2.093	96.10	2.093	0.77	0.000	0.402	0.20	1.30	0.26
49.75	96.10	2.095	96.10	2.095	0.77	0.000	0.402	0.20	1.30	0.26
49.80	96.10	2.097	96.10	2.097	0.77	0.000	0.402	0.20	1.30	0.26
49.85	96.10	2.099	96.10	2.099	0.77	0.000	0.402	0.20	1.30	0.26
49.90	96.10	2.102	96.10	2.102	0.77	0.000	0.402	0.20	1.30	0.26
49.95	96.10	2.104	96.10	2.104	0.77	0.000	0.402	0.20	1.30	0.26
50.00	96.10	2.106	96.10	2.106	0.77	0.000	0.402	0.20	1.30	0.26

CSR is based on water table at 100.00 during earthquake

CRR Calculation from SPT or BPT data:										
Depth ft	SPT	Cebs	Cr	sigma' atm	Cn	(N1)60	Fines %	d(N1)60	(N1)60f	CRR7.5
1.50	14.00	1.73	0.75	0.057	1.70	30.79	NoLiq	7.20	37.99	0.50
1.55	14.13	1.73	0.75	0.059	1.70	31.08	NoLiq	7.20	38.28	0.50
1.60	14.27	1.73	0.75	0.061	1.70	31.38	NoLiq	7.20	38.58	0.50
1.65	14.40	1.73	0.75	0.063	1.70	31.67	NoLiq	7.20	38.87	0.50
1.70	14.53	1.73	0.75	0.065	1.70	31.96	NoLiq	7.20	39.16	0.50
1.75	14.67	1.73	0.75	0.066	1.70	32.26	NoLiq	7.20	39.46	0.50
1.80	14.80	1.73	0.75	0.068	1.70	32.55	NoLiq	7.20	39.75	0.50
1.85	14.93	1.73	0.75	0.070	1.70	32.84	NoLiq	7.20	40.04	0.50
1.90	15.07	1.73	0.75	0.072	1.70	33.14	NoLiq	7.20	40.34	0.50
1.95	15.20	1.73	0.75	0.074	1.70	33.43	NoLiq	7.20	40.63	0.50
2.00	15.33	1.73	0.75	0.076	1.70	33.72	NoLiq	7.20	40.92	0.50
2.05	15.47	1.73	0.75	0.078	1.70	34.02	NoLiq	7.20	41.22	0.50
2.10	15.60	1.73	0.75	0.080	1.70	34.31	NoLiq	7.20	41.51	0.50
2.15	15.73	1.73	0.75	0.082	1.70	34.60	NoLiq	7.20	41.80	0.50
2.20	15.87	1.73	0.75	0.084	1.70	34.90	NoLiq	7.20	42.10	0.50
2.25	16.00	1.73	0.75	0.085	1.70	35.19	NoLiq	7.20	42.39	0.50
2.30	16.13	1.73	0.75	0.087	1.70	35.48	NoLiq	7.20	42.68	0.50
2.35	16.27	1.73	0.75	0.089	1.70	35.78	NoLiq	7.20	42.98	0.50
2.40	16.40	1.73	0.75	0.091	1.70	36.07	NoLiq	7.20	43.27	0.50
2.45	16.53	1.73	0.75	0.093	1.70	36.36	NoLiq	7.20	43.56	0.50
2.50	16.67	1.73	0.75	0.095	1.70	36.66	NoLiq	7.20	43.86	0.50
2.55	16.80	1.73	0.75	0.097	1.70	36.95	NoLiq	7.20	44.15	0.50
2.60	16.93	1.73	0.75	0.099	1.70	37.24	NoLiq	7.20	44.44	0.50
2.65	17.07	1.73	0.75	0.101	1.70	37.54	NoLiq	7.20	44.74	0.50
2.70	17.20	1.73	0.75	0.103	1.70	37.83	NoLiq	7.20	45.03	0.50
2.75	17.33	1.73	0.75	0.105	1.70	38.12	NoLiq	7.20	45.32	0.50
2.80	17.47	1.73	0.75	0.107	1.70	38.42	NoLiq	7.20	45.62	0.50
2.85	17.60	1.73	0.75	0.109	1.70	38.71	NoLiq	7.20	45.91	0.50
2.90	17.73	1.73	0.75	0.110	1.70	39.00	NoLiq	7.20	46.20	0.50
2.95	17.87	1.73	0.75	0.112	1.70	39.30	NoLiq	7.20	46.50	0.50
3.00	18.00	1.73	0.75	0.114	1.70	39.59	NoLiq	7.20	46.79	0.50
3.05	17.97	1.73	0.75	0.116	1.70	39.52	NoLiq	7.20	46.72	0.50
3.10	17.93	1.73	0.75	0.118	1.70	39.44	NoLiq	7.20	46.64	0.50
3.15	17.90	1.73	0.75	0.120	1.70	39.37	NoLiq	7.20	46.57	0.50
3.20	17.87	1.73	0.75	0.122	1.70	39.30	NoLiq	7.20	46.50	0.50
3.25	17.83	1.73	0.75	0.124	1.70	39.22	NoLiq	7.20	46.42	0.50
3.30	17.80	1.73	0.75	0.126	1.70	39.15	NoLiq	7.20	46.35	0.50
3.35	17.77	1.73	0.75	0.128	1.70	39.08	NoLiq	7.20	46.28	0.50
3.40	17.73	1.73	0.75	0.130	1.70	39.00	NoLiq	7.20	46.20	0.50
3.45	17.70	1.73	0.75	0.132	1.70	38.93	NoLiq	7.20	46.13	0.50
3.50	17.67	1.73	0.75	0.134	1.70	38.86	NoLiq	7.20	46.06	0.50
3.55	17.63	1.73	0.75	0.136	1.70	38.78	NoLiq	7.20	45.98	0.50

3.60	17.60	1.73	0.75	0.138	1.70	38.71	NoLiq	7.20	45.91	0.50
3.65	17.57	1.73	0.75	0.140	1.70	38.64	NoLiq	7.20	45.84	0.50
3.70	17.53	1.73	0.75	0.142	1.70	38.56	NoLiq	7.20	45.76	0.50
3.75	17.50	1.73	0.75	0.144	1.70	38.49	NoLiq	7.20	45.69	0.50
3.80	17.47	1.73	0.75	0.146	1.70	38.42	NoLiq	7.20	45.62	0.50
3.85	17.43	1.73	0.75	0.148	1.70	38.34	NoLiq	7.20	45.54	0.50
3.90	17.40	1.73	0.75	0.150	1.70	38.27	NoLiq	7.20	45.47	0.50
3.95	17.37	1.73	0.75	0.152	1.70	38.20	NoLiq	7.20	45.40	0.50
4.00	17.33	1.73	0.75	0.154	1.70	38.12	NoLiq	7.20	45.32	0.50
4.05	17.30	1.73	0.75	0.157	1.70	38.05	NoLiq	7.20	45.25	0.50
4.10	17.27	1.73	0.75	0.159	1.70	37.98	NoLiq	7.20	45.18	0.50
4.15	17.23	1.73	0.75	0.161	1.70	37.90	NoLiq	7.20	45.10	0.50
4.20	17.20	1.73	0.75	0.163	1.70	37.83	NoLiq	7.20	45.03	0.50
4.25	17.17	1.73	0.75	0.165	1.70	37.76	NoLiq	7.20	44.96	0.50
4.30	17.13	1.73	0.75	0.167	1.70	37.68	NoLiq	7.20	44.88	0.50
4.35	17.10	1.73	0.75	0.169	1.70	37.61	NoLiq	7.20	44.81	0.50
4.40	17.07	1.73	0.75	0.171	1.70	37.54	NoLiq	7.20	44.74	0.50
4.45	17.03	1.73	0.75	0.174	1.70	37.46	NoLiq	7.20	44.66	0.50
4.50	17.00	1.73	0.75	0.176	1.70	37.39	NoLiq	7.20	44.59	0.50
4.55	17.17	1.73	0.75	0.178	1.70	37.76	47.77	7.20	44.96	0.50
4.60	17.33	1.73	0.75	0.180	1.70	38.12	46.53	7.20	45.32	0.50
4.65	17.50	1.73	0.75	0.182	1.70	38.49	45.30	7.20	45.69	0.50
4.70	17.67	1.73	0.75	0.185	1.70	38.86	44.07	7.20	46.06	0.50
4.75	17.83	1.73	0.75	0.187	1.70	39.22	42.83	7.20	46.42	0.50
4.80	18.00	1.73	0.75	0.189	1.70	39.59	41.60	7.20	46.79	0.50
4.85	18.17	1.73	0.75	0.191	1.70	39.96	40.37	7.20	47.16	0.50
4.90	18.33	1.73	0.75	0.194	1.70	40.32	39.13	7.20	47.52	0.50
4.95	18.50	1.73	0.75	0.196	1.70	40.69	37.90	7.20	47.89	0.50
5.00	18.67	1.73	0.75	0.198	1.70	41.06	36.67	7.20	48.26	0.50
5.05	18.83	1.73	0.75	0.201	1.70	41.42	35.43	7.20	48.62	0.50
5.10	19.00	1.73	0.75	0.203	1.70	41.79	34.20	7.01	48.80	0.50
5.15	19.17	1.73	0.75	0.205	1.70	42.15	32.97	6.71	48.87	0.50
5.20	19.33	1.73	0.75	0.208	1.70	42.52	31.73	6.42	48.94	0.50
5.25	19.50	1.73	0.75	0.210	1.70	42.89	30.50	6.12	49.01	0.50
5.30	19.67	1.73	0.75	0.212	1.70	43.25	29.27	5.82	49.08	0.50
5.35	19.83	1.73	0.75	0.215	1.70	43.62	28.03	5.53	49.15	0.50
5.40	20.00	1.73	0.75	0.217	1.70	43.99	26.80	5.23	49.22	0.50
5.45	20.17	1.73	0.75	0.220	1.70	44.35	25.57	4.94	49.29	0.50
5.50	20.33	1.73	0.75	0.222	1.70	44.72	24.33	4.64	49.36	0.50
5.55	20.50	1.73	0.75	0.225	1.70	45.09	23.10	4.34	49.43	0.50
5.60	20.67	1.73	0.75	0.227	1.70	45.45	21.87	4.05	49.50	0.50
5.65	20.83	1.73	0.75	0.230	1.70	45.82	20.63	3.75	49.57	0.50
5.70	21.00	1.73	0.75	0.232	1.70	46.19	19.40	3.46	49.64	0.50
5.75	21.17	1.73	0.75	0.235	1.70	46.55	18.17	3.16	49.71	0.50
5.80	21.33	1.73	0.75	0.237	1.70	46.92	16.93	2.86	49.78	0.50
5.85	21.50	1.73	0.75	0.240	1.70	47.29	15.70	2.57	49.85	0.50
5.90	21.67	1.73	0.75	0.242	1.70	47.65	14.47	2.27	49.93	0.50
5.95	21.83	1.73	0.75	0.245	1.70	48.02	13.23	1.98	50.00	0.50
6.00	22.00	1.73	0.75	0.247	1.70	48.39	12.00	1.68	50.07	0.50
6.05	21.93	1.73	0.75	0.250	1.70	48.24	12.17	1.72	49.96	0.50
6.10	21.87	1.73	0.75	0.253	1.70	48.09	12.33	1.76	49.85	0.50
6.15	21.80	1.73	0.75	0.255	1.70	47.95	12.50	1.80	49.75	0.50
6.20	21.73	1.73	0.75	0.258	1.70	47.80	12.67	1.84	49.64	0.50
6.25	21.67	1.73	0.75	0.260	1.70	47.65	12.83	1.88	49.53	0.50
6.30	21.60	1.73	0.75	0.263	1.70	47.51	13.00	1.92	49.43	0.50
6.35	21.53	1.73	0.75	0.266	1.70	47.36	13.17	1.96	49.32	0.50
6.40	21.47	1.73	0.75	0.268	1.70	47.21	13.33	2.00	49.21	0.50
6.45	21.40	1.73	0.75	0.271	1.70	47.07	13.50	2.04	49.11	0.50
6.50	21.33	1.73	0.75	0.274	1.70	46.92	13.67	2.08	49.00	0.50
6.55	21.27	1.73	0.75	0.276	1.70	46.77	13.83	2.12	48.89	0.50
6.60	21.20	1.73	0.75	0.279	1.70	46.63	14.00	2.16	48.79	0.50
6.65	21.13	1.73	0.75	0.281	1.70	46.48	14.17	2.20	48.68	0.50
6.70	21.07	1.73	0.75	0.284	1.70	46.33	14.33	2.24	48.57	0.50
6.75	21.00	1.73	0.75	0.287	1.70	46.19	14.50	2.28	48.47	0.50
6.80	20.93	1.73	0.75	0.289	1.70	46.04	14.67	2.32	48.36	0.50
6.85	20.87	1.73	0.75	0.292	1.70	45.89	14.83	2.36	48.25	0.50
6.90	20.80	1.73	0.75	0.294	1.70	45.75	15.00	2.40	48.15	0.50
6.95	20.73	1.73	0.75	0.297	1.70	45.60	15.17	2.44	48.04	0.50
7.00	20.67	1.73	0.75	0.300	1.70	45.45	15.33	2.48	47.93	0.50

7.05	20.60	1.73	0.75	0.302	1.70	45.31	15.50	2.52	47.83	0.50
7.10	20.53	1.73	0.75	0.305	1.70	45.16	15.67	2.56	47.72	0.50
7.15	20.47	1.73	0.75	0.307	1.70	45.01	15.83	2.60	47.61	0.50
7.20	20.40	1.73	0.75	0.310	1.70	44.87	16.00	2.64	47.51	0.50
7.25	20.33	1.73	0.75	0.313	1.70	44.72	16.17	2.68	47.40	0.50
7.30	20.27	1.73	0.75	0.315	1.70	44.57	16.33	2.72	47.29	0.50
7.35	20.20	1.73	0.75	0.318	1.70	44.43	16.50	2.76	47.19	0.50
7.40	20.13	1.73	0.75	0.320	1.70	44.28	16.67	2.80	47.08	0.50
7.45	20.07	1.73	0.75	0.323	1.70	44.13	16.83	2.84	46.97	0.50
7.50	20.00	1.73	0.75	0.325	1.70	43.99	17.00	2.88	46.87	0.50
7.55	20.00	1.73	0.75	0.328	1.70	43.99	17.63	3.03	47.02	0.50
7.60	20.00	1.73	0.75	0.331	1.70	43.99	18.27	3.18	47.17	0.50
7.65	20.00	1.73	0.75	0.333	1.70	43.99	18.90	3.34	47.32	0.50
7.70	20.00	1.73	0.75	0.336	1.70	43.99	19.53	3.49	47.48	0.50
7.75	20.00	1.73	0.75	0.338	1.70	43.99	20.17	3.64	47.63	0.50
7.80	20.00	1.73	0.75	0.341	1.70	43.99	20.80	3.79	47.78	0.50
7.85	20.00	1.73	0.75	0.343	1.70	43.99	21.43	3.94	47.93	0.50
7.90	20.00	1.73	0.75	0.346	1.70	43.99	22.07	4.10	48.08	0.50
7.95	20.00	1.73	0.75	0.348	1.69	43.84	22.70	4.25	48.08	0.50
8.00	20.00	1.73	0.75	0.351	1.69	43.68	23.33	4.40	48.08	0.50
8.05	20.00	1.73	0.75	0.353	1.68	43.53	23.97	4.55	48.08	0.50
8.10	20.00	1.73	0.75	0.356	1.68	43.37	24.60	4.70	48.08	0.50
8.15	20.00	1.73	0.75	0.358	1.67	43.23	25.23	4.86	48.08	0.50
8.20	20.00	1.73	0.75	0.361	1.66	43.08	25.87	5.01	48.09	0.50
8.25	20.00	1.73	0.85	0.363	1.66	48.66	26.50	5.16	53.82	0.50
8.30	20.00	1.73	0.85	0.366	1.65	48.50	27.13	5.31	53.81	0.50
8.35	20.00	1.73	0.85	0.368	1.65	48.34	27.77	5.46	53.80	0.50
8.40	20.00	1.73	0.85	0.370	1.64	48.18	28.40	5.62	53.80	0.50
8.45	20.00	1.73	0.85	0.373	1.64	48.02	29.03	5.77	53.79	0.50
8.50	20.00	1.73	0.85	0.375	1.63	47.87	29.67	5.92	53.79	0.50
8.55	20.00	1.73	0.85	0.378	1.63	47.72	30.30	6.07	53.79	0.50
8.60	20.00	1.73	0.85	0.380	1.62	47.57	30.93	6.22	53.80	0.50
8.65	20.00	1.73	0.85	0.382	1.62	47.43	31.57	6.38	53.80	0.50
8.70	20.00	1.73	0.85	0.385	1.61	47.28	32.20	6.53	53.81	0.50
8.75	20.00	1.73	0.85	0.387	1.61	47.14	32.83	6.68	53.82	0.50
8.80	20.00	1.73	0.85	0.389	1.60	47.00	33.47	6.83	53.83	0.50
8.85	20.00	1.73	0.85	0.392	1.60	46.86	34.10	6.98	53.85	0.50
8.90	20.00	1.73	0.85	0.394	1.59	46.72	34.73	7.14	53.86	0.50
8.95	20.00	1.73	0.85	0.396	1.59	46.59	35.37	7.20	53.79	0.50
9.00	20.00	1.73	0.85	0.398	1.58	46.46	36.00	7.20	53.66	0.50
9.05	20.00	1.73	0.85	0.401	1.58	46.33	36.00	7.20	53.53	0.50
9.10	20.00	1.73	0.85	0.403	1.58	46.19	36.00	7.20	53.39	0.50
9.15	20.00	1.73	0.85	0.405	1.57	46.06	36.00	7.20	53.26	0.50
9.20	20.00	1.73	0.85	0.408	1.57	45.93	36.00	7.20	53.13	0.50
9.25	20.00	1.73	0.85	0.410	1.56	45.81	36.00	7.20	53.01	0.50
9.30	20.00	1.73	0.85	0.412	1.56	45.68	36.00	7.20	52.88	0.50
9.35	20.00	1.73	0.85	0.414	1.55	45.55	36.00	7.20	52.75	0.50
9.40	20.00	1.73	0.85	0.417	1.55	45.42	36.00	7.20	52.62	0.50
9.45	20.00	1.73	0.85	0.419	1.54	45.29	36.00	7.20	52.49	0.50
9.50	20.00	1.73	0.85	0.422	1.54	45.17	36.00	7.20	52.37	0.50
9.55	20.00	1.73	0.85	0.424	1.54	45.04	36.00	7.20	52.24	0.50
9.60	20.00	1.73	0.85	0.426	1.53	44.92	36.00	7.20	52.12	0.50
9.65	20.00	1.73	0.85	0.429	1.53	44.79	36.00	7.20	51.99	0.50
9.70	20.00	1.73	0.85	0.431	1.52	44.67	36.00	7.20	51.87	0.50
9.75	20.00	1.73	0.85	0.433	1.52	44.54	36.00	7.20	51.74	0.50
9.80	20.00	1.73	0.85	0.436	1.51	44.42	36.00	7.20	51.62	0.50
9.85	20.00	1.73	0.85	0.438	1.51	44.30	36.00	7.20	51.50	0.50
9.90	20.00	1.73	0.85	0.441	1.51	44.17	36.00	7.20	51.37	0.50
9.95	20.00	1.73	0.85	0.443	1.50	44.05	36.00	7.20	51.25	0.50
10.00	20.00	1.73	0.85	0.446	1.50	43.93	36.00	7.20	51.13	0.50
10.05	20.00	1.73	0.85	0.448	1.49	43.81	36.00	7.20	51.01	0.50
10.10	20.00	1.73	0.85	0.451	1.49	43.69	36.00	7.20	50.89	0.50
10.15	20.00	1.73	0.85	0.453	1.49	43.57	36.00	7.20	50.77	0.50
10.20	20.00	1.73	0.85	0.456	1.48	43.45	36.00	7.20	50.65	0.50
10.25	20.00	1.73	0.85	0.458	1.48	43.33	36.00	7.20	50.53	0.50
10.30	20.00	1.73	0.85	0.461	1.47	43.21	36.00	7.20	50.41	0.50
10.35	20.00	1.73	0.85	0.463	1.47	43.09	36.00	7.20	50.29	0.50
10.40	20.00	1.73	0.85	0.466	1.47	42.98	36.00	7.20	50.18	0.50
10.45	20.00	1.73	0.85	0.468	1.46	42.86	36.00	7.20	50.06	0.50

10.50	20.00	1.73	0.85	0.471	1.46	42.74	36.00	7.20	49.94	0.50
10.55	20.40	1.73	0.85	0.473	1.45	43.48	34.93	7.18	50.67	0.50
10.60	20.80	1.73	0.85	0.476	1.45	44.21	33.87	6.93	51.14	0.50
10.65	21.20	1.73	0.85	0.478	1.45	44.94	32.80	6.67	51.62	0.50
10.70	21.60	1.73	0.85	0.481	1.44	45.67	31.73	6.42	52.08	0.50
10.75	22.00	1.73	0.85	0.484	1.44	46.39	30.67	6.16	52.55	0.50
10.80	22.40	1.73	0.85	0.486	1.43	47.11	29.60	5.90	53.01	0.50
10.85	22.80	1.73	0.85	0.489	1.43	47.82	28.53	5.65	53.47	0.50
10.90	23.20	1.73	0.85	0.491	1.43	48.53	27.47	5.39	53.93	0.50
10.95	23.60	1.73	0.85	0.494	1.42	49.24	26.40	5.14	54.38	0.50
11.00	24.00	1.73	0.85	0.496	1.42	49.95	25.33	4.88	54.83	0.50
11.05	24.40	1.73	0.85	0.499	1.42	50.65	24.27	4.62	55.27	0.50
11.10	24.80	1.73	0.85	0.502	1.41	51.34	23.20	4.37	55.71	0.50
11.15	25.20	1.73	0.85	0.504	1.41	52.04	22.13	4.11	56.15	0.50
11.20	25.60	1.73	0.85	0.507	1.40	52.73	21.07	3.86	56.58	0.50
11.25	26.00	1.73	0.85	0.509	1.40	53.42	20.00	3.60	57.02	0.50
11.30	26.40	1.73	0.85	0.512	1.40	54.10	18.93	3.34	57.44	0.50
11.35	26.80	1.73	0.85	0.515	1.39	54.78	17.87	3.09	57.87	0.50
11.40	27.20	1.73	0.85	0.517	1.39	55.46	16.80	2.83	58.29	0.50
11.45	27.60	1.73	0.85	0.520	1.39	56.13	15.73	2.58	58.71	0.50
11.50	28.00	1.73	0.85	0.522	1.38	56.80	14.67	2.32	59.12	0.50
11.55	28.40	1.73	0.85	0.525	1.38	57.47	13.60	2.06	59.53	0.50
11.60	28.80	1.73	0.85	0.528	1.38	58.14	12.53	1.81	59.94	0.50
11.65	29.20	1.73	0.85	0.530	1.37	58.80	11.47	1.55	60.35	0.50
11.70	29.60	1.73	0.85	0.533	1.37	59.46	10.40	1.30	60.75	0.50
11.75	30.00	1.73	0.85	0.535	1.37	60.11	9.33	1.04	61.15	0.50
11.80	30.40	1.73	0.85	0.538	1.36	60.77	8.27	0.78	61.55	0.50
11.85	30.80	1.73	0.85	0.541	1.36	61.42	7.20	0.53	61.94	0.50
11.90	31.20	1.73	0.85	0.543	1.36	62.06	6.13	0.27	62.33	0.50
11.95	31.60	1.73	0.85	0.546	1.35	62.71	5.07	0.02	62.72	0.50
12.00	32.00	1.73	0.85	0.549	1.35	63.35	4.00	0.00	63.35	0.50
12.05	32.10	1.73	0.85	0.551	1.35	63.39	4.00	0.00	63.39	0.50
12.10	32.20	1.73	0.85	0.554	1.34	63.44	4.00	0.00	63.44	0.50
12.15	32.30	1.73	0.85	0.557	1.34	63.49	4.00	0.00	63.49	0.50
12.20	32.40	1.73	0.85	0.559	1.34	63.53	4.00	0.00	63.53	0.50
12.25	32.50	1.73	0.85	0.562	1.33	63.58	4.00	0.00	63.58	0.50
12.30	32.60	1.73	0.85	0.564	1.33	63.62	4.00	0.00	63.62	0.50
12.35	32.70	1.73	0.85	0.567	1.33	63.67	4.00	0.00	63.67	0.50
12.40	32.80	1.73	0.85	0.570	1.32	63.72	4.00	0.00	63.72	0.50
12.45	32.90	1.73	0.85	0.572	1.32	63.76	4.00	0.00	63.76	0.50
12.50	33.00	1.73	0.85	0.575	1.32	63.81	4.00	0.00	63.81	0.50
12.55	33.10	1.73	0.85	0.578	1.32	63.86	4.00	0.00	63.86	0.50
12.60	33.20	1.73	0.85	0.580	1.31	63.91	4.00	0.00	63.91	0.50
12.65	33.30	1.73	0.85	0.583	1.31	63.95	4.00	0.00	63.95	0.50
12.70	33.40	1.73	0.85	0.586	1.31	64.00	4.00	0.00	64.00	0.50
12.75	33.50	1.73	0.85	0.588	1.30	64.05	4.00	0.00	64.05	0.50
12.80	33.60	1.73	0.85	0.591	1.30	64.09	4.00	0.00	64.09	0.50
12.85	33.70	1.73	0.85	0.593	1.30	64.14	4.00	0.00	64.14	0.50
12.90	33.80	1.73	0.85	0.596	1.30	64.19	4.00	0.00	64.19	0.50
12.95	33.90	1.73	0.85	0.599	1.29	64.24	4.00	0.00	64.24	0.50
13.00	34.00	1.73	0.85	0.601	1.29	64.28	4.00	0.00	64.28	0.50
13.05	34.10	1.73	0.85	0.604	1.29	64.33	4.00	0.00	64.33	0.50
13.10	34.20	1.73	0.85	0.607	1.28	64.38	4.00	0.00	64.38	0.50
13.15	34.30	1.73	0.85	0.609	1.28	64.43	4.00	0.00	64.43	0.50
13.20	34.40	1.73	0.85	0.612	1.28	64.48	4.00	0.00	64.48	0.50
13.25	34.50	1.73	0.85	0.615	1.28	64.52	4.00	0.00	64.52	0.50
13.30	34.60	1.73	0.85	0.617	1.27	64.57	4.00	0.00	64.57	0.50
13.35	34.70	1.73	0.85	0.620	1.27	64.62	4.00	0.00	64.62	0.50
13.40	34.80	1.73	0.85	0.623	1.27	64.67	4.00	0.00	64.67	0.50
13.45	34.90	1.73	0.85	0.625	1.26	64.72	4.00	0.00	64.72	0.50
13.50	35.00	1.73	0.85	0.628	1.26	64.76	4.00	0.00	64.76	0.50
13.55	34.47	1.73	0.85	0.631	1.26	63.64	5.10	0.02	63.67	0.50
13.60	33.93	1.73	0.85	0.633	1.26	62.53	6.20	0.29	62.82	0.50
13.65	33.40	1.73	0.85	0.636	1.25	61.42	7.30	0.55	61.97	0.50
13.70	32.87	1.73	0.85	0.638	1.25	60.31	8.40	0.82	61.13	0.50
13.75	32.33	1.73	0.85	0.641	1.25	59.21	9.50	1.08	60.29	0.50
13.80	31.80	1.73	0.85	0.644	1.25	58.12	10.60	1.34	59.46	0.50
13.85	31.27	1.73	0.85	0.646	1.24	57.03	11.70	1.61	58.64	0.50
13.90	30.73	1.73	0.85	0.649	1.24	55.95	12.80	1.87	57.82	0.50

13.95	30.20	1.73	0.85	0.651	1.24	54.87	13.90	2.14	57.00	0.50
14.00	29.67	1.73	0.85	0.654	1.24	53.79	15.00	2.40	56.19	0.50
14.05	29.13	1.73	0.85	0.656	1.23	52.73	16.10	2.66	55.39	0.50
14.10	28.60	1.73	0.85	0.659	1.23	51.66	17.20	2.93	54.59	0.50
14.15	28.07	1.73	0.85	0.661	1.23	50.60	18.30	3.19	53.79	0.50
14.20	27.53	1.73	0.85	0.664	1.23	49.55	19.40	3.46	53.00	0.50
14.25	27.00	1.73	0.85	0.666	1.23	48.50	20.50	3.72	52.22	0.50
14.30	26.47	1.73	0.85	0.669	1.22	47.45	21.60	3.98	51.44	0.50
14.35	25.93	1.73	0.85	0.671	1.22	46.41	22.70	4.25	50.66	0.50
14.40	25.40	1.73	0.85	0.674	1.22	45.37	23.80	4.51	49.89	0.50
14.45	24.87	1.73	0.85	0.676	1.22	44.34	24.90	4.78	49.12	0.50
14.50	24.33	1.73	0.85	0.679	1.21	43.31	26.00	5.04	48.35	0.50
14.55	23.80	1.73	0.85	0.681	1.21	42.29	27.10	5.30	47.59	0.50
14.60	23.27	1.73	0.85	0.683	1.21	41.27	28.20	5.57	46.84	0.50
14.65	22.73	1.73	0.85	0.686	1.21	40.25	29.30	5.83	46.09	0.50
14.70	22.20	1.73	0.85	0.688	1.21	39.24	30.40	6.10	45.34	0.50
14.75	21.67	1.73	0.85	0.690	1.20	38.23	31.50	6.36	44.59	0.50
14.80	21.13	1.73	0.95	0.693	1.20	41.61	32.60	6.62	48.23	0.50
14.85	20.60	1.73	0.95	0.695	1.20	40.49	33.70	6.89	47.38	0.50
14.90	20.07	1.73	0.95	0.697	1.20	39.38	34.80	7.15	46.53	0.50
14.95	19.53	1.73	0.95	0.700	1.20	38.27	35.90	7.20	45.47	0.50
15.00	19.00	1.73	0.95	0.702	1.19	37.16	37.00	7.20	44.36	0.50
15.05	18.83	1.73	0.95	0.704	1.19	36.78	37.00	7.20	43.98	0.50
15.10	18.67	1.73	0.95	0.706	1.19	36.39	37.00	7.20	43.59	0.50
15.15	18.50	1.73	0.95	0.709	1.19	36.01	37.00	7.20	43.21	0.50
15.20	18.33	1.73	0.95	0.711	1.19	35.63	37.00	7.20	42.83	0.50
15.25	18.17	1.73	0.95	0.713	1.18	35.25	37.00	7.20	42.45	0.50
15.30	18.00	1.73	0.95	0.716	1.18	34.87	37.00	7.20	42.07	0.50
15.35	17.83	1.73	0.95	0.718	1.18	34.49	37.00	7.20	41.69	0.50
15.40	17.67	1.73	0.95	0.720	1.18	34.11	37.00	7.20	41.31	0.50
15.45	17.50	1.73	0.95	0.723	1.18	33.74	37.00	7.20	40.94	0.50
15.50	17.33	1.73	0.95	0.725	1.17	33.36	37.00	7.20	40.56	0.50
15.55	17.17	1.73	0.95	0.727	1.17	32.99	37.00	7.20	40.19	0.50
15.60	17.00	1.73	0.95	0.730	1.17	32.62	37.00	7.20	39.82	0.50
15.65	16.83	1.73	0.95	0.732	1.17	32.25	37.00	7.20	39.45	0.50
15.70	16.67	1.73	0.95	0.734	1.17	31.88	37.00	7.20	39.08	0.50
15.75	16.50	1.73	0.95	0.737	1.17	31.51	37.00	7.20	38.71	0.50
15.80	16.33	1.73	0.95	0.739	1.16	31.14	37.00	7.20	38.34	0.50
15.85	16.17	1.73	0.95	0.741	1.16	30.77	37.00	7.20	37.97	0.50
15.90	16.00	1.73	0.95	0.744	1.16	30.41	37.00	7.20	37.61	0.50
15.95	15.83	1.73	0.95	0.746	1.16	30.04	37.00	7.20	37.24	0.50
16.00	15.67	1.73	0.95	0.748	1.16	29.68	37.00	7.20	36.88	0.50
16.05	15.50	1.73	0.95	0.751	1.15	29.32	37.00	7.20	36.52	0.50
16.10	15.33	1.73	0.95	0.753	1.15	28.96	37.00	7.20	36.16	0.50
16.15	15.17	1.73	0.95	0.755	1.15	28.60	37.00	7.20	35.80	0.50
16.20	15.00	1.73	0.95	0.758	1.15	28.24	37.00	7.20	35.44	0.50
16.25	14.83	1.73	0.95	0.760	1.15	27.88	37.00	7.20	35.08	0.50
16.30	14.67	1.73	0.95	0.763	1.15	27.52	37.00	7.20	34.72	0.50
16.35	14.50	1.73	0.95	0.765	1.14	27.17	37.00	7.20	34.37	0.50
16.40	14.33	1.73	0.95	0.767	1.14	26.81	37.00	7.20	34.01	0.50
16.45	14.17	1.73	0.95	0.770	1.14	26.46	37.00	7.20	33.66	0.50
16.50	14.00	1.73	0.95	0.772	1.14	26.11	37.00	7.20	33.31	0.50
16.55	14.00	1.73	0.95	0.775	1.14	26.07	39.13	7.20	33.27	0.50
16.60	14.00	1.73	0.95	0.777	1.13	26.03	41.27	7.20	33.23	0.50
16.65	14.00	1.73	0.95	0.779	1.13	25.99	43.40	7.20	33.19	0.50
16.70	14.00	1.73	0.95	0.782	1.13	25.95	45.53	7.20	33.15	0.50
16.75	14.00	1.73	0.95	0.784	1.13	25.91	47.67	7.20	33.11	0.50
16.80	14.00	1.73	0.95	0.786	1.13	25.87	49.80	7.20	33.07	0.50
16.85	14.00	1.73	0.95	0.789	1.13	25.83	51.93	7.20	33.03	0.50
16.90	14.00	1.73	0.95	0.791	1.12	25.79	54.07	7.20	32.99	0.50
16.95	14.00	1.73	0.95	0.793	1.12	25.76	56.20	7.20	32.96	0.50
17.00	14.00	1.73	0.95	0.796	1.12	25.72	58.33	7.20	32.92	0.50
17.05	14.00	1.73	0.95	0.798	1.12	25.68	60.47	7.20	32.88	0.50
17.10	14.00	1.73	0.95	0.800	1.12	25.65	62.60	7.20	32.85	0.50
17.15	14.00	1.73	0.95	0.803	1.12	25.61	64.73	7.20	32.81	0.50
17.20	14.00	1.73	0.95	0.805	1.11	25.57	66.87	7.20	32.77	0.50
17.25	14.00	1.73	0.95	0.807	1.11	25.54	69.00	7.20	32.74	0.50
17.30	14.00	1.73	0.95	0.809	1.11	25.50	71.13	7.20	32.70	0.50
17.35	14.00	1.73	0.95	0.811	1.11	25.47	73.27	7.20	32.67	0.50

17.40	14.00	1.73	0.95	0.814	1.11	25.43	75.40	7.20	32.63	0.50
17.45	14.00	1.73	0.95	0.816	1.11	25.40	77.53	7.20	32.60	0.50
17.50	14.00	1.73	0.95	0.818	1.11	25.37	79.67	7.20	32.57	0.50
17.55	14.00	1.73	0.95	0.820	1.10	25.33	81.80	7.20	32.53	0.50
17.60	14.00	1.73	0.95	0.822	1.10	25.30	83.93	7.20	32.50	0.50
17.65	14.00	1.73	0.95	0.824	1.10	25.27	86.07	7.20	32.47	0.50
17.70	14.00	1.73	0.95	0.827	1.10	25.23	88.20	7.20	32.43	0.50
17.75	14.00	1.73	0.95	0.829	1.10	25.20	90.33	7.20	32.40	0.50
17.80	14.00	1.73	0.95	0.831	1.10	25.17	92.47	7.20	32.37	0.50
17.85	14.00	1.73	0.95	0.833	1.10	25.14	94.60	7.20	32.34	0.50
17.90	14.00	1.73	0.95	0.835	1.09	25.11	96.73	7.20	32.31	0.50
17.95	14.00	1.73	0.95	0.837	1.09	25.08	98.87	7.20	32.28	0.50
18.00	14.00	1.73	0.95	0.839	1.09	25.05	NoLiq	7.20	32.25	0.50
18.05	14.13	1.73	0.95	0.841	1.09	25.25	NoLiq	7.20	32.45	0.50
18.10	14.27	1.73	0.95	0.843	1.09	25.46	NoLiq	7.20	32.66	0.50
18.15	14.40	1.73	0.95	0.845	1.09	25.67	NoLiq	7.20	32.87	0.50
18.20	14.53	1.73	0.95	0.847	1.09	25.87	NoLiq	7.20	33.07	0.50
18.25	14.67	1.73	0.95	0.849	1.09	26.08	NoLiq	7.20	33.28	0.50
18.30	14.80	1.73	0.95	0.851	1.08	26.29	NoLiq	7.20	33.49	0.50
18.35	14.93	1.73	0.95	0.853	1.08	26.49	NoLiq	7.20	33.69	0.50
18.40	15.07	1.73	0.95	0.855	1.08	26.70	NoLiq	7.20	33.90	0.50
18.45	15.20	1.73	0.95	0.857	1.08	26.90	NoLiq	7.20	34.10	0.50
18.50	15.33	1.73	0.95	0.859	1.08	27.11	NoLiq	7.20	34.31	0.50
18.55	15.47	1.73	0.95	0.861	1.08	27.31	NoLiq	7.20	34.51	0.50
18.60	15.60	1.73	0.95	0.863	1.08	27.51	NoLiq	7.20	34.71	0.50
18.65	15.73	1.73	0.95	0.865	1.07	27.72	NoLiq	7.20	34.92	0.50
18.70	15.87	1.73	0.95	0.867	1.07	27.92	NoLiq	7.20	35.12	0.50
18.75	16.00	1.73	0.95	0.869	1.07	28.12	NoLiq	7.20	35.32	0.50
18.80	16.13	1.73	0.95	0.871	1.07	28.32	NoLiq	7.20	35.52	0.50
18.85	16.27	1.73	0.95	0.873	1.07	28.52	NoLiq	7.20	35.72	0.50
18.90	16.40	1.73	0.95	0.875	1.07	28.73	NoLiq	7.20	35.93	0.50
18.95	16.53	1.73	0.95	0.877	1.07	28.93	NoLiq	7.20	36.13	0.50
19.00	16.67	1.73	0.95	0.879	1.07	29.13	NoLiq	7.20	36.33	0.50
19.05	16.80	1.73	0.95	0.881	1.07	29.33	NoLiq	7.20	36.53	0.50
19.10	16.93	1.73	0.95	0.883	1.06	29.53	NoLiq	7.20	36.73	0.50
19.15	17.07	1.73	0.95	0.885	1.06	29.73	NoLiq	7.20	36.93	0.50
19.20	17.20	1.73	0.95	0.887	1.06	29.92	NoLiq	7.20	37.12	0.50
19.25	17.33	1.73	0.95	0.889	1.06	30.12	NoLiq	7.20	37.32	0.50
19.30	17.47	1.73	0.95	0.891	1.06	30.32	NoLiq	7.20	37.52	0.50
19.35	17.60	1.73	0.95	0.893	1.06	30.52	NoLiq	7.20	37.72	0.50
19.40	17.73	1.73	0.95	0.895	1.06	30.72	NoLiq	7.20	37.92	0.50
19.45	17.87	1.73	0.95	0.897	1.06	30.92	NoLiq	7.20	38.12	0.50
19.50	18.00	1.73	0.95	0.899	1.05	31.11	NoLiq	7.20	38.31	0.50
19.55	18.07	1.73	0.95	0.901	1.05	31.19	NoLiq	7.20	38.39	0.50
19.60	18.13	1.73	0.95	0.903	1.05	31.28	NoLiq	7.20	38.48	0.50
19.65	18.20	1.73	0.95	0.905	1.05	31.36	NoLiq	7.20	38.56	0.50
19.70	18.27	1.73	0.95	0.907	1.05	31.44	NoLiq	7.20	38.64	0.50
19.75	18.33	1.73	0.95	0.909	1.05	31.52	NoLiq	7.20	38.72	0.50
19.80	18.40	1.73	0.95	0.911	1.05	31.60	NoLiq	7.20	38.80	0.50
19.85	18.47	1.73	0.95	0.912	1.05	31.68	NoLiq	7.20	38.88	0.50
19.90	18.53	1.73	0.95	0.914	1.05	31.76	NoLiq	7.20	38.96	0.50
19.95	18.60	1.73	0.95	0.916	1.04	31.84	NoLiq	7.20	39.04	0.50
20.00	18.67	1.73	0.95	0.918	1.04	31.92	NoLiq	7.20	39.12	0.50
20.05	18.73	1.73	0.95	0.920	1.04	32.00	NoLiq	7.20	39.20	0.50
20.10	18.80	1.73	0.95	0.922	1.04	32.08	NoLiq	7.20	39.28	0.50
20.15	18.87	1.73	0.95	0.924	1.04	32.16	NoLiq	7.20	39.36	0.50
20.20	18.93	1.73	0.95	0.926	1.04	32.24	NoLiq	7.20	39.44	0.50
20.25	19.00	1.73	0.95	0.928	1.04	32.32	NoLiq	7.20	39.52	0.50
20.30	19.07	1.73	0.95	0.930	1.04	32.40	NoLiq	7.20	39.60	0.50
20.35	19.13	1.73	0.95	0.932	1.04	32.48	NoLiq	7.20	39.68	0.50
20.40	19.20	1.73	0.95	0.934	1.03	32.56	NoLiq	7.20	39.76	0.50
20.45	19.27	1.73	0.95	0.936	1.03	32.64	NoLiq	7.20	39.84	0.50
20.50	19.33	1.73	0.95	0.938	1.03	32.72	NoLiq	7.20	39.92	0.50
20.55	19.40	1.73	0.95	0.940	1.03	32.80	NoLiq	7.20	40.00	0.50
20.60	19.47	1.73	0.95	0.942	1.03	32.88	NoLiq	7.20	40.08	0.50
20.65	19.53	1.73	0.95	0.943	1.03	32.96	NoLiq	7.20	40.16	0.50
20.70	19.60	1.73	0.95	0.945	1.03	33.03	NoLiq	7.20	40.23	0.50
20.75	19.67	1.73	0.95	0.947	1.03	33.11	NoLiq	7.20	40.31	0.50
20.80	19.73	1.73	0.95	0.949	1.03	33.19	NoLiq	7.20	40.39	0.50

20.85	19.80	1.73	0.95	0.951	1.03	33.27	NoLiq	7.20	40.47	0.50
20.90	19.87	1.73	0.95	0.953	1.02	33.35	NoLiq	7.20	40.55	0.50
20.95	19.93	1.73	0.95	0.955	1.02	33.42	NoLiq	7.20	40.62	0.50
21.00	20.00	1.73	0.95	0.957	1.02	33.50	NoLiq	7.20	40.70	0.50
21.05	19.97	1.73	0.95	0.959	1.02	33.41	NoLiq	7.20	40.61	0.50
21.10	19.93	1.73	0.95	0.961	1.02	33.32	NoLiq	7.20	40.52	0.50
21.15	19.90	1.73	0.95	0.963	1.02	33.23	NoLiq	7.20	40.43	0.50
21.20	19.87	1.73	0.95	0.965	1.02	33.15	NoLiq	7.20	40.35	0.50
21.25	19.83	1.73	0.95	0.967	1.02	33.06	NoLiq	7.20	40.26	0.50
21.30	19.80	1.73	0.95	0.969	1.02	32.97	NoLiq	7.20	40.17	0.50
21.35	19.77	1.73	0.95	0.971	1.02	32.88	NoLiq	7.20	40.08	0.50
21.40	19.73	1.73	0.95	0.973	1.01	32.79	NoLiq	7.20	39.99	0.50
21.45	19.70	1.73	0.95	0.974	1.01	32.70	NoLiq	7.20	39.90	0.50
21.50	19.67	1.73	0.95	0.976	1.01	32.62	NoLiq	7.20	39.82	0.50
21.55	19.63	1.73	0.95	0.978	1.01	32.53	NoLiq	7.20	39.73	0.50
21.60	19.60	1.73	0.95	0.980	1.01	32.44	NoLiq	7.20	39.64	0.50
21.65	19.57	1.73	0.95	0.982	1.01	32.35	NoLiq	7.20	39.55	0.50
21.70	19.53	1.73	0.95	0.984	1.01	32.27	NoLiq	7.20	39.47	0.50
21.75	19.50	1.73	0.95	0.986	1.01	32.18	NoLiq	7.20	39.38	0.50
21.80	19.47	1.73	0.95	0.988	1.01	32.09	NoLiq	7.20	39.29	0.50
21.85	19.43	1.73	0.95	0.990	1.00	32.01	NoLiq	7.20	39.21	0.50
21.90	19.40	1.73	0.95	0.992	1.00	31.92	NoLiq	7.20	39.12	0.50
21.95	19.37	1.73	0.95	0.994	1.00	31.83	NoLiq	7.20	39.03	0.50
22.00	19.33	1.73	0.95	0.996	1.00	31.75	NoLiq	7.20	38.95	0.50
22.05	19.30	1.73	0.95	0.998	1.00	31.66	NoLiq	7.20	38.86	0.50
22.10	19.27	1.73	0.95	1.000	1.00	31.58	NoLiq	7.20	38.78	0.50
22.15	19.23	1.73	0.95	1.002	1.00	31.49	NoLiq	7.20	38.69	0.50
22.20	19.20	1.73	0.95	1.004	1.00	31.40	NoLiq	7.20	38.60	0.50
22.25	19.17	1.73	0.95	1.006	1.00	31.32	NoLiq	7.20	38.52	0.50
22.30	19.13	1.73	0.95	1.008	1.00	31.23	NoLiq	7.20	38.43	0.50
22.35	19.10	1.73	0.95	1.010	1.00	31.15	NoLiq	7.20	38.35	0.50
22.40	19.07	1.73	0.95	1.012	0.99	31.07	NoLiq	7.20	38.27	0.50
22.45	19.03	1.73	0.95	1.014	0.99	30.98	NoLiq	7.20	38.18	0.50
22.50	19.00	1.73	0.95	1.016	0.99	30.90	NoLiq	7.20	38.10	0.50
22.55	19.03	1.73	0.95	1.018	0.99	30.92	NoLiq	7.20	38.12	0.50
22.60	19.07	1.73	0.95	1.020	0.99	30.94	NoLiq	7.20	38.14	0.50
22.65	19.10	1.73	0.95	1.022	0.99	30.97	NoLiq	7.20	38.17	0.50
22.70	19.13	1.73	0.95	1.023	0.99	30.99	NoLiq	7.20	38.19	0.50
22.75	19.17	1.73	0.95	1.025	0.99	31.02	NoLiq	7.20	38.22	0.50
22.80	19.20	1.73	0.95	1.027	0.99	31.04	NoLiq	7.20	38.24	0.50
22.85	19.23	1.73	0.95	1.029	0.99	31.06	NoLiq	7.20	38.26	0.50
22.90	19.27	1.73	0.95	1.031	0.98	31.09	NoLiq	7.20	38.29	0.50
22.95	19.30	1.73	0.95	1.033	0.98	31.11	NoLiq	7.20	38.31	0.50
23.00	19.33	1.73	0.95	1.035	0.98	31.14	NoLiq	7.20	38.34	0.50
23.05	19.37	1.73	0.95	1.037	0.98	31.16	NoLiq	7.20	38.36	0.50
23.10	19.40	1.73	0.95	1.039	0.98	31.18	NoLiq	7.20	38.38	0.50
23.15	19.43	1.73	0.95	1.041	0.98	31.21	NoLiq	7.20	38.41	0.50
23.20	19.47	1.73	0.95	1.043	0.98	31.23	NoLiq	7.20	38.43	0.50
23.25	19.50	1.73	0.95	1.045	0.98	31.26	NoLiq	7.20	38.46	0.50
23.30	19.53	1.73	0.95	1.047	0.98	31.28	NoLiq	7.20	38.48	0.50
23.35	19.57	1.73	0.95	1.049	0.98	31.30	NoLiq	7.20	38.50	0.50
23.40	19.60	1.73	0.95	1.051	0.98	31.33	NoLiq	7.20	38.53	0.50
23.45	19.63	1.73	0.95	1.053	0.97	31.35	NoLiq	7.20	38.55	0.50
23.50	19.67	1.73	0.95	1.055	0.97	31.37	NoLiq	7.20	38.57	0.50
23.55	19.70	1.73	0.95	1.057	0.97	31.40	NoLiq	7.20	38.60	0.50
23.60	19.73	1.73	0.95	1.059	0.97	31.42	NoLiq	7.20	38.62	0.50
23.65	19.77	1.73	0.95	1.061	0.97	31.44	NoLiq	7.20	38.64	0.50
23.70	19.80	1.73	0.95	1.063	0.97	31.47	NoLiq	7.20	38.67	0.50
23.75	19.83	1.73	0.95	1.065	0.97	31.49	NoLiq	7.20	38.69	0.50
23.80	19.87	1.73	0.95	1.067	0.97	31.51	NoLiq	7.20	38.71	0.50
23.85	19.90	1.73	0.95	1.069	0.97	31.54	NoLiq	7.20	38.74	0.50
23.90	19.93	1.73	0.95	1.071	0.97	31.56	NoLiq	7.20	38.76	0.50
23.95	19.97	1.73	0.95	1.073	0.97	31.58	NoLiq	7.20	38.78	0.50
24.00	20.00	1.73	0.95	1.075	0.96	31.61	NoLiq	7.20	38.81	0.50
24.05	19.83	1.73	0.95	1.077	0.96	31.31	NoLiq	7.20	38.51	0.50
24.10	19.67	1.73	0.95	1.079	0.96	31.02	NoLiq	7.20	38.22	0.50
24.15	19.50	1.73	0.95	1.081	0.96	30.73	NoLiq	7.20	37.93	0.50
24.20	19.33	1.73	0.95	1.083	0.96	30.44	NoLiq	7.20	37.64	0.50
24.25	19.17	1.73	0.95	1.085	0.96	30.15	NoLiq	7.20	37.35	0.50

24.30	19.00	1.73	0.95	1.087	0.96	29.86	NoLiq	7.20	37.06	0.50
24.35	18.83	1.73	0.95	1.089	0.96	29.57	NoLiq	7.20	36.77	0.50
24.40	18.67	1.73	0.95	1.091	0.96	29.28	NoLiq	7.20	36.48	0.50
24.45	18.50	1.73	0.95	1.093	0.96	29.00	NoLiq	7.20	36.20	0.50
24.50	18.33	1.73	0.95	1.095	0.96	28.71	NoLiq	7.20	35.91	0.50
24.55	18.17	1.73	0.95	1.097	0.95	28.42	NoLiq	7.20	35.62	0.50
24.60	18.00	1.73	0.95	1.099	0.95	28.14	NoLiq	7.20	35.34	0.50
24.65	17.83	1.73	0.95	1.101	0.95	27.85	NoLiq	7.20	35.05	0.50
24.70	17.67	1.73	0.95	1.103	0.95	27.57	NoLiq	7.20	34.77	0.50
24.75	17.50	1.73	0.95	1.105	0.95	27.29	NoLiq	7.20	34.49	0.50
24.80	17.33	1.73	0.95	1.107	0.95	27.00	NoLiq	7.20	34.20	0.50
24.85	17.17	1.73	0.95	1.109	0.95	26.72	NoLiq	7.20	33.92	0.50
24.90	17.00	1.73	0.95	1.110	0.95	26.44	NoLiq	7.20	33.64	0.50
24.95	16.83	1.73	0.95	1.112	0.95	26.16	NoLiq	7.20	33.36	0.50
25.00	16.67	1.73	0.95	1.114	0.95	25.88	NoLiq	7.20	33.08	0.50
25.05	16.50	1.73	0.95	1.116	0.95	25.59	NoLiq	7.20	32.79	0.50
25.10	16.33	1.73	0.95	1.118	0.95	25.32	NoLiq	7.20	32.52	0.50
25.15	16.17	1.73	0.95	1.120	0.94	25.04	NoLiq	7.20	32.24	0.50
25.20	16.00	1.73	0.95	1.122	0.94	24.76	NoLiq	7.20	31.96	0.50
25.25	15.83	1.73	0.95	1.124	0.94	24.48	NoLiq	7.20	31.68	0.50
25.30	15.67	1.73	0.95	1.125	0.94	24.20	NoLiq	7.20	31.40	0.50
25.35	15.50	1.73	0.95	1.127	0.94	23.92	NoLiq	7.20	31.12	0.50
25.40	15.33	1.73	0.95	1.129	0.94	23.65	NoLiq	7.20	30.85	0.50
25.45	15.17	1.73	0.95	1.131	0.94	23.37	NoLiq	7.20	30.57	0.50
25.50	15.00	1.73	0.95	1.133	0.94	23.10	NoLiq	7.20	30.30	0.50
25.55	15.10	1.73	0.95	1.135	0.94	23.23	NoLiq	7.20	30.43	0.50
25.60	15.20	1.73	0.95	1.136	0.94	23.37	NoLiq	7.20	30.57	0.50
25.65	15.30	1.73	0.95	1.138	0.94	23.50	NoLiq	7.20	30.70	0.50
25.70	15.40	1.73	0.95	1.140	0.94	23.64	NoLiq	7.20	30.84	0.50
25.75	15.50	1.73	0.95	1.142	0.94	23.77	NoLiq	7.20	30.97	0.50
25.80	15.60	1.73	0.95	1.144	0.94	23.90	NoLiq	7.20	31.10	0.50
25.85	15.70	1.73	0.95	1.146	0.93	24.04	NoLiq	7.20	31.24	0.50
25.90	15.80	1.73	0.95	1.148	0.93	24.17	NoLiq	7.20	31.37	0.50
25.95	15.90	1.73	0.95	1.150	0.93	24.30	NoLiq	7.20	31.50	0.50
26.00	16.00	1.73	0.95	1.151	0.93	24.43	NoLiq	7.20	31.63	0.50
26.05	16.10	1.73	0.95	1.153	0.93	24.57	NoLiq	7.20	31.77	0.50
26.10	16.20	1.73	0.95	1.155	0.93	24.70	NoLiq	7.20	31.90	0.50
26.15	16.30	1.73	0.95	1.157	0.93	24.83	NoLiq	7.20	32.03	0.50
26.20	16.40	1.73	0.95	1.159	0.93	24.96	NoLiq	7.20	32.16	0.50
26.25	16.50	1.73	0.95	1.161	0.93	25.09	NoLiq	7.20	32.29	0.50
26.30	16.60	1.73	0.95	1.163	0.93	25.22	NoLiq	7.20	32.42	0.50
26.35	16.70	1.73	0.95	1.165	0.93	25.35	NoLiq	7.20	32.55	0.50
26.40	16.80	1.73	0.95	1.168	0.93	25.48	NoLiq	7.20	32.68	0.50
26.45	16.90	1.73	0.95	1.170	0.92	25.61	NoLiq	7.20	32.81	0.50
26.50	17.00	1.73	0.95	1.172	0.92	25.74	NoLiq	7.20	32.94	0.50
26.55	17.10	1.73	0.95	1.174	0.92	25.86	NoLiq	7.20	33.06	0.50
26.60	17.20	1.73	0.95	1.176	0.92	25.99	NoLiq	7.20	33.19	0.50
26.65	17.30	1.73	0.95	1.178	0.92	26.12	NoLiq	7.20	33.32	0.50
26.70	17.40	1.73	0.95	1.180	0.92	26.25	NoLiq	7.20	33.45	0.50
26.75	17.50	1.73	0.95	1.182	0.92	26.37	NoLiq	7.20	33.57	0.50
26.80	17.60	1.73	0.95	1.184	0.92	26.50	NoLiq	7.20	33.70	0.50
26.85	17.70	1.73	0.95	1.187	0.92	26.63	NoLiq	7.20	33.83	0.50
26.90	17.80	1.73	0.95	1.189	0.92	26.75	NoLiq	7.20	33.95	0.50
26.95	17.90	1.73	0.95	1.191	0.92	26.88	NoLiq	7.20	34.08	0.50
27.00	18.00	1.73	0.95	1.193	0.92	27.00	NoLiq	7.20	34.20	0.50
27.05	17.97	1.73	0.95	1.196	0.91	26.93	55.56	7.20	34.13	0.50
27.10	17.93	1.73	0.95	1.198	0.91	26.85	57.13	7.20	34.05	0.50
27.15	17.90	1.73	0.95	1.200	0.91	26.78	58.70	7.20	33.98	0.50
27.20	17.87	1.73	0.95	1.202	0.91	26.70	60.26	7.20	33.90	0.50
27.25	17.83	1.73	0.95	1.204	0.91	26.63	61.83	7.20	33.83	0.50
27.30	17.80	1.73	0.95	1.207	0.91	26.56	63.40	7.20	33.76	0.50
27.35	17.77	1.73	0.95	1.209	0.91	26.48	64.96	7.20	33.68	0.50
27.40	17.73	1.73	0.95	1.211	0.91	26.41	66.53	7.20	33.61	0.50
27.45	17.70	1.73	0.95	1.213	0.91	26.34	68.10	7.20	33.54	0.50
27.50	17.67	1.73	0.95	1.215	0.91	26.26	69.66	7.20	33.46	0.50
27.55	17.63	1.73	0.95	1.217	0.91	26.19	71.23	7.20	33.39	0.50
27.60	17.60	1.73	0.95	1.220	0.91	26.12	72.80	7.20	33.32	0.50
27.65	17.57	1.73	0.95	1.222	0.90	26.05	74.36	7.20	33.25	0.50
27.70	17.53	1.73	0.95	1.224	0.90	25.97	75.93	7.20	33.17	0.50

27.75	17.50	1.73	0.95	1.226	0.90	25.90	77.50	7.20	33.10	0.50
27.80	17.47	1.73	0.95	1.228	0.90	25.83	79.06	7.20	33.03	0.50
27.85	17.43	1.73	0.95	1.230	0.90	25.76	80.63	7.20	32.96	0.50
27.90	17.40	1.73	1.00	1.232	0.90	27.04	82.20	7.20	34.24	0.50
27.95	17.37	1.73	1.00	1.234	0.90	26.97	83.76	7.20	34.17	0.50
28.00	17.33	1.73	1.00	1.236	0.90	26.89	85.33	7.20	34.09	0.50
28.05	17.30	1.73	1.00	1.238	0.90	26.82	86.90	7.20	34.02	0.50
28.10	17.27	1.73	1.00	1.240	0.90	26.75	88.46	7.20	33.95	0.50
28.15	17.23	1.73	1.00	1.242	0.90	26.67	90.03	7.20	33.87	0.50
28.20	17.20	1.73	1.00	1.244	0.90	26.60	91.60	7.20	33.80	0.50
28.25	17.17	1.73	1.00	1.246	0.90	26.53	93.16	7.20	33.73	0.50
28.30	17.13	1.73	1.00	1.248	0.90	26.46	94.73	7.20	33.66	0.50
28.35	17.10	1.73	1.00	1.250	0.89	26.39	96.30	7.20	33.59	0.50
28.40	17.07	1.73	1.00	1.252	0.89	26.31	97.86	7.20	33.51	0.50
28.45	17.03	1.73	1.00	1.254	0.89	26.24	99.43	7.20	33.44	0.50
28.50	17.00	1.73	1.00	1.256	0.89	26.17	NoLiq	7.20	33.37	0.50
28.55	17.00	1.73	1.00	1.257	0.89	26.15	NoLiq	7.20	33.35	0.50
28.60	17.00	1.73	1.00	1.259	0.89	26.13	NoLiq	7.20	33.33	0.50
28.65	17.00	1.73	1.00	1.261	0.89	26.11	NoLiq	7.20	33.31	0.50
28.70	17.00	1.73	1.00	1.263	0.89	26.09	NoLiq	7.20	33.29	0.50
28.75	17.00	1.73	1.00	1.265	0.89	26.07	NoLiq	7.20	33.27	0.50
28.80	17.00	1.73	1.00	1.267	0.89	26.05	NoLiq	7.20	33.25	0.50
28.85	17.00	1.73	1.00	1.269	0.89	26.03	NoLiq	7.20	33.23	0.50
28.90	17.00	1.73	1.00	1.271	0.89	26.01	NoLiq	7.20	33.21	0.50
28.95	17.00	1.73	1.00	1.273	0.89	25.99	NoLiq	7.20	33.19	0.50
29.00	17.00	1.73	1.00	1.275	0.89	25.97	NoLiq	7.20	33.17	0.50
29.05	17.00	1.73	1.00	1.277	0.89	25.95	NoLiq	7.20	33.15	0.50
29.10	17.00	1.73	1.00	1.279	0.88	25.93	NoLiq	7.20	33.13	0.50
29.15	17.00	1.73	1.00	1.280	0.88	25.91	NoLiq	7.20	33.11	0.50
29.20	17.00	1.73	1.00	1.282	0.88	25.90	NoLiq	7.20	33.10	0.50
29.25	17.00	1.73	1.00	1.284	0.88	25.88	NoLiq	7.20	33.08	0.50
29.30	17.00	1.73	1.00	1.286	0.88	25.86	NoLiq	7.20	33.06	0.50
29.35	17.00	1.73	1.00	1.288	0.88	25.84	NoLiq	7.20	33.04	0.50
29.40	17.00	1.73	1.00	1.290	0.88	25.82	NoLiq	7.20	33.02	0.50
29.45	17.00	1.73	1.00	1.292	0.88	25.80	NoLiq	7.20	33.00	0.50
29.50	17.00	1.73	1.00	1.294	0.88	25.78	NoLiq	7.20	32.98	0.50
29.55	17.00	1.73	1.00	1.296	0.88	25.76	NoLiq	7.20	32.96	0.50
29.60	17.00	1.73	1.00	1.298	0.88	25.74	NoLiq	7.20	32.94	0.50
29.65	17.00	1.73	1.00	1.300	0.88	25.72	NoLiq	7.20	32.92	0.50
29.70	17.00	1.73	1.00	1.302	0.88	25.70	NoLiq	7.20	32.90	0.50
29.75	17.00	1.73	1.00	1.304	0.88	25.68	NoLiq	7.20	32.88	0.50
29.80	17.00	1.73	1.00	1.306	0.88	25.66	NoLiq	7.20	32.86	0.50
29.85	17.00	1.73	1.00	1.308	0.87	25.64	NoLiq	7.20	32.84	0.50
29.90	17.00	1.73	1.00	1.310	0.87	25.62	NoLiq	7.20	32.82	0.50
29.95	17.00	1.73	1.00	1.312	0.87	25.60	NoLiq	7.20	32.80	0.50
30.00	17.00	1.73	1.00	1.314	0.87	25.58	NoLiq	7.20	32.78	0.50
30.05	16.93	1.73	1.00	1.316	0.87	25.46	NoLiq	7.20	32.66	0.50
30.10	16.87	1.73	1.00	1.318	0.87	25.34	NoLiq	7.20	32.54	0.50
30.15	16.80	1.73	1.00	1.320	0.87	25.22	NoLiq	7.20	32.42	0.50
30.20	16.73	1.73	1.00	1.322	0.87	25.10	NoLiq	7.20	32.30	0.50
30.25	16.67	1.73	1.00	1.324	0.87	24.99	NoLiq	7.20	32.19	0.50
30.30	16.60	1.73	1.00	1.326	0.87	24.87	NoLiq	7.20	32.07	0.50
30.35	16.53	1.73	1.00	1.328	0.87	24.75	NoLiq	7.20	31.95	0.50
30.40	16.47	1.73	1.00	1.330	0.87	24.63	NoLiq	7.20	31.83	0.50
30.45	16.40	1.73	1.00	1.332	0.87	24.51	NoLiq	7.20	31.71	0.50
30.50	16.33	1.73	1.00	1.334	0.87	24.39	NoLiq	7.20	31.59	0.50
30.55	16.27	1.73	1.00	1.336	0.87	24.28	NoLiq	7.20	31.48	0.50
30.60	16.20	1.73	1.00	1.338	0.86	24.16	NoLiq	7.20	31.36	0.50
30.65	16.13	1.73	1.00	1.340	0.86	24.04	NoLiq	7.20	31.24	0.50
30.70	16.07	1.73	1.00	1.342	0.86	23.92	NoLiq	7.20	31.12	0.50
30.75	16.00	1.73	1.00	1.344	0.86	23.81	NoLiq	7.20	31.01	0.50
30.80	15.93	1.73	1.00	1.346	0.86	23.69	NoLiq	7.20	30.89	0.50
30.85	15.87	1.73	1.00	1.348	0.86	23.57	NoLiq	7.20	30.77	0.50
30.90	15.80	1.73	1.00	1.350	0.86	23.46	NoLiq	7.20	30.66	0.50
30.95	15.73	1.73	1.00	1.352	0.86	23.34	NoLiq	7.20	30.54	0.50
31.00	15.67	1.73	1.00	1.354	0.86	23.22	NoLiq	7.20	30.42	0.50
31.05	15.60	1.73	1.00	1.356	0.86	23.11	NoLiq	7.20	30.31	0.50
31.10	15.53	1.73	1.00	1.358	0.86	22.99	NoLiq	7.20	30.19	0.50
31.15	15.47	1.73	1.00	1.360	0.86	22.88	NoLiq	7.20	30.08	0.48

31.20	15.40	1.73	1.00	1.362	0.86	22.76	NoLiq	7.20	29.96	0.45
31.25	15.33	1.73	1.00	1.364	0.86	22.64	NoLiq	7.20	29.84	0.43
31.30	15.27	1.73	1.00	1.366	0.86	22.53	NoLiq	7.20	29.73	0.42
31.35	15.20	1.73	1.00	1.368	0.85	22.41	NoLiq	7.20	29.61	0.41
31.40	15.13	1.73	1.00	1.370	0.85	22.30	NoLiq	7.20	29.50	0.40
31.45	15.07	1.73	1.00	1.372	0.85	22.19	NoLiq	7.20	29.39	0.39
31.50	15.00	1.73	1.00	1.374	0.85	22.07	NoLiq	7.20	29.27	0.39
31.55	15.03	1.73	1.00	1.376	0.85	22.10	NoLiq	7.20	29.30	0.39
31.60	15.07	1.73	1.00	1.378	0.85	22.14	NoLiq	7.20	29.34	0.39
31.65	15.10	1.73	1.00	1.380	0.85	22.17	NoLiq	7.20	29.37	0.39
31.70	15.13	1.73	1.00	1.383	0.85	22.20	NoLiq	7.20	29.40	0.39
31.75	15.17	1.73	1.00	1.385	0.85	22.23	NoLiq	7.20	29.43	0.40
31.80	15.20	1.73	1.00	1.387	0.85	22.27	NoLiq	7.20	29.47	0.40
31.85	15.23	1.73	1.00	1.389	0.85	22.30	NoLiq	7.20	29.50	0.40
31.90	15.27	1.73	1.00	1.391	0.85	22.33	NoLiq	7.20	29.53	0.40
31.95	15.30	1.73	1.00	1.392	0.85	22.37	NoLiq	7.20	29.57	0.40
32.00	15.33	1.73	1.00	1.394	0.85	22.40	NoLiq	7.20	29.60	0.41
32.05	15.37	1.73	1.00	1.396	0.85	22.43	NoLiq	7.20	29.63	0.41
32.10	15.40	1.73	1.00	1.398	0.85	22.46	NoLiq	7.20	29.66	0.41
32.15	15.43	1.73	1.00	1.400	0.85	22.50	NoLiq	7.20	29.70	0.42
32.20	15.47	1.73	1.00	1.402	0.84	22.53	NoLiq	7.20	29.73	0.42
32.25	15.50	1.73	1.00	1.404	0.84	22.56	NoLiq	7.20	29.76	0.42
32.30	15.53	1.73	1.00	1.406	0.84	22.59	NoLiq	7.20	29.79	0.43
32.35	15.57	1.73	1.00	1.408	0.84	22.63	NoLiq	7.20	29.83	0.43
32.40	15.60	1.73	1.00	1.410	0.84	22.66	NoLiq	7.20	29.86	0.43
32.45	15.63	1.73	1.00	1.412	0.84	22.69	NoLiq	7.20	29.89	0.44
32.50	15.67	1.73	1.00	1.414	0.84	22.73	NoLiq	7.20	29.93	0.44
32.55	15.70	1.73	1.00	1.416	0.84	22.76	NoLiq	7.20	29.96	0.45
32.60	15.73	1.73	1.00	1.418	0.84	22.79	NoLiq	7.20	29.99	0.46
32.65	15.77	1.73	1.00	1.420	0.84	22.82	NoLiq	7.20	30.02	0.46
32.70	15.80	1.73	1.00	1.422	0.84	22.86	NoLiq	7.20	30.06	0.47
32.75	15.83	1.73	1.00	1.424	0.84	22.89	NoLiq	7.20	30.09	0.48
32.80	15.87	1.73	1.00	1.426	0.84	22.92	NoLiq	7.20	30.12	0.50
32.85	15.90	1.73	1.00	1.428	0.84	22.96	NoLiq	7.20	30.16	0.50
32.90	15.93	1.73	1.00	1.429	0.84	22.99	NoLiq	7.20	30.19	0.50
32.95	15.97	1.73	1.00	1.431	0.84	23.02	NoLiq	7.20	30.22	0.50
33.00	16.00	1.73	1.00	1.433	0.84	23.05	NoLiq	7.20	30.25	0.50
33.05	16.03	1.73	1.00	1.435	0.83	23.09	NoLiq	7.20	30.29	0.50
33.10	16.07	1.73	1.00	1.437	0.83	23.12	NoLiq	7.20	30.32	0.50
33.15	16.10	1.73	1.00	1.439	0.83	23.15	NoLiq	7.20	30.35	0.50
33.20	16.13	1.73	1.00	1.441	0.83	23.18	NoLiq	7.20	30.38	0.50
33.25	16.17	1.73	1.00	1.443	0.83	23.22	NoLiq	7.20	30.42	0.50
33.30	16.20	1.73	1.00	1.445	0.83	23.25	NoLiq	7.20	30.45	0.50
33.35	16.23	1.73	1.00	1.447	0.83	23.28	NoLiq	7.20	30.48	0.50
33.40	16.27	1.73	1.00	1.449	0.83	23.31	NoLiq	7.20	30.51	0.50
33.45	16.30	1.73	1.00	1.451	0.83	23.35	NoLiq	7.20	30.55	0.50
33.50	16.33	1.73	1.00	1.452	0.83	23.38	NoLiq	7.20	30.58	0.50
33.55	16.37	1.73	1.00	1.454	0.83	23.41	NoLiq	7.20	30.61	0.50
33.60	16.40	1.73	1.00	1.456	0.83	23.44	NoLiq	7.20	30.64	0.50
33.65	16.43	1.73	1.00	1.458	0.83	23.47	NoLiq	7.20	30.67	0.50
33.70	16.47	1.73	1.00	1.460	0.83	23.51	NoLiq	7.20	30.71	0.50
33.75	16.50	1.73	1.00	1.462	0.83	23.54	NoLiq	7.20	30.74	0.50
33.80	16.53	1.73	1.00	1.464	0.83	23.57	NoLiq	7.20	30.77	0.50
33.85	16.57	1.73	1.00	1.466	0.83	23.60	NoLiq	7.20	30.80	0.50
33.90	16.60	1.73	1.00	1.468	0.83	23.63	NoLiq	7.20	30.83	0.50
33.95	16.63	1.73	1.00	1.470	0.82	23.67	NoLiq	7.20	30.87	0.50
34.00	16.67	1.73	1.00	1.472	0.82	23.70	NoLiq	7.20	30.90	0.50
34.05	16.70	1.73	1.00	1.474	0.82	23.73	NoLiq	7.20	30.93	0.50
34.10	16.73	1.73	1.00	1.476	0.82	23.76	NoLiq	7.20	30.96	0.50
34.15	16.77	1.73	1.00	1.478	0.82	23.79	NoLiq	7.20	30.99	0.50
34.20	16.80	1.73	1.00	1.480	0.82	23.82	NoLiq	7.20	31.02	0.50
34.25	16.83	1.73	1.00	1.482	0.82	23.85	NoLiq	7.20	31.05	0.50
34.30	16.87	1.73	1.00	1.484	0.82	23.89	NoLiq	7.20	31.09	0.50
34.35	16.90	1.73	1.00	1.486	0.82	23.92	NoLiq	7.20	31.12	0.50
34.40	16.93	1.73	1.00	1.488	0.82	23.95	NoLiq	7.20	31.15	0.50
34.45	16.97	1.73	1.00	1.490	0.82	23.98	NoLiq	7.20	31.18	0.50
34.50	17.00	1.73	1.00	1.492	0.82	24.01	NoLiq	7.20	31.21	0.50
34.55	16.90	1.73	1.00	1.494	0.82	23.85	NoLiq	7.20	31.05	0.50
34.60	16.80	1.73	1.00	1.496	0.82	23.70	NoLiq	7.20	30.90	0.50

34.65	16.70	1.73	1.00	1.498	0.82	23.54	NoLiq	7.20	30.74	0.50
34.70	16.60	1.73	1.00	1.500	0.82	23.38	NoLiq	7.20	30.58	0.50
34.75	16.50	1.73	1.00	1.502	0.82	23.23	NoLiq	7.20	30.43	0.50
34.80	16.40	1.73	1.00	1.504	0.82	23.07	NoLiq	7.20	30.27	0.50
34.85	16.30	1.73	1.00	1.506	0.81	22.92	NoLiq	7.20	30.12	0.49
34.90	16.20	1.73	1.00	1.508	0.81	22.76	NoLiq	7.20	29.96	0.45
34.95	16.10	1.73	1.00	1.510	0.81	22.60	NoLiq	7.20	29.80	0.43
35.00	16.00	1.73	1.00	1.512	0.81	22.45	NoLiq	7.20	29.65	0.41
35.05	15.90	1.73	1.00	1.514	0.81	22.29	NoLiq	7.20	29.49	0.40
35.10	15.80	1.73	1.00	1.516	0.81	22.14	NoLiq	7.20	29.34	0.39
35.15	15.70	1.73	1.00	1.518	0.81	21.99	NoLiq	7.20	29.19	0.38
35.20	15.60	1.73	1.00	1.519	0.81	21.83	NoLiq	7.20	29.03	0.38
35.25	15.50	1.73	1.00	1.521	0.81	21.68	NoLiq	7.20	28.88	0.37
35.30	15.40	1.73	1.00	1.523	0.81	21.52	NoLiq	7.20	28.72	0.36
35.35	15.30	1.73	1.00	1.525	0.81	21.37	NoLiq	7.20	28.57	0.36
35.40	15.20	1.73	1.00	1.527	0.81	21.22	NoLiq	7.20	28.42	0.35
35.45	15.10	1.73	1.00	1.529	0.81	21.06	NoLiq	7.20	28.26	0.35
35.50	15.00	1.73	1.00	1.531	0.81	20.91	NoLiq	7.20	28.11	0.35
35.55	14.90	1.73	1.00	1.533	0.81	20.76	NoLiq	7.20	27.96	0.34
35.60	14.80	1.73	1.00	1.535	0.81	20.61	NoLiq	7.20	27.81	0.34
35.65	14.70	1.73	1.00	1.537	0.81	20.45	NoLiq	7.20	27.65	0.33
35.70	14.60	1.73	1.00	1.539	0.81	20.30	NoLiq	7.20	27.50	0.33
35.75	14.50	1.73	1.00	1.541	0.81	20.15	NoLiq	7.20	27.35	0.33
35.80	14.40	1.73	1.00	1.543	0.81	20.00	NoLiq	7.20	27.20	0.32
35.85	14.30	1.73	1.00	1.545	0.80	19.85	NoLiq	7.20	27.05	0.32
35.90	14.20	1.73	1.00	1.547	0.80	19.70	NoLiq	7.20	26.90	0.32
35.95	14.10	1.73	1.00	1.549	0.80	19.55	NoLiq	7.20	26.75	0.31
36.00	14.00	1.73	1.00	1.551	0.80	19.39	NoLiq	7.20	26.59	0.31
36.05	14.00	1.73	1.00	1.552	0.80	19.38	NoLiq	7.20	26.58	0.31
36.10	14.00	1.73	1.00	1.554	0.80	19.37	NoLiq	7.20	26.57	0.31
36.15	14.00	1.73	1.00	1.556	0.80	19.36	NoLiq	7.20	26.56	0.31
36.20	14.00	1.73	1.00	1.558	0.80	19.35	NoLiq	7.20	26.55	0.31
36.25	14.00	1.73	1.00	1.560	0.80	19.33	NoLiq	7.20	26.53	0.31
36.30	14.00	1.73	1.00	1.562	0.80	19.32	NoLiq	7.20	26.52	0.31
36.35	14.00	1.73	1.00	1.564	0.80	19.31	NoLiq	7.20	26.51	0.31
36.40	14.00	1.73	1.00	1.566	0.80	19.30	NoLiq	7.20	26.50	0.31
36.45	14.00	1.73	1.00	1.568	0.80	19.29	NoLiq	7.20	26.49	0.31
36.50	14.00	1.73	1.00	1.570	0.80	19.28	NoLiq	7.20	26.48	0.31
36.55	14.00	1.73	1.00	1.572	0.80	19.26	NoLiq	7.20	26.46	0.31
36.60	14.00	1.73	1.00	1.573	0.80	19.25	NoLiq	7.20	26.45	0.31
36.65	14.00	1.73	1.00	1.575	0.80	19.24	NoLiq	7.20	26.44	0.31
36.70	14.00	1.73	1.00	1.577	0.80	19.23	NoLiq	7.20	26.43	0.31
36.75	14.00	1.73	1.00	1.579	0.80	19.22	NoLiq	7.20	26.42	0.31
36.80	14.00	1.73	1.00	1.581	0.80	19.21	NoLiq	7.20	26.41	0.31
36.85	14.00	1.73	1.00	1.583	0.79	19.19	NoLiq	7.20	26.39	0.31
36.90	14.00	1.73	1.00	1.585	0.79	19.18	NoLiq	7.20	26.38	0.31
36.95	14.00	1.73	1.00	1.587	0.79	19.17	NoLiq	7.20	26.37	0.31
37.00	14.00	1.73	1.00	1.589	0.79	19.16	NoLiq	7.20	26.36	0.31
37.05	14.00	1.73	1.00	1.591	0.79	19.15	NoLiq	7.20	26.35	0.31
37.10	14.00	1.73	1.00	1.592	0.79	19.14	NoLiq	7.20	26.34	0.31
37.15	14.00	1.73	1.00	1.594	0.79	19.13	NoLiq	7.20	26.33	0.31
37.20	14.00	1.73	1.00	1.596	0.79	19.11	NoLiq	7.20	26.31	0.31
37.25	14.00	1.73	1.00	1.598	0.79	19.10	NoLiq	7.20	26.30	0.31
37.30	14.00	1.73	1.00	1.600	0.79	19.09	NoLiq	7.20	26.29	0.31
37.35	14.00	1.73	1.00	1.602	0.79	19.08	NoLiq	7.20	26.28	0.31
37.40	14.00	1.73	1.00	1.604	0.79	19.07	NoLiq	7.20	26.27	0.30
37.45	14.00	1.73	1.00	1.606	0.79	19.06	NoLiq	7.20	26.26	0.30
37.50	14.00	1.73	1.00	1.608	0.79	19.05	NoLiq	7.20	26.25	0.30
37.55	14.10	1.73	1.00	1.609	0.79	19.17	NoLiq	7.20	26.37	0.31
37.60	14.20	1.73	1.00	1.611	0.79	19.30	NoLiq	7.20	26.50	0.31
37.65	14.30	1.73	1.00	1.613	0.79	19.42	NoLiq	7.20	26.62	0.31
37.70	14.40	1.73	1.00	1.615	0.79	19.55	NoLiq	7.20	26.75	0.31
37.75	14.50	1.73	1.00	1.617	0.79	19.67	NoLiq	7.20	26.87	0.32
37.80	14.60	1.73	1.00	1.619	0.79	19.79	NoLiq	7.20	26.99	0.32
37.85	14.70	1.73	1.00	1.621	0.79	19.92	NoLiq	7.20	27.12	0.32
37.90	14.80	1.73	1.00	1.622	0.79	20.04	NoLiq	7.20	27.24	0.32
37.95	14.90	1.73	1.00	1.624	0.78	20.17	NoLiq	7.20	27.37	0.33
38.00	15.00	1.73	1.00	1.626	0.78	20.29	NoLiq	7.20	27.49	0.33
38.05	15.10	1.73	1.00	1.628	0.78	20.41	NoLiq	7.20	27.61	0.33

38.10	15.20	1.73	1.00	1.630	0.78	20.54	NoLiq	7.20	27.74	0.34
38.15	15.30	1.73	1.00	1.632	0.78	20.66	NoLiq	7.20	27.86	0.34
38.20	15.40	1.73	1.00	1.634	0.78	20.78	NoLiq	7.20	27.98	0.34
38.25	15.50	1.73	1.00	1.635	0.78	20.91	NoLiq	7.20	28.11	0.35
38.30	15.60	1.73	1.00	1.637	0.78	21.03	NoLiq	7.20	28.23	0.35
38.35	15.70	1.73	1.00	1.639	0.78	21.15	NoLiq	7.20	28.35	0.35
38.40	15.80	1.73	1.00	1.641	0.78	21.28	NoLiq	7.20	28.48	0.36
38.45	15.90	1.73	1.00	1.643	0.78	21.40	NoLiq	7.20	28.60	0.36
38.50	16.00	1.73	1.00	1.645	0.78	21.52	NoLiq	7.20	28.72	0.36
38.55	16.10	1.73	1.00	1.646	0.78	21.64	NoLiq	7.20	28.84	0.37
38.60	16.20	1.73	1.00	1.648	0.78	21.77	NoLiq	7.20	28.97	0.37
38.65	16.30	1.73	1.00	1.650	0.78	21.89	NoLiq	7.20	29.09	0.38
38.70	16.40	1.73	1.00	1.652	0.78	22.01	NoLiq	7.20	29.21	0.38
38.75	16.50	1.73	1.00	1.654	0.78	22.13	NoLiq	7.20	29.33	0.39
38.80	16.60	1.73	1.00	1.656	0.78	22.25	NoLiq	7.20	29.45	0.40
38.85	16.70	1.73	1.00	1.657	0.78	22.38	NoLiq	7.20	29.58	0.41
38.90	16.80	1.73	1.00	1.659	0.78	22.50	NoLiq	7.20	29.70	0.42
38.95	16.90	1.73	1.00	1.661	0.78	22.62	NoLiq	7.20	29.82	0.43
39.00	17.00	1.73	1.00	1.663	0.78	22.74	NoLiq	7.20	29.94	0.45
39.05	17.07	1.73	1.00	1.665	0.78	22.82	NoLiq	7.20	30.02	0.46
39.10	17.13	1.73	1.00	1.666	0.77	22.90	NoLiq	7.20	30.10	0.49
39.15	17.20	1.73	1.00	1.668	0.77	22.97	NoLiq	7.20	30.17	0.50
39.20	17.27	1.73	1.00	1.670	0.77	23.05	NoLiq	7.20	30.25	0.50
39.25	17.33	1.73	1.00	1.672	0.77	23.12	NoLiq	7.20	30.32	0.50
39.30	17.40	1.73	1.00	1.674	0.77	23.20	NoLiq	7.20	30.40	0.50
39.35	17.47	1.73	1.00	1.675	0.77	23.28	NoLiq	7.20	30.48	0.50
39.40	17.53	1.73	1.00	1.677	0.77	23.35	NoLiq	7.20	30.55	0.50
39.45	17.60	1.73	1.00	1.679	0.77	23.43	NoLiq	7.20	30.63	0.50
39.50	17.67	1.73	1.00	1.681	0.77	23.51	NoLiq	7.20	30.71	0.50
39.55	17.73	1.73	1.00	1.683	0.77	23.58	NoLiq	7.20	30.78	0.50
39.60	17.80	1.73	1.00	1.685	0.77	23.66	NoLiq	7.20	30.86	0.50
39.65	17.87	1.73	1.00	1.686	0.77	23.73	NoLiq	7.20	30.93	0.50
39.70	17.93	1.73	1.00	1.688	0.77	23.81	NoLiq	7.20	31.01	0.50
39.75	18.00	1.73	1.00	1.690	0.77	23.88	NoLiq	7.20	31.08	0.50
39.80	18.07	1.73	1.00	1.692	0.77	23.96	NoLiq	7.20	31.16	0.50
39.85	18.13	1.73	1.00	1.694	0.77	24.03	NoLiq	7.20	31.23	0.50
39.90	18.20	1.73	1.00	1.696	0.77	24.11	NoLiq	7.20	31.31	0.50
39.95	18.27	1.73	1.00	1.697	0.77	24.18	NoLiq	7.20	31.38	0.50
40.00	18.33	1.73	1.00	1.699	0.77	24.26	NoLiq	7.20	31.46	0.50
40.05	18.40	1.73	1.00	1.701	0.77	24.33	NoLiq	7.20	31.53	0.50
40.10	18.47	1.73	1.00	1.703	0.77	24.41	NoLiq	7.20	31.61	0.50
40.15	18.53	1.73	1.00	1.705	0.77	24.48	NoLiq	7.20	31.68	0.50
40.20	18.60	1.73	1.00	1.707	0.77	24.56	NoLiq	7.20	31.76	0.50
40.25	18.67	1.73	1.00	1.709	0.77	24.63	NoLiq	7.20	31.83	0.50
40.30	18.73	1.73	1.00	1.711	0.76	24.71	NoLiq	7.20	31.91	0.50
40.35	18.80	1.73	1.00	1.712	0.76	24.78	NoLiq	7.20	31.98	0.50
40.40	18.87	1.73	1.00	1.714	0.76	24.86	NoLiq	7.20	32.06	0.50
40.45	18.93	1.73	1.00	1.716	0.76	24.93	NoLiq	7.20	32.13	0.50
40.50	19.00	1.73	1.00	1.718	0.76	25.00	NoLiq	7.20	32.20	0.50
40.55	18.83	1.73	1.00	1.720	0.76	24.77	NoLiq	7.20	31.97	0.50
40.60	18.67	1.73	1.00	1.722	0.76	24.54	NoLiq	7.20	31.74	0.50
40.65	18.50	1.73	1.00	1.724	0.76	24.31	NoLiq	7.20	31.51	0.50
40.70	18.33	1.73	1.00	1.726	0.76	24.08	NoLiq	7.20	31.28	0.50
40.75	18.17	1.73	1.00	1.728	0.76	23.84	NoLiq	7.20	31.04	0.50
40.80	18.00	1.73	1.00	1.729	0.76	23.61	NoLiq	7.20	30.81	0.50
40.85	17.83	1.73	1.00	1.731	0.76	23.38	NoLiq	7.20	30.58	0.50
40.90	17.67	1.73	1.00	1.733	0.76	23.15	NoLiq	7.20	30.35	0.50
40.95	17.50	1.73	1.00	1.735	0.76	22.92	NoLiq	7.20	30.12	0.50
41.00	17.33	1.73	1.00	1.737	0.76	22.69	NoLiq	7.20	29.89	0.44
41.05	17.17	1.73	1.00	1.739	0.76	22.46	NoLiq	7.20	29.66	0.41
41.10	17.00	1.73	1.00	1.741	0.76	22.23	NoLiq	7.20	29.43	0.40
41.15	16.83	1.73	1.00	1.743	0.76	22.00	NoLiq	7.20	29.20	0.38
41.20	16.67	1.73	1.00	1.745	0.76	21.77	NoLiq	7.20	28.97	0.37
41.25	16.50	1.73	1.00	1.747	0.76	21.54	NoLiq	7.20	28.74	0.37
41.30	16.33	1.73	1.00	1.749	0.76	21.31	NoLiq	7.20	28.51	0.36
41.35	16.17	1.73	1.00	1.750	0.76	21.08	NoLiq	7.20	28.28	0.35
41.40	16.00	1.73	1.00	1.752	0.76	20.85	NoLiq	7.20	28.05	0.34
41.45	15.83	1.73	1.00	1.754	0.76	20.62	NoLiq	7.20	27.82	0.34
41.50	15.67	1.73	1.00	1.756	0.75	20.39	NoLiq	7.20	27.59	0.33

41.55	15.50	1.73	1.00	1.758	0.75	20.17	NoLiq	7.20	27.37	0.33
41.60	15.33	1.73	1.00	1.760	0.75	19.94	NoLiq	7.20	27.14	0.32
41.65	15.17	1.73	1.00	1.762	0.75	19.71	NoLiq	7.20	26.91	0.32
41.70	15.00	1.73	1.00	1.764	0.75	19.48	NoLiq	7.20	26.68	0.31
41.75	14.83	1.73	1.00	1.766	0.75	19.26	NoLiq	7.20	26.46	0.31
41.80	14.67	1.73	1.00	1.768	0.75	19.03	NoLiq	7.20	26.23	0.30
41.85	14.50	1.73	1.00	1.770	0.75	18.80	NoLiq	7.20	26.00	0.30
41.90	14.33	1.73	1.00	1.772	0.75	18.58	NoLiq	7.20	25.78	0.30
41.95	14.17	1.73	1.00	1.773	0.75	18.35	NoLiq	7.20	25.55	0.29
42.00	14.00	1.73	1.00	1.775	0.75	18.13	NoLiq	7.20	25.33	0.29
42.05	14.13	1.73	1.00	1.777	0.75	18.29	NoLiq	7.20	25.49	0.29
42.10	14.27	1.73	1.00	1.779	0.75	18.45	NoLiq	7.20	25.65	0.29
42.15	14.40	1.73	1.00	1.781	0.75	18.61	NoLiq	7.20	25.81	0.30
42.20	14.53	1.73	1.00	1.783	0.75	18.77	NoLiq	7.20	25.97	0.30
42.25	14.67	1.73	1.00	1.785	0.75	18.94	NoLiq	7.20	26.14	0.30
42.30	14.80	1.73	1.00	1.787	0.75	19.10	NoLiq	7.20	26.30	0.31
42.35	14.93	1.73	1.00	1.789	0.75	19.26	NoLiq	7.20	26.46	0.31
42.40	15.07	1.73	1.00	1.791	0.75	19.42	NoLiq	7.20	26.62	0.31
42.45	15.20	1.73	1.00	1.793	0.75	19.58	NoLiq	7.20	26.78	0.31
42.50	15.33	1.73	1.00	1.795	0.75	19.74	NoLiq	7.20	26.94	0.32
42.55	15.47	1.73	1.00	1.797	0.75	19.90	NoLiq	7.20	27.10	0.32
42.60	15.60	1.73	1.00	1.799	0.75	20.06	NoLiq	7.20	27.26	0.33
42.65	15.73	1.73	1.00	1.801	0.75	20.22	NoLiq	7.20	27.42	0.33
42.70	15.87	1.73	1.00	1.803	0.74	20.38	NoLiq	7.20	27.58	0.33
42.75	16.00	1.73	1.00	1.804	0.74	20.55	NoLiq	7.20	27.75	0.34
42.80	16.13	1.73	1.00	1.806	0.74	20.71	NoLiq	7.20	27.91	0.34
42.85	16.27	1.73	1.00	1.808	0.74	20.86	NoLiq	7.20	28.06	0.34
42.90	16.40	1.73	1.00	1.810	0.74	21.02	NoLiq	7.20	28.22	0.35
42.95	16.53	1.73	1.00	1.812	0.74	21.18	NoLiq	7.20	28.38	0.35
43.00	16.67	1.73	1.00	1.814	0.74	21.34	NoLiq	7.20	28.54	0.36
43.05	16.80	1.73	1.00	1.816	0.74	21.50	NoLiq	7.20	28.70	0.36
43.10	16.93	1.73	1.00	1.818	0.74	21.66	NoLiq	7.20	28.86	0.37
43.15	17.07	1.73	1.00	1.820	0.74	21.82	NoLiq	7.20	29.02	0.38
43.20	17.20	1.73	1.00	1.822	0.74	21.98	NoLiq	7.20	29.18	0.38
43.25	17.33	1.73	1.00	1.824	0.74	22.14	NoLiq	7.20	29.34	0.39
43.30	17.47	1.73	1.00	1.826	0.74	22.30	NoLiq	7.20	29.50	0.40
43.35	17.60	1.73	1.00	1.828	0.74	22.45	NoLiq	7.20	29.65	0.41
43.40	17.73	1.73	1.00	1.830	0.74	22.61	NoLiq	7.20	29.81	0.43
43.45	17.87	1.73	1.00	1.832	0.74	22.77	NoLiq	7.20	29.97	0.45
43.50	18.00	1.73	1.00	1.834	0.74	22.93	NoLiq	7.20	30.13	0.50
43.55	17.80	1.73	1.00	1.836	0.74	22.66	NoLiq	7.20	29.86	0.43
43.60	17.60	1.73	1.00	1.838	0.74	22.40	NoLiq	7.20	29.60	0.41
43.65	17.40	1.73	1.00	1.840	0.74	22.13	NoLiq	7.20	29.33	0.39
43.70	17.20	1.73	1.00	1.842	0.74	21.86	NoLiq	7.20	29.06	0.38
43.75	17.00	1.73	1.00	1.844	0.74	21.60	NoLiq	7.20	28.80	0.37
43.80	16.80	1.73	1.00	1.846	0.74	21.33	NoLiq	7.20	28.53	0.36
43.85	16.60	1.73	1.00	1.848	0.74	21.07	NoLiq	7.20	28.27	0.35
43.90	16.40	1.73	1.00	1.850	0.74	20.80	NoLiq	7.20	28.00	0.34
43.95	16.20	1.73	1.00	1.852	0.73	20.54	NoLiq	7.20	27.74	0.34
44.00	16.00	1.73	1.00	1.854	0.73	20.27	NoLiq	7.20	27.47	0.33
44.05	15.80	1.73	1.00	1.856	0.73	20.01	NoLiq	7.20	27.21	0.32
44.10	15.60	1.73	1.00	1.858	0.73	19.75	NoLiq	7.20	26.95	0.32
44.15	15.40	1.73	1.00	1.860	0.73	19.48	NoLiq	7.20	26.68	0.31
44.20	15.20	1.73	1.00	1.862	0.73	19.22	NoLiq	7.20	26.42	0.31
44.25	15.00	1.73	1.00	1.864	0.73	18.96	NoLiq	7.20	26.16	0.30
44.30	14.80	1.73	1.00	1.866	0.73	18.69	NoLiq	7.20	25.89	0.30
44.35	14.60	1.73	1.00	1.868	0.73	18.43	NoLiq	7.20	25.63	0.29
44.40	14.40	1.73	1.00	1.870	0.73	18.17	NoLiq	7.20	25.37	0.29
44.45	14.20	1.73	1.00	1.872	0.73	17.91	NoLiq	7.20	25.11	0.28
44.50	14.00	1.73	1.00	1.874	0.73	17.64	NoLiq	7.20	24.84	0.28
44.55	13.80	1.73	1.00	1.876	0.73	17.38	NoLiq	7.20	24.58	0.28
44.60	13.60	1.73	1.00	1.878	0.73	17.12	NoLiq	7.20	24.32	0.27
44.65	13.40	1.73	1.00	1.880	0.73	16.86	NoLiq	7.20	24.06	0.27
44.70	13.20	1.73	1.00	1.882	0.73	16.60	NoLiq	7.20	23.80	0.26
44.75	13.00	1.73	1.00	1.884	0.73	16.34	NoLiq	7.20	23.54	0.26
44.80	12.80	1.73	1.00	1.886	0.73	16.08	NoLiq	7.20	23.28	0.26
44.85	12.60	1.73	1.00	1.888	0.73	15.82	NoLiq	7.20	23.02	0.25
44.90	12.40	1.73	1.00	1.890	0.73	15.56	NoLiq	7.20	22.76	0.25
44.95	12.20	1.73	1.00	1.892	0.73	15.30	NoLiq	7.20	22.50	0.25

45.00	12.00	1.73	1.00	1.894	0.73	15.04	NoLiq	7.20	22.24	0.24
45.05	12.13	1.73	1.00	1.896	0.73	15.20	NoLiq	7.20	22.40	0.25
45.10	12.27	1.73	1.00	1.898	0.73	15.36	NoLiq	7.20	22.56	0.25
45.15	12.40	1.73	1.00	1.900	0.73	15.52	NoLiq	7.20	22.72	0.25
45.20	12.53	1.73	1.00	1.902	0.73	15.67	NoLiq	7.20	22.87	0.25
45.25	12.67	1.73	1.00	1.904	0.72	15.83	NoLiq	7.20	23.03	0.25
45.30	12.80	1.73	1.00	1.906	0.72	15.99	NoLiq	7.20	23.19	0.26
45.35	12.93	1.73	1.00	1.908	0.72	16.15	NoLiq	7.20	23.35	0.26
45.40	13.07	1.73	1.00	1.910	0.72	16.31	NoLiq	7.20	23.51	0.26
45.45	13.20	1.73	1.00	1.912	0.72	16.46	NoLiq	7.20	23.66	0.26
45.50	13.33	1.73	1.00	1.914	0.72	16.62	NoLiq	7.20	23.82	0.26
45.55	13.47	1.73	1.00	1.916	0.72	16.78	NoLiq	7.20	23.98	0.27
45.60	13.60	1.73	1.00	1.918	0.72	16.94	NoLiq	7.20	24.14	0.27
45.65	13.73	1.73	1.00	1.921	0.72	17.09	NoLiq	7.20	24.29	0.27
45.70	13.87	1.73	1.00	1.923	0.72	17.25	NoLiq	7.20	24.45	0.27
45.75	14.00	1.73	1.00	1.925	0.72	17.41	NoLiq	7.20	24.61	0.28
45.80	14.13	1.73	1.00	1.927	0.72	17.56	NoLiq	7.20	24.76	0.28
45.85	14.27	1.73	1.00	1.929	0.72	17.72	NoLiq	7.20	24.92	0.28
45.90	14.40	1.73	1.00	1.931	0.72	17.88	NoLiq	7.20	25.08	0.28
45.95	14.53	1.73	1.00	1.933	0.72	18.03	NoLiq	7.20	25.23	0.29
46.00	14.67	1.73	1.00	1.935	0.72	18.19	NoLiq	7.20	25.39	0.29
46.05	14.80	1.73	1.00	1.937	0.72	18.34	NoLiq	7.20	25.54	0.29
46.10	14.93	1.73	1.00	1.939	0.72	18.50	NoLiq	7.20	25.70	0.29
46.15	15.07	1.73	1.00	1.941	0.72	18.65	NoLiq	7.20	25.85	0.30
46.20	15.20	1.73	1.00	1.943	0.72	18.81	NoLiq	7.20	26.01	0.30
46.25	15.33	1.73	1.00	1.945	0.72	18.97	NoLiq	7.20	26.17	0.30
46.30	15.47	1.73	1.00	1.947	0.72	19.12	NoLiq	7.20	26.32	0.31
46.35	15.60	1.73	1.00	1.949	0.72	19.28	NoLiq	7.20	26.48	0.31
46.40	15.73	1.73	1.00	1.951	0.72	19.43	NoLiq	7.20	26.63	0.31
46.45	15.87	1.73	1.00	1.953	0.72	19.58	NoLiq	7.20	26.78	0.31
46.50	16.00	1.73	1.00	1.955	0.72	19.74	NoLiq	7.20	26.94	0.32
46.55	15.97	1.73	1.00	1.957	0.71	19.69	NoLiq	7.20	26.89	0.32
46.60	15.93	1.73	1.00	1.959	0.71	19.64	NoLiq	7.20	26.84	0.32
46.65	15.90	1.73	1.00	1.961	0.71	19.59	NoLiq	7.20	26.79	0.32
46.70	15.87	1.73	1.00	1.963	0.71	19.54	NoLiq	7.20	26.74	0.31
46.75	15.83	1.73	1.00	1.965	0.71	19.48	NoLiq	7.20	26.68	0.31
46.80	15.80	1.73	1.00	1.967	0.71	19.43	NoLiq	7.20	26.63	0.31
46.85	15.77	1.73	1.00	1.969	0.71	19.38	NoLiq	7.20	26.58	0.31
46.90	15.73	1.73	1.00	1.971	0.71	19.33	NoLiq	7.20	26.53	0.31
46.95	15.70	1.73	1.00	1.973	0.71	19.28	NoLiq	7.20	26.48	0.31
47.00	15.67	1.73	1.00	1.975	0.71	19.23	NoLiq	7.20	26.43	0.31
47.05	15.63	1.73	1.00	1.977	0.71	19.18	NoLiq	7.20	26.38	0.31
47.10	15.60	1.73	1.00	1.979	0.71	19.13	NoLiq	7.20	26.33	0.31
47.15	15.57	1.73	1.00	1.981	0.71	19.08	NoLiq	7.20	26.28	0.30
47.20	15.53	1.73	1.00	1.983	0.71	19.03	NoLiq	7.20	26.23	0.30
47.25	15.50	1.73	1.00	1.986	0.71	18.98	NoLiq	7.20	26.18	0.30
47.30	15.47	1.73	1.00	1.988	0.71	18.92	NoLiq	7.20	26.12	0.30
47.35	15.43	1.73	1.00	1.990	0.71	18.87	NoLiq	7.20	26.07	0.30
47.40	15.40	1.73	1.00	1.992	0.71	18.82	NoLiq	7.20	26.02	0.30
47.45	15.37	1.73	1.00	1.994	0.71	18.77	NoLiq	7.20	25.97	0.30
47.50	15.33	1.73	1.00	1.996	0.71	18.72	NoLiq	7.20	25.92	0.30
47.55	15.30	1.73	1.00	1.998	0.71	18.67	NoLiq	7.20	25.87	0.30
47.60	15.27	1.73	1.00	2.000	0.71	18.62	NoLiq	7.20	25.82	0.30
47.65	15.23	1.73	1.00	2.002	0.71	18.57	NoLiq	7.20	25.77	0.30
47.70	15.20	1.73	1.00	2.004	0.71	18.52	NoLiq	7.20	25.72	0.29
47.75	15.17	1.73	1.00	2.007	0.71	18.47	NoLiq	7.20	25.67	0.29
47.80	15.13	1.73	1.00	2.009	0.71	18.42	NoLiq	7.20	25.62	0.29
47.85	15.10	1.73	1.00	2.011	0.71	18.37	NoLiq	7.20	25.57	0.29
47.90	15.07	1.73	1.00	2.013	0.70	18.32	NoLiq	7.20	25.52	0.29
47.95	15.03	1.73	1.00	2.015	0.70	18.27	NoLiq	7.20	25.47	0.29
48.00	15.00	1.73	1.00	2.017	0.70	18.22	NoLiq	7.20	25.42	0.29
48.05	15.36	1.73	1.00	2.019	0.70	18.65	36.83	7.20	25.85	0.30
48.10	15.73	1.73	1.00	2.022	0.70	19.08	36.67	7.20	26.28	0.31
48.15	16.10	1.73	1.00	2.024	0.70	19.52	36.50	7.20	26.72	0.31
48.20	16.46	1.73	1.00	2.026	0.70	19.95	36.33	7.20	27.15	0.32
48.25	16.83	1.73	1.00	2.028	0.70	20.39	36.17	7.20	27.59	0.33
48.30	17.20	1.73	1.00	2.030	0.70	20.82	36.00	7.20	28.02	0.34
48.35	17.56	1.73	1.00	2.032	0.70	21.25	35.83	7.20	28.45	0.36
48.40	17.93	1.73	1.00	2.035	0.70	21.68	35.67	7.20	28.88	0.37

48.45	18.30	1.73	1.00	2.037	0.70	22.12	35.50	7.20	29.32	0.39
48.50	18.66	1.73	1.00	2.039	0.70	22.55	35.33	7.20	29.75	0.42
48.55	19.03	1.73	1.00	2.041	0.70	22.98	35.17	7.20	30.18	0.50
48.60	19.40	1.73	1.00	2.043	0.70	23.41	35.00	7.20	30.61	0.50
48.65	19.76	1.73	1.00	2.046	0.70	23.84	34.83	7.16	31.00	0.50
48.70	20.13	1.73	1.00	2.048	0.70	24.27	34.67	7.12	31.39	0.50
48.75	20.50	1.73	1.00	2.050	0.70	24.69	34.50	7.08	31.77	0.50
48.80	20.86	1.73	1.00	2.052	0.70	25.12	34.33	7.04	32.16	0.50
48.85	21.23	1.73	1.00	2.054	0.70	25.55	34.17	7.00	32.55	0.50
48.90	21.60	1.73	1.00	2.057	0.70	25.98	34.00	6.96	32.94	0.50
48.95	21.96	1.73	1.00	2.059	0.70	26.40	33.83	6.92	33.32	0.50
49.00	22.33	1.73	1.00	2.061	0.70	26.83	33.67	6.88	33.71	0.50
49.05	22.70	1.73	1.00	2.063	0.70	27.26	33.50	6.84	34.10	0.50
49.10	23.06	1.73	1.00	2.066	0.70	27.68	33.33	6.80	34.48	0.50
49.15	23.43	1.73	1.00	2.068	0.70	28.11	33.17	6.76	34.87	0.50
49.20	23.80	1.73	1.00	2.070	0.70	28.53	33.00	6.72	35.25	0.50
49.25	24.16	1.73	1.00	2.072	0.69	28.96	32.83	6.68	35.64	0.50
49.30	24.53	1.73	1.00	2.074	0.69	29.38	32.67	6.64	36.02	0.50
49.35	24.90	1.73	1.00	2.077	0.69	29.80	32.50	6.60	36.40	0.50
49.40	25.26	1.73	1.00	2.079	0.69	30.22	32.33	6.56	36.78	0.50
49.45	25.63	1.73	1.00	2.081	0.69	30.65	32.17	6.52	37.17	0.50
49.50	26.00	1.73	1.00	2.084	0.69	31.07	32.00	6.48	37.55	0.50
49.55	26.00	1.73	1.00	2.086	0.69	31.05	32.00	6.48	37.53	0.50
49.60	26.00	1.73	1.00	2.088	0.69	31.04	32.00	6.48	37.52	0.50
49.65	26.00	1.73	1.00	2.090	0.69	31.02	32.00	6.48	37.50	0.50
49.70	26.00	1.73	1.00	2.093	0.69	31.00	32.00	6.48	37.48	0.50
49.75	26.00	1.73	1.00	2.095	0.69	30.99	32.00	6.48	37.47	0.50
49.80	26.00	1.73	1.00	2.097	0.69	30.97	32.00	6.48	37.45	0.50
49.85	26.00	1.73	1.00	2.099	0.69	30.95	32.00	6.48	37.43	0.50
49.90	26.00	1.73	1.00	2.102	0.69	30.94	32.00	6.48	37.42	0.50
49.95	26.00	1.73	1.00	2.104	0.69	30.92	32.00	6.48	37.40	0.50
50.00	26.00	1.73	1.00	2.106	0.69	30.90	32.00	6.48	37.38	0.50

CRR is based on water table at 100.00 during In-Situ Testing

Factor of Safety, - Earthquake Magnitude= 7.80:

Depth ft	sigC' atm	CRR7.5	x Ksig	=CRRv	x MSF	=CRRm	CSRfs	F.S.=CRRm/CSRfs
1.50	0.04	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
1.55	0.04	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
1.60	0.04	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
1.65	0.04	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
1.70	0.04	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
1.75	0.04	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
1.80	0.04	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
1.85	0.05	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
1.90	0.05	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
1.95	0.05	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.00	0.05	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.05	0.05	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.10	0.05	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.15	0.05	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.20	0.05	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.25	0.06	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.30	0.06	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.35	0.06	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.40	0.06	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.45	0.06	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.50	0.06	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.55	0.06	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.60	0.06	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.65	0.07	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.70	0.07	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.75	0.07	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.80	0.07	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.85	0.07	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.90	0.07	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^
2.95	0.07	0.50	1.00	0.50	0.90	2.00	0.34	5.00 ^

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16.80	0.51	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
16.85	0.51	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
16.90	0.51	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
16.95	0.52	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.00	0.52	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.05	0.52	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.10	0.52	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.15	0.52	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.20	0.52	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.25	0.52	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.30	0.53	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.35	0.53	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.40	0.53	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.45	0.53	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.50	0.53	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.55	0.53	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.60	0.53	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.65	0.54	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.70	0.54	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.75	0.54	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.80	0.54	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.85	0.54	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.90	0.54	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
17.95	0.54	0.50	1.00	0.50	0.90	0.45	0.33	5.00	
18.00	0.55	0.50	1.00	0.50	0.90	2.00	0.33	5.00	^
18.05	0.55	0.50	1.00	0.50	0.90	2.00	0.33	5.00	^
18.10	0.55	0.50	1.00	0.50	0.90	2.00	0.33	5.00	^
18.15	0.55	0.50	1.00	0.50	0.90	2.00	0.33	5.00	^
18.20	0.55	0.50	1.00	0.50	0.90	2.00	0.33	5.00	^
18.25	0.55	0.50	1.00	0.50	0.90	2.00	0.33	5.00	^
18.30	0.55	0.50	1.00	0.50	0.90	2.00	0.33	5.00	^
18.35	0.55	0.50	1.00	0.50	0.90	2.00	0.33	5.00	^
18.40	0.56	0.50	1.00	0.50	0.90	2.00	0.33	5.00	^
18.45	0.56	0.50	1.00	0.50	0.90	2.00	0.33	5.00	^
18.50	0.56	0.50	1.00	0.50	0.90	2.00	0.33	5.00	^
18.55	0.56	0.50	1.00	0.50	0.90	2.00	0.32	5.00	^
18.60	0.56	0.50	1.00	0.50	0.90	2.00	0.32	5.00	^
18.65	0.56	0.50	1.00	0.50	0.90	2.00	0.32	5.00	^
18.70	0.56	0.50	1.00	0.50	0.90	2.00	0.32	5.00	^
18.75	0.57	0.50	1.00	0.50	0.90	2.00	0.32	5.00	^
18.80	0.57	0.50	1.00	0.50	0.90	2.00	0.32	5.00	^
18.85	0.57	0.50	1.00	0.50	0.90	2.00	0.32	5.00	^
18.90	0.57	0.50	1.00	0.50	0.90	2.00	0.32	5.00	^
18.95	0.57	0.50	1.00	0.50	0.90	2.00	0.32	5.00	^
19.00	0.57	0.50	1.00	0.50	0.90	2.00	0.32	5.00	^

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30.60	0.87	0.50	1.00	0.50	0.90	2.00	0.31	5.00	^
30.65	0.87	0.50	1.00	0.50	0.90	2.00	0.31	5.00	^
30.70	0.87	0.50	1.00	0.50	0.90	2.00	0.31	5.00	^
30.75	0.87	0.50	1.00	0.50	0.90	2.00	0.31	5.00	^
30.80	0.88	0.50	1.00	0.50	0.90	2.00	0.31	5.00	^
30.85	0.88	0.50	1.00	0.50	0.90	2.00	0.31	5.00	^
30.90	0.88	0.50	1.00	0.50	0.90	2.00	0.31	5.00	^
30.95	0.88	0.50	1.00	0.50	0.90	2.00	0.31	5.00	^
31.00	0.88	0.50	1.00	0.50	0.90	2.00	0.31	5.00	^
31.05	0.88	0.50	1.00	0.50	0.90	2.00	0.31	5.00	^
31.10	0.88	0.50	1.00	0.50	0.90	2.00	0.31	5.00	^
31.15	0.88	0.48	1.00	0.48	0.90	2.00	0.31	5.00	^
31.20	0.89	0.45	1.00	0.45	0.90	2.00	0.31	5.00	^
31.25	0.89	0.43	1.00	0.43	0.90	2.00	0.31	5.00	^
31.30	0.89	0.42	1.00	0.42	0.90	2.00	0.31	5.00	^
31.35	0.89	0.41	1.00	0.41	0.90	2.00	0.31	5.00	^
31.40	0.89	0.40	1.00	0.40	0.90	2.00	0.31	5.00	^
31.45	0.89	0.39	1.00	0.39	0.90	2.00	0.31	5.00	^
31.50	0.89	0.39	1.00	0.39	0.90	2.00	0.31	5.00	^
31.55	0.89	0.39	1.00	0.39	0.90	2.00	0.31	5.00	^
31.60	0.90	0.39	1.00	0.39	0.90	2.00	0.31	5.00	^
31.65	0.90	0.39	1.00	0.39	0.90	2.00	0.31	5.00	^
31.70	0.90	0.39	1.00	0.39	0.90	2.00	0.31	5.00	^
31.75	0.90	0.40	1.00	0.40	0.90	2.00	0.31	5.00	^
31.80	0.90	0.40	1.00	0.40	0.90	2.00	0.31	5.00	^
31.85	0.90	0.40	1.00	0.40	0.90	2.00	0.31	5.00	^
31.90	0.90	0.40	1.00	0.40	0.90	2.00	0.31	5.00	^
31.95	0.91	0.40	1.00	0.40	0.90	2.00	0.31	5.00	^
32.00	0.91	0.41	1.00	0.41	0.90	2.00	0.31	5.00	^
32.05	0.91	0.41	1.00	0.41	0.90	2.00	0.31	5.00	^
32.10	0.91	0.41	1.00	0.41	0.90	2.00	0.31	5.00	^
32.15	0.91	0.42	1.00	0.42	0.90	2.00	0.31	5.00	^
32.20	0.91	0.42	1.00	0.42	0.90	2.00	0.31	5.00	^
32.25	0.91	0.42	1.00	0.42	0.90	2.00	0.31	5.00	^
32.30	0.91	0.43	1.00	0.43	0.90	2.00	0.31	5.00	^
32.35	0.92	0.43	1.00	0.43	0.90	2.00	0.31	5.00	^
32.40	0.92	0.43	1.00	0.43	0.90	2.00	0.31	5.00	^
32.45	0.92	0.44	1.00	0.44	0.90	2.00	0.31	5.00	^
32.50	0.92	0.44	1.00	0.44	0.90	2.00	0.31	5.00	^
32.55	0.92	0.45	1.00	0.45	0.90	2.00	0.31	5.00	^
32.60	0.92	0.46	1.00	0.46	0.90	2.00	0.31	5.00	^
32.65	0.92	0.46	1.00	0.46	0.90	2.00	0.31	5.00	^
32.70	0.92	0.47	1.00	0.47	0.90	2.00	0.31	5.00	^
32.75	0.93	0.48	1.00	0.48	0.90	2.00	0.31	5.00	^
32.80	0.93	0.50	1.00	0.50</					

34.05	0.96	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.10	0.96	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.15	0.96	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.20	0.96	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.25	0.96	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.30	0.96	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.35	0.97	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.40	0.97	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.45	0.97	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.50	0.97	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.55	0.97	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.60	0.97	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.65	0.97	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.70	0.97	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.75	0.98	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.80	0.98	0.50	1.00	0.50	0.90	2.00	0.30	5.00	^
34.85	0.98	0.49	1.00	0.49	0.90	2.00	0.30	5.00	^
34.90	0.98	0.45	1.00	0.45	0.90	2.00	0.30	5.00	^
34.95	0.98	0.43	1.00	0.43	0.90	2.00	0.30	5.00	^
35.00	0.98	0.41	1.00	0.41	0.90	2.00	0.30	5.00	^
35.05	0.98	0.40	1.00	0.40	0.90	2.00	0.30	5.00	^
35.10	0.99	0.39	1.00	0.39	0.90	2.00	0.30	5.00	^
35.15	0.99	0.38	1.00	0.38	0.90	2.00	0.30	5.00	^
35.20	0.99	0.38	1.00	0.38	0.90	2.00	0.30	5.00	^
35.25	0.99	0.37	1.00	0.37	0.90	2.00	0.30	5.00	^
35.30	0.99	0.36	1.00	0.36	0.90	2.00	0.30	5.00	^
35.35	0.99	0.36	1.00	0.36	0.90	2.00	0.30	5.00	^
35.40	0.99	0.35	1.00	0.35	0.90	2.00	0.30	5.00	^
35.45	0.99	0.35	1.00	0.35	0.90	2.00	0.30	5.00	^
35.50	1.00	0.35	1.00	0.35	0.90	2.00	0.30	5.00	^
35.55	1.00	0.34	1.00	0.34	0.90	2.00	0.30	5.00	^
35.60	1.00	0.34	1.00	0.34	0.90	2.00	0.30	5.00	^
35.65	1.00	0.33	1.00	0.33	0.90	2.00	0.30	5.00	^
35.70	1.00	0.33	1.01	0.33	0.90	2.00	0.30	5.00	^
35.75	1.00	0.33	1.01	0.33	0.90	2.00	0.30	5.00	^
35.80	1.00	0.32	1.01	0.33	0.90	2.00	0.30	5.00	^
35.85	1.00	0.32	1.01	0.32	0.90	2.00	0.30	5.00	^
35.90	1.01	0.32	1.01	0.32	0.90	2.00	0.30	5.00	^
35.95	1.01	0.31	1.01	0.32	0.90	2.00	0.30	5.00	^
36.00	1.01	0.31	1.00	0.31	0.90	2.00	0.30	5.00	^
36.05	1.01	0.31	1.00	0.31	0.90	2.00	0.30	5.00	^
36.10	1.01	0.31	1.00	0.31	0.90	2.00	0.30	5.00	^
36.15	1.01	0.31	1.00	0.31	0.90	2.00	0.30	5.00	^
36.20	1.01	0.31	1.00	0.31	0.90	2.00	0.30	5.00	^
36.25	1.01	0.31	1.00	0.31</					

37.50	1.04	0.30	1.00	0.30	0.90	2.00	0.30	5.00	^
37.55	1.05	0.31	1.00	0.31	0.90	2.00	0.29	5.00	^
37.60	1.05	0.31	1.00	0.31	0.90	2.00	0.29	5.00	^
37.65	1.05	0.31	1.00	0.31	0.90	2.00	0.29	5.00	^
37.70	1.05	0.31	1.00	0.31	0.90	2.00	0.29	5.00	^
37.75	1.05	0.32	1.00	0.32	0.90	2.00	0.29	5.00	^
37.80	1.05	0.32	1.00	0.32	0.90	2.00	0.29	5.00	^
37.85	1.05	0.32	1.00	0.32	0.90	2.00	0.29	5.00	^
37.90	1.05	0.32	1.00	0.32	0.90	2.00	0.29	5.00	^
37.95	1.06	0.33	1.00	0.33	0.90	2.00	0.29	5.00	^
38.00	1.06	0.33	1.00	0.33	0.90	2.00	0.29	5.00	^
38.05	1.06	0.33	1.00	0.33	0.90	2.00	0.29	5.00	^
38.10	1.06	0.34	1.00	0.34	0.90	2.00	0.29	5.00	^
38.15	1.06	0.34	1.00	0.34	0.90	2.00	0.29	5.00	^
38.20	1.06	0.34	1.00	0.34	0.90	2.00	0.29	5.00	^
38.25	1.06	0.35	1.00	0.34	0.90	2.00	0.29	5.00	^
38.30	1.06	0.35	1.00	0.35	0.90	2.00	0.29	5.00	^
38.35	1.07	0.35	1.00	0.35	0.90	2.00	0.29	5.00	^
38.40	1.07	0.36	1.00	0.35	0.90	2.00	0.29	5.00	^
38.45	1.07	0.36	1.00	0.36	0.90	2.00	0.29	5.00	^
38.50	1.07	0.36	1.00	0.36	0.90	2.00	0.29	5.00	^
38.55	1.07	0.37	1.00	0.37	0.90	2.00	0.29	5.00	^
38.60	1.07	0.37	0.99	0.37	0.90	2.00	0.29	5.00	^
38.65	1.07	0.38	0.99	0.38	0.90	2.00	0.29	5.00	^
38.70	1.07	0.38	0.99	0.38	0.90	2.00	0.29	5.00	^
38.75	1.07	0.39	0.99	0.39	0.90	2.00	0.29	5.00	^
38.80	1.08	0.40	0.99	0.40	0.90	2.00	0.29	5.00	^
38.85	1.08	0.41	0.99	0.40	0.90	2.00	0.29	5.00	^
38.90	1.08	0.42	0.99	0.41	0.90	2.00	0.29	5.00	^
38.95	1.08	0.43	0.99	0.43	0.90	2.00	0.29	5.00	^
39.00	1.08	0.45	0.99	0.44	0.90	2.00	0.29	5.00	^
39.05	1.08	0.46	0.99	0.46	0.90	2.00	0.29	5.00	^
39.10	1.08	0.49	0.99	0.48	0.90	2.00	0.29	5.00	^
39.15	1.08	0.50	0.99	0.50	0.90	2.00	0.29	5.00	^
39.20	1.09	0.50	0.99	0.50	0.90	2.00	0.29	5.00	^
39.25	1.09	0.50	0.99	0.50	0.90	2.00	0.29	5.00	^
39.30	1.09	0.50	0.99	0.50	0.90	2.00	0.29	5.00	^
39.35	1.09	0.50	0.99	0.50	0.90	2.00	0.29	5.00	^
39.40	1.09	0.50	0.99	0.50	0.90	2.00	0.29	5.00	^
39.45	1.09	0.50	0.99	0.50	0.90	2.00	0.29	5.00	^
39.50	1.09	0.50	0.99	0.50	0.90	2.00	0.29	5.00	^
39.55	1.09	0.50	0.99	0.50	0.90	2.00	0.29	5.00	^
39.60	1.09	0.50	0.99	0.50	0.90	2.00	0.29	5.00	^
39.65	1.10	0.50	0.99	0.50	0.90	2.00	0.29	5.00	^
39.70	1.10	0.50	0.99	0.50</					

40.95	1.13	0.50	0.99	0.49	0.90	2.00	0.29	5.00	^
41.00	1.13	0.44	0.99	0.43	0.90	2.00	0.29	5.00	^
41.05	1.13	0.41	0.99	0.41	0.90	2.00	0.29	5.00	^
41.10	1.13	0.40	0.99	0.39	0.90	2.00	0.29	5.00	^
41.15	1.13	0.38	0.99	0.38	0.90	2.00	0.29	5.00	^
41.20	1.13	0.37	0.99	0.37	0.90	2.00	0.28	5.00	^
41.25	1.14	0.37	0.99	0.36	0.90	2.00	0.28	5.00	^
41.30	1.14	0.36	0.98	0.35	0.90	2.00	0.28	5.00	^
41.35	1.14	0.35	0.98	0.35	0.90	2.00	0.28	5.00	^
41.40	1.14	0.34	0.98	0.34	0.90	2.00	0.28	5.00	^
41.45	1.14	0.34	0.98	0.33	0.90	2.00	0.28	5.00	^
41.50	1.14	0.33	0.98	0.33	0.90	2.00	0.28	5.00	^
41.55	1.14	0.33	0.98	0.32	0.90	2.00	0.28	5.00	^
41.60	1.14	0.32	0.98	0.32	0.90	2.00	0.28	5.00	^
41.65	1.15	0.32	0.98	0.31	0.90	2.00	0.28	5.00	^
41.70	1.15	0.31	0.98	0.31	0.90	2.00	0.28	5.00	^
41.75	1.15	0.31	0.98	0.30	0.90	2.00	0.28	5.00	^
41.80	1.15	0.30	0.98	0.30	0.90	2.00	0.28	5.00	^
41.85	1.15	0.30	0.98	0.29	0.90	2.00	0.28	5.00	^
41.90	1.15	0.30	0.98	0.29	0.90	2.00	0.28	5.00	^
41.95	1.15	0.29	0.98	0.29	0.90	2.00	0.28	5.00	^
42.00	1.15	0.29	0.98	0.28	0.90	2.00	0.28	5.00	^
42.05	1.16	0.29	0.98	0.29	0.90	2.00	0.28	5.00	^
42.10	1.16	0.29	0.98	0.29	0.90	2.00	0.28	5.00	^
42.15	1.16	0.30	0.98	0.29	0.90	2.00	0.28	5.00	^
42.20	1.16	0.30	0.98	0.29	0.90	2.00	0.28	5.00	^
42.25	1.16	0.30	0.98	0.30	0.90	2.00	0.28	5.00	^
42.30	1.16	0.31	0.98	0.30	0.90	2.00	0.28	5.00	^
42.35	1.16	0.31	0.98	0.30	0.90	2.00	0.28	5.00	^
42.40	1.16	0.31	0.98	0.31	0.90	2.00	0.28	5.00	^
42.45	1.17	0.31	0.98	0.31	0.90	2.00	0.28	5.00	^
42.50	1.17	0.32	0.98	0.31	0.90	2.00	0.28	5.00	^
42.55	1.17	0.32	0.98	0.32	0.90	2.00	0.28	5.00	^
42.60	1.17	0.33	0.98	0.32	0.90	2.00	0.28	5.00	^
42.65	1.17	0.33	0.98	0.32	0.90	2.00	0.28	5.00	^
42.70	1.17	0.33	0.98	0.33	0.90	2.00	0.28	5.00	^
42.75	1.17	0.34	0.98	0.33	0.90	2.00	0.28	5.00	^
42.80	1.17	0.34	0.98	0.33	0.90	2.00	0.28	5.00	^
42.85	1.18	0.34	0.98	0.34	0.90	2.00	0.28	5.00	^
42.90	1.18	0.35	0.98	0.34	0.90	2.00	0.28	5.00	^
42.95	1.18	0.35	0.98	0.35	0.90	2.00	0.28	5.00	^
43.00	1.18	0.36	0.98	0.35	0.90	2.00	0.28	5.00	^
43.05	1.18	0.36	0.98	0.36	0.90	2.00	0.28	5.00	^
43.10	1.18	0.37	0.98	0.36	0.90	2.00	0.28	5.00	^
43.15	1.18	0.38	0.98	0.37	0.90	2.00	0.28	5.00	^
43.20	1.18	0.38	0.98	0.37	0.90	2.00	0.28	5.00	^
43.25	1.19	0.39	0.98	0.38	0.90	2.00	0.28	5.00	^
43.30	1.19	0.40	0.98	0.39	0.90	2.00	0.28	5.00	^
43.35	1.19	0.41	0.98	0.40	0.90	2.00	0.28	5.00	^
43.40	1.19	0.43	0.98	0.42	0.90	2.00	0.28	5.00	^
43.45	1.19	0.45	0.98	0.44	0.90	2.00	0.28	5.00	^
43.50	1.19	0.50	0.98	0.49	0.90	2.00	0.28	5.00	^
43.55	1.19	0.43	0.98	0.42	0.90	2.00	0.28	5.00	^
43.60	1.19	0.41	0.98	0.40	0.90	2.00	0.28	5.00	^
43.65	1.20	0.39	0.98	0.38	0.90	2.00	0.28	5.00	^
43.70	1.20	0.38	0.98	0.37	0.90	2.00	0.28	5.00	^
43.75	1.20	0.37	0.98	0.36	0.90	2.00	0.28	5.00	^
43.80	1.20	0.36	0.98	0.35	0.90	2.00	0.28	5.00	^
43.85	1.20	0.35	0.98	0.34	0.90	2.00	0.28	5.00	^
43.90	1.20	0.34	0.97	0.33	0.90	2.00	0.28	5.00	^
43.95	1.20	0.34	0.97	0.33	0.90	2.00	0.28	5.00	^
44.00	1.20	0.33	0.97	0.32	0.90	2.00	0.28	5.00	^
44.05	1.21	0.32	0.97	0.32	0.90	2.00	0.28	5.00	^
44.10	1.21	0.32	0.97	0.31	0.90	2.00	0.28	5.00	^
44.15	1.21	0.31	0.97	0.30	0.90	2.00	0.28	5.00	^
44.20	1.21	0.31	0.97	0.30	0.90	2.00	0.28	5.00	^
44.25	1.21	0.30	0.97	0.29	0.90	2.00	0.28	5.00	^
44.30	1.21	0.30	0.97	0.29	0.90	2.00	0.28	5.00	^
44.35	1.21	0.29	0.97	0.29	0.90	2.00	0.28	5.00	^

44.40	1.22	0.29	0.97	0.28	0.90	2.00	0.28	5.00	^
44.45	1.22	0.28	0.97	0.28	0.90	2.00	0.28	5.00	^
44.50	1.22	0.28	0.97	0.27	0.90	2.00	0.28	5.00	^
44.55	1.22	0.28	0.97	0.27	0.90	2.00	0.28	5.00	^
44.60	1.22	0.27	0.97	0.26	0.90	2.00	0.28	5.00	^
44.65	1.22	0.27	0.97	0.26	0.90	2.00	0.28	5.00	^
44.70	1.22	0.26	0.97	0.26	0.90	2.00	0.28	5.00	^
44.75	1.22	0.26	0.97	0.25	0.90	2.00	0.28	5.00	^
44.80	1.23	0.26	0.97	0.25	0.90	2.00	0.27	5.00	^
44.85	1.23	0.25	0.97	0.25	0.90	2.00	0.27	5.00	^
44.90	1.23	0.25	0.97	0.24	0.90	2.00	0.27	5.00	^
44.95	1.23	0.25	0.97	0.24	0.90	2.00	0.27	5.00	^
45.00	1.23	0.24	0.97	0.24	0.90	2.00	0.27	5.00	^
45.05	1.23	0.25	0.97	0.24	0.90	2.00	0.27	5.00	^
45.10	1.23	0.25	0.97	0.24	0.90	2.00	0.27	5.00	^
45.15	1.24	0.25	0.97	0.24	0.90	2.00	0.27	5.00	^
45.20	1.24	0.25	0.97	0.24	0.90	2.00	0.27	5.00	^
45.25	1.24	0.25	0.97	0.25	0.90	2.00	0.27	5.00	^
45.30	1.24	0.26	0.97	0.25	0.90	2.00	0.27	5.00	^
45.35	1.24	0.26	0.97	0.25	0.90	2.00	0.27	5.00	^
45.40	1.24	0.26	0.97	0.25	0.90	2.00	0.27	5.00	^
45.45	1.24	0.26	0.97	0.25	0.90	2.00	0.27	5.00	^
45.50	1.24	0.26	0.97	0.26	0.90	2.00	0.27	5.00	^
45.55	1.25	0.27	0.97	0.26	0.90	2.00	0.27	5.00	^
45.60	1.25	0.27	0.97	0.26	0.90	2.00	0.27	5.00	^
45.65	1.25	0.27	0.97	0.26	0.90	2.00	0.27	5.00	^
45.70	1.25	0.27	0.97	0.27	0.90	2.00	0.27	5.00	^
45.75	1.25	0.28	0.97	0.27	0.90	2.00	0.27	5.00	^
45.80	1.25	0.28	0.97	0.27	0.90	2.00	0.27	5.00	^
45.85	1.25	0.28	0.97	0.27	0.90	2.00	0.27	5.00	^
45.90	1.25	0.28	0.97	0.27	0.90	2.00	0.27	5.00	^
45.95	1.26	0.29	0.97	0.28	0.90	2.00	0.27	5.00	^
46.00	1.26	0.29	0.97	0.28	0.90	2.00	0.27	5.00	^
46.05	1.26	0.29	0.97	0.28	0.90	2.00	0.27	5.00	^
46.10	1.26	0.29	0.97	0.28	0.90	2.00	0.27	5.00	^
46.15	1.26	0.30	0.97	0.29	0.90	2.00	0.27	5.00	^
46.20	1.26	0.30	0.97	0.29	0.90	2.00	0.27	5.00	^
46.25	1.26	0.30	0.97	0.29	0.90	2.00	0.27	5.00	^
46.30	1.27	0.31	0.97	0.30	0.90	2.00	0.27	5.00	^
46.35	1.27	0.31	0.97	0.30	0.90	2.00	0.27	5.00	^
46.40	1.27	0.31	0.97	0.30	0.90	2.00	0.27	5.00	^
46.45	1.27	0.31	0.97	0.30	0.90	2.00	0.27	5.00	^
46.50	1.27	0.32	0.96	0.31	0.90	2.00	0.27	5.00	^
46.55	1.27	0.32	0.96	0.31	0.90	2.00	0.27	5.00	^
46.60	1.27	0.32	0.96	0.30</					

47.85	1.31	0.29	0.96	0.28	0.90	2.00	0.27	5.00	^
47.90	1.31	0.29	0.96	0.28	0.90	2.00	0.27	5.00	^
47.95	1.31	0.29	0.96	0.28	0.90	2.00	0.27	5.00	^
48.00	1.31	0.29	0.96	0.28	0.90	2.00	0.27	5.00	^
48.05	1.31	0.30	0.96	0.28	0.90	0.26	0.27	5.00	
48.10	1.31	0.31	0.96	0.29	0.90	0.26	0.27	5.00	
48.15	1.32	0.31	0.96	0.30	0.90	0.27	0.27	5.00	
48.20	1.32	0.32	0.96	0.31	0.90	0.28	0.27	5.00	
48.25	1.32	0.33	0.96	0.32	0.90	0.29	0.27	5.00	
48.30	1.32	0.34	0.96	0.33	0.90	0.30	0.27	5.00	
48.35	1.32	0.36	0.96	0.34	0.90	0.31	0.27	5.00	
48.40	1.32	0.37	0.96	0.35	0.90	0.32	0.27	5.00	
48.45	1.32	0.39	0.96	0.37	0.90	0.34	0.26	5.00	
48.50	1.33	0.42	0.96	0.40	0.90	0.36	0.26	5.00	
48.55	1.33	0.50	0.96	0.48	0.90	0.43	0.26	5.00	
48.60	1.33	0.50	0.96	0.48	0.90	0.43	0.26	5.00	
48.65	1.33	0.50	0.96	0.48	0.90	0.43	0.26	5.00	
48.70	1.33	0.50	0.96	0.48	0.90	0.43	0.26	5.00	
48.75	1.33	0.50	0.96	0.48	0.90	0.43	0.26	5.00	
48.80	1.33	0.50	0.96	0.48	0.90	0.43	0.26	5.00	
48.85	1.34	0.50	0.96	0.48	0.90	0.43	0.26	5.00	
48.90	1.34	0.50	0.96	0.48	0.90	0.43	0.26	5.00	
48.95	1.34	0.50	0.96	0.48	0.90	0.43	0.26	5.00	
49.00	1.34	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.05	1.34	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.10	1.34	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.15	1.34	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.20	1.35	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.25	1.35	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.30	1.35	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.35	1.35	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.40	1.35	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.45	1.35	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.50	1.35	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.55	1.36	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.60	1.36	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.65	1.36	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.70	1.36	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.75	1.36	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.80	1.36	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.85	1.36	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.90	1.37	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
49.95	1.37	0.50	0.95	0.48	0.90	0.43	0.26	5.00	
50.00	1.37	0.50	0.95	0.48	0.90	0.43	0.26	5.00	

* F.S.<1: Liquefaction Potential Zone. (If above water table: F.S.=5)

^ No-liquefiable Soils or above Water Table.

(F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

CPT convert to SPT for Settlement Analysis:

Fines Correction for Settlement Analysis:

Depth ft	Ic	qc/N60	qc1 atm	(N1)60	Fines %	d(N1)60	(N1)60s
1.50	-	-	-	37.99	NoLiq	0.00	37.99
1.55	-	-	-	38.28	NoLiq	0.00	38.28
1.60	-	-	-	38.58	NoLiq	0.00	38.58
1.65	-	-	-	38.87	NoLiq	0.00	38.87
1.70	-	-	-	39.16	NoLiq	0.00	39.16
1.75	-	-	-	39.46	NoLiq	0.00	39.46
1.80	-	-	-	39.75	NoLiq	0.00	39.75
1.85	-	-	-	40.04	NoLiq	0.00	40.04
1.90	-	-	-	40.34	NoLiq	0.00	40.34
1.95	-	-	-	40.63	NoLiq	0.00	40.63
2.00	-	-	-	40.92	NoLiq	0.00	40.92
2.05	-	-	-	41.22	NoLiq	0.00	41.22
2.10	-	-	-	41.51	NoLiq	0.00	41.51
2.15	-	-	-	41.80	NoLiq	0.00	41.80

2.20	-	-	-	42.10	NoLiq	0.00	42.10
2.25	-	-	-	42.39	NoLiq	0.00	42.39
2.30	-	-	-	42.68	NoLiq	0.00	42.68
2.35	-	-	-	42.98	NoLiq	0.00	42.98
2.40	-	-	-	43.27	NoLiq	0.00	43.27
2.45	-	-	-	43.56	NoLiq	0.00	43.56
2.50	-	-	-	43.86	NoLiq	0.00	43.86
2.55	-	-	-	44.15	NoLiq	0.00	44.15
2.60	-	-	-	44.44	NoLiq	0.00	44.44
2.65	-	-	-	44.74	NoLiq	0.00	44.74
2.70	-	-	-	45.03	NoLiq	0.00	45.03
2.75	-	-	-	45.32	NoLiq	0.00	45.32
2.80	-	-	-	45.62	NoLiq	0.00	45.62
2.85	-	-	-	45.91	NoLiq	0.00	45.91
2.90	-	-	-	46.20	NoLiq	0.00	46.20
2.95	-	-	-	46.50	NoLiq	0.00	46.50
3.00	-	-	-	46.79	NoLiq	0.00	46.79
3.05	-	-	-	46.72	NoLiq	0.00	46.72
3.10	-	-	-	46.64	NoLiq	0.00	46.64
3.15	-	-	-	46.57	NoLiq	0.00	46.57
3.20	-	-	-	46.50	NoLiq	0.00	46.50
3.25	-	-	-	46.42	NoLiq	0.00	46.42
3.30	-	-	-	46.35	NoLiq	0.00	46.35
3.35	-	-	-	46.28	NoLiq	0.00	46.28
3.40	-	-	-	46.20	NoLiq	0.00	46.20
3.45	-	-	-	46.13	NoLiq	0.00	46.13
3.50	-	-	-	46.06	NoLiq	0.00	46.06
3.55	-	-	-	45.98	NoLiq	0.00	45.98
3.60	-	-	-	45.91	NoLiq	0.00	45.91
3.65	-	-	-	45.84	NoLiq	0.00	45.84
3.70	-	-	-	45.76	NoLiq	0.00	45.76
3.75	-	-	-	45.69	NoLiq	0.00	45.69
3.80	-	-	-	45.62	NoLiq	0.00	45.62
3.85	-	-	-	45.54	NoLiq	0.00	45.54
3.90	-	-	-	45.47	NoLiq	0.00	45.47
3.95	-	-	-	45.40	NoLiq	0.00	45.40
4.00	-	-	-	45.32	NoLiq	0.00	45.32
4.05	-	-	-	45.25	NoLiq	0.00	45.25
4.10	-	-	-	45.18	NoLiq	0.00	45.18
4.15	-	-	-	45.10	NoLiq	0.00	45.10
4.20	-	-	-	45.03	NoLiq	0.00	45.03
4.25	-	-	-	44.96	NoLiq	0.00	44.96
4.30	-	-	-	44.88	NoLiq	0.00	44.88
4.35	-	-	-	44.81	NoLiq	0.00	44.81
4.40	-	-	-	44.74	NoLiq	0.00	44.74
4.45	-	-	-	44.66	NoLiq	0.00	44.66
4.50	-	-	-	44.59	NoLiq	0.00	44.59
4.55	-	-	-	44.96	47.77	0.00	44.96
4.60	-	-	-	45.32	46.53	0.00	45.32
4.65	-	-	-	45.69	45.30	0.00	45.69
4.70	-	-	-	46.06	44.07	0.00	46.06
4.75	-	-	-	46.42	42.83	0.00	46.42
4.80	-	-	-	46.79	41.60	0.00	46.79
4.85	-	-	-	47.16	40.37	0.00	47.16
4.90	-	-	-	47.52	39.13	0.00	47.52
4.95	-	-	-	47.89	37.90	0.00	47.89
5.00	-	-	-	48.26	36.67	0.00	48.26
5.05	-	-	-	48.62	35.43	0.00	48.62
5.10	-	-	-	48.80	34.20	0.00	48.80
5.15	-	-	-	48.87	32.97	0.00	48.87
5.20	-	-	-	48.94	31.73	0.00	48.94
5.25	-	-	-	49.01	30.50	0.00	49.01
5.30	-	-	-	49.08	29.27	0.00	49.08
5.35	-	-	-	49.15	28.03	0.00	49.15
5.40	-	-	-	49.22	26.80	0.00	49.22
5.45	-	-	-	49.29	25.57	0.00	49.29
5.50	-	-	-	49.36	24.33	0.00	49.36
5.55	-	-	-	49.43	23.10	0.00	49.43
5.60	-	-	-	49.50	21.87	0.00	49.50

5.65	-	-	-	49.57	20.63	0.00	49.57
5.70	-	-	-	49.64	19.40	0.00	49.64
5.75	-	-	-	49.71	18.17	0.00	49.71
5.80	-	-	-	49.78	16.93	0.00	49.78
5.85	-	-	-	49.85	15.70	0.00	49.85
5.90	-	-	-	49.93	14.47	0.00	49.93
5.95	-	-	-	50.00	13.23	0.00	50.00
6.00	-	-	-	50.07	12.00	0.00	50.07
6.05	-	-	-	49.96	12.17	0.00	49.96
6.10	-	-	-	49.85	12.33	0.00	49.85
6.15	-	-	-	49.75	12.50	0.00	49.75
6.20	-	-	-	49.64	12.67	0.00	49.64
6.25	-	-	-	49.53	12.83	0.00	49.53
6.30	-	-	-	49.43	13.00	0.00	49.43
6.35	-	-	-	49.32	13.17	0.00	49.32
6.40	-	-	-	49.21	13.33	0.00	49.21
6.45	-	-	-	49.11	13.50	0.00	49.11
6.50	-	-	-	49.00	13.67	0.00	49.00
6.55	-	-	-	48.89	13.83	0.00	48.89
6.60	-	-	-	48.79	14.00	0.00	48.79
6.65	-	-	-	48.68	14.17	0.00	48.68
6.70	-	-	-	48.57	14.33	0.00	48.57
6.75	-	-	-	48.47	14.50	0.00	48.47
6.80	-	-	-	48.36	14.67	0.00	48.36
6.85	-	-	-	48.25	14.83	0.00	48.25
6.90	-	-	-	48.15	15.00	0.00	48.15
6.95	-	-	-	48.04	15.17	0.00	48.04
7.00	-	-	-	47.93	15.33	0.00	47.93
7.05	-	-	-	47.83	15.50	0.00	47.83
7.10	-	-	-	47.72	15.67	0.00	47.72
7.15	-	-	-	47.61	15.83	0.00	47.61
7.20	-	-	-	47.51	16.00	0.00	47.51
7.25	-	-	-	47.40	16.17	0.00	47.40
7.30	-	-	-	47.29	16.33	0.00	47.29
7.35	-	-	-	47.19	16.50	0.00	47.19
7.40	-	-	-	47.08	16.67	0.00	47.08
7.45	-	-	-	46.97	16.83	0.00	46.97
7.50	-	-	-	46.87	17.00	0.00	46.87
7.55	-	-	-	47.02	17.63	0.00	47.02
7.60	-	-	-	47.17	18.27	0.00	47.17
7.65	-	-	-	47.32	18.90	0.00	47.32
7.70	-	-	-	47.48	19.53	0.00	47.48
7.75	-	-	-	47.63	20.17	0.00	47.63
7.80	-	-	-	47.78	20.80	0.00	47.78
7.85	-	-	-	47.93	21.43	0.00	47.93
7.90	-	-	-	48.08	22.07	0.00	48.08
7.95	-	-	-	48.08	22.70	0.00	48.08
8.00	-	-	-	48.08	23.33	0.00	48.08
8.05	-	-	-	48.08	23.97	0.00	48.08
8.10	-	-	-	48.08	24.60	0.00	48.08
8.15	-	-	-	48.08	25.23	0.00	48.08
8.20	-	-	-	48.09	25.87	0.00	48.09
8.25	-	-	-	53.82	26.50	0.00	53.82
8.30	-	-	-	53.81	27.13	0.00	53.81
8.35	-	-	-	53.80	27.77	0.00	53.80
8.40	-	-	-	53.80	28.40	0.00	53.80
8.45	-	-	-	53.79	29.03	0.00	53.79
8.50	-	-	-	53.79	29.67	0.00	53.79
8.55	-	-	-	53.79	30.30	0.00	53.79
8.60	-	-	-	53.80	30.93	0.00	53.80
8.65	-	-	-	53.80	31.57	0.00	53.80
8.70	-	-	-	53.81	32.20	0.00	53.81
8.75	-	-	-	53.82	32.83	0.00	53.82
8.80	-	-	-	53.83	33.47	0.00	53.83
8.85	-	-	-	53.85	34.10	0.00	53.85
8.90	-	-	-	53.86	34.73	0.00	53.86
8.95	-	-	-	53.79	35.37	0.00	53.79
9.00	-	-	-	53.66	36.00	0.00	53.66
9.05	-	-	-	53.53	36.00	0.00	53.53

9.10	-	-	-	53.39	36.00	0.00	53.39
9.15	-	-	-	53.26	36.00	0.00	53.26
9.20	-	-	-	53.13	36.00	0.00	53.13
9.25	-	-	-	53.01	36.00	0.00	53.01
9.30	-	-	-	52.88	36.00	0.00	52.88
9.35	-	-	-	52.75	36.00	0.00	52.75
9.40	-	-	-	52.62	36.00	0.00	52.62
9.45	-	-	-	52.49	36.00	0.00	52.49
9.50	-	-	-	52.37	36.00	0.00	52.37
9.55	-	-	-	52.24	36.00	0.00	52.24
9.60	-	-	-	52.12	36.00	0.00	52.12
9.65	-	-	-	51.99	36.00	0.00	51.99
9.70	-	-	-	51.87	36.00	0.00	51.87
9.75	-	-	-	51.74	36.00	0.00	51.74
9.80	-	-	-	51.62	36.00	0.00	51.62
9.85	-	-	-	51.50	36.00	0.00	51.50
9.90	-	-	-	51.37	36.00	0.00	51.37
9.95	-	-	-	51.25	36.00	0.00	51.25
10.00	-	-	-	51.13	36.00	0.00	51.13
10.05	-	-	-	51.01	36.00	0.00	51.01
10.10	-	-	-	50.89	36.00	0.00	50.89
10.15	-	-	-	50.77	36.00	0.00	50.77
10.20	-	-	-	50.65	36.00	0.00	50.65
10.25	-	-	-	50.53	36.00	0.00	50.53
10.30	-	-	-	50.41	36.00	0.00	50.41
10.35	-	-	-	50.29	36.00	0.00	50.29
10.40	-	-	-	50.18	36.00	0.00	50.18
10.45	-	-	-	50.06	36.00	0.00	50.06
10.50	-	-	-	49.94	36.00	0.00	49.94
10.55	-	-	-	50.67	34.93	0.00	50.67
10.60	-	-	-	51.14	33.87	0.00	51.14
10.65	-	-	-	51.62	32.80	0.00	51.62
10.70	-	-	-	52.08	31.73	0.00	52.08
10.75	-	-	-	52.55	30.67	0.00	52.55
10.80	-	-	-	53.01	29.60	0.00	53.01
10.85	-	-	-	53.47	28.53	0.00	53.47
10.90	-	-	-	53.93	27.47	0.00	53.93
10.95	-	-	-	54.38	26.40	0.00	54.38
11.00	-	-	-	54.83	25.33	0.00	54.83
11.05	-	-	-	55.27	24.27	0.00	55.27
11.10	-	-	-	55.71	23.20	0.00	55.71
11.15	-	-	-	56.15	22.13	0.00	56.15
11.20	-	-	-	56.58	21.07	0.00	56.58
11.25	-	-	-	57.02	20.00	0.00	57.02
11.30	-	-	-	57.44	18.93	0.00	57.44
11.35	-	-	-	57.87	17.87	0.00	57.87
11.40	-	-	-	58.29	16.80	0.00	58.29
11.45	-	-	-	58.71	15.73	0.00	58.71
11.50	-	-	-	59.12	14.67	0.00	59.12
11.55	-	-	-	59.53	13.60	0.00	59.53
11.60	-	-	-	59.94	12.53	0.00	59.94
11.65	-	-	-	60.35	11.47	0.00	60.35
11.70	-	-	-	60.75	10.40	0.00	60.75
11.75	-	-	-	61.15	9.33	0.00	61.15
11.80	-	-	-	61.55	8.27	0.00	61.55
11.85	-	-	-	61.94	7.20	0.00	61.94
11.90	-	-	-	62.33	6.13	0.00	62.33
11.95	-	-	-	62.72	5.07	0.00	62.72
12.00	-	-	-	63.35	4.00	0.00	63.35
12.05	-	-	-	63.39	4.00	0.00	63.39
12.10	-	-	-	63.44	4.00	0.00	63.44
12.15	-	-	-	63.49	4.00	0.00	63.49
12.20	-	-	-	63.53	4.00	0.00	63.53
12.25	-	-	-	63.58	4.00	0.00	63.58
12.30	-	-	-	63.62	4.00	0.00	63.62
12.35	-	-	-	63.67	4.00	0.00	63.67
12.40	-	-	-	63.72	4.00	0.00	63.72
12.45	-	-	-	63.76	4.00	0.00	63.76
12.50	-	-	-	63.81	4.00	0.00	63.81

12.55	-	-	-	63.86	4.00	0.00	63.86
12.60	-	-	-	63.91	4.00	0.00	63.91
12.65	-	-	-	63.95	4.00	0.00	63.95
12.70	-	-	-	64.00	4.00	0.00	64.00
12.75	-	-	-	64.05	4.00	0.00	64.05
12.80	-	-	-	64.09	4.00	0.00	64.09
12.85	-	-	-	64.14	4.00	0.00	64.14
12.90	-	-	-	64.19	4.00	0.00	64.19
12.95	-	-	-	64.24	4.00	0.00	64.24
13.00	-	-	-	64.28	4.00	0.00	64.28
13.05	-	-	-	64.33	4.00	0.00	64.33
13.10	-	-	-	64.38	4.00	0.00	64.38
13.15	-	-	-	64.43	4.00	0.00	64.43
13.20	-	-	-	64.48	4.00	0.00	64.48
13.25	-	-	-	64.52	4.00	0.00	64.52
13.30	-	-	-	64.57	4.00	0.00	64.57
13.35	-	-	-	64.62	4.00	0.00	64.62
13.40	-	-	-	64.67	4.00	0.00	64.67
13.45	-	-	-	64.72	4.00	0.00	64.72
13.50	-	-	-	64.76	4.00	0.00	64.76
13.55	-	-	-	63.67	5.10	0.00	63.67
13.60	-	-	-	62.82	6.20	0.00	62.82
13.65	-	-	-	61.97	7.30	0.00	61.97
13.70	-	-	-	61.13	8.40	0.00	61.13
13.75	-	-	-	60.29	9.50	0.00	60.29
13.80	-	-	-	59.46	10.60	0.00	59.46
13.85	-	-	-	58.64	11.70	0.00	58.64
13.90	-	-	-	57.82	12.80	0.00	57.82
13.95	-	-	-	57.00	13.90	0.00	57.00
14.00	-	-	-	56.19	15.00	0.00	56.19
14.05	-	-	-	55.39	16.10	0.00	55.39
14.10	-	-	-	54.59	17.20	0.00	54.59
14.15	-	-	-	53.79	18.30	0.00	53.79
14.20	-	-	-	53.00	19.40	0.00	53.00
14.25	-	-	-	52.22	20.50	0.00	52.22
14.30	-	-	-	51.44	21.60	0.00	51.44
14.35	-	-	-	50.66	22.70	0.00	50.66
14.40	-	-	-	49.89	23.80	0.00	49.89
14.45	-	-	-	49.12	24.90	0.00	49.12
14.50	-	-	-	48.35	26.00	0.00	48.35
14.55	-	-	-	47.59	27.10	0.00	47.59
14.60	-	-	-	46.84	28.20	0.00	46.84
14.65	-	-	-	46.09	29.30	0.00	46.09
14.70	-	-	-	45.34	30.40	0.00	45.34
14.75	-	-	-	44.59	31.50	0.00	44.59
14.80	-	-	-	48.23	32.60	0.00	48.23
14.85	-	-	-	47.38	33.70	0.00	47.38
14.90	-	-	-	46.53	34.80	0.00	46.53
14.95	-	-	-	45.47	35.90	0.00	45.47
15.00	-	-	-	44.36	37.00	0.00	44.36
15.05	-	-	-	43.98	37.00	0.00	43.98
15.10	-	-	-	43.59	37.00	0.00	43.59
15.15	-	-	-	43.21	37.00	0.00	43.21
15.20	-	-	-	42.83	37.00	0.00	42.83
15.25	-	-	-	42.45	37.00	0.00	42.45
15.30	-	-	-	42.07	37.00	0.00	42.07
15.35	-	-	-	41.69	37.00	0.00	41.69
15.40	-	-	-	41.31	37.00	0.00	41.31
15.45	-	-	-	40.94	37.00	0.00	40.94
15.50	-	-	-	40.56	37.00	0.00	40.56
15.55	-	-	-	40.19	37.00	0.00	40.19
15.60	-	-	-	39.82	37.00	0.00	39.82
15.65	-	-	-	39.45	37.00	0.00	39.45
15.70	-	-	-	39.08	37.00	0.00	39.08
15.75	-	-	-	38.71	37.00	0.00	38.71
15.80	-	-	-	38.34	37.00	0.00	38.34
15.85	-	-	-	37.97	37.00	0.00	37.97
15.90	-	-	-	37.61	37.00	0.00	37.61
15.95	-	-	-	37.24	37.00	0.00	37.24

16.00	-	-	-	36.88	37.00	0.00	36.88
16.05	-	-	-	36.52	37.00	0.00	36.52
16.10	-	-	-	36.16	37.00	0.00	36.16
16.15	-	-	-	35.80	37.00	0.00	35.80
16.20	-	-	-	35.44	37.00	0.00	35.44
16.25	-	-	-	35.08	37.00	0.00	35.08
16.30	-	-	-	34.72	37.00	0.00	34.72
16.35	-	-	-	34.37	37.00	0.00	34.37
16.40	-	-	-	34.01	37.00	0.00	34.01
16.45	-	-	-	33.66	37.00	0.00	33.66
16.50	-	-	-	33.31	37.00	0.00	33.31
16.55	-	-	-	33.27	39.13	0.00	33.27
16.60	-	-	-	33.23	41.27	0.00	33.23
16.65	-	-	-	33.19	43.40	0.00	33.19
16.70	-	-	-	33.15	45.53	0.00	33.15
16.75	-	-	-	33.11	47.67	0.00	33.11
16.80	-	-	-	33.07	49.80	0.00	33.07
16.85	-	-	-	33.03	51.93	0.00	33.03
16.90	-	-	-	32.99	54.07	0.00	32.99
16.95	-	-	-	32.96	56.20	0.00	32.96
17.00	-	-	-	32.92	58.33	0.00	32.92
17.05	-	-	-	32.88	60.47	0.00	32.88
17.10	-	-	-	32.85	62.60	0.00	32.85
17.15	-	-	-	32.81	64.73	0.00	32.81
17.20	-	-	-	32.77	66.87	0.00	32.77
17.25	-	-	-	32.74	69.00	0.00	32.74
17.30	-	-	-	32.70	71.13	0.00	32.70
17.35	-	-	-	32.67	73.27	0.00	32.67
17.40	-	-	-	32.63	75.40	0.00	32.63
17.45	-	-	-	32.60	77.53	0.00	32.60
17.50	-	-	-	32.57	79.67	0.00	32.57
17.55	-	-	-	32.53	81.80	0.00	32.53
17.60	-	-	-	32.50	83.93	0.00	32.50
17.65	-	-	-	32.47	86.07	0.00	32.47
17.70	-	-	-	32.43	88.20	0.00	32.43
17.75	-	-	-	32.40	90.33	0.00	32.40
17.80	-	-	-	32.37	92.47	0.00	32.37
17.85	-	-	-	32.34	94.60	0.00	32.34
17.90	-	-	-	32.31	96.73	0.00	32.31
17.95	-	-	-	32.28	98.87	0.00	32.28
18.00	-	-	-	32.25	NoLiq	0.00	32.25
18.05	-	-	-	32.45	NoLiq	0.00	32.45
18.10	-	-	-	32.66	NoLiq	0.00	32.66
18.15	-	-	-	32.87	NoLiq	0.00	32.87
18.20	-	-	-	33.07	NoLiq	0.00	33.07
18.25	-	-	-	33.28	NoLiq	0.00	33.28
18.30	-	-	-	33.49	NoLiq	0.00	33.49
18.35	-	-	-	33.69	NoLiq	0.00	33.69
18.40	-	-	-	33.90	NoLiq	0.00	33.90
18.45	-	-	-	34.10	NoLiq	0.00	34.10
18.50	-	-	-	34.31	NoLiq	0.00	34.31
18.55	-	-	-	34.51	NoLiq	0.00	34.51
18.60	-	-	-	34.71	NoLiq	0.00	34.71
18.65	-	-	-	34.92	NoLiq	0.00	34.92
18.70	-	-	-	35.12	NoLiq	0.00	35.12
18.75	-	-	-	35.32	NoLiq	0.00	35.32
18.80	-	-	-	35.52	NoLiq	0.00	35.52
18.85	-	-	-	35.72	NoLiq	0.00	35.72
18.90	-	-	-	35.93	NoLiq	0.00	35.93
18.95	-	-	-	36.13	NoLiq	0.00	36.13
19.00	-	-	-	36.33	NoLiq	0.00	36.33
19.05	-	-	-	36.53	NoLiq	0.00	36.53
19.10	-	-	-	36.73	NoLiq	0.00	36.73
19.15	-	-	-	36.93	NoLiq	0.00	36.93
19.20	-	-	-	37.12	NoLiq	0.00	37.12
19.25	-	-	-	37.32	NoLiq	0.00	37.32
19.30	-	-	-	37.52	NoLiq	0.00	37.52
19.35	-	-	-	37.72	NoLiq	0.00	37.72
19.40	-	-	-	37.92	NoLiq	0.00	37.92

19.45	-	-	-	38.12	NoLiq	0.00	38.12
19.50	-	-	-	38.31	NoLiq	0.00	38.31
19.55	-	-	-	38.39	NoLiq	0.00	38.39
19.60	-	-	-	38.48	NoLiq	0.00	38.48
19.65	-	-	-	38.56	NoLiq	0.00	38.56
19.70	-	-	-	38.64	NoLiq	0.00	38.64
19.75	-	-	-	38.72	NoLiq	0.00	38.72
19.80	-	-	-	38.80	NoLiq	0.00	38.80
19.85	-	-	-	38.88	NoLiq	0.00	38.88
19.90	-	-	-	38.96	NoLiq	0.00	38.96
19.95	-	-	-	39.04	NoLiq	0.00	39.04
20.00	-	-	-	39.12	NoLiq	0.00	39.12
20.05	-	-	-	39.20	NoLiq	0.00	39.20
20.10	-	-	-	39.28	NoLiq	0.00	39.28
20.15	-	-	-	39.36	NoLiq	0.00	39.36
20.20	-	-	-	39.44	NoLiq	0.00	39.44
20.25	-	-	-	39.52	NoLiq	0.00	39.52
20.30	-	-	-	39.60	NoLiq	0.00	39.60
20.35	-	-	-	39.68	NoLiq	0.00	39.68
20.40	-	-	-	39.76	NoLiq	0.00	39.76
20.45	-	-	-	39.84	NoLiq	0.00	39.84
20.50	-	-	-	39.92	NoLiq	0.00	39.92
20.55	-	-	-	40.00	NoLiq	0.00	40.00
20.60	-	-	-	40.08	NoLiq	0.00	40.08
20.65	-	-	-	40.16	NoLiq	0.00	40.16
20.70	-	-	-	40.23	NoLiq	0.00	40.23
20.75	-	-	-	40.31	NoLiq	0.00	40.31
20.80	-	-	-	40.39	NoLiq	0.00	40.39
20.85	-	-	-	40.47	NoLiq	0.00	40.47
20.90	-	-	-	40.55	NoLiq	0.00	40.55
20.95	-	-	-	40.62	NoLiq	0.00	40.62
21.00	-	-	-	40.70	NoLiq	0.00	40.70
21.05	-	-	-	40.61	NoLiq	0.00	40.61
21.10	-	-	-	40.52	NoLiq	0.00	40.52
21.15	-	-	-	40.43	NoLiq	0.00	40.43
21.20	-	-	-	40.35	NoLiq	0.00	40.35
21.25	-	-	-	40.26	NoLiq	0.00	40.26
21.30	-	-	-	40.17	NoLiq	0.00	40.17
21.35	-	-	-	40.08	NoLiq	0.00	40.08
21.40	-	-	-	39.99	NoLiq	0.00	39.99
21.45	-	-	-	39.90	NoLiq	0.00	39.90
21.50	-	-	-	39.82	NoLiq	0.00	39.82
21.55	-	-	-	39.73	NoLiq	0.00	39.73
21.60	-	-	-	39.64	NoLiq	0.00	39.64
21.65	-	-	-	39.55	NoLiq	0.00	39.55
21.70	-	-	-	39.47	NoLiq	0.00	39.47
21.75	-	-	-	39.38	NoLiq	0.00	39.38
21.80	-	-	-	39.29	NoLiq	0.00	39.29
21.85	-	-	-	39.21	NoLiq	0.00	39.21
21.90	-	-	-	39.12	NoLiq	0.00	39.12
21.95	-	-	-	39.03	NoLiq	0.00	39.03
22.00	-	-	-	38.95	NoLiq	0.00	38.95
22.05	-	-	-	38.86	NoLiq	0.00	38.86
22.10	-	-	-	38.78	NoLiq	0.00	38.78
22.15	-	-	-	38.69	NoLiq	0.00	38.69
22.20	-	-	-	38.60	NoLiq	0.00	38.60
22.25	-	-	-	38.52	NoLiq	0.00	38.52
22.30	-	-	-	38.43	NoLiq	0.00	38.43
22.35	-	-	-	38.35	NoLiq	0.00	38.35
22.40	-	-	-	38.27	NoLiq	0.00	38.27
22.45	-	-	-	38.18	NoLiq	0.00	38.18
22.50	-	-	-	38.10	NoLiq	0.00	38.10
22.55	-	-	-	38.12	NoLiq	0.00	38.12
22.60	-	-	-	38.14	NoLiq	0.00	38.14
22.65	-	-	-	38.17	NoLiq	0.00	38.17
22.70	-	-	-	38.19	NoLiq	0.00	38.19
22.75	-	-	-	38.22	NoLiq	0.00	38.22
22.80	-	-	-	38.24	NoLiq	0.00	38.24
22.85	-	-	-	38.26	NoLiq	0.00	38.26

22.90	-	-	-	38.29	NoLiq	0.00	38.29
22.95	-	-	-	38.31	NoLiq	0.00	38.31
23.00	-	-	-	38.34	NoLiq	0.00	38.34
23.05	-	-	-	38.36	NoLiq	0.00	38.36
23.10	-	-	-	38.38	NoLiq	0.00	38.38
23.15	-	-	-	38.41	NoLiq	0.00	38.41
23.20	-	-	-	38.43	NoLiq	0.00	38.43
23.25	-	-	-	38.46	NoLiq	0.00	38.46
23.30	-	-	-	38.48	NoLiq	0.00	38.48
23.35	-	-	-	38.50	NoLiq	0.00	38.50
23.40	-	-	-	38.53	NoLiq	0.00	38.53
23.45	-	-	-	38.55	NoLiq	0.00	38.55
23.50	-	-	-	38.57	NoLiq	0.00	38.57
23.55	-	-	-	38.60	NoLiq	0.00	38.60
23.60	-	-	-	38.62	NoLiq	0.00	38.62
23.65	-	-	-	38.64	NoLiq	0.00	38.64
23.70	-	-	-	38.67	NoLiq	0.00	38.67
23.75	-	-	-	38.69	NoLiq	0.00	38.69
23.80	-	-	-	38.71	NoLiq	0.00	38.71
23.85	-	-	-	38.74	NoLiq	0.00	38.74
23.90	-	-	-	38.76	NoLiq	0.00	38.76
23.95	-	-	-	38.78	NoLiq	0.00	38.78
24.00	-	-	-	38.81	NoLiq	0.00	38.81
24.05	-	-	-	38.51	NoLiq	0.00	38.51
24.10	-	-	-	38.22	NoLiq	0.00	38.22
24.15	-	-	-	37.93	NoLiq	0.00	37.93
24.20	-	-	-	37.64	NoLiq	0.00	37.64
24.25	-	-	-	37.35	NoLiq	0.00	37.35
24.30	-	-	-	37.06	NoLiq	0.00	37.06
24.35	-	-	-	36.77	NoLiq	0.00	36.77
24.40	-	-	-	36.48	NoLiq	0.00	36.48
24.45	-	-	-	36.20	NoLiq	0.00	36.20
24.50	-	-	-	35.91	NoLiq	0.00	35.91
24.55	-	-	-	35.62	NoLiq	0.00	35.62
24.60	-	-	-	35.34	NoLiq	0.00	35.34
24.65	-	-	-	35.05	NoLiq	0.00	35.05
24.70	-	-	-	34.77	NoLiq	0.00	34.77
24.75	-	-	-	34.49	NoLiq	0.00	34.49
24.80	-	-	-	34.20	NoLiq	0.00	34.20
24.85	-	-	-	33.92	NoLiq	0.00	33.92
24.90	-	-	-	33.64	NoLiq	0.00	33.64
24.95	-	-	-	33.36	NoLiq	0.00	33.36
25.00	-	-	-	33.08	NoLiq	0.00	33.08
25.05	-	-	-	32.79	NoLiq	0.00	32.79
25.10	-	-	-	32.52	NoLiq	0.00	32.52
25.15	-	-	-	32.24	NoLiq	0.00	32.24
25.20	-	-	-	31.96	NoLiq	0.00	31.96
25.25	-	-	-	31.68	NoLiq	0.00	31.68
25.30	-	-	-	31.40	NoLiq	0.00	31.40
25.35	-	-	-	31.12	NoLiq	0.00	31.12
25.40	-	-	-	30.85	NoLiq	0.00	30.85
25.45	-	-	-	30.57	NoLiq	0.00	30.57
25.50	-	-	-	30.30	NoLiq	0.00	30.30
25.55	-	-	-	30.43	NoLiq	0.00	30.43
25.60	-	-	-	30.57	NoLiq	0.00	30.57
25.65	-	-	-	30.70	NoLiq	0.00	30.70
25.70	-	-	-	30.84	NoLiq	0.00	30.84
25.75	-	-	-	30.97	NoLiq	0.00	30.97
25.80	-	-	-	31.10	NoLiq	0.00	31.10
25.85	-	-	-	31.24	NoLiq	0.00	31.24
25.90	-	-	-	31.37	NoLiq	0.00	31.37
25.95	-	-	-	31.50	NoLiq	0.00	31.50
26.00	-	-	-	31.63	NoLiq	0.00	31.63
26.05	-	-	-	31.77	NoLiq	0.00	31.77
26.10	-	-	-	31.90	NoLiq	0.00	31.90
26.15	-	-	-	32.03	NoLiq	0.00	32.03
26.20	-	-	-	32.16	NoLiq	0.00	32.16
26.25	-	-	-	32.29	NoLiq	0.00	32.29
26.30	-	-	-	32.42	NoLiq	0.00	32.42

26.35	-	-	-	32.55	NoLiq	0.00	32.55
26.40	-	-	-	32.68	NoLiq	0.00	32.68
26.45	-	-	-	32.81	NoLiq	0.00	32.81
26.50	-	-	-	32.94	NoLiq	0.00	32.94
26.55	-	-	-	33.06	NoLiq	0.00	33.06
26.60	-	-	-	33.19	NoLiq	0.00	33.19
26.65	-	-	-	33.32	NoLiq	0.00	33.32
26.70	-	-	-	33.45	NoLiq	0.00	33.45
26.75	-	-	-	33.57	NoLiq	0.00	33.57
26.80	-	-	-	33.70	NoLiq	0.00	33.70
26.85	-	-	-	33.83	NoLiq	0.00	33.83
26.90	-	-	-	33.95	NoLiq	0.00	33.95
26.95	-	-	-	34.08	NoLiq	0.00	34.08
27.00	-	-	-	34.20	NoLiq	0.00	34.20
27.05	-	-	-	34.13	55.56	0.00	34.13
27.10	-	-	-	34.05	57.13	0.00	34.05
27.15	-	-	-	33.98	58.70	0.00	33.98
27.20	-	-	-	33.90	60.26	0.00	33.90
27.25	-	-	-	33.83	61.83	0.00	33.83
27.30	-	-	-	33.76	63.40	0.00	33.76
27.35	-	-	-	33.68	64.96	0.00	33.68
27.40	-	-	-	33.61	66.53	0.00	33.61
27.45	-	-	-	33.54	68.10	0.00	33.54
27.50	-	-	-	33.46	69.66	0.00	33.46
27.55	-	-	-	33.39	71.23	0.00	33.39
27.60	-	-	-	33.32	72.80	0.00	33.32
27.65	-	-	-	33.25	74.36	0.00	33.25
27.70	-	-	-	33.17	75.93	0.00	33.17
27.75	-	-	-	33.10	77.50	0.00	33.10
27.80	-	-	-	33.03	79.06	0.00	33.03
27.85	-	-	-	32.96	80.63	0.00	32.96
27.90	-	-	-	34.24	82.20	0.00	34.24
27.95	-	-	-	34.17	83.76	0.00	34.17
28.00	-	-	-	34.09	85.33	0.00	34.09
28.05	-	-	-	34.02	86.90	0.00	34.02
28.10	-	-	-	33.95	88.46	0.00	33.95
28.15	-	-	-	33.87	90.03	0.00	33.87
28.20	-	-	-	33.80	91.60	0.00	33.80
28.25	-	-	-	33.73	93.16	0.00	33.73
28.30	-	-	-	33.66	94.73	0.00	33.66
28.35	-	-	-	33.59	96.30	0.00	33.59
28.40	-	-	-	33.51	97.86	0.00	33.51
28.45	-	-	-	33.44	99.43	0.00	33.44
28.50	-	-	-	33.37	NoLiq	0.00	33.37
28.55	-	-	-	33.35	NoLiq	0.00	33.35
28.60	-	-	-	33.33	NoLiq	0.00	33.33
28.65	-	-	-	33.31	NoLiq	0.00	33.31
28.70	-	-	-	33.29	NoLiq	0.00	33.29
28.75	-	-	-	33.27	NoLiq	0.00	33.27
28.80	-	-	-	33.25	NoLiq	0.00	33.25
28.85	-	-	-	33.23	NoLiq	0.00	33.23
28.90	-	-	-	33.21	NoLiq	0.00	33.21
28.95	-	-	-	33.19	NoLiq	0.00	33.19
29.00	-	-	-	33.17	NoLiq	0.00	33.17
29.05	-	-	-	33.15	NoLiq	0.00	33.15
29.10	-	-	-	33.13	NoLiq	0.00	33.13
29.15	-	-	-	33.11	NoLiq	0.00	33.11
29.20	-	-	-	33.10	NoLiq	0.00	33.10
29.25	-	-	-	33.08	NoLiq	0.00	33.08
29.30	-	-	-	33.06	NoLiq	0.00	33.06
29.35	-	-	-	33.04	NoLiq	0.00	33.04
29.40	-	-	-	33.02	NoLiq	0.00	33.02
29.45	-	-	-	33.00	NoLiq	0.00	33.00
29.50	-	-	-	32.98	NoLiq	0.00	32.98
29.55	-	-	-	32.96	NoLiq	0.00	32.96
29.60	-	-	-	32.94	NoLiq	0.00	32.94
29.65	-	-	-	32.92	NoLiq	0.00	32.92
29.70	-	-	-	32.90	NoLiq	0.00	32.90
29.75	-	-	-	32.88	NoLiq	0.00	32.88

29.80	-	-	-	32.86	NoLiq	0.00	32.86
29.85	-	-	-	32.84	NoLiq	0.00	32.84
29.90	-	-	-	32.82	NoLiq	0.00	32.82
29.95	-	-	-	32.80	NoLiq	0.00	32.80
30.00	-	-	-	32.78	NoLiq	0.00	32.78
30.05	-	-	-	32.66	NoLiq	0.00	32.66
30.10	-	-	-	32.54	NoLiq	0.00	32.54
30.15	-	-	-	32.42	NoLiq	0.00	32.42
30.20	-	-	-	32.30	NoLiq	0.00	32.30
30.25	-	-	-	32.19	NoLiq	0.00	32.19
30.30	-	-	-	32.07	NoLiq	0.00	32.07
30.35	-	-	-	31.95	NoLiq	0.00	31.95
30.40	-	-	-	31.83	NoLiq	0.00	31.83
30.45	-	-	-	31.71	NoLiq	0.00	31.71
30.50	-	-	-	31.59	NoLiq	0.00	31.59
30.55	-	-	-	31.48	NoLiq	0.00	31.48
30.60	-	-	-	31.36	NoLiq	0.00	31.36
30.65	-	-	-	31.24	NoLiq	0.00	31.24
30.70	-	-	-	31.12	NoLiq	0.00	31.12
30.75	-	-	-	31.01	NoLiq	0.00	31.01
30.80	-	-	-	30.89	NoLiq	0.00	30.89
30.85	-	-	-	30.77	NoLiq	0.00	30.77
30.90	-	-	-	30.66	NoLiq	0.00	30.66
30.95	-	-	-	30.54	NoLiq	0.00	30.54
31.00	-	-	-	30.42	NoLiq	0.00	30.42
31.05	-	-	-	30.31	NoLiq	0.00	30.31
31.10	-	-	-	30.19	NoLiq	0.00	30.19
31.15	-	-	-	30.08	NoLiq	0.00	30.08
31.20	-	-	-	29.96	NoLiq	0.00	29.96
31.25	-	-	-	29.84	NoLiq	0.00	29.84
31.30	-	-	-	29.73	NoLiq	0.00	29.73
31.35	-	-	-	29.61	NoLiq	0.00	29.61
31.40	-	-	-	29.50	NoLiq	0.00	29.50
31.45	-	-	-	29.39	NoLiq	0.00	29.39
31.50	-	-	-	29.27	NoLiq	0.00	29.27
31.55	-	-	-	29.30	NoLiq	0.00	29.30
31.60	-	-	-	29.34	NoLiq	0.00	29.34
31.65	-	-	-	29.37	NoLiq	0.00	29.37
31.70	-	-	-	29.40	NoLiq	0.00	29.40
31.75	-	-	-	29.43	NoLiq	0.00	29.43
31.80	-	-	-	29.47	NoLiq	0.00	29.47
31.85	-	-	-	29.50	NoLiq	0.00	29.50
31.90	-	-	-	29.53	NoLiq	0.00	29.53
31.95	-	-	-	29.57	NoLiq	0.00	29.57
32.00	-	-	-	29.60	NoLiq	0.00	29.60
32.05	-	-	-	29.63	NoLiq	0.00	29.63
32.10	-	-	-	29.66	NoLiq	0.00	29.66
32.15	-	-	-	29.70	NoLiq	0.00	29.70
32.20	-	-	-	29.73	NoLiq	0.00	29.73
32.25	-	-	-	29.76	NoLiq	0.00	29.76
32.30	-	-	-	29.79	NoLiq	0.00	29.79
32.35	-	-	-	29.83	NoLiq	0.00	29.83
32.40	-	-	-	29.86	NoLiq	0.00	29.86
32.45	-	-	-	29.89	NoLiq	0.00	29.89
32.50	-	-	-	29.93	NoLiq	0.00	29.93
32.55	-	-	-	29.96	NoLiq	0.00	29.96
32.60	-	-	-	29.99	NoLiq	0.00	29.99
32.65	-	-	-	30.02	NoLiq	0.00	30.02
32.70	-	-	-	30.06	NoLiq	0.00	30.06
32.75	-	-	-	30.09	NoLiq	0.00	30.09
32.80	-	-	-	30.12	NoLiq	0.00	30.12
32.85	-	-	-	30.16	NoLiq	0.00	30.16
32.90	-	-	-	30.19	NoLiq	0.00	30.19
32.95	-	-	-	30.22	NoLiq	0.00	30.22
33.00	-	-	-	30.25	NoLiq	0.00	30.25
33.05	-	-	-	30.29	NoLiq	0.00	30.29
33.10	-	-	-	30.32	NoLiq	0.00	30.32
33.15	-	-	-	30.35	NoLiq	0.00	30.35
33.20	-	-	-	30.38	NoLiq	0.00	30.38

33.25	-	-	-	30.42	NoLiq	0.00	30.42
33.30	-	-	-	30.45	NoLiq	0.00	30.45
33.35	-	-	-	30.48	NoLiq	0.00	30.48
33.40	-	-	-	30.51	NoLiq	0.00	30.51
33.45	-	-	-	30.55	NoLiq	0.00	30.55
33.50	-	-	-	30.58	NoLiq	0.00	30.58
33.55	-	-	-	30.61	NoLiq	0.00	30.61
33.60	-	-	-	30.64	NoLiq	0.00	30.64
33.65	-	-	-	30.67	NoLiq	0.00	30.67
33.70	-	-	-	30.71	NoLiq	0.00	30.71
33.75	-	-	-	30.74	NoLiq	0.00	30.74
33.80	-	-	-	30.77	NoLiq	0.00	30.77
33.85	-	-	-	30.80	NoLiq	0.00	30.80
33.90	-	-	-	30.83	NoLiq	0.00	30.83
33.95	-	-	-	30.87	NoLiq	0.00	30.87
34.00	-	-	-	30.90	NoLiq	0.00	30.90
34.05	-	-	-	30.93	NoLiq	0.00	30.93
34.10	-	-	-	30.96	NoLiq	0.00	30.96
34.15	-	-	-	30.99	NoLiq	0.00	30.99
34.20	-	-	-	31.02	NoLiq	0.00	31.02
34.25	-	-	-	31.05	NoLiq	0.00	31.05
34.30	-	-	-	31.09	NoLiq	0.00	31.09
34.35	-	-	-	31.12	NoLiq	0.00	31.12
34.40	-	-	-	31.15	NoLiq	0.00	31.15
34.45	-	-	-	31.18	NoLiq	0.00	31.18
34.50	-	-	-	31.21	NoLiq	0.00	31.21
34.55	-	-	-	31.05	NoLiq	0.00	31.05
34.60	-	-	-	30.90	NoLiq	0.00	30.90
34.65	-	-	-	30.74	NoLiq	0.00	30.74
34.70	-	-	-	30.58	NoLiq	0.00	30.58
34.75	-	-	-	30.43	NoLiq	0.00	30.43
34.80	-	-	-	30.27	NoLiq	0.00	30.27
34.85	-	-	-	30.12	NoLiq	0.00	30.12
34.90	-	-	-	29.96	NoLiq	0.00	29.96
34.95	-	-	-	29.80	NoLiq	0.00	29.80
35.00	-	-	-	29.65	NoLiq	0.00	29.65
35.05	-	-	-	29.49	NoLiq	0.00	29.49
35.10	-	-	-	29.34	NoLiq	0.00	29.34
35.15	-	-	-	29.19	NoLiq	0.00	29.19
35.20	-	-	-	29.03	NoLiq	0.00	29.03
35.25	-	-	-	28.88	NoLiq	0.00	28.88
35.30	-	-	-	28.72	NoLiq	0.00	28.72
35.35	-	-	-	28.57	NoLiq	0.00	28.57
35.40	-	-	-	28.42	NoLiq	0.00	28.42
35.45	-	-	-	28.26	NoLiq	0.00	28.26
35.50	-	-	-	28.11	NoLiq	0.00	28.11
35.55	-	-	-	27.96	NoLiq	0.00	27.96
35.60	-	-	-	27.81	NoLiq	0.00	27.81
35.65	-	-	-	27.65	NoLiq	0.00	27.65
35.70	-	-	-	27.50	NoLiq	0.00	27.50
35.75	-	-	-	27.35	NoLiq	0.00	27.35
35.80	-	-	-	27.20	NoLiq	0.00	27.20
35.85	-	-	-	27.05	NoLiq	0.00	27.05
35.90	-	-	-	26.90	NoLiq	0.00	26.90
35.95	-	-	-	26.75	NoLiq	0.00	26.75
36.00	-	-	-	26.59	NoLiq	0.00	26.59
36.05	-	-	-	26.58	NoLiq	0.00	26.58
36.10	-	-	-	26.57	NoLiq	0.00	26.57
36.15	-	-	-	26.56	NoLiq	0.00	26.56
36.20	-	-	-	26.55	NoLiq	0.00	26.55
36.25	-	-	-	26.53	NoLiq	0.00	26.53
36.30	-	-	-	26.52	NoLiq	0.00	26.52
36.35	-	-	-	26.51	NoLiq	0.00	26.51
36.40	-	-	-	26.50	NoLiq	0.00	26.50
36.45	-	-	-	26.49	NoLiq	0.00	26.49
36.50	-	-	-	26.48	NoLiq	0.00	26.48
36.55	-	-	-	26.46	NoLiq	0.00	26.46
36.60	-	-	-	26.45	NoLiq	0.00	26.45
36.65	-	-	-	26.44	NoLiq	0.00	26.44

36.70	-	-	-	26.43	NoLiq	0.00	26.43
36.75	-	-	-	26.42	NoLiq	0.00	26.42
36.80	-	-	-	26.41	NoLiq	0.00	26.41
36.85	-	-	-	26.39	NoLiq	0.00	26.39
36.90	-	-	-	26.38	NoLiq	0.00	26.38
36.95	-	-	-	26.37	NoLiq	0.00	26.37
37.00	-	-	-	26.36	NoLiq	0.00	26.36
37.05	-	-	-	26.35	NoLiq	0.00	26.35
37.10	-	-	-	26.34	NoLiq	0.00	26.34
37.15	-	-	-	26.33	NoLiq	0.00	26.33
37.20	-	-	-	26.31	NoLiq	0.00	26.31
37.25	-	-	-	26.30	NoLiq	0.00	26.30
37.30	-	-	-	26.29	NoLiq	0.00	26.29
37.35	-	-	-	26.28	NoLiq	0.00	26.28
37.40	-	-	-	26.27	NoLiq	0.00	26.27
37.45	-	-	-	26.26	NoLiq	0.00	26.26
37.50	-	-	-	26.25	NoLiq	0.00	26.25
37.55	-	-	-	26.37	NoLiq	0.00	26.37
37.60	-	-	-	26.50	NoLiq	0.00	26.50
37.65	-	-	-	26.62	NoLiq	0.00	26.62
37.70	-	-	-	26.75	NoLiq	0.00	26.75
37.75	-	-	-	26.87	NoLiq	0.00	26.87
37.80	-	-	-	26.99	NoLiq	0.00	26.99
37.85	-	-	-	27.12	NoLiq	0.00	27.12
37.90	-	-	-	27.24	NoLiq	0.00	27.24
37.95	-	-	-	27.37	NoLiq	0.00	27.37
38.00	-	-	-	27.49	NoLiq	0.00	27.49
38.05	-	-	-	27.61	NoLiq	0.00	27.61
38.10	-	-	-	27.74	NoLiq	0.00	27.74
38.15	-	-	-	27.86	NoLiq	0.00	27.86
38.20	-	-	-	27.98	NoLiq	0.00	27.98
38.25	-	-	-	28.11	NoLiq	0.00	28.11
38.30	-	-	-	28.23	NoLiq	0.00	28.23
38.35	-	-	-	28.35	NoLiq	0.00	28.35
38.40	-	-	-	28.48	NoLiq	0.00	28.48
38.45	-	-	-	28.60	NoLiq	0.00	28.60
38.50	-	-	-	28.72	NoLiq	0.00	28.72
38.55	-	-	-	28.84	NoLiq	0.00	28.84
38.60	-	-	-	28.97	NoLiq	0.00	28.97
38.65	-	-	-	29.09	NoLiq	0.00	29.09
38.70	-	-	-	29.21	NoLiq	0.00	29.21
38.75	-	-	-	29.33	NoLiq	0.00	29.33
38.80	-	-	-	29.45	NoLiq	0.00	29.45
38.85	-	-	-	29.58	NoLiq	0.00	29.58
38.90	-	-	-	29.70	NoLiq	0.00	29.70
38.95	-	-	-	29.82	NoLiq	0.00	29.82
39.00	-	-	-	29.94	NoLiq	0.00	29.94
39.05	-	-	-	30.02	NoLiq	0.00	30.02
39.10	-	-	-	30.10	NoLiq	0.00	30.10
39.15	-	-	-	30.17	NoLiq	0.00	30.17
39.20	-	-	-	30.25	NoLiq	0.00	30.25
39.25	-	-	-	30.32	NoLiq	0.00	30.32
39.30	-	-	-	30.40	NoLiq	0.00	30.40
39.35	-	-	-	30.48	NoLiq	0.00	30.48
39.40	-	-	-	30.55	NoLiq	0.00	30.55
39.45	-	-	-	30.63	NoLiq	0.00	30.63
39.50	-	-	-	30.71	NoLiq	0.00	30.71
39.55	-	-	-	30.78	NoLiq	0.00	30.78
39.60	-	-	-	30.86	NoLiq	0.00	30.86
39.65	-	-	-	30.93	NoLiq	0.00	30.93
39.70	-	-	-	31.01	NoLiq	0.00	31.01
39.75	-	-	-	31.08	NoLiq	0.00	31.08
39.80	-	-	-	31.16	NoLiq	0.00	31.16
39.85	-	-	-	31.23	NoLiq	0.00	31.23
39.90	-	-	-	31.31	NoLiq	0.00	31.31
39.95	-	-	-	31.38	NoLiq	0.00	31.38
40.00	-	-	-	31.46	NoLiq	0.00	31.46
40.05	-	-	-	31.53	NoLiq	0.00	31.53
40.10	-	-	-	31.61	NoLiq	0.00	31.61

40.15	-	-	-	31.68	NoLiq	0.00	31.68
40.20	-	-	-	31.76	NoLiq	0.00	31.76
40.25	-	-	-	31.83	NoLiq	0.00	31.83
40.30	-	-	-	31.91	NoLiq	0.00	31.91
40.35	-	-	-	31.98	NoLiq	0.00	31.98
40.40	-	-	-	32.06	NoLiq	0.00	32.06
40.45	-	-	-	32.13	NoLiq	0.00	32.13
40.50	-	-	-	32.20	NoLiq	0.00	32.20
40.55	-	-	-	31.97	NoLiq	0.00	31.97
40.60	-	-	-	31.74	NoLiq	0.00	31.74
40.65	-	-	-	31.51	NoLiq	0.00	31.51
40.70	-	-	-	31.28	NoLiq	0.00	31.28
40.75	-	-	-	31.04	NoLiq	0.00	31.04
40.80	-	-	-	30.81	NoLiq	0.00	30.81
40.85	-	-	-	30.58	NoLiq	0.00	30.58
40.90	-	-	-	30.35	NoLiq	0.00	30.35
40.95	-	-	-	30.12	NoLiq	0.00	30.12
41.00	-	-	-	29.89	NoLiq	0.00	29.89
41.05	-	-	-	29.66	NoLiq	0.00	29.66
41.10	-	-	-	29.43	NoLiq	0.00	29.43
41.15	-	-	-	29.20	NoLiq	0.00	29.20
41.20	-	-	-	28.97	NoLiq	0.00	28.97
41.25	-	-	-	28.74	NoLiq	0.00	28.74
41.30	-	-	-	28.51	NoLiq	0.00	28.51
41.35	-	-	-	28.28	NoLiq	0.00	28.28
41.40	-	-	-	28.05	NoLiq	0.00	28.05
41.45	-	-	-	27.82	NoLiq	0.00	27.82
41.50	-	-	-	27.59	NoLiq	0.00	27.59
41.55	-	-	-	27.37	NoLiq	0.00	27.37
41.60	-	-	-	27.14	NoLiq	0.00	27.14
41.65	-	-	-	26.91	NoLiq	0.00	26.91
41.70	-	-	-	26.68	NoLiq	0.00	26.68
41.75	-	-	-	26.46	NoLiq	0.00	26.46
41.80	-	-	-	26.23	NoLiq	0.00	26.23
41.85	-	-	-	26.00	NoLiq	0.00	26.00
41.90	-	-	-	25.78	NoLiq	0.00	25.78
41.95	-	-	-	25.55	NoLiq	0.00	25.55
42.00	-	-	-	25.33	NoLiq	0.00	25.33
42.05	-	-	-	25.49	NoLiq	0.00	25.49
42.10	-	-	-	25.65	NoLiq	0.00	25.65
42.15	-	-	-	25.81	NoLiq	0.00	25.81
42.20	-	-	-	25.97	NoLiq	0.00	25.97
42.25	-	-	-	26.14	NoLiq	0.00	26.14
42.30	-	-	-	26.30	NoLiq	0.00	26.30
42.35	-	-	-	26.46	NoLiq	0.00	26.46
42.40	-	-	-	26.62	NoLiq	0.00	26.62
42.45	-	-	-	26.78	NoLiq	0.00	26.78
42.50	-	-	-	26.94	NoLiq	0.00	26.94
42.55	-	-	-	27.10	NoLiq	0.00	27.10
42.60	-	-	-	27.26	NoLiq	0.00	27.26
42.65	-	-	-	27.42	NoLiq	0.00	27.42
42.70	-	-	-	27.58	NoLiq	0.00	27.58
42.75	-	-	-	27.75	NoLiq	0.00	27.75
42.80	-	-	-	27.91	NoLiq	0.00	27.91
42.85	-	-	-	28.06	NoLiq	0.00	28.06
42.90	-	-	-	28.22	NoLiq	0.00	28.22
42.95	-	-	-	28.38	NoLiq	0.00	28.38
43.00	-	-	-	28.54	NoLiq	0.00	28.54
43.05	-	-	-	28.70	NoLiq	0.00	28.70
43.10	-	-	-	28.86	NoLiq	0.00	28.86
43.15	-	-	-	29.02	NoLiq	0.00	29.02
43.20	-	-	-	29.18	NoLiq	0.00	29.18
43.25	-	-	-	29.34	NoLiq	0.00	29.34
43.30	-	-	-	29.50	NoLiq	0.00	29.50
43.35	-	-	-	29.65	NoLiq	0.00	29.65
43.40	-	-	-	29.81	NoLiq	0.00	29.81
43.45	-	-	-	29.97	NoLiq	0.00	29.97
43.50	-	-	-	30.13	NoLiq	0.00	30.13
43.55	-	-	-	29.86	NoLiq	0.00	29.86

43.60	-	-	-	29.60	NoLiq	0.00	29.60
43.65	-	-	-	29.33	NoLiq	0.00	29.33
43.70	-	-	-	29.06	NoLiq	0.00	29.06
43.75	-	-	-	28.80	NoLiq	0.00	28.80
43.80	-	-	-	28.53	NoLiq	0.00	28.53
43.85	-	-	-	28.27	NoLiq	0.00	28.27
43.90	-	-	-	28.00	NoLiq	0.00	28.00
43.95	-	-	-	27.74	NoLiq	0.00	27.74
44.00	-	-	-	27.47	NoLiq	0.00	27.47
44.05	-	-	-	27.21	NoLiq	0.00	27.21
44.10	-	-	-	26.95	NoLiq	0.00	26.95
44.15	-	-	-	26.68	NoLiq	0.00	26.68
44.20	-	-	-	26.42	NoLiq	0.00	26.42
44.25	-	-	-	26.16	NoLiq	0.00	26.16
44.30	-	-	-	25.89	NoLiq	0.00	25.89
44.35	-	-	-	25.63	NoLiq	0.00	25.63
44.40	-	-	-	25.37	NoLiq	0.00	25.37
44.45	-	-	-	25.11	NoLiq	0.00	25.11
44.50	-	-	-	24.84	NoLiq	0.00	24.84
44.55	-	-	-	24.58	NoLiq	0.00	24.58
44.60	-	-	-	24.32	NoLiq	0.00	24.32
44.65	-	-	-	24.06	NoLiq	0.00	24.06
44.70	-	-	-	23.80	NoLiq	0.00	23.80
44.75	-	-	-	23.54	NoLiq	0.00	23.54
44.80	-	-	-	23.28	NoLiq	0.00	23.28
44.85	-	-	-	23.02	NoLiq	0.00	23.02
44.90	-	-	-	22.76	NoLiq	0.00	22.76
44.95	-	-	-	22.50	NoLiq	0.00	22.50
45.00	-	-	-	22.24	NoLiq	0.00	22.24
45.05	-	-	-	22.40	NoLiq	0.00	22.40
45.10	-	-	-	22.56	NoLiq	0.00	22.56
45.15	-	-	-	22.72	NoLiq	0.00	22.72
45.20	-	-	-	22.87	NoLiq	0.00	22.87
45.25	-	-	-	23.03	NoLiq	0.00	23.03
45.30	-	-	-	23.19	NoLiq	0.00	23.19
45.35	-	-	-	23.35	NoLiq	0.00	23.35
45.40	-	-	-	23.51	NoLiq	0.00	23.51
45.45	-	-	-	23.66	NoLiq	0.00	23.66
45.50	-	-	-	23.82	NoLiq	0.00	23.82
45.55	-	-	-	23.98	NoLiq	0.00	23.98
45.60	-	-	-	24.14	NoLiq	0.00	24.14
45.65	-	-	-	24.29	NoLiq	0.00	24.29
45.70	-	-	-	24.45	NoLiq	0.00	24.45
45.75	-	-	-	24.61	NoLiq	0.00	24.61
45.80	-	-	-	24.76	NoLiq	0.00	24.76
45.85	-	-	-	24.92	NoLiq	0.00	24.92
45.90	-	-	-	25.08	NoLiq	0.00	25.08
45.95	-	-	-	25.23	NoLiq	0.00	25.23
46.00	-	-	-	25.39	NoLiq	0.00	25.39
46.05	-	-	-	25.54	NoLiq	0.00	25.54
46.10	-	-	-	25.70	NoLiq	0.00	25.70
46.15	-	-	-	25.85	NoLiq	0.00	25.85
46.20	-	-	-	26.01	NoLiq	0.00	26.01
46.25	-	-	-	26.17	NoLiq	0.00	26.17
46.30	-	-	-	26.32	NoLiq	0.00	26.32
46.35	-	-	-	26.48	NoLiq	0.00	26.48
46.40	-	-	-	26.63	NoLiq	0.00	26.63
46.45	-	-	-	26.78	NoLiq	0.00	26.78
46.50	-	-	-	26.94	NoLiq	0.00	26.94
46.55	-	-	-	26.89	NoLiq	0.00	26.89
46.60	-	-	-	26.84	NoLiq	0.00	26.84
46.65	-	-	-	26.79	NoLiq	0.00	26.79
46.70	-	-	-	26.74	NoLiq	0.00	26.74
46.75	-	-	-	26.68	NoLiq	0.00	26.68
46.80	-	-	-	26.63	NoLiq	0.00	26.63
46.85	-	-	-	26.58	NoLiq	0.00	26.58
46.90	-	-	-	26.53	NoLiq	0.00	26.53
46.95	-	-	-	26.48	NoLiq	0.00	26.48
47.00	-	-	-	26.43	NoLiq	0.00	26.43

47.05	-	-	-	26.38	NoLiq	0.00	26.38
47.10	-	-	-	26.33	NoLiq	0.00	26.33
47.15	-	-	-	26.28	NoLiq	0.00	26.28
47.20	-	-	-	26.23	NoLiq	0.00	26.23
47.25	-	-	-	26.18	NoLiq	0.00	26.18
47.30	-	-	-	26.12	NoLiq	0.00	26.12
47.35	-	-	-	26.07	NoLiq	0.00	26.07
47.40	-	-	-	26.02	NoLiq	0.00	26.02
47.45	-	-	-	25.97	NoLiq	0.00	25.97
47.50	-	-	-	25.92	NoLiq	0.00	25.92
47.55	-	-	-	25.87	NoLiq	0.00	25.87
47.60	-	-	-	25.82	NoLiq	0.00	25.82
47.65	-	-	-	25.77	NoLiq	0.00	25.77
47.70	-	-	-	25.72	NoLiq	0.00	25.72
47.75	-	-	-	25.67	NoLiq	0.00	25.67
47.80	-	-	-	25.62	NoLiq	0.00	25.62
47.85	-	-	-	25.57	NoLiq	0.00	25.57
47.90	-	-	-	25.52	NoLiq	0.00	25.52
47.95	-	-	-	25.47	NoLiq	0.00	25.47
48.00	-	-	-	25.42	NoLiq	0.00	25.42
48.05	-	-	-	25.85	36.83	0.00	25.85
48.10	-	-	-	26.28	36.67	0.00	26.28
48.15	-	-	-	26.72	36.50	0.00	26.72
48.20	-	-	-	27.15	36.33	0.00	27.15
48.25	-	-	-	27.59	36.17	0.00	27.59
48.30	-	-	-	28.02	36.00	0.00	28.02
48.35	-	-	-	28.45	35.83	0.00	28.45
48.40	-	-	-	28.88	35.67	0.00	28.88
48.45	-	-	-	29.32	35.50	0.00	29.32
48.50	-	-	-	29.75	35.33	0.00	29.75
48.55	-	-	-	30.18	35.17	0.00	30.18
48.60	-	-	-	30.61	35.00	0.00	30.61
48.65	-	-	-	31.00	34.83	0.00	31.00
48.70	-	-	-	31.39	34.67	0.00	31.39
48.75	-	-	-	31.77	34.50	0.00	31.77
48.80	-	-	-	32.16	34.33	0.00	32.16
48.85	-	-	-	32.55	34.17	0.00	32.55
48.90	-	-	-	32.94	34.00	0.00	32.94
48.95	-	-	-	33.32	33.83	0.00	33.32
49.00	-	-	-	33.71	33.67	0.00	33.71
49.05	-	-	-	34.10	33.50	0.00	34.10
49.10	-	-	-	34.48	33.33	0.00	34.48
49.15	-	-	-	34.87	33.17	0.00	34.87
49.20	-	-	-	35.25	33.00	0.00	35.25
49.25	-	-	-	35.64	32.83	0.00	35.64
49.30	-	-	-	36.02	32.67	0.00	36.02
49.35	-	-	-	36.40	32.50	0.00	36.40
49.40	-	-	-	36.78	32.33	0.00	36.78
49.45	-	-	-	37.17	32.17	0.00	37.17
49.50	-	-	-	37.55	32.00	0.00	37.55
49.55	-	-	-	37.53	32.00	0.00	37.53
49.60	-	-	-	37.52	32.00	0.00	37.52
49.65	-	-	-	37.50	32.00	0.00	37.50
49.70	-	-	-	37.48	32.00	0.00	37.48
49.75	-	-	-	37.47	32.00	0.00	37.47
49.80	-	-	-	37.45	32.00	0.00	37.45
49.85	-	-	-	37.43	32.00	0.00	37.43
49.90	-	-	-	37.42	32.00	0.00	37.42
49.95	-	-	-	37.40	32.00	0.00	37.40
50.00	-	-	-	37.38	32.00	0.00	37.38

(N1)60s has been fines corrected in liquefaction analysis, therefore d(N1)60=0.
Fines=NoLiq means the soils are not liquefiable.

Settlement of Saturated Sands:

Settlement Analysis Method: Ishihara / Yoshimine

Depth	CSRsf	/ MSF*	=CSRm	F.S.	Fines	(N1)60s	Dr	ec	dsz	dsp	S
ft					%		%	%	in.	in.	in.

No Settlement of Saturated Sands

Settlement of Saturated Sands=0.000 in.
qc1 and (N1)60 is after fines correction in liquefaction analysis
dsz is per each segment, dz=0.05 ft
dsp is per each print interval, dp=0.05 ft
S is cumulated settlement at this depth

Settlement of Unsaturated Sands:

	Depth ft	sigma' atm	sigC' atm	(N1)60s	CSRs _f	Gmax atm	g*Ge/Gm	g_eff	ec7.5 %	Cec	ec %	dsz in.	dsp in.	S in.
0.000	49.95	2.10	1.37	37.40	0.26	1746.86	3.1E-4	0.0638	0.0240	1.12	0.0269	3.22E-4	0.000	
0.001	49.90	2.10	1.37	37.42	0.26	1746.18	3.1E-4	0.0638	0.0240	1.12	0.0268	3.22E-4	0.000	
0.001	49.85	2.10	1.36	37.43	0.26	1745.49	3.1E-4	0.0637	0.0240	1.12	0.0268	3.22E-4	0.000	
0.001	49.80	2.10	1.36	37.45	0.26	1744.81	3.1E-4	0.0637	0.0239	1.12	0.0268	3.21E-4	0.000	
0.002	49.75	2.09	1.36	37.47	0.26	1744.12	3.1E-4	0.0637	0.0239	1.12	0.0267	3.21E-4	0.000	
0.002	49.70	2.09	1.36	37.48	0.26	1743.44	3.1E-4	0.0637	0.0239	1.12	0.0267	3.20E-4	0.000	
0.002	49.65	2.09	1.36	37.50	0.26	1742.75	3.1E-4	0.0637	0.0238	1.12	0.0266	3.20E-4	0.000	
0.003	49.60	2.09	1.36	37.52	0.26	1742.07	3.1E-4	0.0636	0.0238	1.12	0.0266	3.19E-4	0.000	
0.003	49.55	2.09	1.36	37.53	0.26	1741.38	3.1E-4	0.0636	0.0238	1.12	0.0266	3.19E-4	0.000	
0.003	49.50	2.08	1.35	37.55	0.26	1740.63	3.1E-4	0.0636	0.0237	1.12	0.0265	3.18E-4	0.000	
0.004	49.45	2.08	1.35	37.17	0.26	1733.78	3.1E-4	0.0641	0.0245	1.12	0.0274	3.29E-4	0.000	
0.004	49.40	2.08	1.35	36.78	0.26	1726.89	3.2E-4	0.0645	0.0253	1.12	0.0283	3.39E-4	0.000	
0.004	49.35	2.08	1.35	36.40	0.26	1719.95	3.2E-4	0.0650	0.0261	1.12	0.0291	3.50E-4	0.000	
0.005	49.30	2.07	1.35	36.02	0.26	1712.98	3.2E-4	0.0655	0.0269	1.12	0.0300	3.61E-4	0.000	
0.005	49.25	2.07	1.35	35.64	0.26	1705.96	3.2E-4	0.0660	0.0277	1.12	0.0310	3.72E-4	0.000	
0.005	49.20	2.07	1.35	35.25	0.26	1698.89	3.2E-4	0.0665	0.0285	1.12	0.0319	3.83E-4	0.000	
0.006	49.15	2.07	1.34	34.87	0.26	1691.78	3.2E-4	0.0670	0.0294	1.12	0.0329	3.95E-4	0.000	
0.006	49.10	2.07	1.34	34.48	0.26	1684.63	3.2E-4	0.0675	0.0303	1.12	0.0339	4.07E-4	0.000	
0.007	49.05	2.06	1.34	34.10	0.26	1677.43	3.2E-4	0.0681	0.0312	1.12	0.0349	4.19E-4	0.000	
0.007	49.00	2.06	1.34	33.71	0.26	1670.18	3.2E-4	0.0686	0.0322	1.12	0.0359	4.31E-4	0.000	
0.007	48.95	2.06	1.34	33.32	0.26	1662.88	3.3E-4	0.0692	0.0331	1.12	0.0370	4.44E-4	0.000	
0.008	48.90	2.06	1.34	32.94	0.26	1655.54	3.3E-4	0.0698	0.0341	1.12	0.0381	4.57E-4	0.000	
0.008	48.85	2.05	1.34	32.55	0.26	1648.14	3.3E-4	0.0704	0.0351	1.12	0.0392	4.71E-4	0.000	
0.009	48.80	2.05	1.33	32.16	0.26	1640.69	3.3E-4	0.0710	0.0361	1.12	0.0404	4.85E-4	0.000	
0.009	48.75	2.05	1.33	31.77	0.26	1633.19	3.3E-4	0.0716	0.0372	1.12	0.0416	4.99E-4	0.000	
0.010	48.70	2.05	1.33	31.39	0.26	1625.63	3.3E-4	0.0723	0.0383	1.12	0.0428	5.14E-4	0.001	
0.010	48.65	2.05	1.33	31.00	0.26	1618.02	3.3E-4	0.0730	0.0395	1.12	0.0441	5.29E-4	0.001	
0.010	48.60	2.04	1.33	30.61	0.26	1610.35	3.4E-4	0.0736	0.0406	1.12	0.0454	5.45E-4	0.001	

0.011	48.55	2.04	1.33	30.18	0.26	1601.91	3.4E-4	0.0744	0.0420	1.12	0.0469	5.63E-4	0.001
0.011	48.50	2.04	1.33	29.75	0.26	1593.41	3.4E-4	0.0752	0.0434	1.12	0.0485	5.82E-4	0.001
0.012	48.45	2.04	1.32	29.32	0.26	1584.83	3.4E-4	0.0760	0.0448	1.12	0.0501	6.01E-4	0.001
0.013	48.40	2.03	1.32	28.88	0.27	1576.18	3.4E-4	0.0769	0.0463	1.12	0.0518	6.21E-4	0.001
0.013	48.35	2.03	1.32	28.45	0.27	1567.45	3.4E-4	0.0778	0.0479	1.12	0.0535	6.42E-4	0.001
0.014	48.30	2.03	1.32	28.02	0.27	1558.64	3.5E-4	0.0787	0.0495	1.12	0.0553	6.64E-4	0.001
0.015	48.25	2.03	1.32	27.59	0.27	1549.74	3.5E-4	0.0796	0.0512	1.12	0.0572	6.87E-4	0.001
0.015	48.20	2.03	1.32	27.15	0.27	1540.77	3.5E-4	0.0806	0.0530	1.12	0.0592	7.11E-4	0.001
0.016	48.15	2.02	1.32	26.72	0.27	1531.71	3.5E-4	0.0816	0.0548	1.12	0.0613	7.36E-4	0.001
0.017	48.10	2.02	1.31	26.28	0.27	1522.55	3.5E-4	0.0826	0.0568	1.12	0.0635	7.62E-4	0.001
0.018	48.05	2.02	1.31	25.85	0.27	1513.31	3.5E-4	0.0837	0.0589	1.12	0.0658	7.90E-4	0.001
0.018	48.00	2.02	1.31	25.42	0.27	1504.06	3.6E-4	0.0848	0.0610	1.12	0.0682	0.00E0	0.000
0.018	47.95	2.02	1.31	25.47	0.27	1504.25	3.6E-4	0.0847	0.0607	1.12	0.0679	0.00E0	0.000
0.018	47.90	2.01	1.31	25.52	0.27	1504.43	3.6E-4	0.0845	0.0605	1.12	0.0676	0.00E0	0.000
0.018	47.85	2.01	1.31	25.57	0.27	1504.62	3.6E-4	0.0844	0.0602	1.12	0.0673	0.00E0	0.000
0.018	47.80	2.01	1.31	25.62	0.27	1504.81	3.6E-4	0.0843	0.0600	1.12	0.0671	0.00E0	0.000
0.018	47.75	2.01	1.30	25.67	0.27	1504.99	3.6E-4	0.0841	0.0597	1.12	0.0668	0.00E0	0.000
0.018	47.70	2.00	1.30	25.72	0.27	1505.18	3.6E-4	0.0840	0.0595	1.12	0.0665	0.00E0	0.000
0.018	47.65	2.00	1.30	25.77	0.27	1505.36	3.6E-4	0.0839	0.0592	1.12	0.0662	0.00E0	0.000
0.018	47.60	2.00	1.30	25.82	0.27	1505.55	3.6E-4	0.0837	0.0590	1.12	0.0659	0.00E0	0.000
0.018	47.55	2.00	1.30	25.87	0.27	1505.73	3.5E-4	0.0836	0.0587	1.12	0.0657	0.00E0	0.000
0.018	47.50	2.00	1.30	25.92	0.27	1505.92	3.5E-4	0.0835	0.0585	1.12	0.0654	0.00E0	0.000
0.018	47.45	1.99	1.30	25.97	0.27	1506.10	3.5E-4	0.0834	0.0582	1.12	0.0651	0.00E0	0.000
0.018	47.40	1.99	1.29	26.02	0.27	1506.29	3.5E-4	0.0832	0.0580	1.12	0.0648	0.00E0	0.000
0.018	47.35	1.99	1.29	26.07	0.27	1506.47	3.5E-4	0.0831	0.0578	1.12	0.0646	0.00E0	0.000
0.018	47.30	1.99	1.29	26.12	0.27	1506.66	3.5E-4	0.0830	0.0575	1.12	0.0643	0.00E0	0.000
0.018	47.25	1.99	1.29	26.18	0.27	1506.84	3.5E-4	0.0828	0.0573	1.12	0.0640	0.00E0	0.000
0.018	47.20	1.98	1.29	26.23	0.27	1507.02	3.5E-4	0.0827	0.0570	1.12			

0.018	46.85	1.97	1.28	26.58	0.27	1508.30	3.5E-4	0.0819	0.0554	1.12	0.0620	0.00E0	0.000
0.018	46.80	1.97	1.28	26.63	0.27	1508.49	3.5E-4	0.0817	0.0552	1.12	0.0617	0.00E0	0.000
0.018	46.75	1.96	1.28	26.68	0.27	1508.67	3.5E-4	0.0816	0.0550	1.12	0.0615	0.00E0	0.000
0.018	46.70	1.96	1.28	26.74	0.27	1508.85	3.5E-4	0.0815	0.0547	1.12	0.0612	0.00E0	0.000
0.018	46.65	1.96	1.27	26.79	0.27	1509.03	3.5E-4	0.0814	0.0545	1.12	0.0609	0.00E0	0.000
0.018	46.60	1.96	1.27	26.84	0.27	1509.21	3.5E-4	0.0812	0.0543	1.12	0.0607	0.00E0	0.000
0.018	46.55	1.96	1.27	26.89	0.27	1509.39	3.5E-4	0.0811	0.0541	1.12	0.0604	0.00E0	0.000
0.018	46.50	1.95	1.27	26.94	0.27	1509.54	3.5E-4	0.0810	0.0539	1.12	0.0602	0.00E0	0.000
0.018	46.45	1.95	1.27	26.78	0.27	1505.88	3.5E-4	0.0814	0.0545	1.12	0.0610	0.00E0	0.000
0.018	46.40	1.95	1.27	26.63	0.27	1502.21	3.5E-4	0.0817	0.0552	1.12	0.0617	0.00E0	0.000
0.018	46.35	1.95	1.27	26.48	0.27	1498.52	3.5E-4	0.0821	0.0559	1.12	0.0625	0.00E0	0.000
0.018	46.30	1.95	1.27	26.32	0.27	1494.82	3.5E-4	0.0825	0.0566	1.12	0.0633	0.00E0	0.000
0.018	46.25	1.94	1.26	26.17	0.27	1491.11	3.5E-4	0.0828	0.0573	1.12	0.0641	0.00E0	0.000
0.018	46.20	1.94	1.26	26.01	0.27	1487.39	3.5E-4	0.0832	0.0580	1.12	0.0649	0.00E0	0.000
0.018	46.15	1.94	1.26	25.85	0.27	1483.66	3.5E-4	0.0836	0.0588	1.12	0.0657	0.00E0	0.000
0.018	46.10	1.94	1.26	25.70	0.27	1479.91	3.6E-4	0.0840	0.0595	1.12	0.0666	0.00E0	0.000
0.018	46.05	1.94	1.26	25.54	0.27	1476.15	3.6E-4	0.0844	0.0603	1.12	0.0674	0.00E0	0.000
0.018	46.00	1.93	1.26	25.39	0.27	1472.38	3.6E-4	0.0848	0.0611	1.12	0.0683	0.00E0	0.000
0.018	45.95	1.93	1.26	25.23	0.27	1468.59	3.6E-4	0.0852	0.0619	1.12	0.0692	0.00E0	0.000
0.018	45.90	1.93	1.25	25.08	0.27	1464.79	3.6E-4	0.0856	0.0627	1.12	0.0701	0.00E0	0.000
0.018	45.85	1.93	1.25	24.92	0.27	1460.98	3.6E-4	0.0860	0.0636	1.12	0.0711	0.00E0	0.000
0.018	45.80	1.93	1.25	24.76	0.27	1457.15	3.6E-4	0.0865	0.0644	1.12	0.0720	0.00E0	0.000
0.018	45.75	1.92	1.25	24.61	0.27	1453.32	3.6E-4	0.0869	0.0653	1.12	0.0730	0.00E0	0.000
0.018	45.70	1.92	1.25	24.45	0.27	1449.46	3.6E-4	0.0873	0.0662	1.12	0.0740	0.00E0	0.000
0.018	45.65	1.92	1.25	24.29	0.27	1445.60	3.6E-4	0.0878	0.0671	1.12	0.0750	0.00E0	0.000
0.018	45.60	1.92	1.25	24.14	0.27	1441.72	3.6E-4	0.0882	0.0680	1.12	0.0760	0.00E0	0.000
0.018	45.55	1.92	1.25	23.98	0.27	1437.82	3.6E-4	0.0887	0.0689	1.12	0.0771	0.00E0	0.000
0.018	45.50	1.91	1.24	23.82	0.27	1433.91	3.6E-4	0.0891	0.0699	1.12	0.0781	0.00E0	0.000
0.018	45.45	1.91	1.24	23.66	0.27	1429.99	3.7E-4	0.0896	0.0709	1.12	0.0792	0.00E0	0.000
0.018	45.40	1.91	1.24	23.51	0.27	1426.05	3.7E-4	0.0901	0.0719	1.12	0.0804	0.00E0	0.000
0.018	45.35	1.91	1.24	23.35	0.27	1422.10	3.7E-4	0.0906	0.0729	1.12	0.0815	0.00E0	0.000
0.018	45.30	1.91	1.24	23.19	0.27	1418.13	3.7E-4	0.0911	0.0740	1.12	0.0827	0.00E0	0.000
0.018	45.25	1.90	1.24	23.03	0.27	1414.15	3.7E-4	0.0916	0.0750	1.12	0.0839	0.00E0	0.000
0.018	45.20	1.90	1.24	22.87	0.27	1410.15	3.7E-4	0.0921	0.0761	1.12	0.0851	0.00E0	0.000
0.018	45.15	1.90	1.24	22.72	0.27	1406.14	3.7E-4	0.0926	0.0772	1.12	0.0864	0.00E0	0.000

0.018	45.10	1.90	1.23	22.56	0.27	1402.11	3.7E-4	0.0931	0.0784	1.12	0.0876	0.00E0	0.000
0.018	45.05	1.90	1.23	22.40	0.27	1398.06	3.7E-4	0.0936	0.0796	1.12	0.0890	0.00E0	0.000
0.018	45.00	1.89	1.23	22.24	0.27	1394.07	3.7E-4	0.0942	0.0807	1.12	0.0903	0.00E0	0.000
0.018	44.95	1.89	1.23	22.50	0.27	1398.70	3.7E-4	0.0933	0.0788	1.12	0.0881	0.00E0	0.000
0.018	44.90	1.89	1.23	22.76	0.27	1403.29	3.7E-4	0.0924	0.0769	1.12	0.0860	0.00E0	0.000
0.018	44.85	1.89	1.23	23.02	0.27	1407.83	3.7E-4	0.0915	0.0751	1.12	0.0839	0.00E0	0.000
0.018	44.80	1.89	1.23	23.28	0.27	1412.34	3.7E-4	0.0907	0.0733	1.12	0.0819	0.00E0	0.000
0.018	44.75	1.88	1.22	23.54	0.28	1416.81	3.7E-4	0.0899	0.0716	1.12	0.0800	0.00E0	0.000
0.018	44.70	1.88	1.22	23.80	0.28	1421.25	3.6E-4	0.0891	0.0699	1.12	0.0782	0.00E0	0.000
0.018	44.65	1.88	1.22	24.06	0.28	1425.64	3.6E-4	0.0883	0.0683	1.12	0.0764	0.00E0	0.000
0.018	44.60	1.88	1.22	24.32	0.28	1430.00	3.6E-4	0.0876	0.0668	1.12	0.0747	0.00E0	0.000
0.018	44.55	1.88	1.22	24.58	0.28	1434.32	3.6E-4	0.0868	0.0653	1.12	0.0730	0.00E0	0.000
0.018	44.50	1.87	1.22	24.84	0.28	1438.61	3.6E-4	0.0861	0.0638	1.12	0.0714	0.00E0	0.000
0.018	44.45	1.87	1.22	25.11	0.28	1442.86	3.6E-4	0.0854	0.0624	1.12	0.0698	0.00E0	0.000
0.018	44.40	1.87	1.22	25.37	0.28	1447.07	3.6E-4	0.0847	0.0611	1.12	0.0683	0.00E0	0.000
0.018	44.35	1.87	1.21	25.63	0.28	1451.26	3.6E-4	0.0840	0.0598	1.12	0.0668	0.00E0	0.000
0.018	44.30	1.87	1.21	25.89	0.28	1455.40	3.5E-4	0.0833	0.0585	1.12	0.0654	0.00E0	0.000
0.018	44.25	1.86	1.21	26.16	0.28	1459.52	3.5E-4	0.0827	0.0572	1.12	0.0640	0.00E0	0.000
0.018	44.20	1.86	1.21	26.42	0.28	1463.60	3.5E-4	0.0820	0.0560	1.12	0.0626	0.00E0	0.000
0.018	44.15	1.86	1.21	26.68	0.28	1467.66	3.5E-4	0.0814	0.0548	1.12	0.0613	0.00E0	0.000
0.018	44.10	1.86	1.21	26.95	0.28	1471.68	3.5E-4	0.0808	0.0537	1.12	0.0600	0.00E0	0.000
0.018	44.05	1.86	1.21	27.21	0.28	1475.67	3.5E-4	0.0802	0.0526	1.12	0.0588	0.00E0	0.000
0.018	44.00	1.85	1.20	27.47	0.28	1479.63	3.5E-4	0.0796	0.0515	1.12	0.0575	0.00E0	0.000
0.018	43.95	1.85	1.20	27.74	0.28	1483.56	3.5E-4	0.0790	0.0504	1.12	0.0564	0.00E0	0.000
0.018	43.90	1.85	1.20	28.00	0.28	1487.45	3.5E-4	0.0784	0.0494	1.12	0.0552	0.00E0	0.000
0.018	43.85	1.85	1.20	28.27	0.28	1491.32	3.4E-4	0.0778	0.0484	1.12	0.0541	0.00E0	0.000
0.018	43.80	1.85	1.20	28.53	0.28	1495.17	3.4E-4	0.0773	0.0474	1.12	0.0530	0.00E0	0.000
0.018	43.75	1.84	1.20	28.80	0.28	1498.98	3.4E-4	0.0767	0.0464	1.12	0.0519		

0.018	43.40	1.83	1.19	29.81	0.28	1510.64	3.4E-4	0.0747	0.0429	1.12	0.0480	0.00E0	0.000
0.018	43.35	1.83	1.19	29.65	0.28	1507.16	3.4E-4	0.0750	0.0434	1.12	0.0486	0.00E0	0.000
0.018	43.30	1.83	1.19	29.50	0.28	1503.67	3.4E-4	0.0753	0.0440	1.12	0.0492	0.00E0	0.000
0.018	43.25	1.82	1.19	29.34	0.28	1500.17	3.4E-4	0.0756	0.0445	1.12	0.0497	0.00E0	0.000
0.018	43.20	1.82	1.18	29.18	0.28	1496.66	3.4E-4	0.0759	0.0450	1.12	0.0503	0.00E0	0.000
0.018	43.15	1.82	1.18	29.02	0.28	1493.14	3.4E-4	0.0762	0.0456	1.12	0.0510	0.00E0	0.000
0.018	43.10	1.82	1.18	28.86	0.28	1489.62	3.4E-4	0.0765	0.0461	1.12	0.0516	0.00E0	0.000
0.018	43.05	1.82	1.18	28.70	0.28	1486.08	3.4E-4	0.0768	0.0467	1.12	0.0522	0.00E0	0.000
0.018	43.00	1.81	1.18	28.54	0.28	1482.53	3.4E-4	0.0771	0.0473	1.12	0.0528	0.00E0	0.000
0.018	42.95	1.81	1.18	28.38	0.28	1478.97	3.4E-4	0.0775	0.0478	1.12	0.0535	0.00E0	0.000
0.018	42.90	1.81	1.18	28.22	0.28	1475.40	3.4E-4	0.0778	0.0484	1.12	0.0541	0.00E0	0.000
0.018	42.85	1.81	1.18	28.06	0.28	1471.82	3.4E-4	0.0781	0.0490	1.12	0.0548	0.00E0	0.000
0.018	42.80	1.81	1.17	27.91	0.28	1468.23	3.5E-4	0.0784	0.0496	1.12	0.0555	0.00E0	0.000
0.018	42.75	1.80	1.17	27.75	0.28	1464.63	3.5E-4	0.0788	0.0503	1.12	0.0562	0.00E0	0.000
0.018	42.70	1.80	1.17	27.58	0.28	1461.02	3.5E-4	0.0791	0.0509	1.12	0.0569	0.00E0	0.000
0.018	42.65	1.80	1.17	27.42	0.28	1457.40	3.5E-4	0.0795	0.0515	1.12	0.0576	0.00E0	0.000
0.018	42.60	1.80	1.17	27.26	0.28	1453.76	3.5E-4	0.0798	0.0522	1.12	0.0583	0.00E0	0.000
0.018	42.55	1.80	1.17	27.10	0.28	1450.12	3.5E-4	0.0802	0.0528	1.12	0.0591	0.00E0	0.000
0.018	42.50	1.79	1.17	26.94	0.28	1446.46	3.5E-4	0.0805	0.0535	1.12	0.0598	0.00E0	0.000
0.018	42.45	1.79	1.17	26.78	0.28	1442.80	3.5E-4	0.0809	0.0542	1.12	0.0606	0.00E0	0.000
0.018	42.40	1.79	1.16	26.62	0.28	1439.12	3.5E-4	0.0812	0.0549	1.12	0.0614	0.00E0	0.000
0.018	42.35	1.79	1.16	26.46	0.28	1435.43	3.5E-4	0.0816	0.0556	1.12	0.0622	0.00E0	0.000
0.018	42.30	1.79	1.16	26.30	0.28	1431.73	3.5E-4	0.0820	0.0563	1.12	0.0630	0.00E0	0.000
0.018	42.25	1.79	1.16	26.14	0.28	1428.01	3.5E-4	0.0824	0.0571	1.12	0.0638	0.00E0	0.000
0.018	42.20	1.78	1.16	25.97	0.28	1424.29	3.5E-4	0.0828	0.0578	1.12	0.0647	0.00E0	0.000
0.018	42.15	1.78	1.16	25.81	0.28	1420.55	3.5E-4	0.0832	0.0586	1.12	0.0655	0.00E0	0.000
0.018	42.10	1.78	1.16	25.65	0.28	1416.80	3.5E-4	0.0836	0.0594	1.12	0.0664	0.00E0	0.000
0.018	42.05	1.78	1.16	25.49	0.28	1413.04	3.6E-4	0.0840	0.0602	1.12	0.0673	0.00E0	0.000
0.018	42.00	1.78	1.15	25.33	0.28	1409.31	3.6E-4	0.0844	0.0610	1.12	0.0682	0.00E0	0.000
0.018	41.95	1.77	1.15	25.55	0.28	1412.72	3.6E-4	0.0838	0.0598	1.12	0.0669	0.00E0	0.000
0.018	41.90	1.77	1.15	25.78	0.28	1416.10	3.5E-4	0.0832	0.0587	1.12	0.0657	0.00E0	0.000
0.018	41.85	1.77	1.15	26.00	0.28	1419.45	3.5E-4	0.0826	0.0576	1.12	0.0644	0.00E0	0.000
0.018	41.80	1.77	1.15	26.23	0.28	1422.78	3.5E-4	0.0820	0.0566	1.12	0.0632	0.00E0	0.000
0.018	41.75	1.77	1.15	26.46	0.28	1426.09	3.5E-4	0.0815	0.0555	1.12	0.0621	0.00E0	0.000
0.018	41.70	1.76	1.15	26.68	0.28	1429.37	3.5E-4	0.0810	0.0545	1.12	0.0610	0.00E0	0.000

0.018	41.65	1.76	1.15	26.91	0.28	1432.63	3.5E-4	0.0804	0.0535	1.12	0.0599	0.00E0	0.000
0.018	41.60	1.76	1.14	27.14	0.28	1435.87	3.5E-4	0.0799	0.0526	1.12	0.0588	0.00E0	0.000
0.018	41.55	1.76	1.14	27.37	0.28	1439.09	3.5E-4	0.0794	0.0516	1.12	0.0577	0.00E0	0.000
0.018	41.50	1.76	1.14	27.59	0.28	1442.28	3.5E-4	0.0789	0.0507	1.12	0.0567	0.00E0	0.000
0.018	41.45	1.75	1.14	27.82	0.28	1445.45	3.4E-4	0.0784	0.0498	1.12	0.0557	0.00E0	0.000
0.018	41.40	1.75	1.14	28.05	0.28	1448.60	3.4E-4	0.0779	0.0489	1.12	0.0547	0.00E0	0.000
0.018	41.35	1.75	1.14	28.28	0.28	1451.73	3.4E-4	0.0774	0.0480	1.12	0.0537	0.00E0	0.000
0.018	41.30	1.75	1.14	28.51	0.28	1454.84	3.4E-4	0.0769	0.0472	1.12	0.0528	0.00E0	0.000
0.018	41.25	1.75	1.14	28.74	0.28	1457.93	3.4E-4	0.0764	0.0464	1.12	0.0518	0.00E0	0.000
0.018	41.20	1.74	1.13	28.97	0.28	1460.99	3.4E-4	0.0760	0.0455	1.12	0.0509	0.00E0	0.000
0.018	41.15	1.74	1.13	29.20	0.29	1464.04	3.4E-4	0.0755	0.0447	1.12	0.0500	0.00E0	0.000
0.018	41.10	1.74	1.13	29.43	0.29	1467.06	3.4E-4	0.0750	0.0440	1.12	0.0492	0.00E0	0.000
0.018	41.05	1.74	1.13	29.66	0.29	1470.07	3.4E-4	0.0746	0.0432	1.12	0.0483	0.00E0	0.000
0.018	41.00	1.74	1.13	29.89	0.29	1473.06	3.4E-4	0.0742	0.0424	1.12	0.0475	0.00E0	0.000
0.018	40.95	1.74	1.13	30.12	0.29	1476.02	3.4E-4	0.0737	0.0417	1.12	0.0466	0.00E0	0.000
0.018	40.90	1.73	1.13	30.35	0.29	1478.97	3.3E-4	0.0733	0.0410	1.12	0.0458	0.00E0	0.000
0.018	40.85	1.73	1.13	30.58	0.29	1481.90	3.3E-4	0.0729	0.0403	1.12	0.0450	0.00E0	0.000
0.018	40.80	1.73	1.12	30.81	0.29	1484.81	3.3E-4	0.0725	0.0396	1.12	0.0442	0.00E0	0.000
0.018	40.75	1.73	1.12	31.04	0.29	1487.70	3.3E-4	0.0721	0.0389	1.12	0.0435	0.00E0	0.000
0.018	40.70	1.73	1.12	31.28	0.29	1490.57	3.3E-4	0.0717	0.0382	1.12	0.0427	0.00E0	0.000
0.018	40.65	1.72	1.12	31.51	0.29	1493.43	3.3E-4	0.0713	0.0375	1.12	0.0420	0.00E0	0.000
0.018	40.60	1.72	1.12	31.74	0.29	1496.26	3.3E-4	0.0709	0.0369	1.12	0.0412	0.00E0	0.000
0.018	40.55	1.72	1.12	31.97	0.29	1499.08	3.3E-4	0.0705	0.0362	1.12	0.0405	0.00E0	0.000
0.018	40.50	1.72	1.12	32.20	0.29	1501.85	3.3E-4	0.0701	0.0356	1.12	0.0398	0.00E0	0.000
0.018	40.45	1.72	1.12	32.13	0.29	1499.87	3.3E-4	0.0702	0.0358	1.12	0.0400	0.00E0	0.000
0.018	40.40	1.71	1.11	32.06	0.29	1497.90	3.3E-4	0.0703	0.0360	1.12	0.0402	0.00E0	0.000
0.018	40.35	1.71	1.11	31.98	0.29	1495.92	3.3E-4	0.0704	0.0362	1.12	0.0405	0.00E0	0.000
0.018	40.30	1.71	1.11	31.91	0.29	1493.94	3.3E-4	0.0705	0.0364	1.12	0.0407		

0.018	39.95	1.70	1.10	31.38	0.29	1480.05	3.3E-4	0.0713	0.0378	1.12	0.0423	0.00E0	0.000
0.018	39.90	1.70	1.10	31.31	0.29	1478.06	3.3E-4	0.0714	0.0380	1.12	0.0425	0.00E0	0.000
0.018	39.85	1.69	1.10	31.23	0.29	1476.07	3.3E-4	0.0715	0.0382	1.12	0.0427	0.00E0	0.000
0.018	39.80	1.69	1.10	31.16	0.29	1474.08	3.3E-4	0.0717	0.0384	1.12	0.0430	0.00E0	0.000
0.018	39.75	1.69	1.10	31.08	0.29	1472.09	3.3E-4	0.0718	0.0386	1.12	0.0432	0.00E0	0.000
0.018	39.70	1.69	1.10	31.01	0.29	1470.09	3.3E-4	0.0719	0.0389	1.12	0.0434	0.00E0	0.000
0.018	39.65	1.69	1.10	30.93	0.29	1468.10	3.3E-4	0.0720	0.0391	1.12	0.0437	0.00E0	0.000
0.018	39.60	1.68	1.09	30.86	0.29	1466.10	3.3E-4	0.0721	0.0393	1.12	0.0439	0.00E0	0.000
0.018	39.55	1.68	1.09	30.78	0.29	1464.10	3.3E-4	0.0722	0.0395	1.12	0.0442	0.00E0	0.000
0.018	39.50	1.68	1.09	30.71	0.29	1462.11	3.3E-4	0.0724	0.0397	1.12	0.0444	0.00E0	0.000
0.018	39.45	1.68	1.09	30.63	0.29	1460.11	3.3E-4	0.0725	0.0400	1.12	0.0447	0.00E0	0.000
0.018	39.40	1.68	1.09	30.55	0.29	1458.11	3.3E-4	0.0726	0.0402	1.12	0.0449	0.00E0	0.000
0.018	39.35	1.68	1.09	30.48	0.29	1456.10	3.3E-4	0.0727	0.0404	1.12	0.0452	0.00E0	0.000
0.018	39.30	1.67	1.09	30.40	0.29	1454.10	3.3E-4	0.0729	0.0406	1.12	0.0454	0.00E0	0.000
0.018	39.25	1.67	1.09	30.32	0.29	1452.09	3.3E-4	0.0730	0.0409	1.12	0.0457	0.00E0	0.000
0.018	39.20	1.67	1.09	30.25	0.29	1450.09	3.3E-4	0.0731	0.0411	1.12	0.0459	0.00E0	0.000
0.018	39.15	1.67	1.08	30.17	0.29	1448.08	3.3E-4	0.0732	0.0413	1.12	0.0462	0.00E0	0.000
0.018	39.10	1.67	1.08	30.10	0.29	1446.07	3.3E-4	0.0734	0.0415	1.12	0.0465	0.00E0	0.000
0.018	39.05	1.66	1.08	30.02	0.29	1444.06	3.4E-4	0.0735	0.0418	1.12	0.0467	0.00E0	0.000
0.018	39.00	1.66	1.08	29.94	0.29	1442.05	3.4E-4	0.0736	0.0420	1.12	0.0470	0.00E0	0.000
0.018	38.95	1.66	1.08	29.82	0.29	1439.31	3.4E-4	0.0738	0.0424	1.12	0.0474	0.00E0	0.000
0.018	38.90	1.66	1.08	29.70	0.29	1436.58	3.4E-4	0.0740	0.0428	1.12	0.0478	0.00E0	0.000
0.018	38.85	1.66	1.08	29.58	0.29	1433.83	3.4E-4	0.0743	0.0432	1.12	0.0483	0.00E0	0.000
0.018	38.80	1.66	1.08	29.45	0.29	1431.08	3.4E-4	0.0745	0.0436	1.12	0.0487	0.00E0	0.000
0.018	38.75	1.65	1.07	29.33	0.29	1428.32	3.4E-4	0.0747	0.0440	1.12	0.0492	0.00E0	0.000
0.018	38.70	1.65	1.07	29.21	0.29	1425.56	3.4E-4	0.0749	0.0444	1.12	0.0496	0.00E0	0.000
0.018	38.65	1.65	1.07	29.09	0.29	1422.79	3.4E-4	0.0751	0.0448	1.12	0.0501	0.00E0	0.000
0.018	38.60	1.65	1.07	28.97	0.29	1420.01	3.4E-4	0.0754	0.0452	1.12	0.0505	0.00E0	0.000
0.018	38.55	1.65	1.07	28.84	0.29	1417.22	3.4E-4	0.0756	0.0456	1.12	0.0510	0.00E0	0.000
0.018	38.50	1.64	1.07	28.72	0.29	1414.43	3.4E-4	0.0758	0.0460	1.12	0.0515	0.00E0	0.000
0.018	38.45	1.64	1.07	28.60	0.29	1411.63	3.4E-4	0.0760	0.0465	1.12	0.0519	0.00E0	0.000
0.018	38.40	1.64	1.07	28.48	0.29	1408.83	3.4E-4	0.0763	0.0469	1.12	0.0524	0.00E0	0.000
0.018	38.35	1.64	1.07	28.35	0.29	1406.01	3.4E-4	0.0765	0.0473	1.12	0.0529	0.00E0	0.000
0.018	38.30	1.64	1.06	28.23	0.29	1403.20	3.4E-4	0.0767	0.0478	1.12	0.0534	0.00E0	0.000
0.018	38.25	1.64	1.06	28.11	0.29	1400.37	3.4E-4	0.0770	0.0482	1.12	0.0539	0.00E0	0.000

0.018	38.20	1.63	1.06	27.98	0.29	1397.53	3.4E-4	0.0772	0.0487	1.12	0.0544	0.00E0	0.000
0.018	38.15	1.63	1.06	27.86	0.29	1394.69	3.4E-4	0.0775	0.0491	1.12	0.0549	0.00E0	0.000
0.018	38.10	1.63	1.06	27.74	0.29	1391.84	3.4E-4	0.0777	0.0496	1.12	0.0554	0.00E0	0.000
0.018	38.05	1.63	1.06	27.61	0.29	1388.99	3.4E-4	0.0779	0.0501	1.12	0.0560	0.00E0	0.000
0.018	38.00	1.63	1.06	27.49	0.29	1386.13	3.4E-4	0.0782	0.0505	1.12	0.0565	0.00E0	0.000
0.018	37.95	1.62	1.06	27.37	0.29	1383.26	3.5E-4	0.0784	0.0510	1.12	0.0570	0.00E0	0.000
0.018	37.90	1.62	1.05	27.24	0.29	1380.38	3.5E-4	0.0787	0.0515	1.12	0.0576	0.00E0	0.000
0.018	37.85	1.62	1.05	27.12	0.29	1377.49	3.5E-4	0.0790	0.0520	1.12	0.0581	0.00E0	0.000
0.018	37.80	1.62	1.05	26.99	0.29	1374.60	3.5E-4	0.0792	0.0525	1.12	0.0587	0.00E0	0.000
0.018	37.75	1.62	1.05	26.87	0.29	1371.70	3.5E-4	0.0795	0.0530	1.12	0.0593	0.00E0	0.000
0.018	37.70	1.62	1.05	26.75	0.29	1368.79	3.5E-4	0.0797	0.0535	1.12	0.0599	0.00E0	0.000
0.018	37.65	1.61	1.05	26.62	0.29	1365.87	3.5E-4	0.0800	0.0541	1.12	0.0604	0.00E0	0.000
0.018	37.60	1.61	1.05	26.50	0.29	1362.95	3.5E-4	0.0803	0.0546	1.12	0.0610	0.00E0	0.000
0.018	37.55	1.61	1.05	26.37	0.29	1360.02	3.5E-4	0.0805	0.0551	1.12	0.0616	0.00E0	0.000
0.018	37.50	1.61	1.04	26.25	0.30	1357.09	3.5E-4	0.0808	0.0557	1.12	0.0622	0.00E0	0.000
0.018	37.45	1.61	1.04	26.26	0.30	1356.49	3.5E-4	0.0808	0.0556	1.12	0.0622	0.00E0	0.000
0.018	37.40	1.60	1.04	26.27	0.30	1355.88	3.5E-4	0.0807	0.0555	1.12	0.0621	0.00E0	0.000
0.018	37.35	1.60	1.04	26.28	0.30	1355.28	3.5E-4	0.0807	0.0555	1.12	0.0620	0.00E0	0.000
0.018	37.30	1.60	1.04	26.29	0.30	1354.68	3.5E-4	0.0806	0.0554	1.12	0.0619	0.00E0	0.000
0.018	37.25	1.60	1.04	26.30	0.30	1354.07	3.5E-4	0.0806	0.0553	1.12	0.0619	0.00E0	0.000
0.018	37.20	1.60	1.04	26.31	0.30	1353.46	3.5E-4	0.0805	0.0553	1.12	0.0618	0.00E0	0.000
0.018	37.15	1.59	1.04	26.33	0.30	1352.86	3.5E-4	0.0805	0.0552	1.12	0.0617	0.00E0	0.000
0.018	37.10	1.59	1.04	26.34	0.30	1352.25	3.5E-4	0.0804	0.0551	1.12	0.0616	0.00E0	0.000
0.018	37.05	1.59	1.03	26.35	0.30	1351.64	3.5E-4	0.0804	0.0551	1.12	0.0616	0.00E0	0.000
0.018	37.00	1.59	1.03	26.36	0.30	1351.03	3.5E-4	0.0803	0.0550	1.12	0.0615	0.00E0	0.000
0.018	36.95	1.59	1.03	26.37	0.30	1350.42	3.5E-4	0.0803	0.0549	1.12	0.0614	0.00E0	0.000
0.018	36.90	1.58	1.03	26.38	0.30	1349.81	3.5E-4	0.0802	0.0549	1.12	0.0613	0.00E0	0.000
0.018	36.85	1.58	1.03	26.39	0.30	1349.20	3.5E-4	0.0802	0.0548	1.12	0.0613		

0.018	36.50	1.57	1.02	26.48	0.30	1344.89	3.5E-4	0.0798	0.0543	1.12	0.0607	0.00E0	0.000
0.018	36.45	1.57	1.02	26.49	0.30	1344.27	3.5E-4	0.0797	0.0543	1.12	0.0607	0.00E0	0.000
0.018	36.40	1.57	1.02	26.50	0.30	1343.65	3.5E-4	0.0797	0.0542	1.12	0.0606	0.00E0	0.000
0.018	36.35	1.56	1.02	26.51	0.30	1343.03	3.5E-4	0.0796	0.0541	1.12	0.0605	0.00E0	0.000
0.018	36.30	1.56	1.02	26.52	0.30	1342.41	3.5E-4	0.0796	0.0540	1.12	0.0604	0.00E0	0.000
0.018	36.25	1.56	1.01	26.53	0.30	1341.79	3.5E-4	0.0795	0.0540	1.12	0.0603	0.00E0	0.000
0.018	36.20	1.56	1.01	26.55	0.30	1341.16	3.5E-4	0.0795	0.0539	1.12	0.0603	0.00E0	0.000
0.018	36.15	1.56	1.01	26.56	0.30	1340.54	3.5E-4	0.0794	0.0538	1.12	0.0602	0.00E0	0.000
0.018	36.10	1.55	1.01	26.57	0.30	1339.91	3.5E-4	0.0794	0.0538	1.12	0.0601	0.00E0	0.000
0.018	36.05	1.55	1.01	26.58	0.30	1339.29	3.5E-4	0.0793	0.0537	1.12	0.0600	0.00E0	0.000
0.018	36.00	1.55	1.01	26.59	0.30	1338.67	3.5E-4	0.0792	0.0536	1.12	0.0600	0.00E0	0.000
0.018	35.95	1.55	1.01	26.75	0.30	1340.36	3.5E-4	0.0789	0.0530	1.12	0.0592	0.00E0	0.000
0.018	35.90	1.55	1.01	26.90	0.30	1342.04	3.5E-4	0.0785	0.0523	1.12	0.0585	0.00E0	0.000
0.018	35.85	1.54	1.00	27.05	0.30	1343.71	3.4E-4	0.0782	0.0517	1.12	0.0578	0.00E0	0.000
0.018	35.80	1.54	1.00	27.20	0.30	1345.37	3.4E-4	0.0778	0.0510	1.12	0.0571	0.00E0	0.000
0.018	35.75	1.54	1.00	27.35	0.30	1347.01	3.4E-4	0.0774	0.0504	1.12	0.0564	0.00E0	0.000
0.018	35.70	1.54	1.00	27.50	0.30	1348.65	3.4E-4	0.0771	0.0498	1.12	0.0557	0.00E0	0.000
0.018	35.65	1.54	1.00	27.65	0.30	1350.27	3.4E-4	0.0767	0.0492	1.12	0.0550	0.00E0	0.000
0.018	35.60	1.54	1.00	27.81	0.30	1351.89	3.4E-4	0.0764	0.0486	1.12	0.0543	0.00E0	0.000
0.018	35.55	1.53	1.00	27.96	0.30	1353.49	3.4E-4	0.0760	0.0480	1.12	0.0537	0.00E0	0.000
0.018	35.50	1.53	1.00	28.11	0.30	1355.09	3.4E-4	0.0757	0.0474	1.12	0.0530	0.00E0	0.000
0.018	35.45	1.53	0.99	28.26	0.30	1356.67	3.4E-4	0.0754	0.0468	1.12	0.0524	0.00E0	0.000
0.018	35.40	1.53	0.99	28.42	0.30	1358.25	3.4E-4	0.0750	0.0463	1.12	0.0517	0.00E0	0.000
0.018	35.35	1.53	0.99	28.57	0.30	1359.81	3.4E-4	0.0747	0.0457	1.12	0.0511	0.00E0	0.000
0.018	35.30	1.52	0.99	28.72	0.30	1361.36	3.4E-4	0.0744	0.0452	1.12	0.0505	0.00E0	0.000
0.018	35.25	1.52	0.99	28.88	0.30	1362.91	3.4E-4	0.0741	0.0446	1.12	0.0499	0.00E0	0.000
0.018	35.20	1.52	0.99	29.03	0.30	1364.44	3.4E-4	0.0737	0.0441	1.12	0.0493	0.00E0	0.000
0.018	35.15	1.52	0.99	29.19	0.30	1365.97	3.4E-4	0.0734	0.0435	1.12	0.0487	0.00E0	0.000
0.018	35.10	1.52	0.99	29.34	0.30	1367.48	3.3E-4	0.0731	0.0430	1.12	0.0481	0.00E0	0.000
0.018	35.05	1.51	0.98	29.49	0.30	1368.99	3.3E-4	0.0728	0.0425	1.12	0.0475	0.00E0	0.000
0.018	35.00	1.51	0.98	29.65	0.30	1370.48	3.3E-4	0.0725	0.0420	1.12	0.0469	0.00E0	0.000
0.018	34.95	1.51	0.98	29.80	0.30	1371.97	3.3E-4	0.0722	0.0415	1.12	0.0464	0.00E0	0.000
0.018	34.90	1.51	0.98	29.96	0.30	1373.44	3.3E-4	0.0719	0.0410	1.12	0.0458	0.00E0	0.000
0.018	34.85	1.51	0.98	30.12	0.30	1374.91	3.3E-4	0.0716	0.0405	1.12	0.0453	0.00E0	0.000
0.018	34.80	1.50	0.98	30.27	0.30	1376.36	3.3E-4	0.0712	0.0400	1.12	0.0447	0.00E0	0.000

0.018	34.75	1.50	0.98	30.43	0.30	1377.81	3.3E-4	0.0709	0.0395	1.12	0.0442	0.00E0	0.000
0.018	34.70	1.50	0.97	30.58	0.30	1379.25	3.3E-4	0.0707	0.0390	1.12	0.0436	0.00E0	0.000
0.018	34.65	1.50	0.97	30.74	0.30	1380.68	3.3E-4	0.0704	0.0386	1.12	0.0431	0.00E0	0.000
0.018	34.60	1.50	0.97	30.90	0.30	1382.09	3.3E-4	0.0701	0.0381	1.12	0.0426	0.00E0	0.000
0.018	34.55	1.49	0.97	31.05	0.30	1383.50	3.3E-4	0.0698	0.0376	1.12	0.0421	0.00E0	0.000
0.018	34.50	1.49	0.97	31.21	0.30	1384.89	3.3E-4	0.0695	0.0372	1.12	0.0416	0.00E0	0.000
0.018	34.45	1.49	0.97	31.18	0.30	1383.50	3.3E-4	0.0695	0.0372	1.12	0.0416	0.00E0	0.000
0.018	34.40	1.49	0.97	31.15	0.30	1382.12	3.3E-4	0.0695	0.0373	1.12	0.0417	0.00E0	0.000
0.018	34.35	1.49	0.97	31.12	0.30	1380.73	3.3E-4	0.0695	0.0374	1.12	0.0418	0.00E0	0.000
0.018	34.30	1.48	0.96	31.09	0.30	1379.35	3.3E-4	0.0696	0.0375	1.12	0.0419	0.00E0	0.000
0.018	34.25	1.48	0.96	31.05	0.30	1377.97	3.3E-4	0.0696	0.0375	1.12	0.0420	0.00E0	0.000
0.018	34.20	1.48	0.96	31.02	0.30	1376.58	3.3E-4	0.0696	0.0376	1.12	0.0420	0.00E0	0.000
0.018	34.15	1.48	0.96	30.99	0.30	1375.20	3.3E-4	0.0696	0.0377	1.12	0.0421	0.00E0	0.000
0.018	34.10	1.48	0.96	30.96	0.30	1373.82	3.3E-4	0.0696	0.0377	1.12	0.0422	0.00E0	0.000
0.018	34.05	1.47	0.96	30.93	0.30	1372.43	3.3E-4	0.0697	0.0378	1.12	0.0423	0.00E0	0.000
0.018	34.00	1.47	0.96	30.90	0.30	1371.05	3.3E-4	0.0697	0.0379	1.12	0.0423	0.00E0	0.000
0.018	33.95	1.47	0.96	30.87	0.30	1369.67	3.3E-4	0.0697	0.0379	1.12	0.0424	0.00E0	0.000
0.018	33.90	1.47	0.95	30.83	0.31	1368.29	3.3E-4	0.0697	0.0380	1.12	0.0425	0.00E0	0.000
0.018	33.85	1.47	0.95	30.80	0.31	1366.91	3.3E-4	0.0697	0.0381	1.12	0.0426	0.00E0	0.000
0.018	33.80	1.46	0.95	30.77	0.31	1365.53	3.3E-4	0.0698	0.0382	1.12	0.0427	0.00E0	0.000
0.018	33.75	1.46	0.95	30.74	0.31	1364.15	3.3E-4	0.0698	0.0382	1.12	0.0428	0.00E0	0.000
0.018	33.70	1.46	0.95	30.71	0.31	1362.77	3.3E-4	0.0698	0.0383	1.12	0.0428	0.00E0	0.000
0.018	33.65	1.46	0.95	30.67	0.31	1361.39	3.3E-4	0.0698	0.0384	1.12	0.0429	0.00E0	0.000
0.018	33.60	1.46	0.95	30.64	0.31	1360.01	3.3E-4	0.0698	0.0385	1.12	0.0430	0.00E0	0.000
0.018	33.55	1.45	0.95	30.61	0.31	1358.63	3.3E-4	0.0699	0.0385	1.12	0.0431	0.00E0	0.000
0.018	33.50	1.45	0.94	30.58	0.31	1357.26	3.3E-4	0.0699	0.0386	1.12	0.0432	0.00E0	0.000
0.018	33.45	1.45	0.94	30.55	0.31	1355.88	3.3E-4	0.0699	0.0387	1.12	0.0433	0.00E0	0.000
0.018	33.40	1.45	0.94	30.51	0.31	1354.50	3.3E-4	0.0699	0.0388	1.12	0.0433		

0.018	33.05	1.44	0.93	30.29	0.31	1344.88	3.3E-4	0.0701	0.0393	1.12	0.0439	0.00E0	0.000
0.018	33.00	1.43	0.93	30.25	0.31	1343.50	3.3E-4	0.0701	0.0394	1.12	0.0440	0.00E0	0.000
0.018	32.95	1.43	0.93	30.22	0.31	1342.13	3.3E-4	0.0701	0.0395	1.12	0.0441	0.00E0	0.000
0.018	32.90	1.43	0.93	30.19	0.31	1340.75	3.3E-4	0.0701	0.0395	1.12	0.0442	0.00E0	0.000
0.018	32.85	1.43	0.93	30.16	0.31	1339.37	3.3E-4	0.0702	0.0396	1.12	0.0443	0.00E0	0.000
0.018	32.80	1.43	0.93	30.12	0.31	1337.99	3.3E-4	0.0702	0.0397	1.12	0.0444	0.00E0	0.000
0.018	32.75	1.42	0.93	30.09	0.31	1336.60	3.3E-4	0.0702	0.0398	1.12	0.0445	0.00E0	0.000
0.018	32.70	1.42	0.92	30.06	0.31	1335.21	3.3E-4	0.0702	0.0398	1.12	0.0446	0.00E0	0.000
0.018	32.65	1.42	0.92	30.02	0.31	1333.83	3.3E-4	0.0702	0.0399	1.12	0.0446	0.00E0	0.000
0.018	32.60	1.42	0.92	29.99	0.31	1332.43	3.3E-4	0.0703	0.0400	1.12	0.0447	0.00E0	0.000
0.018	32.55	1.42	0.92	29.96	0.31	1331.04	3.3E-4	0.0703	0.0401	1.12	0.0448	0.00E0	0.000
0.018	32.50	1.41	0.92	29.93	0.31	1329.64	3.3E-4	0.0703	0.0402	1.12	0.0449	0.00E0	0.000
0.018	32.45	1.41	0.92	29.89	0.31	1328.25	3.3E-4	0.0703	0.0402	1.12	0.0450	0.00E0	0.000
0.018	32.40	1.41	0.92	29.86	0.31	1326.85	3.3E-4	0.0703	0.0403	1.12	0.0451	0.00E0	0.000
0.018	32.35	1.41	0.92	29.83	0.31	1325.44	3.3E-4	0.0704	0.0404	1.12	0.0452	0.00E0	0.000
0.018	32.30	1.41	0.91	29.79	0.31	1324.04	3.3E-4	0.0704	0.0405	1.12	0.0452	0.00E0	0.000
0.018	32.25	1.40	0.91	29.76	0.31	1322.63	3.3E-4	0.0704	0.0405	1.12	0.0453	0.00E0	0.000
0.018	32.20	1.40	0.91	29.73	0.31	1321.22	3.3E-4	0.0704	0.0406	1.12	0.0454	0.00E0	0.000
0.018	32.15	1.40	0.91	29.70	0.31	1319.81	3.3E-4	0.0704	0.0407	1.12	0.0455	0.00E0	0.000
0.018	32.10	1.40	0.91	29.66	0.31	1318.39	3.3E-4	0.0704	0.0408	1.12	0.0456	0.00E0	0.000
0.018	32.05	1.40	0.91	29.63	0.31	1316.98	3.3E-4	0.0705	0.0409	1.12	0.0457	0.00E0	0.000
0.018	32.00	1.39	0.91	29.60	0.31	1315.56	3.3E-4	0.0705	0.0409	1.12	0.0458	0.00E0	0.000
0.018	31.95	1.39	0.91	29.57	0.31	1314.14	3.3E-4	0.0705	0.0410	1.12	0.0459	0.00E0	0.000
0.018	31.90	1.39	0.90	29.53	0.31	1312.71	3.3E-4	0.0705	0.0411	1.12	0.0459	0.00E0	0.000
0.018	31.85	1.39	0.90	29.50	0.31	1311.29	3.3E-4	0.0705	0.0412	1.12	0.0460	0.00E0	0.000
0.018	31.80	1.39	0.90	29.47	0.31	1309.86	3.3E-4	0.0705	0.0412	1.12	0.0461	0.00E0	0.000
0.018	31.75	1.38	0.90	29.43	0.31	1308.43	3.3E-4	0.0706	0.0413	1.12	0.0462	0.00E0	0.000
0.018	31.70	1.38	0.90	29.40	0.31	1306.99	3.3E-4	0.0706	0.0414	1.12	0.0463	0.00E0	0.000
0.018	31.65	1.38	0.90	29.37	0.31	1305.56	3.3E-4	0.0706	0.0415	1.12	0.0464	0.00E0	0.000
0.018	31.60	1.38	0.90	29.34	0.31	1304.12	3.3E-4	0.0706	0.0416	1.12	0.0465	0.00E0	0.000
0.018	31.55	1.38	0.89	29.30	0.31	1302.68	3.3E-4	0.0706	0.0416	1.12	0.0465	0.00E0	0.000
0.018	31.50	1.37	0.89	29.27	0.31	1301.25	3.3E-4	0.0706	0.0417	1.12	0.0466	0.00E0	0.000
0.018	31.45	1.37	0.89	29.39	0.31	1301.98	3.3E-4	0.0704	0.0413	1.12	0.0462	0.00E0	0.000
0.018	31.40	1.37	0.89	29.50	0.31	1302.71	3.3E-4	0.0701	0.0409	1.12	0.0458	0.00E0	0.000
0.018	31.35	1.37	0.89	29.61	0.31	1303.43	3.3E-4	0.0699	0.0406	1.12	0.0453	0.00E0	0.000

0.018	31.30	1.37	0.89	29.73	0.31	1304.15	3.3E-4	0.0696	0.0402	1.12	0.0449	0.00E0	0.000
0.018	31.25	1.36	0.89	29.84	0.31	1304.86	3.3E-4	0.0694	0.0398	1.12	0.0445	0.00E0	0.000
0.018	31.20	1.36	0.89	29.96	0.31	1305.57	3.3E-4	0.0692	0.0394	1.12	0.0441	0.00E0	0.000
0.018	31.15	1.36	0.88	30.08	0.31	1306.28	3.3E-4	0.0689	0.0391	1.12	0.0437	0.00E0	0.000
0.018	31.10	1.36	0.88	30.19	0.31	1306.98	3.3E-4	0.0687	0.0387	1.12	0.0433	0.00E0	0.000
0.018	31.05	1.36	0.88	30.31	0.31	1307.67	3.2E-4	0.0685	0.0384	1.12	0.0429	0.00E0	0.000
0.018	31.00	1.35	0.88	30.42	0.31	1308.36	3.2E-4	0.0682	0.0380	1.12	0.0425	0.00E0	0.000
0.018	30.95	1.35	0.88	30.54	0.31	1309.05	3.2E-4	0.0680	0.0376	1.12	0.0421	0.00E0	0.000
0.018	30.90	1.35	0.88	30.66	0.31	1309.73	3.2E-4	0.0678	0.0373	1.12	0.0417	0.00E0	0.000
0.018	30.85	1.35	0.88	30.77	0.31	1310.41	3.2E-4	0.0675	0.0370	1.12	0.0413	0.00E0	0.000
0.018	30.80	1.35	0.88	30.89	0.31	1311.08	3.2E-4	0.0673	0.0366	1.12	0.0409	0.00E0	0.000
0.018	30.75	1.34	0.87	31.01	0.31	1311.75	3.2E-4	0.0671	0.0363	1.12	0.0405	0.00E0	0.000
0.018	30.70	1.34	0.87	31.12	0.31	1312.41	3.2E-4	0.0669	0.0359	1.12	0.0402	0.00E0	0.000
0.018	30.65	1.34	0.87	31.24	0.31	1313.07	3.2E-4	0.0666	0.0356	1.12	0.0398	0.00E0	0.000
0.018	30.60	1.34	0.87	31.36	0.31	1313.73	3.2E-4	0.0664	0.0353	1.12	0.0394	0.00E0	0.000
0.018	30.55	1.34	0.87	31.48	0.31	1314.38	3.2E-4	0.0662	0.0349	1.12	0.0391	0.00E0	0.000
0.018	30.50	1.33	0.87	31.59	0.31	1315.02	3.2E-4	0.0660	0.0346	1.12	0.0387	0.00E0	0.000
0.018	30.45	1.33	0.87	31.71	0.31	1315.66	3.2E-4	0.0658	0.0343	1.12	0.0383	0.00E0	0.000
0.018	30.40	1.33	0.86	31.83	0.31	1316.30	3.2E-4	0.0655	0.0339	1.12	0.0380	0.00E0	0.000
0.018	30.35	1.33	0.86	31.95	0.31	1316.93	3.2E-4	0.0653	0.0336	1.12	0.0376	0.00E0	0.000
0.018	30.30	1.33	0.86	32.07	0.32	1317.56	3.2E-4	0.0651	0.0333	1.12	0.0372	0.00E0	0.000
0.018	30.25	1.32	0.86	32.19	0.32	1318.19	3.2E-4	0.0649	0.0330	1.12	0.0369	0.00E0	0.000
0.018	30.20	1.32	0.86	32.30	0.32	1318.81	3.2E-4	0.0647	0.0327	1.12	0.0365	0.00E0	0.000
0.018	30.15	1.32	0.86	32.42	0.32	1319.42	3.2E-4	0.0645	0.0324	1.12	0.0362	0.00E0	0.000
0.018	30.10	1.32	0.86	32.54	0.32	1320.03	3.2E-4	0.0643	0.0321	1.12	0.0358	0.00E0	0.000
0.018	30.05	1.32	0.86	32.66	0.32	1320.64	3.1E-4	0.0641	0.0318	1.12	0.0355	0.00E0	0.000
0.018	30.00	1.31	0.85	32.78	0.32	1321.24	3.1E-4	0.0639	0.0315	1.12	0.0352	0.00E0	0.000
0.018	29.95	1.31	0.85	32.80	0.32	1320.49	3.1E-4	0.0638	0.0314	1.12	0.0351		

0.018	29.60	1.30	0.84	32.94	0.32	1315.29	3.1E-4	0.0630	0.0308	1.12	0.0344	0.00E0	0.000
0.018	29.55	1.30	0.84	32.96	0.32	1314.55	3.1E-4	0.0629	0.0307	1.12	0.0343	0.00E0	0.000
0.018	29.50	1.29	0.84	32.98	0.32	1313.82	3.1E-4	0.0628	0.0306	1.12	0.0342	0.00E0	0.000
0.018	29.45	1.29	0.84	33.00	0.32	1313.08	3.1E-4	0.0627	0.0305	1.12	0.0341	0.00E0	0.000
0.018	29.40	1.29	0.84	33.02	0.32	1312.34	3.1E-4	0.0625	0.0304	1.12	0.0340	0.00E0	0.000
0.018	29.35	1.29	0.84	33.04	0.32	1311.60	3.1E-4	0.0624	0.0303	1.12	0.0339	0.00E0	0.000
0.018	29.30	1.29	0.84	33.06	0.32	1310.87	3.1E-4	0.0623	0.0303	1.12	0.0338	0.00E0	0.000
0.018	29.25	1.28	0.83	33.08	0.32	1310.13	3.1E-4	0.0622	0.0302	1.12	0.0337	0.00E0	0.000
0.018	29.20	1.28	0.83	33.10	0.32	1309.40	3.1E-4	0.0621	0.0301	1.12	0.0336	0.00E0	0.000
0.018	29.15	1.28	0.83	33.11	0.32	1308.67	3.1E-4	0.0620	0.0300	1.12	0.0335	0.00E0	0.000
0.018	29.10	1.28	0.83	33.13	0.32	1307.93	3.1E-4	0.0619	0.0299	1.12	0.0335	0.00E0	0.000
0.018	29.05	1.28	0.83	33.15	0.32	1307.20	3.1E-4	0.0618	0.0298	1.12	0.0334	0.00E0	0.000
0.018	29.00	1.27	0.83	33.17	0.32	1306.47	3.1E-4	0.0617	0.0298	1.12	0.0333	0.00E0	0.000
0.018	28.95	1.27	0.83	33.19	0.32	1305.74	3.1E-4	0.0616	0.0297	1.12	0.0332	0.00E0	0.000
0.018	28.90	1.27	0.83	33.21	0.32	1305.01	3.1E-4	0.0615	0.0296	1.12	0.0331	0.00E0	0.000
0.018	28.85	1.27	0.82	33.23	0.32	1304.28	3.1E-4	0.0614	0.0295	1.12	0.0330	0.00E0	0.000
0.018	28.80	1.27	0.82	33.25	0.32	1303.55	3.1E-4	0.0613	0.0294	1.12	0.0329	0.00E0	0.000
0.018	28.75	1.27	0.82	33.27	0.32	1302.83	3.1E-4	0.0612	0.0293	1.12	0.0328	0.00E0	0.000
0.018	28.70	1.26	0.82	33.29	0.32	1302.10	3.1E-4	0.0611	0.0293	1.12	0.0327	0.00E0	0.000
0.018	28.65	1.26	0.82	33.31	0.32	1301.38	3.1E-4	0.0610	0.0292	1.12	0.0326	0.00E0	0.000
0.018	28.60	1.26	0.82	33.33	0.32	1300.65	3.1E-4	0.0609	0.0291	1.12	0.0325	0.00E0	0.000
0.018	28.55	1.26	0.82	33.35	0.32	1299.93	3.1E-4	0.0607	0.0290	1.12	0.0324	0.00E0	0.000
0.018	28.50	1.26	0.82	33.37	0.32	1299.21	3.1E-4	0.0606	0.0289	1.12	0.0324	0.00E0	0.000
0.019	28.45	1.25	0.81	33.44	0.32	1299.14	3.1E-4	0.0605	0.0288	1.12	0.0321	3.86E-4	0.000
0.019	28.40	1.25	0.81	33.51	0.32	1299.07	3.1E-4	0.0603	0.0286	1.12	0.0319	3.83E-4	0.000
0.019	28.35	1.25	0.81	33.59	0.32	1299.00	3.1E-4	0.0601	0.0284	1.12	0.0317	3.81E-4	0.000
0.020	28.30	1.25	0.81	33.66	0.32	1298.91	3.0E-4	0.0600	0.0282	1.12	0.0315	3.78E-4	0.000
0.020	28.25	1.25	0.81	33.73	0.32	1298.82	3.0E-4	0.0598	0.0280	1.12	0.0313	3.75E-4	0.000
0.021	28.20	1.24	0.81	33.80	0.32	1298.73	3.0E-4	0.0596	0.0278	1.12	0.0311	3.73E-4	0.000
0.021	28.15	1.24	0.81	33.87	0.32	1298.63	3.0E-4	0.0595	0.0276	1.12	0.0309	3.70E-4	0.000
0.021	28.10	1.24	0.81	33.95	0.32	1298.52	3.0E-4	0.0593	0.0274	1.12	0.0307	3.68E-4	0.000
0.022	28.05	1.24	0.80	34.02	0.32	1298.40	3.0E-4	0.0591	0.0272	1.12	0.0304	3.65E-4	0.000
0.022	28.00	1.24	0.80	34.09	0.32	1298.28	3.0E-4	0.0590	0.0270	1.12	0.0302	3.63E-4	0.000
0.022	27.95	1.23	0.80	34.17	0.32	1298.15	3.0E-4	0.0588	0.0269	1.12	0.0300	3.60E-4	0.000
0.022	27.90	1.23	0.80	34.24	0.32	1298.02	3.0E-4	0.0586	0.0267	1.12	0.0298	3.58E-4	0.000

0.023	27.85	1.23	0.80	32.96	0.32	1280.57	3.1E-4	0.0601	0.0293	1.12	0.0328	3.93E-4	0.000
0.023	27.80	1.23	0.80	33.03	0.32	1280.41	3.0E-4	0.0599	0.0291	1.12	0.0326	3.91E-4	0.000
0.024	27.75	1.23	0.80	33.10	0.32	1280.25	3.0E-4	0.0597	0.0289	1.12	0.0323	3.88E-4	0.000
0.024	27.70	1.22	0.80	33.17	0.32	1280.08	3.0E-4	0.0595	0.0287	1.12	0.0321	3.85E-4	0.000
0.024	27.65	1.22	0.79	33.25	0.32	1279.91	3.0E-4	0.0594	0.0285	1.12	0.0319	3.83E-4	0.000
0.025	27.60	1.22	0.79	33.32	0.32	1279.72	3.0E-4	0.0592	0.0283	1.12	0.0317	3.80E-4	0.000
0.025	27.55	1.22	0.79	33.39	0.32	1279.53	3.0E-4	0.0590	0.0281	1.12	0.0315	3.77E-4	0.000
0.025	27.50	1.22	0.79	33.46	0.32	1279.34	3.0E-4	0.0588	0.0279	1.12	0.0312	3.75E-4	0.000
0.026	27.45	1.21	0.79	33.54	0.32	1279.14	3.0E-4	0.0587	0.0277	1.12	0.0310	3.72E-4	0.000
0.026	27.40	1.21	0.79	33.61	0.32	1278.93	3.0E-4	0.0585	0.0276	1.12	0.0308	3.70E-4	0.000
0.027	27.35	1.21	0.79	33.68	0.32	1278.71	3.0E-4	0.0583	0.0274	1.12	0.0306	3.67E-4	0.000
0.027	27.30	1.21	0.78	33.76	0.32	1278.49	3.0E-4	0.0581	0.0272	1.12	0.0304	3.64E-4	0.000
0.027	27.25	1.20	0.78	33.83	0.32	1278.26	3.0E-4	0.0580	0.0270	1.12	0.0302	3.62E-4	0.000
0.028	27.20	1.20	0.78	33.90	0.32	1278.02	3.0E-4	0.0578	0.0268	1.12	0.0299	3.59E-4	0.000
0.028	27.15	1.20	0.78	33.98	0.32	1277.78	3.0E-4	0.0576	0.0266	1.12	0.0297	3.57E-4	0.000
0.028	27.10	1.20	0.78	34.05	0.32	1277.53	3.0E-4	0.0574	0.0264	1.12	0.0295	3.54E-4	0.000
0.029	27.05	1.20	0.78	34.13	0.32	1277.27	3.0E-4	0.0572	0.0262	1.12	0.0293	3.52E-4	0.000
0.029	27.00	1.19	0.78	34.20	0.32	1277.00	3.0E-4	0.0571	0.0260	1.12	0.0291	0.00E0	0.000
0.029	26.95	1.19	0.77	34.08	0.32	1274.26	3.0E-4	0.0571	0.0262	1.12	0.0293	0.00E0	0.000
0.029	26.90	1.19	0.77	33.95	0.32	1271.51	3.0E-4	0.0572	0.0264	1.12	0.0295	0.00E0	0.000
0.029	26.85	1.19	0.77	33.83	0.32	1268.76	3.0E-4	0.0572	0.0266	1.12	0.0298	0.00E0	0.000
0.029	26.80	1.18	0.77	33.70	0.32	1266.02	3.0E-4	0.0573	0.0268	1.12	0.0300	0.00E0	0.000
0.029	26.75	1.18	0.77	33.57	0.32	1263.28	3.0E-4	0.0573	0.0271	1.12	0.0302	0.00E0	0.000
0.029	26.70	1.18	0.77	33.45	0.32	1260.53	3.0E-4	0.0574	0.0273	1.12	0.0305	0.00E0	0.000
0.029	26.65	1.18	0.77	33.32	0.32	1257.79	3.0E-4	0.0574	0.0275	1.12	0.0307	0.00E0	0.000
0.029	26.60	1.18	0.76	33.19	0.32	1255.05	3.0E-4	0.0575	0.0277	1.12	0.0310	0.00E0	0.000
0.029	26.55	1.17	0.76	33.06	0.32	1252.31	3.0E-4	0.0575	0.0279	1.12	0.0312	0.00E0	0.000
0.029	26.50	1.17	0.76	32.94	0.32	1249.57	3.0E-4	0.0576	0.0281	1.			

0.029	26.15	1.16	0.75	32.03	0.32	1230.42	3.0E-4	0.0581	0.0298	1.12	0.0333	0.00E0	0.000
0.029	26.10	1.16	0.75	31.90	0.32	1227.68	3.0E-4	0.0581	0.0300	1.12	0.0336	0.00E0	0.000
0.029	26.05	1.15	0.75	31.77	0.32	1224.95	3.0E-4	0.0882	0.0458	1.12	0.0512	0.00E0	0.000
0.029	26.00	1.15	0.75	31.63	0.32	1222.22	3.0E-4	0.0884	0.0462	1.12	0.0517	0.00E0	0.000
0.029	25.95	1.15	0.75	31.50	0.32	1219.48	3.0E-4	0.0886	0.0467	1.12	0.0522	0.00E0	0.000
0.029	25.90	1.15	0.75	31.37	0.32	1216.75	3.0E-4	0.0888	0.0471	1.12	0.0527	0.00E0	0.000
0.029	25.85	1.15	0.74	31.24	0.32	1214.02	3.0E-4	0.0890	0.0475	1.12	0.0531	0.00E0	0.000
0.029	25.80	1.14	0.74	31.10	0.32	1211.29	3.0E-4	0.0892	0.0480	1.12	0.0536	0.00E0	0.000
0.029	25.75	1.14	0.74	30.97	0.32	1208.56	3.0E-4	0.0894	0.0484	1.12	0.0541	0.00E0	0.000
0.029	25.70	1.14	0.74	30.84	0.32	1205.83	3.0E-4	0.0896	0.0489	1.12	0.0546	0.00E0	0.000
0.029	25.65	1.14	0.74	30.70	0.32	1203.09	3.0E-4	0.0898	0.0493	1.12	0.0552	0.00E0	0.000
0.029	25.60	1.14	0.74	30.57	0.32	1200.36	3.0E-4	0.0901	0.0498	1.12	0.0557	0.00E0	0.000
0.029	25.55	1.13	0.74	30.43	0.32	1197.63	3.0E-4	0.0903	0.0503	1.12	0.0562	0.00E0	0.000
0.029	25.50	1.13	0.74	30.30	0.32	1194.91	3.0E-4	0.0905	0.0508	1.12	0.0567	0.00E0	0.000
0.029	25.45	1.13	0.74	30.57	0.32	1197.55	3.0E-4	0.0894	0.0494	1.12	0.0553	0.00E0	0.000
0.029	25.40	1.13	0.73	30.85	0.32	1200.17	3.0E-4	0.0884	0.0482	1.12	0.0539	0.00E0	0.000
0.029	25.35	1.13	0.73	31.12	0.32	1202.77	3.0E-4	0.0873	0.0469	1.12	0.0525	0.00E0	0.000
0.029	25.30	1.13	0.73	31.40	0.32	1205.34	3.0E-4	0.0863	0.0457	1.12	0.0511	0.00E0	0.000
0.029	25.25	1.12	0.73	31.68	0.32	1207.89	3.0E-4	0.0853	0.0446	1.12	0.0498	0.00E0	0.000
0.029	25.20	1.12	0.73	31.96	0.32	1210.41	3.0E-4	0.0844	0.0434	1.12	0.0485	0.00E0	0.000
0.029	25.15	1.12	0.73	32.24	0.32	1212.91	3.0E-4	0.0834	0.0423	1.12	0.0473	0.00E0	0.000
0.029	25.10	1.12	0.73	32.52	0.32	1215.38	2.9E-4	0.0825	0.0412	1.12	0.0461	0.00E0	0.000
0.029	25.05	1.12	0.73	32.79	0.32	1217.83	2.9E-4	0.0816	0.0401	1.12	0.0449	0.00E0	0.000
0.029	25.00	1.11	0.72	33.08	0.32	1220.26	2.9E-4	0.0807	0.0391	1.12	0.0437	0.00E0	0.000
0.029	24.95	1.11	0.72	33.36	0.32	1222.67	2.9E-4	0.0798	0.0381	1.12	0.0426	0.00E0	0.000
0.029	24.90	1.11	0.72	33.64	0.32	1225.05	2.9E-4	0.0789	0.0371	1.12	0.0415	0.00E0	0.000
0.029	24.85	1.11	0.72	33.92	0.32	1227.41	2.9E-4	0.0781	0.0362	1.12	0.0404	0.00E0	0.000
0.029	24.80	1.11	0.72	34.20	0.32	1229.75	2.9E-4	0.0773	0.0352	1.12	0.0394	0.00E0	0.000
0.029	24.75	1.10	0.72	34.49	0.32	1232.07	2.9E-4	0.0764	0.0343	1.12	0.0383	0.00E0	0.000
0.029	24.70	1.10	0.72	34.77	0.32	1234.36	2.9E-4	0.0756	0.0334	1.12	0.0373	0.00E0	0.000
0.029	24.65	1.10	0.72	35.05	0.32	1236.64	2.9E-4	0.0749	0.0325	1.12	0.0364	0.00E0	0.000
0.029	24.60	1.10	0.71	35.34	0.32	1238.89	2.8E-4	0.0741	0.0317	1.12	0.0354	0.00E0	0.000
0.029	24.55	1.10	0.71	35.62	0.32	1241.12	2.8E-4	0.0733	0.0308	1.12	0.0345	0.00E0	0.000
0.029	24.50	1.10	0.71	35.91	0.32	1243.33	2.8E-4	0.0726	0.0300	1.12	0.0335	0.00E0	0.000
0.029	24.45	1.09	0.71	36.20	0.32	1245.51	2.8E-4	0.0719	0.0292	1.12	0.0326	0.00E0	0.000

0.029	24.40	1.09	0.71	36.48	0.32	1247.68	2.8E-4	0.0712	0.0284	1.12	0.0318	0.00E0	0.000
0.029	24.35	1.09	0.71	36.77	0.32	1249.83	2.8E-4	0.0705	0.0276	1.12	0.0309	0.00E0	0.000
0.029	24.30	1.09	0.71	37.06	0.32	1251.95	2.8E-4	0.0698	0.0269	1.12	0.0300	0.00E0	0.000
0.029	24.25	1.09	0.71	37.35	0.32	1254.06	2.8E-4	0.0691	0.0261	1.12	0.0292	0.00E0	0.000
0.029	24.20	1.08	0.70	37.64	0.32	1256.14	2.8E-4	0.0685	0.0254	1.12	0.0284	0.00E0	0.000
0.029	24.15	1.08	0.70	37.93	0.32	1258.20	2.8E-4	0.0678	0.0247	1.12	0.0276	0.00E0	0.000
0.029	24.10	1.08	0.70	38.22	0.32	1260.25	2.7E-4	0.0672	0.0240	1.12	0.0268	0.00E0	0.000
0.029	24.05	1.08	0.70	38.51	0.32	1262.27	2.7E-4	0.0665	0.0233	1.12	0.0260	0.00E0	0.000
0.029	24.00	1.08	0.70	38.81	0.32	1264.27	2.7E-4	0.0659	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.95	1.07	0.70	38.78	0.32	1262.84	2.7E-4	0.0658	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.90	1.07	0.70	38.76	0.32	1261.41	2.7E-4	0.0657	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.85	1.07	0.70	38.74	0.32	1259.97	2.7E-4	0.0656	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.80	1.07	0.69	38.71	0.32	1258.54	2.7E-4	0.0655	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.75	1.07	0.69	38.69	0.32	1257.10	2.7E-4	0.0654	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.70	1.06	0.69	38.67	0.32	1255.67	2.7E-4	0.0653	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.65	1.06	0.69	38.64	0.32	1254.23	2.7E-4	0.0651	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.60	1.06	0.69	38.62	0.32	1252.80	2.7E-4	0.0650	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.55	1.06	0.69	38.60	0.32	1251.36	2.7E-4	0.0649	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.50	1.06	0.69	38.57	0.32	1249.93	2.7E-4	0.0648	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.45	1.05	0.68	38.55	0.32	1248.49	2.7E-4	0.0647	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.40	1.05	0.68	38.53	0.32	1247.06	2.7E-4	0.0646	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.35	1.05	0.68	38.50	0.32	1245.62	2.7E-4	0.0645	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.30	1.05	0.68	38.48	0.32	1244.18	2.7E-4	0.0644	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.25	1.05	0.68	38.46	0.32	1242.74	2.7E-4	0.0643	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.20	1.04	0.68	38.43	0.32	1241.31	2.7E-4	0.0641	0.0226	1.12	0.0253	0.00E0	0.000
0.029	23.15	1.04	0.68	38.41	0.32	1239.87	2.7E-4	0.0640	0.0226	1.12	0.0252	0.00E0	0.000
0.029	23.10	1.04	0.68	38.38	0.32	1238.43	2.7E-4	0.0639	0.0226	1.12	0.0252	0.00E0	0.000
0.029	23.05	1.04	0.67	38.36	0.32	1236.99	2.7E-4	0.0638	0.0226	1.12	0.0252		

0.029	22.70	1.02	0.67	38.19	0.32	1226.91	2.7E-4	0.0631	0.0226	1.12	0.0252	0.00E0	0.000
0.029	22.65	1.02	0.66	38.17	0.32	1225.47	2.7E-4	0.0629	0.0226	1.12	0.0252	0.00E0	0.000
0.029	22.60	1.02	0.66	38.14	0.32	1224.02	2.7E-4	0.0628	0.0226	1.12	0.0252	0.00E0	0.000
0.029	22.55	1.02	0.66	38.12	0.32	1222.58	2.7E-4	0.0627	0.0226	1.12	0.0252	0.00E0	0.000
0.029	22.50	1.02	0.66	38.10	0.32	1221.14	2.7E-4	0.0626	0.0225	1.12	0.0252	0.00E0	0.000
0.029	22.45	1.01	0.66	38.18	0.32	1220.85	2.7E-4	0.0624	0.0223	1.12	0.0250	0.00E0	0.000
0.029	22.40	1.01	0.66	38.27	0.32	1220.57	2.7E-4	0.0621	0.0221	1.12	0.0247	0.00E0	0.000
0.029	22.35	1.01	0.66	38.35	0.32	1220.28	2.7E-4	0.0618	0.0219	1.12	0.0245	0.00E0	0.000
0.029	22.30	1.01	0.66	38.43	0.32	1219.98	2.7E-4	0.0616	0.0217	1.12	0.0242	0.00E0	0.000
0.029	22.25	1.01	0.65	38.52	0.32	1219.69	2.7E-4	0.0613	0.0215	1.12	0.0240	0.00E0	0.000
0.029	22.20	1.00	0.65	38.60	0.32	1219.40	2.7E-4	0.0610	0.0212	1.12	0.0237	0.00E0	0.000
0.029	22.15	1.00	0.65	38.69	0.32	1219.10	2.6E-4	0.0608	0.0210	1.12	0.0235	0.00E0	0.000
0.029	22.10	1.00	0.65	38.78	0.32	1218.80	2.6E-4	0.0605	0.0208	1.12	0.0233	0.00E0	0.000
0.029	22.05	1.00	0.65	38.86	0.32	1218.50	2.6E-4	0.0603	0.0206	1.12	0.0230	0.00E0	0.000
0.029	22.00	1.00	0.65	38.95	0.32	1218.20	2.6E-4	0.0600	0.0204	1.12	0.0228	0.00E0	0.000
0.029	21.95	0.99	0.65	39.03	0.32	1217.90	2.6E-4	0.0598	0.0202	1.12	0.0226	0.00E0	0.000
0.029	21.90	0.99	0.64	39.12	0.32	1217.59	2.6E-4	0.0595	0.0200	1.12	0.0223	0.00E0	0.000
0.029	21.85	0.99	0.64	39.21	0.32	1217.28	2.6E-4	0.0593	0.0198	1.12	0.0221	0.00E0	0.000
0.029	21.80	0.99	0.64	39.29	0.32	1216.98	2.6E-4	0.0590	0.0196	1.12	0.0219	0.00E0	0.000
0.029	21.75	0.99	0.64	39.38	0.32	1216.67	2.6E-4	0.0588	0.0194	1.12	0.0217	0.00E0	0.000
0.029	21.70	0.98	0.64	39.47	0.32	1216.36	2.6E-4	0.0585	0.0192	1.12	0.0214	0.00E0	0.000
0.029	21.65	0.98	0.64	39.55	0.32	1216.04	2.6E-4	0.0583	0.0190	1.12	0.0212	0.00E0	0.000
0.029	21.60	0.98	0.64	39.64	0.32	1215.73	2.6E-4	0.0580	0.0188	1.12	0.0210	0.00E0	0.000
0.029	21.55	0.98	0.64	39.73	0.32	1215.41	2.6E-4	0.0578	0.0186	1.12	0.0208	0.00E0	0.000
0.029	21.50	0.98	0.63	39.82	0.32	1215.09	2.6E-4	0.0576	0.0184	1.12	0.0206	0.00E0	0.000
0.029	21.45	0.97	0.63	39.90	0.32	1214.77	2.6E-4	0.0573	0.0182	1.12	0.0204	0.00E0	0.000
0.029	21.40	0.97	0.63	39.99	0.32	1214.45	2.6E-4	0.0571	0.0180	1.12	0.0201	0.00E0	0.000
0.029	21.35	0.97	0.63	40.08	0.32	1214.13	2.6E-4	0.0569	0.0180	1.12	0.0201	0.00E0	0.000
0.029	21.30	0.97	0.63	40.17	0.32	1213.80	2.6E-4	0.0566	0.0179	1.12	0.0200	0.00E0	0.000
0.029	21.25	0.97	0.63	40.26	0.32	1213.48	2.6E-4	0.0564	0.0178	1.12	0.0199	0.00E0	0.000
0.029	21.20	0.96	0.63	40.35	0.32	1213.15	2.6E-4	0.0562	0.0178	1.12	0.0199	0.00E0	0.000
0.029	21.15	0.96	0.63	40.43	0.32	1212.82	2.6E-4	0.0559	0.0177	1.12	0.0198	0.00E0	0.000
0.029	21.10	0.96	0.62	40.52	0.32	1212.49	2.6E-4	0.0557	0.0176	1.12	0.0197	0.00E0	0.000
0.029	21.05	0.96	0.62	40.61	0.32	1212.16	2.6E-4	0.0555	0.0175	1.12	0.0196	0.00E0	0.000
0.029	21.00	0.96	0.62	40.70	0.32	1211.82	2.6E-4	0.0552	0.0175	1.12	0.0195	0.00E0	0.000

0.029	19.25	0.89	0.58	37.32	0.32	1134.83	2.5E-4	0.0547	0.0207	1.12	0.0232	0.00E0	0.000
0.029	19.20	0.89	0.58	37.12	0.32	1131.56	2.5E-4	0.0548	0.0210	1.12	0.0235	0.00E0	0.000
0.029	19.15	0.89	0.58	36.93	0.32	1128.29	2.5E-4	0.0550	0.0213	1.12	0.0239	0.00E0	0.000
0.029	19.10	0.88	0.57	36.73	0.32	1125.00	2.5E-4	0.0551	0.0216	1.12	0.0242	0.00E0	0.000
0.029	19.05	0.88	0.57	36.53	0.32	1121.71	2.6E-4	0.0552	0.0220	1.12	0.0246	0.00E0	0.000
0.029	19.00	0.88	0.57	36.33	0.32	1118.40	2.6E-4	0.0553	0.0223	1.12	0.0249	0.00E0	0.000
0.029	18.95	0.88	0.57	36.13	0.32	1115.09	2.6E-4	0.0554	0.0226	1.12	0.0253	0.00E0	0.000
0.029	18.90	0.88	0.57	35.93	0.32	1111.76	2.6E-4	0.0555	0.0229	1.12	0.0256	0.00E0	0.000
0.029	18.85	0.87	0.57	35.72	0.32	1108.43	2.6E-4	0.0557	0.0232	1.12	0.0260	0.00E0	0.000
0.029	18.80	0.87	0.57	35.52	0.32	1105.08	2.6E-4	0.0558	0.0236	1.12	0.0264	0.00E0	0.000
0.029	18.75	0.87	0.57	35.32	0.32	1101.73	2.6E-4	0.0559	0.0239	1.12	0.0267	0.00E0	0.000
0.029	18.70	0.87	0.56	35.12	0.32	1098.36	2.6E-4	0.0560	0.0242	1.12	0.0271	0.00E0	0.000
0.029	18.65	0.87	0.56	34.92	0.32	1094.98	2.6E-4	0.0562	0.0246	1.12	0.0275	0.00E0	0.000
0.029	18.60	0.86	0.56	34.71	0.32	1091.59	2.6E-4	0.0563	0.0249	1.12	0.0279	0.00E0	0.000
0.029	18.55	0.86	0.56	34.51	0.32	1088.19	2.6E-4	0.0564	0.0253	1.12	0.0283	0.00E0	0.000
0.029	18.50	0.86	0.56	34.31	0.33	1084.78	2.6E-4	0.0566	0.0256	1.12	0.0287	0.00E0	0.000
0.029	18.45	0.86	0.56	34.10	0.33	1081.36	2.6E-4	0.0567	0.0260	1.12	0.0291	0.00E0	0.000
0.029	18.40	0.86	0.56	33.90	0.33	1077.93	2.6E-4	0.0568	0.0263	1.12	0.0295	0.00E0	0.000
0.029	18.35	0.85	0.55	33.69	0.33	1074.48	2.6E-4	0.0570	0.0267	1.12	0.0299	0.00E0	0.000
0.029	18.30	0.85	0.55	33.49	0.33	1071.03	2.6E-4	0.0571	0.0271	1.12	0.0303	0.00E0	0.000
0.029	18.25	0.85	0.55	33.28	0.33	1067.56	2.6E-4	0.0573	0.0275	1.12	0.0307	0.00E0	0.000
0.029	18.20	0.85	0.55	33.07	0.33	1064.08	2.6E-4	0.0574	0.0278	1.12	0.0311	0.00E0	0.000
0.029	18.15	0.85	0.55	32.87	0.33	1060.59	2.6E-4	0.0575	0.0282	1.12	0.0316	0.00E0	0.000
0.029	18.10	0.84	0.55	32.66	0.33	1057.08	2.6E-4	0.0577	0.0286	1.12	0.0320	0.00E0	0.000
0.029	18.05	0.84	0.55	32.45	0.33	1053.57	2.6E-4	0.0579	0.0290	1.12	0.0324	0.00E0	0.000
0.029	18.00	0.84	0.55	32.25	0.33	1050.04	2.6E-4	0.0580	0.0294	1.12	0.0329	0.00E0	0.000
0.029	17.95	0.84	0.54	32.28	0.33	1049.09	2.6E-4	0.0578	0.0292	1.12	0.0327	3.92E-4	0.000
0.030	17.90	0.84	0.54	32.31	0.33	1048.13	2.6E-4	0.0576	0.0291	1.12	0.0325	3.90E-4	0.000
0.030	17.85	0.83	0.54	32.34	0.33	1047.16	2.6E-4	0.0574	0.0289	1.12	0.0324	3.88E-4	0.000
0.031	17.80	0.83	0.54	32.37	0.33	1046.18	2.6E-4	0.0572	0.0288	1.12	0.0322	3.86E-4	0.000
0.031	17.75	0.83	0.54	32.40	0.33	1045.20	2.6E-4	0.0569	0.0286	1.12	0.0320	3.84E-4	0.000
0.031	17.70	0.83	0.54	32.43	0.33	1044.21	2.6E-4	0.0567	0.0285	1.12	0.0318	3.82E-4	0.000
0.032	17.65	0.82	0.54	32.47	0.33	1043.22	2.6E-4	0.0565	0.0283	1.12	0.0316	3.80E-4	0.000
0.032	17.60	0.82	0.53	32.50	0.33	1042.21	2.6E-4	0.0563	0.0281	1.12	0.0315	3.78E-4	0.000
0.032	17.55	0.82	0.53	32.53	0.33	1041.20	2.6E-4	0.0561	0.0280	1.12	0.0313	3.76E-4	0.000

0.033	17.50	0.82	0.53	32.57	0.33	1040.18	2.6E-4	0.0559	0.0278	1.12	0.0311	3.73E-4	0.000
0.033	17.45	0.82	0.53	32.60	0.33	1039.16	2.6E-4	0.0556	0.0277	1.12	0.0309	3.71E-4	0.000
0.033	17.40	0.81	0.53	32.63	0.33	1038.12	2.6E-4	0.0554	0.0275	1.12	0.0308	3.69E-4	0.000
0.034	17.35	0.81	0.53	32.67	0.33	1037.08	2.6E-4	0.0552	0.0274	1.12	0.0306	3.67E-4	0.000
0.034	17.30	0.81	0.53	32.70	0.33	1036.03	2.5E-4	0.0550	0.0272	1.12	0.0304	3.65E-4	0.000
0.034	17.25	0.81	0.52	32.74	0.33	1034.98	2.5E-4	0.0547	0.0270	1.12	0.0302	3.63E-4	0.000
0.035	17.20	0.80	0.52	32.77	0.33	1033.91	2.5E-4	0.0545	0.0269	1.12	0.0300	3.61E-4	0.000
0.035	17.15	0.80	0.52	32.81	0.33	1032.84	2.5E-4	0.0543	0.0267	1.12	0.0299	3.58E-4	0.000
0.035	17.10	0.80	0.52	32.85	0.33	1031.76	2.5E-4	0.0541	0.0266	1.12	0.0297	3.56E-4	0.000
0.036	17.05	0.80	0.52	32.88	0.33	1030.68	2.5E-4	0.0539	0.0264	1.12	0.0295	3.54E-4	0.000
0.036	17.00	0.80	0.52	32.92	0.33	1029.58	2.5E-4	0.0536	0.0262	1.12	0.0293	3.52E-4	0.000
0.037	16.95	0.79	0.52	32.96	0.33	1028.48	2.5E-4	0.0534	0.0261	1.12	0.0291	3.50E-4	0.000
0.037	16.90	0.79	0.51	32.99	0.33	1027.37	2.5E-4	0.0532	0.0259	1.12	0.0290	3.48E-4	0.000
0.037	16.85	0.79	0.51	33.03	0.33	1026.25	2.5E-4	0.0530	0.0257	1.12	0.0288	3.45E-4	0.000
0.038	16.80	0.79	0.51	33.07	0.33	1025.13	2.5E-4	0.0527	0.0256	1.12	0.0286	3.43E-4	0.000
0.038	16.75	0.78	0.51	33.11	0.33	1023.99	2.5E-4	0.0525	0.0254	1.12	0.0284	3.41E-4	0.000
0.038	16.70	0.78	0.51	33.15	0.33	1022.85	2.5E-4	0.0523	0.0253	1.12	0.0282	3.39E-4	0.000
0.039	16.65	0.78	0.51	33.19	0.33	1021.70	2.5E-4	0.0521	0.0251	1.12	0.0280	3.37E-4	0.000
0.039	16.60	0.78	0.51	33.23	0.33	1020.54	2.5E-4	0.0518	0.0249	1.12	0.0279	3.34E-4	0.000
0.039	16.55	0.77	0.50	33.27	0.33	1019.38	2.5E-4	0.0516	0.0248	1.12	0.0277	3.32E-4	0.000
0.040	16.50	0.77	0.50	33.31	0.33	1018.20	2.5E-4	0.0514	0.0246	1.12	0.0275	3.30E-4	0.000
0.040	16.45	0.77	0.50	33.66	0.33	1020.18	2.5E-4	0.0508	0.0238	1.12	0.0267	3.20E-4	0.000
0.040	16.40	0.77	0.50	34.01	0.33	1022.13	2.5E-4	0.0502	0.0231	1.12	0.0258	3.10E-4	0.000
0.041	16.35	0.76	0.50	34.37	0.33	1024.06	2.4E-4	0.0496	0.0224	1.12	0.0250	3.01E-4	0.000
0.041	16.30	0.76	0.50	34.72	0.33	1025.96	2.4E-4	0.0490	0.0217	1.12	0.0243	2.91E-4	0.000
0.041	16.25	0.76	0.49	35.08	0.33	1027.84	2.4E-4	0.0485	0.0210	1.12	0.0235	2.82E-4	0.000
0.041	16.20	0.76	0.49	35.44	0.33	1029.70	2.4E-4	0.0480	0.0204	1.12	0.0228	2.73E-4	0.000
0.042	16.15	0.76	0.49	35.80	0.33	1031.54	2.4E-4	0.0474	0.0				

0.044	15.80	0.74	0.48	38.34	0.33	1043.77	2.3E-4	0.0441	0.0156	1.12	0.0175	2.10E-4	0.000
0.044	15.75	0.74	0.48	38.71	0.33	1045.43	2.3E-4	0.0436	0.0151	1.12	0.0169	2.02E-4	0.000
0.044	15.70	0.73	0.48	39.08	0.33	1047.07	2.3E-4	0.0432	0.0146	1.12	0.0163	1.95E-4	0.000
0.044	15.65	0.73	0.48	39.45	0.33	1048.69	2.3E-4	0.0428	0.0140	1.12	0.0157	1.88E-4	0.000
0.044	15.60	0.73	0.47	39.82	0.33	1050.29	2.3E-4	0.0424	0.0135	1.12	0.0151	1.82E-4	0.000
0.045	15.55	0.73	0.47	40.19	0.33	1051.87	2.3E-4	0.0420	0.0133	1.12	0.0148	1.78E-4	0.000
0.045	15.50	0.72	0.47	40.56	0.33	1053.44	2.3E-4	0.0416	0.0131	1.12	0.0147	1.76E-4	0.000
0.045	15.45	0.72	0.47	40.94	0.33	1054.98	2.2E-4	0.0412	0.0130	1.12	0.0146	1.75E-4	0.000
0.045	15.40	0.72	0.47	41.31	0.33	1056.50	2.2E-4	0.0408	0.0129	1.12	0.0144	1.73E-4	0.000
0.045	15.35	0.72	0.47	41.69	0.33	1058.00	2.2E-4	0.0404	0.0128	1.12	0.0143	1.72E-4	0.000
0.045	15.30	0.72	0.47	42.07	0.33	1059.49	2.2E-4	0.0401	0.0127	1.12	0.0142	1.70E-4	0.000
0.046	15.25	0.71	0.46	42.45	0.33	1060.96	2.2E-4	0.0397	0.0126	1.12	0.0140	1.68E-4	0.000
0.046	15.20	0.71	0.46	42.83	0.33	1062.40	2.2E-4	0.0394	0.0124	1.12	0.0139	1.67E-4	0.000
0.046	15.15	0.71	0.46	43.21	0.33	1063.83	2.2E-4	0.0390	0.0123	1.12	0.0138	1.66E-4	0.000
0.046	15.10	0.71	0.46	43.59	0.33	1065.25	2.2E-4	0.0387	0.0122	1.12	0.0137	1.64E-4	0.000
0.046	15.05	0.70	0.46	43.98	0.33	1066.64	2.2E-4	0.0383	0.0121	1.12	0.0136	1.63E-4	0.000
0.046	15.00	0.70	0.46	44.36	0.33	1068.02	2.2E-4	0.0380	0.0120	1.12	0.0134	1.61E-4	0.000
0.047	14.95	0.70	0.45	45.47	0.33	1075.05	2.1E-4	0.0373	0.0118	1.12	0.0132	1.58E-4	0.000
0.047	14.90	0.70	0.45	46.53	0.33	1081.56	2.1E-4	0.0367	0.0116	1.12	0.0130	1.56E-4	0.000
0.047	14.85	0.70	0.45	47.38	0.33	1086.30	2.1E-4	0.0361	0.0114	1.12	0.0128	1.53E-4	0.000
0.047	14.80	0.69	0.45	48.23	0.33	1090.95	2.1E-4	0.0356	0.0113	1.12	0.0126	1.51E-4	0.000
0.047	14.75	0.69	0.45	44.59	0.33	1061.02	2.1E-4	0.0373	0.0118	1.12	0.0132	1.58E-4	0.000
0.047	14.70	0.69	0.45	45.34	0.33	1065.07	2.1E-4	0.0368	0.0116	1.12	0.0130	1.56E-4	0.000
0.047	14.65	0.69	0.45	46.09	0.33	1069.05	2.1E-4	0.0363	0.0115	1.12	0.0129	1.54E-4	0.000
0.048	14.60	0.68	0.44	46.84	0.33	1072.96	2.1E-4	0.0359	0.0113	1.12	0.0127	1.52E-4	0.000
0.048	14.55	0.68	0.44	47.59	0.33	1076.81	2.1E-4	0.0354	0.0112	1.12	0.0125	1.50E-4	0.000
0.048	14.50	0.68	0.44	48.35	0.33	1080.60	2.1E-4	0.0350	0.0111	1.12	0.0124	1.48E-4	0.000
0.048	14.45	0.68	0.44	49.12	0.33	1084.33	2.0E-4	0.0345	0.0109	1.12	0.0122	1.47E-4	0.000
0.048	14.40	0.67	0.44	49.89	0.33	1087.99	2.0E-4	0.0341	0.0108	1.12	0.0121	1.45E-4	0.000
0.048	14.35	0.67	0.44	50.66	0.33	1091.59	2.0E-4	0.0337	0.0107	1.12	0.0119	1.43E-4	0.000
0.049	14.30	0.67	0.43	51.44	0.33	1095.14	2.0E-4	0.0333	0.0105	1.12	0.0118	1.41E-4	0.000
0.049	14.25	0.67	0.43	52.22	0.33	1098.62	2.0E-4	0.0329	0.0104	1.12	0.0116	1.40E-4	0.000
0.049	14.20	0.66	0.43	53.00	0.33	1102.05	2.0E-4	0.0326	0.0103	1.12	0.0115	1.38E-4	0.000
0.049	14.15	0.66	0.43	53.79	0.33	1105.42	2.0E-4	0.0322	0.0102	1.12	0.0114	1.37E-4	0.000
0.049	14.10	0.66	0.43	54.59	0.33	1108.74	2.0E-4	0.0318	0.0101	1.12	0.0113	1.35E-4	0.000

0.049	14.05	0.66	0.43	55.39	0.33	1112.00	1.9E-4	0.0315	0.0100	1.12	0.0111	1.34E-4	0.000
0.049	14.00	0.65	0.42	56.19	0.33	1115.20	1.9E-4	0.0311	0.0098	1.12	0.0110	1.32E-4	0.000
0.049	13.95	0.65	0.42	57.00	0.33	1118.35	1.9E-4	0.0308	0.0097	1.12	0.0109	1.31E-4	0.000
0.049	13.90	0.65	0.42	57.82	0.33	1121.44	1.9E-4	0.0305	0.0096	1.12	0.0108	1.29E-4	0.000
0.050	13.85	0.65	0.42	58.64	0.33	1124.48	1.9E-4	0.0302	0.0095	1.12	0.0107	1.28E-4	0.000
0.050	13.80	0.64	0.42	59.46	0.33	1127.47	1.9E-4	0.0298	0.0094	1.12	0.0106	1.27E-4	0.000
0.050	13.75	0.64	0.42	60.29	0.33	1130.41	1.9E-4	0.0295	0.0093	1.12	0.0104	1.25E-4	0.000
0.050	13.70	0.64	0.41	61.13	0.33	1133.29	1.9E-4	0.0292	0.0092	1.12	0.0103	1.24E-4	0.000
0.050	13.65	0.64	0.41	61.97	0.33	1136.13	1.8E-4	0.0289	0.0092	1.12	0.0102	1.23E-4	0.000
0.050	13.60	0.63	0.41	62.82	0.33	1138.91	1.8E-4	0.0287	0.0091	1.12	0.0101	1.22E-4	0.000
0.050	13.55	0.63	0.41	63.67	0.33	1141.64	1.8E-4	0.0284	0.0090	1.12	0.0100	1.20E-4	0.000
0.050	13.50	0.63	0.41	64.76	0.33	1145.74	1.8E-4	0.0281	0.0089	1.12	0.0099	1.19E-4	0.000
0.051	13.45	0.63	0.41	64.72	0.33	1143.04	1.8E-4	0.0280	0.0088	1.12	0.0099	1.19E-4	0.000
0.051	13.40	0.62	0.40	64.67	0.33	1140.33	1.8E-4	0.0279	0.0088	1.12	0.0099	1.18E-4	0.000
0.051	13.35	0.62	0.40	64.62	0.33	1137.62	1.8E-4	0.0278	0.0088	1.12	0.0098	1.18E-4	0.000
0.051	13.30	0.62	0.40	64.57	0.33	1134.90	1.8E-4	0.0278	0.0088	1.12	0.0098	1.18E-4	0.000
0.051	13.25	0.61	0.40	64.52	0.33	1132.19	1.8E-4	0.0277	0.0088	1.12	0.0098	1.17E-4	0.000
0.051	13.20	0.61	0.40	64.48	0.33	1129.46	1.8E-4	0.0276	0.0087	1.12	0.0098	1.17E-4	0.000
0.051	13.15	0.61	0.40	64.43	0.33	1126.74	1.8E-4	0.0275	0.0087	1.12	0.0097	1.17E-4	0.000
0.051	13.10	0.61	0.39	64.38	0.33	1124.01	1.8E-4	0.0275	0.0087	1.12	0.0097	1.17E-4	0.000
0.052	13.05	0.60	0.39	64.33	0.33	1121.28	1.8E-4	0.0274	0.0087	1.12	0.0097	1.16E-4	0.000
0.052	13.00	0.60	0.39	64.28	0.33	1118.55	1.8E-4	0.0273	0.0086	1.12	0.0097	1.16E-4	0.000
0.052	12.95	0.60	0.39	64.24	0.33	1115.81	1.8E-4	0.0272	0.0086	1.12	0.0096	1.16E-4	0.000
0.052	12.90	0.60	0.39	64.19	0.33	1113.07	1.8E-4	0.0272	0.0086	1.12	0.0096	1.15E-4	0.000
0.052	12.85	0.59	0.39	64.14	0.33	1110.32	1.8E-4	0.0271	0.0086	1.12	0.0096	1.15E-4	0.000
0.052	12.80	0.59	0.38	64.09	0.33	1107.57	1.8E-4	0.0270	0.0085	1.12	0.0096	1.15E-4	0.000
0.052	12.75	0.59	0.38	64.05	0.33	1104.82	1.8E-4	0.0270	0.0085	1.12	0.0095	1.14E-4	0.000
0.052	12.70	0.59	0.38	64.00	0.33	1102.07	1.8E-4	0.0269	0.0				

0.053	12.35	0.57	0.37	63.67	0.33	1082.68	1.7E-4	0.0264	0.0083	1.12	0.0093	1.12E-4	0.000
0.053	12.30	0.56	0.37	63.62	0.33	1079.90	1.7E-4	0.0263	0.0083	1.12	0.0093	1.12E-4	0.000
0.053	12.25	0.56	0.37	63.58	0.33	1077.11	1.7E-4	0.0262	0.0083	1.12	0.0093	1.11E-4	0.000
0.054	12.20	0.56	0.36	63.53	0.33	1074.32	1.7E-4	0.0261	0.0083	1.12	0.0092	1.11E-4	0.000
0.054	12.15	0.56	0.36	63.49	0.33	1071.52	1.7E-4	0.0261	0.0082	1.12	0.0092	1.11E-4	0.000
0.054	12.10	0.55	0.36	63.44	0.33	1068.72	1.7E-4	0.0260	0.0082	1.12	0.0092	1.10E-4	0.000
0.054	12.05	0.55	0.36	63.39	0.33	1065.92	1.7E-4	0.0259	0.0082	1.12	0.0092	1.10E-4	0.000
0.054	12.00	0.55	0.36	63.35	0.33	1063.11	1.7E-4	0.0259	0.0082	1.12	0.0091	1.10E-4	0.000
0.054	11.95	0.55	0.35	62.72	0.33	1057.06	1.7E-4	0.0259	0.0082	1.12	0.0092	1.10E-4	0.000
0.054	11.90	0.54	0.35	62.33	0.33	1052.34	1.7E-4	0.0259	0.0082	1.12	0.0092	1.10E-4	0.000
0.054	11.85	0.54	0.35	61.94	0.33	1047.59	1.7E-4	0.0259	0.0082	1.12	0.0091	1.10E-4	0.000
0.054	11.80	0.54	0.35	61.55	0.33	1042.83	1.7E-4	0.0315	0.0100	1.12	0.0111	1.34E-4	0.000
0.055	11.75	0.54	0.35	61.15	0.33	1038.04	1.7E-4	0.0315	0.0100	1.12	0.0111	1.34E-4	0.000
0.055	11.70	0.53	0.35	60.75	0.33	1033.24	1.7E-4	0.0315	0.0099	1.12	0.0111	1.33E-4	0.000
0.055	11.65	0.53	0.34	60.35	0.33	1028.42	1.7E-4	0.0315	0.0099	1.12	0.0111	1.33E-4	0.000
0.055	11.60	0.53	0.34	59.94	0.33	1023.58	1.7E-4	0.0315	0.0099	1.12	0.0111	1.33E-4	0.000
0.055	11.55	0.53	0.34	59.53	0.33	1018.71	1.7E-4	0.0315	0.0099	1.12	0.0111	1.33E-4	0.000
0.055	11.50	0.52	0.34	59.12	0.33	1013.83	1.7E-4	0.0314	0.0099	1.12	0.0111	1.33E-4	0.000
0.055	11.45	0.52	0.34	58.71	0.33	1008.93	1.7E-4	0.0314	0.0099	1.12	0.0111	1.33E-4	0.000
0.056	11.40	0.52	0.34	58.29	0.33	1004.00	1.7E-4	0.0314	0.0099	1.12	0.0111	1.33E-4	0.000
0.056	11.35	0.51	0.33	57.87	0.33	999.05	1.7E-4	0.0314	0.0099	1.12	0.0111	1.33E-4	0.000
0.056	11.30	0.51	0.33	57.44	0.33	994.08	1.7E-4	0.0314	0.0099	1.12	0.0111	1.33E-4	0.000
0.056	11.25	0.51	0.33	57.02	0.33	989.09	1.7E-4	0.0315	0.0099	1.12	0.0111	1.33E-4	0.000
0.056	11.20	0.51	0.33	56.58	0.33	984.08	1.7E-4	0.0315	0.0099	1.12	0.0111	1.33E-4	0.000
0.056	11.15	0.50	0.33	56.15	0.33	979.04	1.7E-4	0.0315	0.0099	1.12	0.0111	1.33E-4	0.000
0.056	11.10	0.50	0.33	55.71	0.33	973.98	1.7E-4	0.0315	0.0100	1.12	0.0111	1.34E-4	0.000
0.056	11.05	0.50	0.32	55.27	0.33	968.89	1.7E-4	0.0315	0.0100	1.12	0.0111	1.34E-4	0.000
0.057	11.00	0.50	0.32	54.83	0.33	963.78	1.7E-4	0.0315	0.0100	1.12	0.0111	1.34E-4	0.000
0.057	10.95	0.49	0.32	54.38	0.33	958.64	1.7E-4	0.0315	0.0100	1.12	0.0111	1.34E-4	0.000
0.057	10.90	0.49	0.32	53.93	0.33	953.48	1.7E-4	0.0315	0.0100	1.12	0.0111	1.34E-4	0.000
0.057	10.85	0.49	0.32	53.47	0.33	948.29	1.7E-4	0.0315	0.0100	1.12	0.0111	1.34E-4	0.000
0.057	10.80	0.49	0.32	53.01	0.33	943.08	1.7E-4	0.0315	0.0100	1.12	0.0111	1.34E-4	0.000
0.057	10.75	0.48	0.31	52.55	0.33	937.84	1.7E-4	0.0316	0.0100	1.12	0.0112	1.34E-4	0.000
0.057	10.70	0.48	0.31	52.08	0.33	932.57	1.7E-4	0.0316	0.0100	1.12	0.0112	1.34E-4	0.000
0.057	10.65	0.48	0.31	51.62	0.33	927.28	1.7E-4	0.0316	0.0100	1.12	0.0112	1.34E-4	0.000

0.058	10.60	0.48	0.31	51.14	0.33	921.95	1.7E-4	0.0316	0.0100	1.12	0.0112	1.34E-4	0.000
0.058	10.55	0.47	0.31	50.67	0.33	916.60	1.7E-4	0.0316	0.0100	1.12	0.0112	1.34E-4	0.000
0.058	10.50	0.47	0.31	49.94	0.33	909.77	1.7E-4	0.0317	0.0100	1.12	0.0112	1.35E-4	0.000
0.058	10.45	0.47	0.30	50.06	0.33	908.00	1.7E-4	0.0316	0.0100	1.12	0.0112	1.34E-4	0.000
0.058	10.40	0.47	0.30	50.18	0.33	906.23	1.7E-4	0.0314	0.0099	1.12	0.0111	1.33E-4	0.000
0.058	10.35	0.46	0.30	50.29	0.33	904.46	1.7E-4	0.0313	0.0099	1.12	0.0111	1.33E-4	0.000
0.058	10.30	0.46	0.30	50.41	0.33	902.70	1.7E-4	0.0311	0.0098	1.12	0.0110	1.32E-4	0.000
0.059	10.25	0.46	0.30	50.53	0.33	900.94	1.7E-4	0.0310	0.0098	1.12	0.0110	1.32E-4	0.000
0.059	10.20	0.46	0.30	50.65	0.33	899.17	1.7E-4	0.0308	0.0098	1.12	0.0109	1.31E-4	0.000
0.059	10.15	0.45	0.29	50.77	0.33	897.41	1.7E-4	0.0307	0.0097	1.12	0.0109	1.30E-4	0.000
0.059	10.10	0.45	0.29	50.89	0.33	895.65	1.7E-4	0.0306	0.0097	1.12	0.0108	1.30E-4	0.000
0.059	10.05	0.45	0.29	51.01	0.33	893.90	1.7E-4	0.0304	0.0096	1.12	0.0108	1.29E-4	0.000
0.059	10.00	0.45	0.29	51.13	0.33	892.14	1.7E-4	0.0303	0.0096	1.12	0.0107	1.28E-4	0.000
0.059	9.95	0.44	0.29	51.25	0.33	890.38	1.7E-4	0.0301	0.0095	1.12	0.0107	1.28E-4	0.000
0.060	9.90	0.44	0.29	51.37	0.33	888.63	1.6E-4	0.0300	0.0095	1.12	0.0106	1.27E-4	0.000
0.060	9.85	0.44	0.28	51.50	0.33	886.88	1.6E-4	0.0299	0.0094	1.12	0.0106	1.27E-4	0.000
0.060	9.80	0.44	0.28	51.62	0.33	885.12	1.6E-4	0.0297	0.0094	1.12	0.0105	1.26E-4	0.000
0.060	9.75	0.43	0.28	51.74	0.33	883.37	1.6E-4	0.0296	0.0094	1.12	0.0105	1.25E-4	0.000
0.060	9.70	0.43	0.28	51.87	0.33	881.62	1.6E-4	0.0294	0.0093	1.12	0.0104	1.25E-4	0.000
0.060	9.65	0.43	0.28	51.99	0.33	879.88	1.6E-4	0.0293	0.0093	1.12	0.0104	1.24E-4	0.000
0.060	9.60	0.43	0.28	52.12	0.33	878.13	1.6E-4	0.0292	0.0092	1.12	0.0103	1.24E-4	0.000
0.060	9.55	0.42	0.28	52.24	0.33	876.38	1.6E-4	0.0290	0.0092	1.12	0.0103	1.23E-4	0.000
0.061	9.50	0.42	0.27	52.37	0.33	874.64	1.6E-4	0.0289	0.0091	1.12	0.0102	1.23E-4	0.000
0.061	9.45	0.42	0.27	52.49	0.33	872.90	1.6E-4	0.0288	0.0091	1.12	0.0102	1.22E-4	0.000
0.061	9.40	0.42	0.27	52.62	0.33	871.16	1.6E-4	0.0286	0.0091	1.12	0.0101	1.21E-4	0.000
0.061	9.35	0.41	0.27	52.75	0.33	869.42	1.6E-4	0.0285	0.0090	1.12	0.0101	1.21E-4	0.000
0.061	9.30	0.41	0.27	52.88	0.33	867.68	1.6E-4	0.0284	0.0090	1.12	0.0100	1.20E-4	0.000
0.061	9.25	0.41	0.27	53.01	0.33	865.95	1.6E-4	0.0282	0.0089	1.12	0.0100	1.20E-4	0.0

0.062	8.90	0.39	0.26	53.86	0.33	853.45	1.5E-4	0.0273	0.0086	1.12	0.0097	1.16E-4	0.000
0.062	8.85	0.39	0.25	53.85	0.33	850.88	1.5E-4	0.0272	0.0086	1.12	0.0096	1.16E-4	0.000
0.062	8.80	0.39	0.25	53.83	0.33	848.30	1.5E-4	0.0271	0.0086	1.12	0.0096	1.15E-4	0.000
0.062	8.75	0.39	0.25	53.82	0.33	845.71	1.5E-4	0.0270	0.0085	1.12	0.0096	1.15E-4	0.000
0.062	8.70	0.38	0.25	53.81	0.33	843.12	1.5E-4	0.0269	0.0085	1.12	0.0095	1.14E-4	0.000
0.063	8.65	0.38	0.25	53.80	0.33	840.51	1.5E-4	0.0268	0.0085	1.12	0.0095	1.14E-4	0.000
0.063	8.60	0.38	0.25	53.80	0.33	837.90	1.5E-4	0.0267	0.0085	1.12	0.0095	1.13E-4	0.000
0.063	8.55	0.38	0.25	53.79	0.33	835.27	1.5E-4	0.0266	0.0084	1.12	0.0094	1.13E-4	0.000
0.063	8.50	0.38	0.24	53.79	0.33	832.64	1.5E-4	0.0265	0.0084	1.12	0.0094	1.13E-4	0.000
0.063	8.45	0.37	0.24	53.79	0.33	829.99	1.5E-4	0.0264	0.0084	1.12	0.0093	1.12E-4	0.000
0.063	8.40	0.37	0.24	53.80	0.33	827.34	1.5E-4	0.0263	0.0083	1.12	0.0093	1.12E-4	0.000
0.063	8.35	0.37	0.24	53.80	0.33	824.68	1.5E-4	0.0262	0.0083	1.12	0.0093	1.11E-4	0.000
0.063	8.30	0.37	0.24	53.81	0.33	822.00	1.5E-4	0.0261	0.0083	1.12	0.0092	1.11E-4	0.000
0.063	8.25	0.36	0.24	53.82	0.33	819.32	1.5E-4	0.0260	0.0082	1.12	0.0092	1.10E-4	0.000
0.064	8.20	0.36	0.23	48.09	0.33	786.51	1.5E-4	0.0272	0.0086	1.12	0.0096	1.15E-4	0.000
0.064	8.15	0.36	0.23	48.08	0.33	783.81	1.5E-4	0.0271	0.0086	1.12	0.0096	1.15E-4	0.000
0.064	8.10	0.36	0.23	48.08	0.33	781.10	1.5E-4	0.0269	0.0085	1.12	0.0095	1.14E-4	0.000
0.064	8.05	0.35	0.23	48.08	0.33	778.38	1.5E-4	0.0268	0.0085	1.12	0.0095	1.14E-4	0.000
0.064	8.00	0.35	0.23	48.08	0.33	775.65	1.5E-4	0.0267	0.0084	1.12	0.0094	1.13E-4	0.000
0.064	7.95	0.35	0.23	48.08	0.33	772.91	1.5E-4	0.0266	0.0084	1.12	0.0094	1.13E-4	0.000
0.064	7.90	0.35	0.22	48.08	0.33	770.13	1.5E-4	0.0265	0.0084	1.12	0.0094	1.12E-4	0.000
0.064	7.85	0.34	0.22	47.93	0.33	766.52	1.5E-4	0.0264	0.0083	1.12	0.0093	1.12E-4	0.000
0.064	7.80	0.34	0.22	47.78	0.33	762.89	1.5E-4	0.0263	0.0083	1.12	0.0093	1.12E-4	0.000
0.065	7.75	0.34	0.22	47.63	0.33	759.24	1.5E-4	0.0262	0.0083	1.12	0.0093	1.11E-4	0.000
0.065	7.70	0.34	0.22	47.48	0.33	755.57	1.5E-4	0.0261	0.0083	1.12	0.0092	1.11E-4	0.000
0.065	7.65	0.33	0.22	47.32	0.33	751.88	1.5E-4	0.0260	0.0082	1.12	0.0092	1.10E-4	0.000
0.065	7.60	0.33	0.21	47.17	0.33	748.18	1.5E-4	0.0259	0.0082	1.12	0.0092	1.10E-4	0.000
0.065	7.55	0.33	0.21	47.02	0.33	744.45	1.5E-4	0.0258	0.0082	1.12	0.0091	1.10E-4	0.000
0.065	7.50	0.33	0.21	46.87	0.33	740.70	1.5E-4	0.0257	0.0081	1.12	0.0091	1.09E-4	0.000
0.065	7.45	0.32	0.21	46.97	0.33	738.31	1.5E-4	0.0256	0.0081	1.12	0.0090	1.09E-4	0.000
0.065	7.40	0.32	0.21	47.08	0.33	735.89	1.5E-4	0.0254	0.0080	1.12	0.0090	1.08E-4	0.000
0.065	7.35	0.32	0.21	47.19	0.33	733.46	1.4E-4	0.0253	0.0080	1.12	0.0089	1.07E-4	0.000
0.066	7.30	0.32	0.20	47.29	0.33	731.01	1.4E-4	0.0251	0.0079	1.12	0.0089	1.07E-4	0.000
0.066	7.25	0.31	0.20	47.40	0.33	728.54	1.4E-4	0.0250	0.0079	1.12	0.0088	1.06E-4	0.000
0.066	7.20	0.31	0.20	47.51	0.33	726.05	1.4E-4	0.0248	0.0079	1.12	0.0088	1.05E-4	0.000

0.066	7.15	0.31	0.20	47.61	0.33	723.54	1.4E-4	0.0247	0.0078	1.12	0.0087	1.05E-4	0.000
0.066	7.10	0.30	0.20	47.72	0.33	721.01	1.4E-4	0.0245	0.0078	1.12	0.0087	1.04E-4	0.000
0.066	7.05	0.30	0.20	47.83	0.33	718.47	1.4E-4	0.0244	0.0077	1.12	0.0086	1.03E-4	0.000
0.066	7.00	0.30	0.19	47.93	0.33	715.90	1.4E-4	0.0242	0.0077	1.12	0.0086	1.03E-4	0.000
0.066	6.95	0.30	0.19	48.04	0.33	713.32	1.4E-4	0.0241	0.0076	1.12	0.0085	1.02E-4	0.000
0.066	6.90	0.29	0.19	48.15	0.33	710.71	1.4E-4	0.0239	0.0076	1.12	0.0085	1.01E-4	0.000
0.066	6.85	0.29	0.19	48.25	0.33	708.09	1.4E-4	0.0238	0.0075	1.12	0.0084	1.01E-4	0.000
0.066	6.80	0.29	0.19	48.36	0.33	705.44	1.4E-4	0.0236	0.0075	1.12	0.0083	1.00E-4	0.000
0.067	6.75	0.29	0.19	48.47	0.33	702.78	1.4E-4	0.0234	0.0074	1.12	0.0083	9.95E-5	0.000
0.067	6.70	0.28	0.18	48.57	0.33	700.09	1.4E-4	0.0233	0.0074	1.12	0.0082	9.88E-5	0.000
0.067	6.65	0.28	0.18	48.68	0.33	697.39	1.3E-4	0.0231	0.0073	1.12	0.0082	9.82E-5	0.000
0.067	6.60	0.28	0.18	48.79	0.33	694.66	1.3E-4	0.0230	0.0073	1.12	0.0081	9.75E-5	0.000
0.067	6.55	0.28	0.18	48.89	0.33	691.91	1.3E-4	0.0228	0.0072	1.12	0.0081	9.69E-5	0.000
0.067	6.50	0.27	0.18	49.00	0.33	689.14	1.3E-4	0.0227	0.0072	1.12	0.0080	9.62E-5	0.000
0.067	6.45	0.27	0.18	49.11	0.33	686.34	1.3E-4	0.0225	0.0071	1.12	0.0080	9.56E-5	0.000
0.067	6.40	0.27	0.17	49.21	0.33	683.53	1.3E-4	0.0224	0.0071	1.12	0.0079	9.49E-5	0.000
0.067	6.35	0.27	0.17	49.32	0.33	680.69	1.3E-4	0.0222	0.0070	1.12	0.0079	9.43E-5	0.000
0.068	6.30	0.26	0.17	49.43	0.33	677.83	1.3E-4	0.0221	0.0070	1.12	0.0078	9.36E-5	0.000
0.068	6.25	0.26	0.17	49.53	0.33	674.95	1.3E-4	0.0219	0.0069	1.12	0.0077	9.30E-5	0.000
0.068	6.20	0.26	0.17	49.64	0.33	672.04	1.3E-4	0.0218	0.0069	1.12	0.0077	9.23E-5	0.000
0.068	6.15	0.26	0.17	49.75	0.33	669.11	1.3E-4	0.0216	0.0068	1.12	0.0076	9.17E-5	0.000
0.068	6.10	0.25	0.16	49.85	0.33	666.16	1.3E-4	0.0215	0.0068	1.12	0.0076	9.10E-5	0.000
0.068	6.05	0.25	0.16	49.96	0.33	663.18	1.3E-4	0.0213	0.0067	1.12	0.0075	9.04E-5	0.000
0.068	6.00	0.25	0.16	50.07	0.33	660.18	1.3E-4	0.0212	0.0067	1.12	0.0075	8.97E-5	0.000
0.068	5.95	0.24	0.16	50.00	0.33	656.40	1.2E-4	0.0210	0.0066	1.12	0.0074	8.92E-5	0.000
0.068	5.90	0.24	0.16	49.93	0.34	652.62	1.2E-4	0.0209	0.0066	1.12	0.0074	8.87E-5	0.000
0.068	5.85	0.24	0.16	49.85	0.34	648.85	1.2E-4	0.0208	0.0066	1.12	0.0073	8.82E-5	0.000
0.068	5.80	0.24	0.15	49.78	0.34	645.08	1.2E-4	0.0207	0.0065	1.12	0.0073	8.77E-5	0.000
0.													

0.069	5.45	0.22	0.14	49.29	0.34	618.80	1.2E-4	0.0255	0.0081	1.12	0.0090	1.08E-4	0.000
0.069	5.40	0.22	0.14	49.22	0.34	615.06	1.2E-4	0.0254	0.0080	1.12	0.0090	1.08E-4	0.000
0.069	5.35	0.21	0.14	49.15	0.34	611.33	1.2E-4	0.0252	0.0080	1.12	0.0089	1.07E-4	0.000
0.069	5.30	0.21	0.14	49.08	0.34	607.60	1.2E-4	0.0251	0.0079	1.12	0.0089	1.06E-4	0.000
0.070	5.25	0.21	0.14	49.01	0.34	603.87	1.2E-4	0.0249	0.0079	1.12	0.0088	1.06E-4	0.000
0.070	5.20	0.21	0.13	48.94	0.34	600.15	1.2E-4	0.0248	0.0078	1.12	0.0088	1.05E-4	0.000
0.070	5.15	0.21	0.13	48.87	0.34	596.43	1.2E-4	0.0246	0.0078	1.12	0.0087	1.04E-4	0.000
0.070	5.10	0.20	0.13	48.80	0.34	592.72	1.1E-4	0.0244	0.0077	1.12	0.0086	1.04E-4	0.000
0.070	5.05	0.20	0.13	48.62	0.34	588.59	1.1E-4	0.0243	0.0077	1.12	0.0086	1.03E-4	0.000
0.070	5.00	0.20	0.13	48.26	0.34	583.70	1.1E-4	0.0242	0.0076	1.12	0.0086	1.03E-4	0.000
0.070	4.95	0.20	0.13	47.89	0.34	578.81	1.1E-4	0.0241	0.0076	1.12	0.0085	1.02E-4	0.000
0.070	4.90	0.19	0.13	47.52	0.34	573.94	1.1E-4	0.0240	0.0076	1.12	0.0085	1.02E-4	0.000
0.070	4.85	0.19	0.12	47.16	0.34	569.08	1.1E-4	0.0239	0.0076	1.12	0.0084	1.01E-4	0.000
0.070	4.80	0.19	0.12	46.79	0.34	564.23	1.1E-4	0.0238	0.0075	1.12	0.0084	1.01E-4	0.000
0.071	4.75	0.19	0.12	46.42	0.34	559.40	1.1E-4	0.0237	0.0075	1.12	0.0084	1.00E-4	0.000
0.071	4.70	0.18	0.12	46.06	0.34	554.57	1.1E-4	0.0236	0.0075	1.12	0.0083	1.00E-4	0.000
0.071	4.65	0.18	0.12	45.69	0.34	549.75	1.1E-4	0.0235	0.0074	1.12	0.0083	9.95E-5	0.000
0.071	4.60	0.18	0.12	45.32	0.34	544.95	1.1E-4	0.0234	0.0074	1.12	0.0083	9.91E-5	0.000
0.071	4.55	0.18	0.12	44.96	0.34	540.16	1.1E-4	0.0232	0.0074	1.12	0.0082	9.86E-5	0.000
0.071	4.50	0.18	0.11	44.59	0.34	535.38	1.1E-4	0.0231	0.0073	1.12	0.0082	0.00E0	0.000
0.071	4.45	0.17	0.11	44.66	0.34	532.35	1.1E-4	0.0229	0.0072	1.12	0.0081	0.00E0	0.000
0.071	4.40	0.17	0.11	44.74	0.34	529.31	1.1E-4	0.0227	0.0072	1.12	0.0080	0.00E0	0.000
0.071	4.35	0.17	0.11	44.81	0.34	526.26	1.1E-4	0.0225	0.0071	1.12	0.0079	0.00E0	0.000
0.071	4.30	0.17	0.11	44.88	0.34	523.20	1.1E-4	0.0223	0.0070	1.12	0.0079	0.00E0	0.000
0.071	4.25	0.17	0.11	44.96	0.34	520.12	1.1E-4	0.0220	0.0070	1.12	0.0078	0.00E0	0.000
0.071	4.20	0.16	0.11	45.03	0.34	517.03	1.1E-4	0.0218	0.0069	1.12	0.0077	0.00E0	0.000
0.071	4.15	0.16	0.10	45.10	0.34	513.93	1.1E-4	0.0216	0.0068	1.12	0.0076	0.00E0	0.000
0.071	4.10	0.16	0.10	45.18	0.34	510.82	1.0E-4	0.0214	0.0068	1.12	0.0076	0.00E0	0.000
0.071	4.05	0.16	0.10	45.25	0.34	507.69	1.0E-4	0.0211	0.0067	1.12	0.0075	0.00E0	0.000
0.071	4.00	0.15	0.10	45.32	0.34	504.55	1.0E-4	0.0209	0.0066	1.12	0.0074	0.00E0	0.000
0.071	3.95	0.15	0.10	45.40	0.34	501.40	1.0E-4	0.0207	0.0065	1.12	0.0073	0.00E0	0.000
0.071	3.90	0.15	0.10	45.47	0.34	498.23	1.0E-4	0.0204	0.0065	1.12	0.0072	0.00E0	0.000
0.071	3.85	0.15	0.10	45.54	0.34	495.05	1.0E-4	0.0202	0.0064	1.12	0.0071	0.00E0	0.000
0.071	3.80	0.15	0.09	45.62	0.34	491.86	1.0E-4	0.0200	0.0063	1.12	0.0071	0.00E0	0.000
0.071	3.75	0.14	0.09	45.69	0.34	488.65	9.9E-5	0.0197	0.0062	1.12	0.0070	0.00E0	0.000

0.071	3.70	0.14	0.09	45.76	0.34	485.43	9.9E-5	0.0195	0.0062	1.12	0.0069	0.00E0	0.000
0.071	3.65	0.14	0.09	45.84	0.34	482.19	9.8E-5	0.0193	0.0061	1.12	0.0068	0.00E0	0.000
0.071	3.60	0.14	0.09	45.91	0.34	478.94	9.7E-5	0.0190	0.0060	1.12	0.0067	0.00E0	0.000
0.071	3.55	0.14	0.09	45.98	0.34	475.67	9.6E-5	0.0188	0.0059	1.12	0.0066	0.00E0	0.000
0.071	3.50	0.13	0.09	46.06	0.34	472.39	9.6E-5	0.0185	0.0059	1.12	0.0066	0.00E0	0.000
0.071	3.45	0.13	0.09	46.13	0.34	469.09	9.5E-5	0.0183	0.0058	1.12	0.0065	0.00E0	0.000
0.071	3.40	0.13	0.08	46.20	0.34	465.78	9.4E-5	0.0181	0.0057	1.12	0.0064	0.00E0	0.000
0.071	3.35	0.13	0.08	46.28	0.34	462.45	9.3E-5	0.0178	0.0056	1.12	0.0063	0.00E0	0.000
0.071	3.30	0.13	0.08	46.35	0.34	459.10	9.2E-5	0.0176	0.0056	1.12	0.0062	0.00E0	0.000
0.071	3.25	0.12	0.08	46.42	0.34	455.73	9.2E-5	0.0174	0.0055	1.12	0.0061	0.00E0	0.000
0.071	3.20	0.12	0.08	46.50	0.34	452.35	9.1E-5	0.0171	0.0054	1.12	0.0061	0.00E0	0.000
0.071	3.15	0.12	0.08	46.57	0.34	448.95	9.0E-5	0.0169	0.0053	1.12	0.0060	0.00E0	0.000
0.071	3.10	0.12	0.08	46.64	0.34	445.54	8.9E-5	0.0167	0.0053	1.12	0.0059	0.00E0	0.000
0.071	3.05	0.12	0.08	46.72	0.34	442.10	8.9E-5	0.0164	0.0052	1.12	0.0058	0.00E0	0.000
0.071	3.00	0.11	0.07	46.79	0.34	438.65	8.8E-5	0.0162	0.0051	1.12	0.0057	0.00E0	0.000
0.071	2.95	0.11	0.07	46.50	0.34	434.03	8.7E-5	0.0160	0.0051	1.12	0.0057	0.00E0	0.000
0.071	2.90	0.11	0.07	46.20	0.34	429.38	8.7E-5	0.0159	0.0050	1.12	0.0056	0.00E0	0.000
0.071	2.85	0.11	0.07	45.91	0.34	424.72	8.6E-5	0.0157	0.0050	1.12	0.0056	0.00E0	0.000
0.071	2.80	0.11	0.07	45.62	0.34	420.04	8.6E-5	0.0155	0.0049	1.12	0.0055	0.00E0	0.000
0.071	2.75	0.10	0.07	45.32	0.34	415.34	8.5E-5	0.0154	0.0049	1.12	0.0054	0.00E0	0.000
0.071	2.70	0.10	0.07	45.03	0.34	410.62	8.4E-5	0.0152	0.0048	1.12	0.0054	0.00E0	0.000
0.071	2.65	0.10	0.07	44.74	0.34	405.88	8.4E-5	0.0150	0.0048	1.12	0.0053	0.00E0	0.000
0.071	2.60	0.10	0.06	44.44	0.34	401.12	8.3E-5	0.0149	0.0047	1.12	0.0053	0.00E0	0.000
0.071	2.55	0.10	0.06	44.15	0.34	396.34	8.3E-5	0.0147	0.0046	1.12	0.0052	0.00E0	0.000
0.071	2.50	0.10	0.06	43.86	0.34	391.53	8.2E-5	0.0145	0.0046	1.12	0.0051	0.00E0	0.000
0.071	2.45	0.09	0.06	43.56	0.34	386.70	8.1E-5	0.0144	0.0045	1.12	0.0051	0.00E0	0.000
0.071	2.40	0.09	0.06	43.27	0.34	381.84	8.1E-5	0.0142	0.0045	1.12	0.0050	0.00E0	0.000
0.071	2.35	0.09	0.06	42.98	0.34	376.96	8.0E-5	0.0140	0.0044	1.12	0.0049	0.00E0	0.000
0.071	2.30	0.09	0.										

0.071	2.00	0.08	0.05	40.92	0.34	341.97	7.5E-5	0.0127	0.0040	1.12	0.0045	0.00E0	0.000
0.071	1.95	0.07	0.05	40.63	0.34	336.84	7.4E-5	0.0125	0.0040	1.12	0.0044	0.00E0	0.000
0.071	1.90	0.07	0.05	40.34	0.34	331.68	7.4E-5	0.0124	0.0039	1.12	0.0044	0.00E0	0.000
0.071	1.85	0.07	0.05	40.04	0.34	326.47	7.3E-5	0.0122	0.0038	1.12	0.0043	0.00E0	0.000
0.071	1.80	0.07	0.04	39.75	0.34	321.23	7.2E-5	0.0120	0.0038	1.12	0.0043	0.00E0	0.000
0.071	1.75	0.07	0.04	39.46	0.34	315.95	7.1E-5	0.0118	0.0039	1.12	0.0043	0.00E0	0.000
0.071	1.70	0.06	0.04	39.16	0.34	310.62	7.0E-5	0.0116	0.0039	1.12	0.0043	0.00E0	0.000
0.071	1.65	0.06	0.04	38.87	0.34	305.25	6.9E-5	0.0114	0.0039	1.12	0.0043	0.00E0	0.000
0.071	1.60	0.06	0.04	38.58	0.34	299.82	6.9E-5	0.0112	0.0039	1.12	0.0044	0.00E0	0.000
0.071	1.55	0.06	0.04	38.28	0.34	294.35	6.8E-5	0.0110	0.0039	1.12	0.0044	0.00E0	0.000
0.071	1.50	0.06	0.04	37.99	0.34	288.82	6.7E-5	0.0108	0.0039	1.12	0.0044	0.00E0	0.000

Settlement of Unsaturated Sands=0.071 in.
dsz is per each segment, dz=0.05 ft
dsp is per each print interval, dp=0.05 ft
S is cumulated settlement at this depth

Total Settlement of Saturated and Unsaturated Sands=0.071 in.
Differential Settlement=0.035 to 0.047 in.

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

1 atm (atmosphere) = 1.0581 tsf(1 tsf = 1 ton/ft2 = 2 kip/ft2)
1 atm (atmosphere) = 101.325 kPa(1 kPa = 1 kN/m2 = 0.001 Mpa)
SPT Field data from Standard Penetration Test (SPT)
BPT Field data from Becker Penetration Test (BPT)
qc Field data from Cone Penetration Test (CPT) [atm (tsf)]
fs Friction from CPT testing [atm (tsf)]
Rf Ratio of fs/qc (%)
gamma Total unit weight of soil
gamma' Effective unit weight of soil
Fines Fines content [%]
D50 Mean grain size
Dr Relative Density
sigma Total vertical stress [atm]
sigma' Effective vertical stress [atm]
sigC' Effective confining pressure [atm]
rd Acceleration reduction coefficient by Seed
a_max. Peak Ground Acceleration (PGA) in ground surface
mZ Linear acceleration reduction coefficient X depth
a_min. Minimum acceleration under linear reduction, mZ
CRRv CRR after overburden stress correction, CRRv=CRR7.5 * Ksig
CRR7.5 Cyclic resistance ratio (M=7.5)
Ksig Overburden stress correction factor for CRR7.5
CRRm After magnitude scaling correction CRRm=CRRv * MSF
MSF Magnitude scaling factor from M=7.5 to user input M
CSR Cyclic stress ratio induced by earthquake
CSRfs CSRfs=CSR*fs1 (Default fs1=1)
fs1 First CSR curve in graphic defined in #9 of Advanced page
fs2 2nd CSR curve in graphic defined in #9 of Advanced page
F.S. Calculated factor of safety against liquefaction F.S.=CRRm/CSRsf
Cebs Energy Ratio, Borehole Dia., and Sampling Method Corrections
Cr Rod Length Corrections
Cn Overburden Pressure Correction
(N1)60 SPT after corrections, (N1)60=SPT * Cr * Cn * Cebs
d(N1)60 Fines correction of SPT

(N1)60f	(N1)60 after fines corrections, $(N1)60f = (N1)60 + d(N1)60$
Cq	Overburden stress correction factor
qc1	CPT after Overburden stress correction
dqc1	Fines correction of CPT
qc1f	CPT after Fines and Overburden correction, $qc1f = qc1 + dqc1$
qc1n	CPT after normalization in Robertson's method
Kc	Fine correction factor in Robertson's Method
qc1f	CPT after Fines correction in Robertson's Method
Ic	Soil type index in Suzuki's and Robertson's Methods
(N1)60s	(N1)60 after settlement fines corrections
CSRm	After magnitude scaling correction for Settlement calculation $CSRm = CSRsf / MSF^*$
CSRfs	Cyclic stress ratio induced by earthquake with user input fs
MSF*	Scaling factor from CSR, $MSF^*=1$, based on Item 2 of Page C.
ec	Volumetric strain for saturated sands
dz	Calculation segment, $dz=0.050$ ft
dsz	Settlement in each segment, dz
dp	User defined print interval
dsp	Settlement in each print interval, dp
Gmax	Shear Modulus at low strain
g_eff	gamma_eff, Effective shear Strain
g*Ge/Gm	gamma_eff * G_eff/G_max, Strain-modulus ratio
ec7.5	Volumetric Strain for magnitude=7.5
Cec	Magnitude correction factor for any magnitude
ec	Volumetric strain for unsaturated sands, $ec = Cec * ec7.5$
NoLiq	No-Liquefy Soils

References:

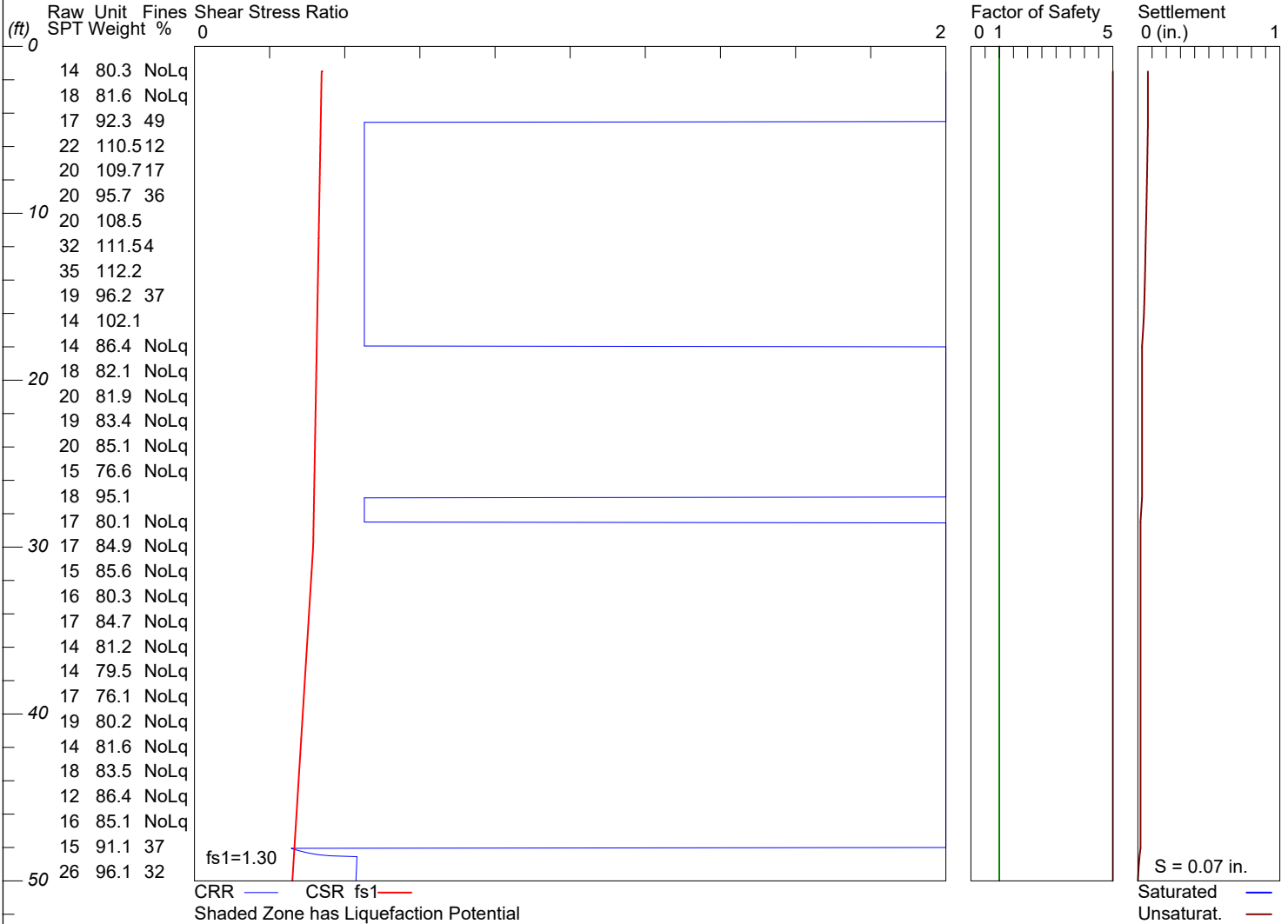
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International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, CA, March 2001.
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Report No. EERC 2003-06 by R.B Seed and etc. April 2003.

LIQUEFACTION ANALYSIS

Two-Thirds PGAm

Hole No. =

Magnitude=7.8
Acceleration=.402g



APPENDIX F

Full PGAm Analysis Data

LIQUEFACTION ANALYSIS CALCULATION DETAILS

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Input File Name: E:\Liquefy5\25-123 PGAm (Full).liq

Title: Full PGAm

Subtitle: 25-123 Duke - Truckstop

Input Data:

Surface Elev.=

Hole No.=

Depth of Hole=50.00 ft

Water Table during Earthquake= 100.00 ft

Water Table during In-Situ Testing= 100.00 ft

Max. Acceleration=0.6 g

Earthquake Magnitude=7.80

No-Liquefiable Soils: CL, OL are Non-Liq. Soil

1. SPT or BPT Calculation.

2. Settlement Analysis Method: Ishihara / Yoshimine

3. Fines Correction for Liquefaction: Stark/Olson et al.*

4. Fine Correction for Settlement: During Liquefaction*

5. Settlement Calculation in: All zones*

6. Hammer Energy Ratio,

Ce = 1.25

7. Borehole Diameter,

Cb= 1.15

8. Sampling Method,

Cs= 1.2

9. User request factor of safety (apply to CSR) , User= 1.3

Plot one CSR curve (fs1=User)

10. Average two input data between two Depths: Yes*

* Recommended Options

In-Situ Test Data:

Depth ft	SPT	Gamma pcf	Fines %
-------------	-----	--------------	------------

1.50	14.00	80.30	NoLiq
3.00	18.00	81.60	NoLiq
4.50	17.00	92.30	49.00
6.00	22.00	110.50	12.00
7.50	20.00	109.70	17.00
9.00	20.00	95.70	36.00
10.50	20.00	108.50	36.00
12.00	32.00	111.50	4.00
13.50	35.00	112.20	4.00
15.00	19.00	96.20	37.00
16.50	14.00	102.10	37.00
18.00	14.00	86.40	NoLiq
19.50	18.00	82.10	NoLiq
21.00	20.00	81.90	NoLiq
22.50	19.00	83.40	NoLiq
24.00	20.00	85.10	NoLiq
25.50	15.00	76.60	NoLiq
27.00	18.00	95.10	54.00
28.50	17.00	80.10	NoLiq
30.00	17.00	84.90	NoLiq
31.50	15.00	85.60	NoLiq
33.00	16.00	80.30	NoLiq
34.50	17.00	84.70	NoLiq
36.00	14.00	81.20	NoLiq
37.50	14.00	79.50	NoLiq
39.00	17.00	76.10	NoLiq
40.50	19.00	80.20	NoLiq
42.00	14.00	81.60	NoLiq
43.50	18.00	83.50	NoLiq
45.00	12.00	86.40	NoLiq
46.50	16.00	85.10	NoLiq

48.00	15.00	91.10	37.00
49.50	26.00	96.10	32.00

Output Results:

Calculation segment, dz=0.050 ft

User defined Print Interval, dp=0.05 ft

Peak Ground Acceleration (PGA), a_max = 0.60g

CSR Calculation:

Depth ft	gamma pcf	sigma atm	gamma' pcf	sigma' atm	rd	mZ g	a(z) g	CSR	x fs1	=CSRfs
1.50	80.30	0.057	80.30	0.057	1.00	0.000	0.604	0.39	1.30	0.51
1.55	80.34	0.059	80.34	0.059	1.00	0.000	0.604	0.39	1.30	0.51
1.60	80.39	0.061	80.39	0.061	1.00	0.000	0.604	0.39	1.30	0.51
1.65	80.43	0.063	80.43	0.063	1.00	0.000	0.604	0.39	1.30	0.51
1.70	80.47	0.065	80.47	0.065	1.00	0.000	0.604	0.39	1.30	0.51
1.75	80.52	0.066	80.52	0.066	1.00	0.000	0.604	0.39	1.30	0.51
1.80	80.56	0.068	80.56	0.068	1.00	0.000	0.604	0.39	1.30	0.51
1.85	80.60	0.070	80.60	0.070	1.00	0.000	0.604	0.39	1.30	0.51
1.90	80.65	0.072	80.65	0.072	1.00	0.000	0.604	0.39	1.30	0.51
1.95	80.69	0.074	80.69	0.074	1.00	0.000	0.604	0.39	1.30	0.51
2.00	80.73	0.076	80.73	0.076	1.00	0.000	0.604	0.39	1.30	0.51
2.05	80.78	0.078	80.78	0.078	1.00	0.000	0.604	0.39	1.30	0.51
2.10	80.82	0.080	80.82	0.080	1.00	0.000	0.604	0.39	1.30	0.51
2.15	80.86	0.082	80.86	0.082	0.99	0.000	0.604	0.39	1.30	0.51
2.20	80.91	0.084	80.91	0.084	0.99	0.000	0.604	0.39	1.30	0.51
2.25	80.95	0.085	80.95	0.085	0.99	0.000	0.604	0.39	1.30	0.51
2.30	80.99	0.087	80.99	0.087	0.99	0.000	0.604	0.39	1.30	0.51
2.35	81.04	0.089	81.04	0.089	0.99	0.000	0.604	0.39	1.30	0.51
2.40	81.08	0.091	81.08	0.091	0.99	0.000	0.604	0.39	1.30	0.51
2.45	81.12	0.093	81.12	0.093	0.99	0.000	0.604	0.39	1.30	0.51
2.50	81.17	0.095	81.17	0.095	0.99	0.000	0.604	0.39	1.30	0.51
2.55	81.21	0.097	81.21	0.097	0.99	0.000	0.604	0.39	1.30	0.51
2.60	81.25	0.099	81.25	0.099	0.99	0.000	0.604	0.39	1.30	0.51
2.65	81.30	0.101	81.30	0.101	0.99	0.000	0.604	0.39	1.30	0.51
2.70	81.34	0.103	81.34	0.103	0.99	0.000	0.604	0.39	1.30	0.51
2.75	81.38	0.105	81.38	0.105	0.99	0.000	0.604	0.39	1.30	0.51
2.80	81.43	0.107	81.43	0.107	0.99	0.000	0.604	0.39	1.30	0.51
2.85	81.47	0.109	81.47	0.109	0.99	0.000	0.604	0.39	1.30	0.51
2.90	81.51	0.110	81.51	0.110	0.99	0.000	0.604	0.39	1.30	0.51
2.95	81.56	0.112	81.56	0.112	0.99	0.000	0.604	0.39	1.30	0.51
3.00	81.60	0.114	81.60	0.114	0.99	0.000	0.604	0.39	1.30	0.51
3.05	81.96	0.116	81.96	0.116	0.99	0.000	0.604	0.39	1.30	0.51
3.10	82.31	0.118	82.31	0.118	0.99	0.000	0.604	0.39	1.30	0.51
3.15	82.67	0.120	82.67	0.120	0.99	0.000	0.604	0.39	1.30	0.51
3.20	83.03	0.122	83.03	0.122	0.99	0.000	0.604	0.39	1.30	0.51
3.25	83.38	0.124	83.38	0.124	0.99	0.000	0.604	0.39	1.30	0.51
3.30	83.74	0.126	83.74	0.126	0.99	0.000	0.604	0.39	1.30	0.51
3.35	84.10	0.128	84.10	0.128	0.99	0.000	0.604	0.39	1.30	0.51
3.40	84.45	0.130	84.45	0.130	0.99	0.000	0.604	0.39	1.30	0.51
3.45	84.81	0.132	84.81	0.132	0.99	0.000	0.604	0.39	1.30	0.51
3.50	85.17	0.134	85.17	0.134	0.99	0.000	0.604	0.39	1.30	0.51
3.55	85.52	0.136	85.52	0.136	0.99	0.000	0.604	0.39	1.30	0.51
3.60	85.88	0.138	85.88	0.138	0.99	0.000	0.604	0.39	1.30	0.51
3.65	86.24	0.140	86.24	0.140	0.99	0.000	0.604	0.39	1.30	0.51
3.70	86.59	0.142	86.59	0.142	0.99	0.000	0.604	0.39	1.30	0.51
3.75	86.95	0.144	86.95	0.144	0.99	0.000	0.604	0.39	1.30	0.51
3.80	87.31	0.146	87.31	0.146	0.99	0.000	0.604	0.39	1.30	0.51
3.85	87.66	0.148	87.66	0.148	0.99	0.000	0.604	0.39	1.30	0.51
3.90	88.02	0.150	88.02	0.150	0.99	0.000	0.604	0.39	1.30	0.51
3.95	88.38	0.152	88.38	0.152	0.99	0.000	0.604	0.39	1.30	0.51
4.00	88.73	0.154	88.73	0.154	0.99	0.000	0.604	0.39	1.30	0.51
4.05	89.09	0.157	89.09	0.157	0.99	0.000	0.604	0.39	1.30	0.51
4.10	89.45	0.159	89.45	0.159	0.99	0.000	0.604	0.39	1.30	0.51
4.15	89.80	0.161	89.80	0.161	0.99	0.000	0.604	0.39	1.30	0.51

4.20	90.16	0.163	90.16	0.163	0.99	0.000	0.604	0.39	1.30	0.51
4.25	90.52	0.165	90.52	0.165	0.99	0.000	0.604	0.39	1.30	0.51
4.30	90.87	0.167	90.87	0.167	0.99	0.000	0.604	0.39	1.30	0.51
4.35	91.23	0.169	91.23	0.169	0.99	0.000	0.604	0.39	1.30	0.51
4.40	91.59	0.171	91.59	0.171	0.99	0.000	0.604	0.39	1.30	0.51
4.45	91.94	0.174	91.94	0.174	0.99	0.000	0.604	0.39	1.30	0.51
4.50	92.30	0.176	92.30	0.176	0.99	0.000	0.604	0.39	1.30	0.51
4.55	92.91	0.178	92.91	0.178	0.99	0.000	0.604	0.39	1.30	0.50
4.60	93.51	0.180	93.51	0.180	0.99	0.000	0.604	0.39	1.30	0.50
4.65	94.12	0.182	94.12	0.182	0.99	0.000	0.604	0.39	1.30	0.50
4.70	94.73	0.185	94.73	0.185	0.99	0.000	0.604	0.39	1.30	0.50
4.75	95.33	0.187	95.33	0.187	0.99	0.000	0.604	0.39	1.30	0.50
4.80	95.94	0.189	95.94	0.189	0.99	0.000	0.604	0.39	1.30	0.50
4.85	96.55	0.191	96.55	0.191	0.99	0.000	0.604	0.39	1.30	0.50
4.90	97.15	0.194	97.15	0.194	0.99	0.000	0.604	0.39	1.30	0.50
4.95	97.76	0.196	97.76	0.196	0.99	0.000	0.604	0.39	1.30	0.50
5.00	98.37	0.198	98.37	0.198	0.99	0.000	0.604	0.39	1.30	0.50
5.05	98.97	0.201	98.97	0.201	0.99	0.000	0.604	0.39	1.30	0.50
5.10	99.58	0.203	99.58	0.203	0.99	0.000	0.604	0.39	1.30	0.50
5.15	100.19	0.205	100.19	0.205	0.99	0.000	0.604	0.39	1.30	0.50
5.20	100.79	0.208	100.79	0.208	0.99	0.000	0.604	0.39	1.30	0.50
5.25	101.40	0.210	101.40	0.210	0.99	0.000	0.604	0.39	1.30	0.50
5.30	102.01	0.212	102.01	0.212	0.99	0.000	0.604	0.39	1.30	0.50
5.35	102.61	0.215	102.61	0.215	0.99	0.000	0.604	0.39	1.30	0.50
5.40	103.22	0.217	103.22	0.217	0.99	0.000	0.604	0.39	1.30	0.50
5.45	103.83	0.220	103.83	0.220	0.99	0.000	0.604	0.39	1.30	0.50
5.50	104.43	0.222	104.43	0.222	0.99	0.000	0.604	0.39	1.30	0.50
5.55	105.04	0.225	105.04	0.225	0.99	0.000	0.604	0.39	1.30	0.50
5.60	105.65	0.227	105.65	0.227	0.99	0.000	0.604	0.39	1.30	0.50
5.65	106.25	0.230	106.25	0.230	0.99	0.000	0.604	0.39	1.30	0.50
5.70	106.86	0.232	106.86	0.232	0.99	0.000	0.604	0.39	1.30	0.50
5.75	107.47	0.235	107.47	0.235	0.99	0.000	0.604	0.39	1.30	0.50
5.80	108.07	0.237	108.07	0.237	0.99	0.000	0.604	0.39	1.30	0.50
5.85	108.68	0.240	108.68	0.240	0.99	0.000	0.604	0.39	1.30	0.50
5.90	109.29	0.242	109.29	0.242	0.99	0.000	0.604	0.39	1.30	0.50
5.95	109.89	0.245	109.89	0.245	0.99	0.000	0.604	0.39	1.30	0.50
6.00	110.50	0.247	110.50	0.247	0.99	0.000	0.604	0.39	1.30	0.50
6.05	110.47	0.250	110.47	0.250	0.99	0.000	0.604	0.39	1.30	0.50
6.10	110.45	0.253	110.45	0.253	0.99	0.000	0.604	0.39	1.30	0.50
6.15	110.42	0.255	110.42	0.255	0.99	0.000	0.604	0.39	1.30	0.50
6.20	110.39	0.258	110.39	0.258	0.99	0.000	0.604	0.39	1.30	0.50
6.25	110.37	0.260	110.37	0.260	0.99	0.000	0.604	0.39	1.30	0.50
6.30	110.34	0.263	110.34	0.263	0.99	0.000	0.604	0.39	1.30	0.50
6.35	110.31	0.266	110.31	0.266	0.99	0.000	0.604	0.39	1.30	0.50
6.40	110.29	0.268	110.29	0.268	0.99	0.000	0.604	0.39	1.30	0.50
6.45	110.26	0.271	110.26	0.271	0.98	0.000	0.604	0.39	1.30	0.50
6.50	110.23	0.274	110.23	0.274	0.98	0.000	0.604	0.39	1.30	0.50
6.55	110.21	0.276	110.21	0.276	0.98	0.000	0.604	0.39	1.30	0.50
6.60	110.18	0.279	110.18	0.279	0.98	0.000	0.604	0.39	1.30	0.50
6.65	110.15	0.281	110.15	0.281	0.98	0.000	0.604	0.39	1.30	0.50
6.70	110.13	0.284	110.13	0.284	0.98	0.000	0.604	0.39	1.30	0.50
6.75	110.10	0.287	110.10	0.287	0.98	0.000	0.604	0.39	1.30	0.50
6.80	110.07	0.289	110.07	0.289	0.98	0.000	0.604	0.39	1.30	0.50
6.85	110.05	0.292	110.05	0.292	0.98	0.000	0.604	0.39	1.30	0.50
6.90	110.02	0.294	110.02	0.294	0.98	0.000	0.604	0.39	1.30	0.50
6.95	109.99	0.297	109.99	0.297	0.98	0.000	0.604	0.39	1.30	0.50
7.00	109.97	0.300	109.97	0.300	0.98	0.000	0.604	0.39	1.30	0.50
7.05	109.94	0.302	109.94	0.302	0.98	0.000	0.604	0.39	1.30	0.50
7.10	109.91	0.305	109.91	0.305	0.98	0.000	0.604	0.39	1.30	0.50
7.15	109.89	0.307	109.89	0.307	0.98	0.000	0.604	0.39	1.30	0.50
7.20	109.86	0.310	109.86	0.310	0.98	0.000	0.604	0.39	1.30	0.50
7.25	109.83	0.313	109.83	0.313	0.98	0.000	0.604	0.39	1.30	0.50
7.30	109.81	0.315	109.81	0.315	0.98	0.000	0.604	0.39	1.30	0.50
7.35	109.78	0.318	109.78	0.318	0.98	0.000	0.604	0.39	1.30	0.50
7.40	109.75	0.320	109.75	0.320	0.98	0.000	0.604	0.39	1.30	0.50
7.45	109.73	0.323	109.73	0.323	0.98	0.000	0.604	0.39	1.30	0.50
7.50	109.70	0.325	109.70	0.325	0.98	0.000	0.604	0.39	1.30	0.50
7.55	109.23	0.328	109.23	0.328	0.98	0.000	0.604	0.39	1.30	0.50
7.60	108.77	0.331	108.77	0.331	0.98	0.000	0.604	0.39	1.30	0.50

7.65	108.30	0.333	108.30	0.333	0.98	0.000	0.604	0.39	1.30	0.50
7.70	107.83	0.336	107.83	0.336	0.98	0.000	0.604	0.39	1.30	0.50
7.75	107.37	0.338	107.37	0.338	0.98	0.000	0.604	0.39	1.30	0.50
7.80	106.90	0.341	106.90	0.341	0.98	0.000	0.604	0.39	1.30	0.50
7.85	106.43	0.343	106.43	0.343	0.98	0.000	0.604	0.39	1.30	0.50
7.90	105.97	0.346	105.97	0.346	0.98	0.000	0.604	0.39	1.30	0.50
7.95	105.50	0.348	105.50	0.348	0.98	0.000	0.604	0.39	1.30	0.50
8.00	105.03	0.351	105.03	0.351	0.98	0.000	0.604	0.39	1.30	0.50
8.05	104.57	0.353	104.57	0.353	0.98	0.000	0.604	0.39	1.30	0.50
8.10	104.10	0.356	104.10	0.356	0.98	0.000	0.604	0.39	1.30	0.50
8.15	103.63	0.358	103.63	0.358	0.98	0.000	0.604	0.39	1.30	0.50
8.20	103.17	0.361	103.17	0.361	0.98	0.000	0.604	0.39	1.30	0.50
8.25	102.70	0.363	102.70	0.363	0.98	0.000	0.604	0.39	1.30	0.50
8.30	102.23	0.366	102.23	0.366	0.98	0.000	0.604	0.39	1.30	0.50
8.35	101.77	0.368	101.77	0.368	0.98	0.000	0.604	0.38	1.30	0.50
8.40	101.30	0.370	101.30	0.370	0.98	0.000	0.604	0.38	1.30	0.50
8.45	100.83	0.373	100.83	0.373	0.98	0.000	0.604	0.38	1.30	0.50
8.50	100.37	0.375	100.37	0.375	0.98	0.000	0.604	0.38	1.30	0.50
8.55	99.90	0.378	99.90	0.378	0.98	0.000	0.604	0.38	1.30	0.50
8.60	99.43	0.380	99.43	0.380	0.98	0.000	0.604	0.38	1.30	0.50
8.65	98.97	0.382	98.97	0.382	0.98	0.000	0.604	0.38	1.30	0.50
8.70	98.50	0.385	98.50	0.385	0.98	0.000	0.604	0.38	1.30	0.50
8.75	98.03	0.387	98.03	0.387	0.98	0.000	0.604	0.38	1.30	0.50
8.80	97.57	0.389	97.57	0.389	0.98	0.000	0.604	0.38	1.30	0.50
8.85	97.10	0.392	97.10	0.392	0.98	0.000	0.604	0.38	1.30	0.50
8.90	96.63	0.394	96.63	0.394	0.98	0.000	0.604	0.38	1.30	0.50
8.95	96.17	0.396	96.17	0.396	0.98	0.000	0.604	0.38	1.30	0.50
9.00	95.70	0.398	95.70	0.398	0.98	0.000	0.604	0.38	1.30	0.50
9.05	96.13	0.401	96.13	0.401	0.98	0.000	0.604	0.38	1.30	0.50
9.10	96.55	0.403	96.55	0.403	0.98	0.000	0.604	0.38	1.30	0.50
9.15	96.98	0.405	96.98	0.405	0.98	0.000	0.604	0.38	1.30	0.50
9.20	97.41	0.408	97.41	0.408	0.98	0.000	0.604	0.38	1.30	0.50
9.25	97.83	0.410	97.83	0.410	0.98	0.000	0.604	0.38	1.30	0.50
9.30	98.26	0.412	98.26	0.412	0.98	0.000	0.604	0.38	1.30	0.50
9.35	98.69	0.414	98.69	0.414	0.98	0.000	0.604	0.38	1.30	0.50
9.40	99.11	0.417	99.11	0.417	0.98	0.000	0.604	0.38	1.30	0.50
9.45	99.54	0.419	99.54	0.419	0.98	0.000	0.604	0.38	1.30	0.50
9.50	99.97	0.422	99.97	0.422	0.98	0.000	0.604	0.38	1.30	0.50
9.55	100.39	0.424	100.39	0.424	0.98	0.000	0.604	0.38	1.30	0.50
9.60	100.82	0.426	100.82	0.426	0.98	0.000	0.604	0.38	1.30	0.50
9.65	101.25	0.429	101.25	0.429	0.98	0.000	0.604	0.38	1.30	0.50
9.70	101.67	0.431	101.67	0.431	0.98	0.000	0.604	0.38	1.30	0.50
9.75	102.10	0.433	102.10	0.433	0.98	0.000	0.604	0.38	1.30	0.50
9.80	102.53	0.436	102.53	0.436	0.98	0.000	0.604	0.38	1.30	0.50
9.85	102.95	0.438	102.95	0.438	0.98	0.000	0.604	0.38	1.30	0.50
9.90	103.38	0.441	103.38	0.441	0.98	0.000	0.604	0.38	1.30	0.50
9.95	103.81	0.443	103.81	0.443	0.98	0.000	0.604	0.38	1.30	0.50
10.00	104.23	0.446	104.23	0.446	0.98	0.000	0.604	0.38	1.30	0.50
10.05	104.66	0.448	104.66	0.448	0.98	0.000	0.604	0.38	1.30	0.50
10.10	105.09	0.451	105.09	0.451	0.98	0.000	0.604	0.38	1.30	0.50
10.15	105.51	0.453	105.51	0.453	0.98	0.000	0.604	0.38	1.30	0.50
10.20	105.94	0.456	105.94	0.456	0.98	0.000	0.604	0.38	1.30	0.50
10.25	106.37	0.458	106.37	0.458	0.98	0.000	0.604	0.38	1.30	0.50
10.30	106.79	0.461	106.79	0.461	0.98	0.000	0.604	0.38	1.30	0.50
10.35	107.22	0.463	107.22	0.463	0.98	0.000	0.604	0.38	1.30	0.50
10.40	107.65	0.466	107.65	0.466	0.98	0.000	0.604	0.38	1.30	0.50
10.45	108.07	0.468	108.07	0.468	0.98	0.000	0.604	0.38	1.30	0.50
10.50	108.50	0.471	108.50	0.471	0.98	0.000	0.604	0.38	1.30	0.50
10.55	108.60	0.473	108.60	0.473	0.98	0.000	0.604	0.38	1.30	0.50
10.60	108.70	0.476	108.70	0.476	0.98	0.000	0.604	0.38	1.30	0.50
10.65	108.80	0.478	108.80	0.478	0.98	0.000	0.604	0.38	1.30	0.50
10.70	108.90	0.481	108.90	0.481	0.98	0.000	0.604	0.38	1.30	0.50
10.75	109.00	0.484	109.00	0.484	0.97	0.000	0.604	0.38	1.30	0.50
10.80	109.10	0.486	109.10	0.486	0.97	0.000	0.604	0.38	1.30	0.50
10.85	109.20	0.489	109.20	0.489	0.97	0.000	0.604	0.38	1.30	0.50
10.90	109.30	0.491	109.30	0.491	0.97	0.000	0.604	0.38	1.30	0.50
10.95	109.40	0.494	109.40	0.494	0.97	0.000	0.604	0.38	1.30	0.50
11.00	109.50	0.496	109.50	0.496	0.97	0.000	0.604	0.38	1.30	0.50
11.05	109.60	0.499	109.60	0.499	0.97	0.000	0.604	0.38	1.30	0.50

11.10	109.70	0.502	109.70	0.502	0.97	0.000	0.604	0.38	1.30	0.50
11.15	109.80	0.504	109.80	0.504	0.97	0.000	0.604	0.38	1.30	0.50
11.20	109.90	0.507	109.90	0.507	0.97	0.000	0.604	0.38	1.30	0.50
11.25	110.00	0.509	110.00	0.509	0.97	0.000	0.604	0.38	1.30	0.50
11.30	110.10	0.512	110.10	0.512	0.97	0.000	0.604	0.38	1.30	0.50
11.35	110.20	0.515	110.20	0.515	0.97	0.000	0.604	0.38	1.30	0.50
11.40	110.30	0.517	110.30	0.517	0.97	0.000	0.604	0.38	1.30	0.50
11.45	110.40	0.520	110.40	0.520	0.97	0.000	0.604	0.38	1.30	0.50
11.50	110.50	0.522	110.50	0.522	0.97	0.000	0.604	0.38	1.30	0.50
11.55	110.60	0.525	110.60	0.525	0.97	0.000	0.604	0.38	1.30	0.50
11.60	110.70	0.528	110.70	0.528	0.97	0.000	0.604	0.38	1.30	0.50
11.65	110.80	0.530	110.80	0.530	0.97	0.000	0.604	0.38	1.30	0.50
11.70	110.90	0.533	110.90	0.533	0.97	0.000	0.604	0.38	1.30	0.50
11.75	111.00	0.535	111.00	0.535	0.97	0.000	0.604	0.38	1.30	0.50
11.80	111.10	0.538	111.10	0.538	0.97	0.000	0.604	0.38	1.30	0.50
11.85	111.20	0.541	111.20	0.541	0.97	0.000	0.604	0.38	1.30	0.50
11.90	111.30	0.543	111.30	0.543	0.97	0.000	0.604	0.38	1.30	0.50
11.95	111.40	0.546	111.40	0.546	0.97	0.000	0.604	0.38	1.30	0.50
12.00	111.50	0.549	111.50	0.549	0.97	0.000	0.604	0.38	1.30	0.50
12.05	111.52	0.551	111.52	0.551	0.97	0.000	0.604	0.38	1.30	0.50
12.10	111.55	0.554	111.55	0.554	0.97	0.000	0.604	0.38	1.30	0.50
12.15	111.57	0.557	111.57	0.557	0.97	0.000	0.604	0.38	1.30	0.50
12.20	111.59	0.559	111.59	0.559	0.97	0.000	0.604	0.38	1.30	0.50
12.25	111.62	0.562	111.62	0.562	0.97	0.000	0.604	0.38	1.30	0.50
12.30	111.64	0.564	111.64	0.564	0.97	0.000	0.604	0.38	1.30	0.50
12.35	111.66	0.567	111.66	0.567	0.97	0.000	0.604	0.38	1.30	0.50
12.40	111.69	0.570	111.69	0.570	0.97	0.000	0.604	0.38	1.30	0.50
12.45	111.71	0.572	111.71	0.572	0.97	0.000	0.604	0.38	1.30	0.50
12.50	111.73	0.575	111.73	0.575	0.97	0.000	0.604	0.38	1.30	0.50
12.55	111.76	0.578	111.76	0.578	0.97	0.000	0.604	0.38	1.30	0.50
12.60	111.78	0.580	111.78	0.580	0.97	0.000	0.604	0.38	1.30	0.50
12.65	111.80	0.583	111.80	0.583	0.97	0.000	0.604	0.38	1.30	0.50
12.70	111.83	0.586	111.83	0.586	0.97	0.000	0.604	0.38	1.30	0.50
12.75	111.85	0.588	111.85	0.588	0.97	0.000	0.604	0.38	1.30	0.50
12.80	111.87	0.591	111.87	0.591	0.97	0.000	0.604	0.38	1.30	0.50
12.85	111.90	0.593	111.90	0.593	0.97	0.000	0.604	0.38	1.30	0.50
12.90	111.92	0.596	111.92	0.596	0.97	0.000	0.604	0.38	1.30	0.50
12.95	111.94	0.599	111.94	0.599	0.97	0.000	0.604	0.38	1.30	0.49
13.00	111.97	0.601	111.97	0.601	0.97	0.000	0.604	0.38	1.30	0.49
13.05	111.99	0.604	111.99	0.604	0.97	0.000	0.604	0.38	1.30	0.49
13.10	112.01	0.607	112.01	0.607	0.97	0.000	0.604	0.38	1.30	0.49
13.15	112.04	0.609	112.04	0.609	0.97	0.000	0.604	0.38	1.30	0.49
13.20	112.06	0.612	112.06	0.612	0.97	0.000	0.604	0.38	1.30	0.49
13.25	112.08	0.615	112.08	0.615	0.97	0.000	0.604	0.38	1.30	0.49
13.30	112.11	0.617	112.11	0.617	0.97	0.000	0.604	0.38	1.30	0.49
13.35	112.13	0.620	112.13	0.620	0.97	0.000	0.604	0.38	1.30	0.49
13.40	112.15	0.623	112.15	0.623	0.97	0.000	0.604	0.38	1.30	0.49
13.45	112.18	0.625	112.18	0.625	0.97	0.000	0.604	0.38	1.30	0.49
13.50	112.20	0.628	112.20	0.628	0.97	0.000	0.604	0.38	1.30	0.49
13.55	111.67	0.631	111.67	0.631	0.97	0.000	0.604	0.38	1.30	0.49
13.60	111.13	0.633	111.13	0.633	0.97	0.000	0.604	0.38	1.30	0.49
13.65	110.60	0.636	110.60	0.636	0.97	0.000	0.604	0.38	1.30	0.49
13.70	110.07	0.638	110.07	0.638	0.97	0.000	0.604	0.38	1.30	0.49
13.75	109.53	0.641	109.53	0.641	0.97	0.000	0.604	0.38	1.30	0.49
13.80	109.00	0.644	109.00	0.644	0.97	0.000	0.604	0.38	1.30	0.49
13.85	108.47	0.646	108.47	0.646	0.97	0.000	0.604	0.38	1.30	0.49
13.90	107.93	0.649	107.93	0.649	0.97	0.000	0.604	0.38	1.30	0.49
13.95	107.40	0.651	107.40	0.651	0.97	0.000	0.604	0.38	1.30	0.49
14.00	106.87	0.654	106.87	0.654	0.97	0.000	0.604	0.38	1.30	0.49
14.05	106.33	0.656	106.33	0.656	0.97	0.000	0.604	0.38	1.30	0.49
14.10	105.80	0.659	105.80	0.659	0.97	0.000	0.604	0.38	1.30	0.49
14.15	105.27	0.661	105.27	0.661	0.97	0.000	0.604	0.38	1.30	0.49
14.20	104.73	0.664	104.73	0.664	0.97	0.000	0.604	0.38	1.30	0.49
14.25	104.20	0.666	104.20	0.666	0.97	0.000	0.604	0.38	1.30	0.49
14.30	103.67	0.669	103.67	0.669	0.97	0.000	0.604	0.38	1.30	0.49
14.35	103.13	0.671	103.13	0.671	0.97	0.000	0.604	0.38	1.30	0.49
14.40	102.60	0.674	102.60	0.674	0.97	0.000	0.604	0.38	1.30	0.49
14.45	102.07	0.676	102.07	0.676	0.97	0.000	0.604	0.38	1.30	0.49
14.50	101.53	0.679	101.53	0.679	0.97	0.000	0.604	0.38	1.30	0.49

14.55	101.00	0.681	101.00	0.681	0.97	0.000	0.604	0.38	1.30	0.49
14.60	100.47	0.683	100.47	0.683	0.97	0.000	0.604	0.38	1.30	0.49
14.65	99.93	0.686	99.93	0.686	0.97	0.000	0.604	0.38	1.30	0.49
14.70	99.40	0.688	99.40	0.688	0.97	0.000	0.604	0.38	1.30	0.49
14.75	98.87	0.690	98.87	0.690	0.97	0.000	0.604	0.38	1.30	0.49
14.80	98.33	0.693	98.33	0.693	0.97	0.000	0.604	0.38	1.30	0.49
14.85	97.80	0.695	97.80	0.695	0.97	0.000	0.604	0.38	1.30	0.49
14.90	97.27	0.697	97.27	0.697	0.97	0.000	0.604	0.38	1.30	0.49
14.95	96.73	0.700	96.73	0.700	0.97	0.000	0.604	0.38	1.30	0.49
15.00	96.20	0.702	96.20	0.702	0.97	0.000	0.604	0.38	1.30	0.49
15.05	96.40	0.704	96.40	0.704	0.96	0.000	0.604	0.38	1.30	0.49
15.10	96.59	0.706	96.59	0.706	0.96	0.000	0.604	0.38	1.30	0.49
15.15	96.79	0.709	96.79	0.709	0.96	0.000	0.604	0.38	1.30	0.49
15.20	96.99	0.711	96.99	0.711	0.96	0.000	0.604	0.38	1.30	0.49
15.25	97.18	0.713	97.18	0.713	0.96	0.000	0.604	0.38	1.30	0.49
15.30	97.38	0.716	97.38	0.716	0.96	0.000	0.604	0.38	1.30	0.49
15.35	97.58	0.718	97.58	0.718	0.96	0.000	0.604	0.38	1.30	0.49
15.40	97.77	0.720	97.77	0.720	0.96	0.000	0.604	0.38	1.30	0.49
15.45	97.97	0.723	97.97	0.723	0.96	0.000	0.604	0.38	1.30	0.49
15.50	98.17	0.725	98.17	0.725	0.96	0.000	0.604	0.38	1.30	0.49
15.55	98.36	0.727	98.36	0.727	0.96	0.000	0.604	0.38	1.30	0.49
15.60	98.56	0.730	98.56	0.730	0.96	0.000	0.604	0.38	1.30	0.49
15.65	98.76	0.732	98.76	0.732	0.96	0.000	0.604	0.38	1.30	0.49
15.70	98.95	0.734	98.95	0.734	0.96	0.000	0.604	0.38	1.30	0.49
15.75	99.15	0.737	99.15	0.737	0.96	0.000	0.604	0.38	1.30	0.49
15.80	99.35	0.739	99.35	0.739	0.96	0.000	0.604	0.38	1.30	0.49
15.85	99.54	0.741	99.54	0.741	0.96	0.000	0.604	0.38	1.30	0.49
15.90	99.74	0.744	99.74	0.744	0.96	0.000	0.604	0.38	1.30	0.49
15.95	99.94	0.746	99.94	0.746	0.96	0.000	0.604	0.38	1.30	0.49
16.00	100.13	0.748	100.13	0.748	0.96	0.000	0.604	0.38	1.30	0.49
16.05	100.33	0.751	100.33	0.751	0.96	0.000	0.604	0.38	1.30	0.49
16.10	100.53	0.753	100.53	0.753	0.96	0.000	0.604	0.38	1.30	0.49
16.15	100.72	0.755	100.72	0.755	0.96	0.000	0.604	0.38	1.30	0.49
16.20	100.92	0.758	100.92	0.758	0.96	0.000	0.604	0.38	1.30	0.49
16.25	101.12	0.760	101.12	0.760	0.96	0.000	0.604	0.38	1.30	0.49
16.30	101.31	0.763	101.31	0.763	0.96	0.000	0.604	0.38	1.30	0.49
16.35	101.51	0.765	101.51	0.765	0.96	0.000	0.604	0.38	1.30	0.49
16.40	101.71	0.767	101.71	0.767	0.96	0.000	0.604	0.38	1.30	0.49
16.45	101.90	0.770	101.90	0.770	0.96	0.000	0.604	0.38	1.30	0.49
16.50	102.10	0.772	102.10	0.772	0.96	0.000	0.604	0.38	1.30	0.49
16.55	101.58	0.775	101.58	0.775	0.96	0.000	0.604	0.38	1.30	0.49
16.60	101.05	0.777	101.05	0.777	0.96	0.000	0.604	0.38	1.30	0.49
16.65	100.53	0.779	100.53	0.779	0.96	0.000	0.604	0.38	1.30	0.49
16.70	100.01	0.782	100.01	0.782	0.96	0.000	0.604	0.38	1.30	0.49
16.75	99.48	0.784	99.48	0.784	0.96	0.000	0.604	0.38	1.30	0.49
16.80	98.96	0.786	98.96	0.786	0.96	0.000	0.604	0.38	1.30	0.49
16.85	98.44	0.789	98.44	0.789	0.96	0.000	0.604	0.38	1.30	0.49
16.90	97.91	0.791	97.91	0.791	0.96	0.000	0.604	0.38	1.30	0.49
16.95	97.39	0.793	97.39	0.793	0.96	0.000	0.604	0.38	1.30	0.49
17.00	96.87	0.796	96.87	0.796	0.96	0.000	0.604	0.38	1.30	0.49
17.05	96.34	0.798	96.34	0.798	0.96	0.000	0.604	0.38	1.30	0.49
17.10	95.82	0.800	95.82	0.800	0.96	0.000	0.604	0.38	1.30	0.49
17.15	95.30	0.803	95.30	0.803	0.96	0.000	0.604	0.38	1.30	0.49
17.20	94.77	0.805	94.77	0.805	0.96	0.000	0.604	0.38	1.30	0.49
17.25	94.25	0.807	94.25	0.807	0.96	0.000	0.604	0.38	1.30	0.49
17.30	93.73	0.809	93.73	0.809	0.96	0.000	0.604	0.38	1.30	0.49
17.35	93.20	0.811	93.20	0.811	0.96	0.000	0.604	0.38	1.30	0.49
17.40	92.68	0.814	92.68	0.814	0.96	0.000	0.604	0.38	1.30	0.49
17.45	92.16	0.816	92.16	0.816	0.96	0.000	0.604	0.38	1.30	0.49
17.50	91.63	0.818	91.63	0.818	0.96	0.000	0.604	0.38	1.30	0.49
17.55	91.11	0.820	91.11	0.820	0.96	0.000	0.604	0.38	1.30	0.49
17.60	90.59	0.822	90.59	0.822	0.96	0.000	0.604	0.38	1.30	0.49
17.65	90.06	0.824	90.06	0.824	0.96	0.000	0.604	0.38	1.30	0.49
17.70	89.54	0.827	89.54	0.827	0.96	0.000	0.604	0.38	1.30	0.49
17.75	89.02	0.829	89.02	0.829	0.96	0.000	0.604	0.38	1.30	0.49
17.80	88.49	0.831	88.49	0.831	0.96	0.000	0.604	0.38	1.30	0.49
17.85	87.97	0.833	87.97	0.833	0.96	0.000	0.604	0.38	1.30	0.49
17.90	87.45	0.835	87.45	0.835	0.96	0.000	0.604	0.38	1.30	0.49
17.95	86.92	0.837	86.92	0.837	0.96	0.000	0.604	0.38	1.30	0.49

18.00	86.40	0.839	86.40	0.839	0.96	0.000	0.604	0.38	1.30	0.49
18.05	86.26	0.841	86.26	0.841	0.96	0.000	0.604	0.38	1.30	0.49
18.10	86.11	0.843	86.11	0.843	0.96	0.000	0.604	0.38	1.30	0.49
18.15	85.97	0.845	85.97	0.845	0.96	0.000	0.604	0.38	1.30	0.49
18.20	85.83	0.847	85.83	0.847	0.96	0.000	0.604	0.38	1.30	0.49
18.25	85.68	0.849	85.68	0.849	0.96	0.000	0.604	0.38	1.30	0.49
18.30	85.54	0.851	85.54	0.851	0.96	0.000	0.604	0.38	1.30	0.49
18.35	85.40	0.853	85.40	0.853	0.96	0.000	0.604	0.38	1.30	0.49
18.40	85.25	0.855	85.25	0.855	0.96	0.000	0.604	0.38	1.30	0.49
18.45	85.11	0.857	85.11	0.857	0.96	0.000	0.604	0.38	1.30	0.49
18.50	84.97	0.859	84.97	0.859	0.96	0.000	0.604	0.38	1.30	0.49
18.55	84.82	0.861	84.82	0.861	0.96	0.000	0.604	0.38	1.30	0.49
18.60	84.68	0.863	84.68	0.863	0.96	0.000	0.604	0.38	1.30	0.49
18.65	84.54	0.865	84.54	0.865	0.96	0.000	0.604	0.38	1.30	0.49
18.70	84.39	0.867	84.39	0.867	0.96	0.000	0.604	0.38	1.30	0.49
18.75	84.25	0.869	84.25	0.869	0.96	0.000	0.604	0.38	1.30	0.49
18.80	84.11	0.871	84.11	0.871	0.96	0.000	0.604	0.38	1.30	0.49
18.85	83.96	0.873	83.96	0.873	0.96	0.000	0.604	0.38	1.30	0.49
18.90	83.82	0.875	83.82	0.875	0.96	0.000	0.604	0.38	1.30	0.49
18.95	83.68	0.877	83.68	0.877	0.96	0.000	0.604	0.38	1.30	0.49
19.00	83.53	0.879	83.53	0.879	0.96	0.000	0.604	0.38	1.30	0.49
19.05	83.39	0.881	83.39	0.881	0.96	0.000	0.604	0.38	1.30	0.49
19.10	83.25	0.883	83.25	0.883	0.96	0.000	0.604	0.38	1.30	0.49
19.15	83.10	0.885	83.10	0.885	0.96	0.000	0.604	0.38	1.30	0.49
19.20	82.96	0.887	82.96	0.887	0.96	0.000	0.604	0.38	1.30	0.49
19.25	82.82	0.889	82.82	0.889	0.96	0.000	0.604	0.37	1.30	0.49
19.30	82.67	0.891	82.67	0.891	0.96	0.000	0.604	0.37	1.30	0.49
19.35	82.53	0.893	82.53	0.893	0.95	0.000	0.604	0.37	1.30	0.49
19.40	82.39	0.895	82.39	0.895	0.95	0.000	0.604	0.37	1.30	0.49
19.45	82.24	0.897	82.24	0.897	0.95	0.000	0.604	0.37	1.30	0.49
19.50	82.10	0.899	82.10	0.899	0.95	0.000	0.604	0.37	1.30	0.49
19.55	82.09	0.901	82.09	0.901	0.95	0.000	0.604	0.37	1.30	0.49
19.60	82.09	0.903	82.09	0.903	0.95	0.000	0.604	0.37	1.30	0.49
19.65	82.08	0.905	82.08	0.905	0.95	0.000	0.604	0.37	1.30	0.49
19.70	82.07	0.907	82.07	0.907	0.95	0.000	0.604	0.37	1.30	0.49
19.75	82.07	0.909	82.07	0.909	0.95	0.000	0.604	0.37	1.30	0.49
19.80	82.06	0.911	82.06	0.911	0.95	0.000	0.604	0.37	1.30	0.49
19.85	82.05	0.912	82.05	0.912	0.95	0.000	0.604	0.37	1.30	0.49
19.90	82.05	0.914	82.05	0.914	0.95	0.000	0.604	0.37	1.30	0.49
19.95	82.04	0.916	82.04	0.916	0.95	0.000	0.604	0.37	1.30	0.49
20.00	82.03	0.918	82.03	0.918	0.95	0.000	0.604	0.37	1.30	0.49
20.05	82.03	0.920	82.03	0.920	0.95	0.000	0.604	0.37	1.30	0.49
20.10	82.02	0.922	82.02	0.922	0.95	0.000	0.604	0.37	1.30	0.49
20.15	82.01	0.924	82.01	0.924	0.95	0.000	0.604	0.37	1.30	0.49
20.20	82.01	0.926	82.01	0.926	0.95	0.000	0.604	0.37	1.30	0.49
20.25	82.00	0.928	82.00	0.928	0.95	0.000	0.604	0.37	1.30	0.49
20.30	81.99	0.930	81.99	0.930	0.95	0.000	0.604	0.37	1.30	0.49
20.35	81.99	0.932	81.99	0.932	0.95	0.000	0.604	0.37	1.30	0.49
20.40	81.98	0.934	81.98	0.934	0.95	0.000	0.604	0.37	1.30	0.49
20.45	81.97	0.936	81.97	0.936	0.95	0.000	0.604	0.37	1.30	0.49
20.50	81.97	0.938	81.97	0.938	0.95	0.000	0.604	0.37	1.30	0.49
20.55	81.96	0.940	81.96	0.940	0.95	0.000	0.604	0.37	1.30	0.49
20.60	81.95	0.942	81.95	0.942	0.95	0.000	0.604	0.37	1.30	0.49
20.65	81.95	0.943	81.95	0.943	0.95	0.000	0.604	0.37	1.30	0.49
20.70	81.94	0.945	81.94	0.945	0.95	0.000	0.604	0.37	1.30	0.49
20.75	81.93	0.947	81.93	0.947	0.95	0.000	0.604	0.37	1.30	0.49
20.80	81.93	0.949	81.93	0.949	0.95	0.000	0.604	0.37	1.30	0.49
20.85	81.92	0.951	81.92	0.951	0.95	0.000	0.604	0.37	1.30	0.49
20.90	81.91	0.953	81.91	0.953	0.95	0.000	0.604	0.37	1.30	0.49
20.95	81.91	0.955	81.91	0.955	0.95	0.000	0.604	0.37	1.30	0.49
21.00	81.90	0.957	81.90	0.957	0.95	0.000	0.604	0.37	1.30	0.49
21.05	81.95	0.959	81.95	0.959	0.95	0.000	0.604	0.37	1.30	0.49
21.10	82.00	0.961	82.00	0.961	0.95	0.000	0.604	0.37	1.30	0.49
21.15	82.05	0.963	82.05	0.963	0.95	0.000	0.604	0.37	1.30	0.49
21.20	82.10	0.965	82.10	0.965	0.95	0.000	0.604	0.37	1.30	0.49
21.25	82.15	0.967	82.15	0.967	0.95	0.000	0.604	0.37	1.30	0.49
21.30	82.20	0.969	82.20	0.969	0.95	0.000	0.604	0.37	1.30	0.49
21.35	82.25	0.971	82.25	0.971	0.95	0.000	0.604	0.37	1.30	0.48
21.40	82.30	0.973	82.30	0.973	0.95	0.000	0.604	0.37	1.30	0.48

21.45	82.35	0.974	82.35	0.974	0.95	0.000	0.604	0.37	1.30	0.48
21.50	82.40	0.976	82.40	0.976	0.95	0.000	0.604	0.37	1.30	0.48
21.55	82.45	0.978	82.45	0.978	0.95	0.000	0.604	0.37	1.30	0.48
21.60	82.50	0.980	82.50	0.980	0.95	0.000	0.604	0.37	1.30	0.48
21.65	82.55	0.982	82.55	0.982	0.95	0.000	0.604	0.37	1.30	0.48
21.70	82.60	0.984	82.60	0.984	0.95	0.000	0.604	0.37	1.30	0.48
21.75	82.65	0.986	82.65	0.986	0.95	0.000	0.604	0.37	1.30	0.48
21.80	82.70	0.988	82.70	0.988	0.95	0.000	0.604	0.37	1.30	0.48
21.85	82.75	0.990	82.75	0.990	0.95	0.000	0.604	0.37	1.30	0.48
21.90	82.80	0.992	82.80	0.992	0.95	0.000	0.604	0.37	1.30	0.48
21.95	82.85	0.994	82.85	0.994	0.95	0.000	0.604	0.37	1.30	0.48
22.00	82.90	0.996	82.90	0.996	0.95	0.000	0.604	0.37	1.30	0.48
22.05	82.95	0.998	82.95	0.998	0.95	0.000	0.604	0.37	1.30	0.48
22.10	83.00	1.000	83.00	1.000	0.95	0.000	0.604	0.37	1.30	0.48
22.15	83.05	1.002	83.05	1.002	0.95	0.000	0.604	0.37	1.30	0.48
22.20	83.10	1.004	83.10	1.004	0.95	0.000	0.604	0.37	1.30	0.48
22.25	83.15	1.006	83.15	1.006	0.95	0.000	0.604	0.37	1.30	0.48
22.30	83.20	1.008	83.20	1.008	0.95	0.000	0.604	0.37	1.30	0.48
22.35	83.25	1.010	83.25	1.010	0.95	0.000	0.604	0.37	1.30	0.48
22.40	83.30	1.012	83.30	1.012	0.95	0.000	0.604	0.37	1.30	0.48
22.45	83.35	1.014	83.35	1.014	0.95	0.000	0.604	0.37	1.30	0.48
22.50	83.40	1.016	83.40	1.016	0.95	0.000	0.604	0.37	1.30	0.48
22.55	83.46	1.018	83.46	1.018	0.95	0.000	0.604	0.37	1.30	0.48
22.60	83.51	1.020	83.51	1.020	0.95	0.000	0.604	0.37	1.30	0.48
22.65	83.57	1.022	83.57	1.022	0.95	0.000	0.604	0.37	1.30	0.48
22.70	83.63	1.023	83.63	1.023	0.95	0.000	0.604	0.37	1.30	0.48
22.75	83.68	1.025	83.68	1.025	0.95	0.000	0.604	0.37	1.30	0.48
22.80	83.74	1.027	83.74	1.027	0.95	0.000	0.604	0.37	1.30	0.48
22.85	83.80	1.029	83.80	1.029	0.95	0.000	0.604	0.37	1.30	0.48
22.90	83.85	1.031	83.85	1.031	0.95	0.000	0.604	0.37	1.30	0.48
22.95	83.91	1.033	83.91	1.033	0.95	0.000	0.604	0.37	1.30	0.48
23.00	83.97	1.035	83.97	1.035	0.95	0.000	0.604	0.37	1.30	0.48
23.05	84.02	1.037	84.02	1.037	0.95	0.000	0.604	0.37	1.30	0.48
23.10	84.08	1.039	84.08	1.039	0.95	0.000	0.604	0.37	1.30	0.48
23.15	84.14	1.041	84.14	1.041	0.95	0.000	0.604	0.37	1.30	0.48
23.20	84.19	1.043	84.19	1.043	0.95	0.000	0.604	0.37	1.30	0.48
23.25	84.25	1.045	84.25	1.045	0.95	0.000	0.604	0.37	1.30	0.48
23.30	84.31	1.047	84.31	1.047	0.95	0.000	0.604	0.37	1.30	0.48
23.35	84.36	1.049	84.36	1.049	0.95	0.000	0.604	0.37	1.30	0.48
23.40	84.42	1.051	84.42	1.051	0.95	0.000	0.604	0.37	1.30	0.48
23.45	84.48	1.053	84.48	1.053	0.95	0.000	0.604	0.37	1.30	0.48
23.50	84.53	1.055	84.53	1.055	0.95	0.000	0.604	0.37	1.30	0.48
23.55	84.59	1.057	84.59	1.057	0.95	0.000	0.604	0.37	1.30	0.48
23.60	84.65	1.059	84.65	1.059	0.94	0.000	0.604	0.37	1.30	0.48
23.65	84.70	1.061	84.70	1.061	0.94	0.000	0.604	0.37	1.30	0.48
23.70	84.76	1.063	84.76	1.063	0.94	0.000	0.604	0.37	1.30	0.48
23.75	84.82	1.065	84.82	1.065	0.94	0.000	0.604	0.37	1.30	0.48
23.80	84.87	1.067	84.87	1.067	0.94	0.000	0.604	0.37	1.30	0.48
23.85	84.93	1.069	84.93	1.069	0.94	0.000	0.604	0.37	1.30	0.48
23.90	84.99	1.071	84.99	1.071	0.94	0.000	0.604	0.37	1.30	0.48
23.95	85.04	1.073	85.04	1.073	0.94	0.000	0.604	0.37	1.30	0.48
24.00	85.10	1.075	85.10	1.075	0.94	0.000	0.604	0.37	1.30	0.48
24.05	84.82	1.077	84.82	1.077	0.94	0.000	0.604	0.37	1.30	0.48
24.10	84.53	1.079	84.53	1.079	0.94	0.000	0.604	0.37	1.30	0.48
24.15	84.25	1.081	84.25	1.081	0.94	0.000	0.604	0.37	1.30	0.48
24.20	83.97	1.083	83.97	1.083	0.94	0.000	0.604	0.37	1.30	0.48
24.25	83.68	1.085	83.68	1.085	0.94	0.000	0.604	0.37	1.30	0.48
24.30	83.40	1.087	83.40	1.087	0.94	0.000	0.604	0.37	1.30	0.48
24.35	83.12	1.089	83.12	1.089	0.94	0.000	0.604	0.37	1.30	0.48
24.40	82.83	1.091	82.83	1.091	0.94	0.000	0.604	0.37	1.30	0.48
24.45	82.55	1.093	82.55	1.093	0.94	0.000	0.604	0.37	1.30	0.48
24.50	82.27	1.095	82.27	1.095	0.94	0.000	0.604	0.37	1.30	0.48
24.55	81.98	1.097	81.98	1.097	0.94	0.000	0.604	0.37	1.30	0.48
24.60	81.70	1.099	81.70	1.099	0.94	0.000	0.604	0.37	1.30	0.48
24.65	81.42	1.101	81.42	1.101	0.94	0.000	0.604	0.37	1.30	0.48
24.70	81.13	1.103	81.13	1.103	0.94	0.000	0.604	0.37	1.30	0.48
24.75	80.85	1.105	80.85	1.105	0.94	0.000	0.604	0.37	1.30	0.48
24.80	80.57	1.107	80.57	1.107	0.94	0.000	0.604	0.37	1.30	0.48
24.85	80.28	1.109	80.28	1.109	0.94	0.000	0.604	0.37	1.30	0.48

24.90	80.00	1.110	80.00	1.110	0.94	0.000	0.604	0.37	1.30	0.48
24.95	79.72	1.112	79.72	1.112	0.94	0.000	0.604	0.37	1.30	0.48
25.00	79.43	1.114	79.43	1.114	0.94	0.000	0.604	0.37	1.30	0.48
25.05	79.15	1.116	79.15	1.116	0.94	0.000	0.604	0.37	1.30	0.48
25.10	78.87	1.118	78.87	1.118	0.94	0.000	0.604	0.37	1.30	0.48
25.15	78.58	1.120	78.58	1.120	0.94	0.000	0.604	0.37	1.30	0.48
25.20	78.30	1.122	78.30	1.122	0.94	0.000	0.604	0.37	1.30	0.48
25.25	78.02	1.124	78.02	1.124	0.94	0.000	0.604	0.37	1.30	0.48
25.30	77.73	1.125	77.73	1.125	0.94	0.000	0.604	0.37	1.30	0.48
25.35	77.45	1.127	77.45	1.127	0.94	0.000	0.604	0.37	1.30	0.48
25.40	77.17	1.129	77.17	1.129	0.94	0.000	0.604	0.37	1.30	0.48
25.45	76.88	1.131	76.88	1.131	0.94	0.000	0.604	0.37	1.30	0.48
25.50	76.60	1.133	76.60	1.133	0.94	0.000	0.604	0.37	1.30	0.48
25.55	77.22	1.135	77.22	1.135	0.94	0.000	0.604	0.37	1.30	0.48
25.60	77.83	1.136	77.83	1.136	0.94	0.000	0.604	0.37	1.30	0.48
25.65	78.45	1.138	78.45	1.138	0.94	0.000	0.604	0.37	1.30	0.48
25.70	79.07	1.140	79.07	1.140	0.94	0.000	0.604	0.37	1.30	0.48
25.75	79.68	1.142	79.68	1.142	0.94	0.000	0.604	0.37	1.30	0.48
25.80	80.30	1.144	80.30	1.144	0.94	0.000	0.604	0.37	1.30	0.48
25.85	80.92	1.146	80.92	1.146	0.94	0.000	0.604	0.37	1.30	0.48
25.90	81.53	1.148	81.53	1.148	0.94	0.000	0.604	0.37	1.30	0.48
25.95	82.15	1.150	82.15	1.150	0.94	0.000	0.604	0.37	1.30	0.48
26.00	82.77	1.151	82.77	1.151	0.94	0.000	0.604	0.37	1.30	0.48
26.05	83.38	1.153	83.38	1.153	0.94	0.000	0.604	0.37	1.30	0.48
26.10	84.00	1.155	84.00	1.155	0.94	0.000	0.604	0.37	1.30	0.48
26.15	84.62	1.157	84.62	1.157	0.94	0.000	0.604	0.37	1.30	0.48
26.20	85.23	1.159	85.23	1.159	0.94	0.000	0.604	0.37	1.30	0.48
26.25	85.85	1.161	85.85	1.161	0.94	0.000	0.604	0.37	1.30	0.48
26.30	86.47	1.163	86.47	1.163	0.94	0.000	0.604	0.37	1.30	0.48
26.35	87.08	1.165	87.08	1.165	0.94	0.000	0.604	0.37	1.30	0.48
26.40	87.70	1.168	87.70	1.168	0.94	0.000	0.604	0.37	1.30	0.48
26.45	88.32	1.170	88.32	1.170	0.94	0.000	0.604	0.37	1.30	0.48
26.50	88.93	1.172	88.93	1.172	0.94	0.000	0.604	0.37	1.30	0.48
26.55	89.55	1.174	89.55	1.174	0.94	0.000	0.604	0.37	1.30	0.48
26.60	90.17	1.176	90.17	1.176	0.94	0.000	0.604	0.37	1.30	0.48
26.65	90.78	1.178	90.78	1.178	0.94	0.000	0.604	0.37	1.30	0.48
26.70	91.40	1.180	91.40	1.180	0.94	0.000	0.604	0.37	1.30	0.48
26.75	92.02	1.182	92.02	1.182	0.94	0.000	0.604	0.37	1.30	0.48
26.80	92.63	1.184	92.63	1.184	0.94	0.000	0.604	0.37	1.30	0.48
26.85	93.25	1.187	93.25	1.187	0.94	0.000	0.604	0.37	1.30	0.48
26.90	93.87	1.189	93.87	1.189	0.94	0.000	0.604	0.37	1.30	0.48
26.95	94.48	1.191	94.48	1.191	0.94	0.000	0.604	0.37	1.30	0.48
27.00	95.10	1.193	95.10	1.193	0.94	0.000	0.604	0.37	1.30	0.48
27.05	94.60	1.196	94.60	1.196	0.94	0.000	0.604	0.37	1.30	0.48
27.10	94.10	1.198	94.10	1.198	0.94	0.000	0.604	0.37	1.30	0.48
27.15	93.60	1.200	93.60	1.200	0.94	0.000	0.604	0.37	1.30	0.48
27.20	93.10	1.202	93.10	1.202	0.94	0.000	0.604	0.37	1.30	0.48
27.25	92.60	1.204	92.60	1.204	0.94	0.000	0.604	0.37	1.30	0.48
27.30	92.10	1.207	92.10	1.207	0.94	0.000	0.604	0.37	1.30	0.48
27.35	91.60	1.209	91.60	1.209	0.94	0.000	0.604	0.37	1.30	0.48
27.40	91.10	1.211	91.10	1.211	0.94	0.000	0.604	0.37	1.30	0.48
27.45	90.60	1.213	90.60	1.213	0.94	0.000	0.604	0.37	1.30	0.48
27.50	90.10	1.215	90.10	1.215	0.94	0.000	0.604	0.37	1.30	0.48
27.55	89.60	1.217	89.60	1.217	0.94	0.000	0.604	0.37	1.30	0.48
27.60	89.10	1.220	89.10	1.220	0.94	0.000	0.604	0.37	1.30	0.48
27.65	88.60	1.222	88.60	1.222	0.94	0.000	0.604	0.37	1.30	0.48
27.70	88.10	1.224	88.10	1.224	0.94	0.000	0.604	0.37	1.30	0.48
27.75	87.60	1.226	87.60	1.226	0.94	0.000	0.604	0.37	1.30	0.48
27.80	87.10	1.228	87.10	1.228	0.94	0.000	0.604	0.37	1.30	0.48
27.85	86.60	1.230	86.60	1.230	0.94	0.000	0.604	0.37	1.30	0.48
27.90	86.10	1.232	86.10	1.232	0.93	0.000	0.604	0.37	1.30	0.48
27.95	85.60	1.234	85.60	1.234	0.93	0.000	0.604	0.37	1.30	0.48
28.00	85.10	1.236	85.10	1.236	0.93	0.000	0.604	0.37	1.30	0.48
28.05	84.60	1.238	84.60	1.238	0.93	0.000	0.604	0.37	1.30	0.48
28.10	84.10	1.240	84.10	1.240	0.93	0.000	0.604	0.37	1.30	0.48
28.15	83.60	1.242	83.60	1.242	0.93	0.000	0.604	0.37	1.30	0.48
28.20	83.10	1.244	83.10	1.244	0.93	0.000	0.604	0.37	1.30	0.48
28.25	82.60	1.246	82.60	1.246	0.93	0.000	0.604	0.37	1.30	0.48
28.30	82.10	1.248	82.10	1.248	0.93	0.000	0.604	0.37	1.30	0.48

28.35	81.60	1.250	81.60	1.250	0.93	0.000	0.604	0.37	1.30	0.48
28.40	81.10	1.252	81.10	1.252	0.93	0.000	0.604	0.37	1.30	0.48
28.45	80.60	1.254	80.60	1.254	0.93	0.000	0.604	0.37	1.30	0.48
28.50	80.10	1.256	80.10	1.256	0.93	0.000	0.604	0.37	1.30	0.48
28.55	80.26	1.257	80.26	1.257	0.93	0.000	0.604	0.37	1.30	0.48
28.60	80.42	1.259	80.42	1.259	0.93	0.000	0.604	0.37	1.30	0.48
28.65	80.58	1.261	80.58	1.261	0.93	0.000	0.604	0.37	1.30	0.48
28.70	80.74	1.263	80.74	1.263	0.93	0.000	0.604	0.37	1.30	0.48
28.75	80.90	1.265	80.90	1.265	0.93	0.000	0.604	0.37	1.30	0.48
28.80	81.06	1.267	81.06	1.267	0.93	0.000	0.604	0.37	1.30	0.48
28.85	81.22	1.269	81.22	1.269	0.93	0.000	0.604	0.37	1.30	0.48
28.90	81.38	1.271	81.38	1.271	0.93	0.000	0.604	0.37	1.30	0.48
28.95	81.54	1.273	81.54	1.273	0.93	0.000	0.604	0.37	1.30	0.48
29.00	81.70	1.275	81.70	1.275	0.93	0.000	0.604	0.37	1.30	0.48
29.05	81.86	1.277	81.86	1.277	0.93	0.000	0.604	0.37	1.30	0.48
29.10	82.02	1.279	82.02	1.279	0.93	0.000	0.604	0.37	1.30	0.48
29.15	82.18	1.280	82.18	1.280	0.93	0.000	0.604	0.37	1.30	0.48
29.20	82.34	1.282	82.34	1.282	0.93	0.000	0.604	0.37	1.30	0.48
29.25	82.50	1.284	82.50	1.284	0.93	0.000	0.604	0.37	1.30	0.48
29.30	82.66	1.286	82.66	1.286	0.93	0.000	0.604	0.37	1.30	0.48
29.35	82.82	1.288	82.82	1.288	0.93	0.000	0.604	0.37	1.30	0.48
29.40	82.98	1.290	82.98	1.290	0.93	0.000	0.604	0.37	1.30	0.48
29.45	83.14	1.292	83.14	1.292	0.93	0.000	0.604	0.37	1.30	0.48
29.50	83.30	1.294	83.30	1.294	0.93	0.000	0.604	0.37	1.30	0.48
29.55	83.46	1.296	83.46	1.296	0.93	0.000	0.604	0.37	1.30	0.48
29.60	83.62	1.298	83.62	1.298	0.93	0.000	0.604	0.37	1.30	0.48
29.65	83.78	1.300	83.78	1.300	0.93	0.000	0.604	0.37	1.30	0.48
29.70	83.94	1.302	83.94	1.302	0.93	0.000	0.604	0.37	1.30	0.48
29.75	84.10	1.304	84.10	1.304	0.93	0.000	0.604	0.37	1.30	0.47
29.80	84.26	1.306	84.26	1.306	0.93	0.000	0.604	0.37	1.30	0.47
29.85	84.42	1.308	84.42	1.308	0.93	0.000	0.604	0.37	1.30	0.47
29.90	84.58	1.310	84.58	1.310	0.93	0.000	0.604	0.37	1.30	0.47
29.95	84.74	1.312	84.74	1.312	0.93	0.000	0.604	0.37	1.30	0.47
30.00	84.90	1.314	84.90	1.314	0.93	0.000	0.604	0.37	1.30	0.47
30.05	84.92	1.316	84.92	1.316	0.93	0.000	0.604	0.36	1.30	0.47
30.10	84.95	1.318	84.95	1.318	0.93	0.000	0.604	0.36	1.30	0.47
30.15	84.97	1.320	84.97	1.320	0.93	0.000	0.604	0.36	1.30	0.47
30.20	84.99	1.322	84.99	1.322	0.93	0.000	0.604	0.36	1.30	0.47
30.25	85.02	1.324	85.02	1.324	0.93	0.000	0.604	0.36	1.30	0.47
30.30	85.04	1.326	85.04	1.326	0.93	0.000	0.604	0.36	1.30	0.47
30.35	85.06	1.328	85.06	1.328	0.93	0.000	0.604	0.36	1.30	0.47
30.40	85.09	1.330	85.09	1.330	0.93	0.000	0.604	0.36	1.30	0.47
30.45	85.11	1.332	85.11	1.332	0.93	0.000	0.604	0.36	1.30	0.47
30.50	85.13	1.334	85.13	1.334	0.93	0.000	0.604	0.36	1.30	0.47
30.55	85.16	1.336	85.16	1.336	0.93	0.000	0.604	0.36	1.30	0.47
30.60	85.18	1.338	85.18	1.338	0.92	0.000	0.604	0.36	1.30	0.47
30.65	85.20	1.340	85.20	1.340	0.92	0.000	0.604	0.36	1.30	0.47
30.70	85.23	1.342	85.23	1.342	0.92	0.000	0.604	0.36	1.30	0.47
30.75	85.25	1.344	85.25	1.344	0.92	0.000	0.604	0.36	1.30	0.47
30.80	85.27	1.346	85.27	1.346	0.92	0.000	0.604	0.36	1.30	0.47
30.85	85.30	1.348	85.30	1.348	0.92	0.000	0.604	0.36	1.30	0.47
30.90	85.32	1.350	85.32	1.350	0.92	0.000	0.604	0.36	1.30	0.47
30.95	85.34	1.352	85.34	1.352	0.92	0.000	0.604	0.36	1.30	0.47
31.00	85.37	1.354	85.37	1.354	0.92	0.000	0.604	0.36	1.30	0.47
31.05	85.39	1.356	85.39	1.356	0.92	0.000	0.604	0.36	1.30	0.47
31.10	85.41	1.358	85.41	1.358	0.92	0.000	0.604	0.36	1.30	0.47
31.15	85.44	1.360	85.44	1.360	0.92	0.000	0.604	0.36	1.30	0.47
31.20	85.46	1.362	85.46	1.362	0.92	0.000	0.604	0.36	1.30	0.47
31.25	85.48	1.364	85.48	1.364	0.92	0.000	0.604	0.36	1.30	0.47
31.30	85.51	1.366	85.51	1.366	0.92	0.000	0.604	0.36	1.30	0.47
31.35	85.53	1.368	85.53	1.368	0.92	0.000	0.604	0.36	1.30	0.47
31.40	85.55	1.370	85.55	1.370	0.92	0.000	0.604	0.36	1.30	0.47
31.45	85.58	1.372	85.58	1.372	0.92	0.000	0.604	0.36	1.30	0.47
31.50	85.60	1.374	85.60	1.374	0.92	0.000	0.604	0.36	1.30	0.47
31.55	85.42	1.376	85.42	1.376	0.92	0.000	0.604	0.36	1.30	0.47
31.60	85.25	1.378	85.25	1.378	0.92	0.000	0.604	0.36	1.30	0.47
31.65	85.07	1.380	85.07	1.380	0.92	0.000	0.604	0.36	1.30	0.47
31.70	84.89	1.383	84.89	1.383	0.92	0.000	0.604	0.36	1.30	0.47
31.75	84.72	1.385	84.72	1.385	0.92	0.000	0.604	0.36	1.30	0.47

31.80	84.54	1.387	84.54	1.387	0.92	0.000	0.604	0.36	1.30	0.47
31.85	84.36	1.389	84.36	1.389	0.91	0.000	0.604	0.36	1.30	0.47
31.90	84.19	1.391	84.19	1.391	0.91	0.000	0.604	0.36	1.30	0.47
31.95	84.01	1.392	84.01	1.392	0.91	0.000	0.604	0.36	1.30	0.47
32.00	83.83	1.394	83.83	1.394	0.91	0.000	0.604	0.36	1.30	0.47
32.05	83.66	1.396	83.66	1.396	0.91	0.000	0.604	0.36	1.30	0.47
32.10	83.48	1.398	83.48	1.398	0.91	0.000	0.604	0.36	1.30	0.47
32.15	83.30	1.400	83.30	1.400	0.91	0.000	0.604	0.36	1.30	0.47
32.20	83.13	1.402	83.13	1.402	0.91	0.000	0.604	0.36	1.30	0.47
32.25	82.95	1.404	82.95	1.404	0.91	0.000	0.604	0.36	1.30	0.47
32.30	82.77	1.406	82.77	1.406	0.91	0.000	0.604	0.36	1.30	0.47
32.35	82.60	1.408	82.60	1.408	0.91	0.000	0.604	0.36	1.30	0.46
32.40	82.42	1.410	82.42	1.410	0.91	0.000	0.604	0.36	1.30	0.46
32.45	82.24	1.412	82.24	1.412	0.91	0.000	0.604	0.36	1.30	0.46
32.50	82.07	1.414	82.07	1.414	0.91	0.000	0.604	0.36	1.30	0.46
32.55	81.89	1.416	81.89	1.416	0.91	0.000	0.604	0.36	1.30	0.46
32.60	81.71	1.418	81.71	1.418	0.91	0.000	0.604	0.36	1.30	0.46
32.65	81.54	1.420	81.54	1.420	0.91	0.000	0.604	0.36	1.30	0.46
32.70	81.36	1.422	81.36	1.422	0.91	0.000	0.604	0.36	1.30	0.46
32.75	81.18	1.424	81.18	1.424	0.91	0.000	0.604	0.36	1.30	0.46
32.80	81.01	1.426	81.01	1.426	0.91	0.000	0.604	0.36	1.30	0.46
32.85	80.83	1.428	80.83	1.428	0.91	0.000	0.604	0.36	1.30	0.46
32.90	80.65	1.429	80.65	1.429	0.91	0.000	0.604	0.36	1.30	0.46
32.95	80.48	1.431	80.48	1.431	0.91	0.000	0.604	0.36	1.30	0.46
33.00	80.30	1.433	80.30	1.433	0.91	0.000	0.604	0.36	1.30	0.46
33.05	80.45	1.435	80.45	1.435	0.91	0.000	0.604	0.36	1.30	0.46
33.10	80.59	1.437	80.59	1.437	0.90	0.000	0.604	0.36	1.30	0.46
33.15	80.74	1.439	80.74	1.439	0.90	0.000	0.604	0.36	1.30	0.46
33.20	80.89	1.441	80.89	1.441	0.90	0.000	0.604	0.35	1.30	0.46
33.25	81.03	1.443	81.03	1.443	0.90	0.000	0.604	0.35	1.30	0.46
33.30	81.18	1.445	81.18	1.445	0.90	0.000	0.604	0.35	1.30	0.46
33.35	81.33	1.447	81.33	1.447	0.90	0.000	0.604	0.35	1.30	0.46
33.40	81.47	1.449	81.47	1.449	0.90	0.000	0.604	0.35	1.30	0.46
33.45	81.62	1.451	81.62	1.451	0.90	0.000	0.604	0.35	1.30	0.46
33.50	81.77	1.452	81.77	1.452	0.90	0.000	0.604	0.35	1.30	0.46
33.55	81.91	1.454	81.91	1.454	0.90	0.000	0.604	0.35	1.30	0.46
33.60	82.06	1.456	82.06	1.456	0.90	0.000	0.604	0.35	1.30	0.46
33.65	82.21	1.458	82.21	1.458	0.90	0.000	0.604	0.35	1.30	0.46
33.70	82.35	1.460	82.35	1.460	0.90	0.000	0.604	0.35	1.30	0.46
33.75	82.50	1.462	82.50	1.462	0.90	0.000	0.604	0.35	1.30	0.46
33.80	82.65	1.464	82.65	1.464	0.90	0.000	0.604	0.35	1.30	0.46
33.85	82.79	1.466	82.79	1.466	0.90	0.000	0.604	0.35	1.30	0.46
33.90	82.94	1.468	82.94	1.468	0.90	0.000	0.604	0.35	1.30	0.46
33.95	83.09	1.470	83.09	1.470	0.90	0.000	0.604	0.35	1.30	0.46
34.00	83.23	1.472	83.23	1.472	0.90	0.000	0.604	0.35	1.30	0.46
34.05	83.38	1.474	83.38	1.474	0.90	0.000	0.604	0.35	1.30	0.46
34.10	83.53	1.476	83.53	1.476	0.90	0.000	0.604	0.35	1.30	0.46
34.15	83.67	1.478	83.67	1.478	0.90	0.000	0.604	0.35	1.30	0.46
34.20	83.82	1.480	83.82	1.480	0.90	0.000	0.604	0.35	1.30	0.46
34.25	83.97	1.482	83.97	1.482	0.90	0.000	0.604	0.35	1.30	0.46
34.30	84.11	1.484	84.11	1.484	0.89	0.000	0.604	0.35	1.30	0.46
34.35	84.26	1.486	84.26	1.486	0.89	0.000	0.604	0.35	1.30	0.46
34.40	84.41	1.488	84.41	1.488	0.89	0.000	0.604	0.35	1.30	0.46
34.45	84.55	1.490	84.55	1.490	0.89	0.000	0.604	0.35	1.30	0.46
34.50	84.70	1.492	84.70	1.492	0.89	0.000	0.604	0.35	1.30	0.46
34.55	84.58	1.494	84.58	1.494	0.89	0.000	0.604	0.35	1.30	0.46
34.60	84.47	1.496	84.47	1.496	0.89	0.000	0.604	0.35	1.30	0.46
34.65	84.35	1.498	84.35	1.498	0.89	0.000	0.604	0.35	1.30	0.46
34.70	84.23	1.500	84.23	1.500	0.89	0.000	0.604	0.35	1.30	0.46
34.75	84.12	1.502	84.12	1.502	0.89	0.000	0.604	0.35	1.30	0.45
34.80	84.00	1.504	84.00	1.504	0.89	0.000	0.604	0.35	1.30	0.45
34.85	83.88	1.506	83.88	1.506	0.89	0.000	0.604	0.35	1.30	0.45
34.90	83.77	1.508	83.77	1.508	0.89	0.000	0.604	0.35	1.30	0.45
34.95	83.65	1.510	83.65	1.510	0.89	0.000	0.604	0.35	1.30	0.45
35.00	83.53	1.512	83.53	1.512	0.89	0.000	0.604	0.35	1.30	0.45
35.05	83.42	1.514	83.42	1.514	0.89	0.000	0.604	0.35	1.30	0.45
35.10	83.30	1.516	83.30	1.516	0.89	0.000	0.604	0.35	1.30	0.45
35.15	83.18	1.518	83.18	1.518	0.89	0.000	0.604	0.35	1.30	0.45
35.20	83.07	1.519	83.07	1.519	0.89	0.000	0.604	0.35	1.30	0.45

35.25	82.95	1.521	82.95	1.521	0.89	0.000	0.604	0.35	1.30	0.45
35.30	82.83	1.523	82.83	1.523	0.89	0.000	0.604	0.35	1.30	0.45
35.35	82.72	1.525	82.72	1.525	0.89	0.000	0.604	0.35	1.30	0.45
35.40	82.60	1.527	82.60	1.527	0.89	0.000	0.604	0.35	1.30	0.45
35.45	82.48	1.529	82.48	1.529	0.89	0.000	0.604	0.35	1.30	0.45
35.50	82.37	1.531	82.37	1.531	0.89	0.000	0.604	0.35	1.30	0.45
35.55	82.25	1.533	82.25	1.533	0.88	0.000	0.604	0.35	1.30	0.45
35.60	82.13	1.535	82.13	1.535	0.88	0.000	0.604	0.35	1.30	0.45
35.65	82.02	1.537	82.02	1.537	0.88	0.000	0.604	0.35	1.30	0.45
35.70	81.90	1.539	81.90	1.539	0.88	0.000	0.604	0.35	1.30	0.45
35.75	81.78	1.541	81.78	1.541	0.88	0.000	0.604	0.35	1.30	0.45
35.80	81.67	1.543	81.67	1.543	0.88	0.000	0.604	0.35	1.30	0.45
35.85	81.55	1.545	81.55	1.545	0.88	0.000	0.604	0.35	1.30	0.45
35.90	81.43	1.547	81.43	1.547	0.88	0.000	0.604	0.35	1.30	0.45
35.95	81.32	1.549	81.32	1.549	0.88	0.000	0.604	0.35	1.30	0.45
36.00	81.20	1.551	81.20	1.551	0.88	0.000	0.604	0.35	1.30	0.45
36.05	81.14	1.552	81.14	1.552	0.88	0.000	0.604	0.35	1.30	0.45
36.10	81.09	1.554	81.09	1.554	0.88	0.000	0.604	0.35	1.30	0.45
36.15	81.03	1.556	81.03	1.556	0.88	0.000	0.604	0.35	1.30	0.45
36.20	80.97	1.558	80.97	1.558	0.88	0.000	0.604	0.35	1.30	0.45
36.25	80.92	1.560	80.92	1.560	0.88	0.000	0.604	0.35	1.30	0.45
36.30	80.86	1.562	80.86	1.562	0.88	0.000	0.604	0.34	1.30	0.45
36.35	80.80	1.564	80.80	1.564	0.88	0.000	0.604	0.34	1.30	0.45
36.40	80.75	1.566	80.75	1.566	0.88	0.000	0.604	0.34	1.30	0.45
36.45	80.69	1.568	80.69	1.568	0.88	0.000	0.604	0.34	1.30	0.45
36.50	80.63	1.570	80.63	1.570	0.88	0.000	0.604	0.34	1.30	0.45
36.55	80.58	1.572	80.58	1.572	0.88	0.000	0.604	0.34	1.30	0.45
36.60	80.52	1.573	80.52	1.573	0.88	0.000	0.604	0.34	1.30	0.45
36.65	80.46	1.575	80.46	1.575	0.88	0.000	0.604	0.34	1.30	0.45
36.70	80.41	1.577	80.41	1.577	0.88	0.000	0.604	0.34	1.30	0.45
36.75	80.35	1.579	80.35	1.579	0.87	0.000	0.604	0.34	1.30	0.45
36.80	80.29	1.581	80.29	1.581	0.87	0.000	0.604	0.34	1.30	0.45
36.85	80.24	1.583	80.24	1.583	0.87	0.000	0.604	0.34	1.30	0.45
36.90	80.18	1.585	80.18	1.585	0.87	0.000	0.604	0.34	1.30	0.45
36.95	80.12	1.587	80.12	1.587	0.87	0.000	0.604	0.34	1.30	0.45
37.00	80.07	1.589	80.07	1.589	0.87	0.000	0.604	0.34	1.30	0.45
37.05	80.01	1.591	80.01	1.591	0.87	0.000	0.604	0.34	1.30	0.45
37.10	79.95	1.592	79.95	1.592	0.87	0.000	0.604	0.34	1.30	0.45
37.15	79.90	1.594	79.90	1.594	0.87	0.000	0.604	0.34	1.30	0.44
37.20	79.84	1.596	79.84	1.596	0.87	0.000	0.604	0.34	1.30	0.44
37.25	79.78	1.598	79.78	1.598	0.87	0.000	0.604	0.34	1.30	0.44
37.30	79.73	1.600	79.73	1.600	0.87	0.000	0.604	0.34	1.30	0.44
37.35	79.67	1.602	79.67	1.602	0.87	0.000	0.604	0.34	1.30	0.44
37.40	79.61	1.604	79.61	1.604	0.87	0.000	0.604	0.34	1.30	0.44
37.45	79.56	1.606	79.56	1.606	0.87	0.000	0.604	0.34	1.30	0.44
37.50	79.50	1.608	79.50	1.608	0.87	0.000	0.604	0.34	1.30	0.44
37.55	79.39	1.609	79.39	1.609	0.87	0.000	0.604	0.34	1.30	0.44
37.60	79.27	1.611	79.27	1.611	0.87	0.000	0.604	0.34	1.30	0.44
37.65	79.16	1.613	79.16	1.613	0.87	0.000	0.604	0.34	1.30	0.44
37.70	79.05	1.615	79.05	1.615	0.87	0.000	0.604	0.34	1.30	0.44
37.75	78.93	1.617	78.93	1.617	0.87	0.000	0.604	0.34	1.30	0.44
37.80	78.82	1.619	78.82	1.619	0.87	0.000	0.604	0.34	1.30	0.44
37.85	78.71	1.621	78.71	1.621	0.87	0.000	0.604	0.34	1.30	0.44
37.90	78.59	1.622	78.59	1.622	0.87	0.000	0.604	0.34	1.30	0.44
37.95	78.48	1.624	78.48	1.624	0.87	0.000	0.604	0.34	1.30	0.44
38.00	78.37	1.626	78.37	1.626	0.86	0.000	0.604	0.34	1.30	0.44
38.05	78.25	1.628	78.25	1.628	0.86	0.000	0.604	0.34	1.30	0.44
38.10	78.14	1.630	78.14	1.630	0.86	0.000	0.604	0.34	1.30	0.44
38.15	78.03	1.632	78.03	1.632	0.86	0.000	0.604	0.34	1.30	0.44
38.20	77.91	1.634	77.91	1.634	0.86	0.000	0.604	0.34	1.30	0.44
38.25	77.80	1.635	77.80	1.635	0.86	0.000	0.604	0.34	1.30	0.44
38.30	77.69	1.637	77.69	1.637	0.86	0.000	0.604	0.34	1.30	0.44
38.35	77.57	1.639	77.57	1.639	0.86	0.000	0.604	0.34	1.30	0.44
38.40	77.46	1.641	77.46	1.641	0.86	0.000	0.604	0.34	1.30	0.44
38.45	77.35	1.643	77.35	1.643	0.86	0.000	0.604	0.34	1.30	0.44
38.50	77.23	1.645	77.23	1.645	0.86	0.000	0.604	0.34	1.30	0.44
38.55	77.12	1.646	77.12	1.646	0.86	0.000	0.604	0.34	1.30	0.44
38.60	77.01	1.648	77.01	1.648	0.86	0.000	0.604	0.34	1.30	0.44
38.65	76.89	1.650	76.89	1.650	0.86	0.000	0.604	0.34	1.30	0.44

38.70	76.78	1.652	76.78	1.652	0.86	0.000	0.604	0.34	1.30	0.44
38.75	76.67	1.654	76.67	1.654	0.86	0.000	0.604	0.34	1.30	0.44
38.80	76.55	1.656	76.55	1.656	0.86	0.000	0.604	0.34	1.30	0.44
38.85	76.44	1.657	76.44	1.657	0.86	0.000	0.604	0.34	1.30	0.44
38.90	76.33	1.659	76.33	1.659	0.86	0.000	0.604	0.34	1.30	0.44
38.95	76.21	1.661	76.21	1.661	0.86	0.000	0.604	0.34	1.30	0.44
39.00	76.10	1.663	76.10	1.663	0.86	0.000	0.604	0.34	1.30	0.44
39.05	76.24	1.665	76.24	1.665	0.86	0.000	0.604	0.34	1.30	0.44
39.10	76.37	1.666	76.37	1.666	0.86	0.000	0.604	0.34	1.30	0.44
39.15	76.51	1.668	76.51	1.668	0.86	0.000	0.604	0.34	1.30	0.44
39.20	76.65	1.670	76.65	1.670	0.86	0.000	0.604	0.34	1.30	0.44
39.25	76.78	1.672	76.78	1.672	0.85	0.000	0.604	0.34	1.30	0.44
39.30	76.92	1.674	76.92	1.674	0.85	0.000	0.604	0.34	1.30	0.44
39.35	77.06	1.675	77.06	1.675	0.85	0.000	0.604	0.34	1.30	0.44
39.40	77.19	1.677	77.19	1.677	0.85	0.000	0.604	0.34	1.30	0.44
39.45	77.33	1.679	77.33	1.679	0.85	0.000	0.604	0.33	1.30	0.44
39.50	77.47	1.681	77.47	1.681	0.85	0.000	0.604	0.33	1.30	0.44
39.55	77.60	1.683	77.60	1.683	0.85	0.000	0.604	0.33	1.30	0.43
39.60	77.74	1.685	77.74	1.685	0.85	0.000	0.604	0.33	1.30	0.43
39.65	77.88	1.686	77.88	1.686	0.85	0.000	0.604	0.33	1.30	0.43
39.70	78.01	1.688	78.01	1.688	0.85	0.000	0.604	0.33	1.30	0.43
39.75	78.15	1.690	78.15	1.690	0.85	0.000	0.604	0.33	1.30	0.43
39.80	78.29	1.692	78.29	1.692	0.85	0.000	0.604	0.33	1.30	0.43
39.85	78.42	1.694	78.42	1.694	0.85	0.000	0.604	0.33	1.30	0.43
39.90	78.56	1.696	78.56	1.696	0.85	0.000	0.604	0.33	1.30	0.43
39.95	78.70	1.697	78.70	1.697	0.85	0.000	0.604	0.33	1.30	0.43
40.00	78.83	1.699	78.83	1.699	0.85	0.000	0.604	0.33	1.30	0.43
40.05	78.97	1.701	78.97	1.701	0.85	0.000	0.604	0.33	1.30	0.43
40.10	79.11	1.703	79.11	1.703	0.85	0.000	0.604	0.33	1.30	0.43
40.15	79.24	1.705	79.24	1.705	0.85	0.000	0.604	0.33	1.30	0.43
40.20	79.38	1.707	79.38	1.707	0.85	0.000	0.604	0.33	1.30	0.43
40.25	79.52	1.709	79.52	1.709	0.85	0.000	0.604	0.33	1.30	0.43
40.30	79.65	1.711	79.65	1.711	0.85	0.000	0.604	0.33	1.30	0.43
40.35	79.79	1.712	79.79	1.712	0.85	0.000	0.604	0.33	1.30	0.43
40.40	79.93	1.714	79.93	1.714	0.85	0.000	0.604	0.33	1.30	0.43
40.45	80.06	1.716	80.06	1.716	0.84	0.000	0.604	0.33	1.30	0.43
40.50	80.20	1.718	80.20	1.718	0.84	0.000	0.604	0.33	1.30	0.43
40.55	80.25	1.720	80.25	1.720	0.84	0.000	0.604	0.33	1.30	0.43
40.60	80.29	1.722	80.29	1.722	0.84	0.000	0.604	0.33	1.30	0.43
40.65	80.34	1.724	80.34	1.724	0.84	0.000	0.604	0.33	1.30	0.43
40.70	80.39	1.726	80.39	1.726	0.84	0.000	0.604	0.33	1.30	0.43
40.75	80.43	1.728	80.43	1.728	0.84	0.000	0.604	0.33	1.30	0.43
40.80	80.48	1.729	80.48	1.729	0.84	0.000	0.604	0.33	1.30	0.43
40.85	80.53	1.731	80.53	1.731	0.84	0.000	0.604	0.33	1.30	0.43
40.90	80.57	1.733	80.57	1.733	0.84	0.000	0.604	0.33	1.30	0.43
40.95	80.62	1.735	80.62	1.735	0.84	0.000	0.604	0.33	1.30	0.43
41.00	80.67	1.737	80.67	1.737	0.84	0.000	0.604	0.33	1.30	0.43
41.05	80.71	1.739	80.71	1.739	0.84	0.000	0.604	0.33	1.30	0.43
41.10	80.76	1.741	80.76	1.741	0.84	0.000	0.604	0.33	1.30	0.43
41.15	80.81	1.743	80.81	1.743	0.84	0.000	0.604	0.33	1.30	0.43
41.20	80.85	1.745	80.85	1.745	0.84	0.000	0.604	0.33	1.30	0.43
41.25	80.90	1.747	80.90	1.747	0.84	0.000	0.604	0.33	1.30	0.43
41.30	80.95	1.749	80.95	1.749	0.84	0.000	0.604	0.33	1.30	0.43
41.35	80.99	1.750	80.99	1.750	0.84	0.000	0.604	0.33	1.30	0.43
41.40	81.04	1.752	81.04	1.752	0.84	0.000	0.604	0.33	1.30	0.43
41.45	81.09	1.754	81.09	1.754	0.84	0.000	0.604	0.33	1.30	0.43
41.50	81.13	1.756	81.13	1.756	0.84	0.000	0.604	0.33	1.30	0.43
41.55	81.18	1.758	81.18	1.758	0.84	0.000	0.604	0.33	1.30	0.43
41.60	81.23	1.760	81.23	1.760	0.84	0.000	0.604	0.33	1.30	0.43
41.65	81.27	1.762	81.27	1.762	0.84	0.000	0.604	0.33	1.30	0.43
41.70	81.32	1.764	81.32	1.764	0.83	0.000	0.604	0.33	1.30	0.43
41.75	81.37	1.766	81.37	1.766	0.83	0.000	0.604	0.33	1.30	0.43
41.80	81.41	1.768	81.41	1.768	0.83	0.000	0.604	0.33	1.30	0.43
41.85	81.46	1.770	81.46	1.770	0.83	0.000	0.604	0.33	1.30	0.43
41.90	81.51	1.772	81.51	1.772	0.83	0.000	0.604	0.33	1.30	0.43
41.95	81.55	1.773	81.55	1.773	0.83	0.000	0.604	0.33	1.30	0.42
42.00	81.60	1.775	81.60	1.775	0.83	0.000	0.604	0.33	1.30	0.42
42.05	81.66	1.777	81.66	1.777	0.83	0.000	0.604	0.33	1.30	0.42
42.10	81.73	1.779	81.73	1.779	0.83	0.000	0.604	0.33	1.30	0.42

42.15	81.79	1.781	81.79	1.781	0.83	0.000	0.604	0.33	1.30	0.42
42.20	81.85	1.783	81.85	1.783	0.83	0.000	0.604	0.33	1.30	0.42
42.25	81.92	1.785	81.92	1.785	0.83	0.000	0.604	0.33	1.30	0.42
42.30	81.98	1.787	81.98	1.787	0.83	0.000	0.604	0.33	1.30	0.42
42.35	82.04	1.789	82.04	1.789	0.83	0.000	0.604	0.33	1.30	0.42
42.40	82.11	1.791	82.11	1.791	0.83	0.000	0.604	0.33	1.30	0.42
42.45	82.17	1.793	82.17	1.793	0.83	0.000	0.604	0.33	1.30	0.42
42.50	82.23	1.795	82.23	1.795	0.83	0.000	0.604	0.33	1.30	0.42
42.55	82.30	1.797	82.30	1.797	0.83	0.000	0.604	0.32	1.30	0.42
42.60	82.36	1.799	82.36	1.799	0.83	0.000	0.604	0.32	1.30	0.42
42.65	82.42	1.801	82.42	1.801	0.83	0.000	0.604	0.32	1.30	0.42
42.70	82.49	1.803	82.49	1.803	0.83	0.000	0.604	0.32	1.30	0.42
42.75	82.55	1.804	82.55	1.804	0.83	0.000	0.604	0.32	1.30	0.42
42.80	82.61	1.806	82.61	1.806	0.83	0.000	0.604	0.32	1.30	0.42
42.85	82.68	1.808	82.68	1.808	0.83	0.000	0.604	0.32	1.30	0.42
42.90	82.74	1.810	82.74	1.810	0.82	0.000	0.604	0.32	1.30	0.42
42.95	82.80	1.812	82.80	1.812	0.82	0.000	0.604	0.32	1.30	0.42
43.00	82.87	1.814	82.87	1.814	0.82	0.000	0.604	0.32	1.30	0.42
43.05	82.93	1.816	82.93	1.816	0.82	0.000	0.604	0.32	1.30	0.42
43.10	82.99	1.818	82.99	1.818	0.82	0.000	0.604	0.32	1.30	0.42
43.15	83.06	1.820	83.06	1.820	0.82	0.000	0.604	0.32	1.30	0.42
43.20	83.12	1.822	83.12	1.822	0.82	0.000	0.604	0.32	1.30	0.42
43.25	83.18	1.824	83.18	1.824	0.82	0.000	0.604	0.32	1.30	0.42
43.30	83.25	1.826	83.25	1.826	0.82	0.000	0.604	0.32	1.30	0.42
43.35	83.31	1.828	83.31	1.828	0.82	0.000	0.604	0.32	1.30	0.42
43.40	83.37	1.830	83.37	1.830	0.82	0.000	0.604	0.32	1.30	0.42
43.45	83.44	1.832	83.44	1.832	0.82	0.000	0.604	0.32	1.30	0.42
43.50	83.50	1.834	83.50	1.834	0.82	0.000	0.604	0.32	1.30	0.42
43.55	83.60	1.836	83.60	1.836	0.82	0.000	0.604	0.32	1.30	0.42
43.60	83.69	1.838	83.69	1.838	0.82	0.000	0.604	0.32	1.30	0.42
43.65	83.79	1.840	83.79	1.840	0.82	0.000	0.604	0.32	1.30	0.42
43.70	83.89	1.842	83.89	1.842	0.82	0.000	0.604	0.32	1.30	0.42
43.75	83.98	1.844	83.98	1.844	0.82	0.000	0.604	0.32	1.30	0.42
43.80	84.08	1.846	84.08	1.846	0.82	0.000	0.604	0.32	1.30	0.42
43.85	84.18	1.848	84.18	1.848	0.82	0.000	0.604	0.32	1.30	0.42
43.90	84.27	1.850	84.27	1.850	0.82	0.000	0.604	0.32	1.30	0.42
43.95	84.37	1.852	84.37	1.852	0.82	0.000	0.604	0.32	1.30	0.42
44.00	84.47	1.854	84.47	1.854	0.82	0.000	0.604	0.32	1.30	0.42
44.05	84.56	1.856	84.56	1.856	0.82	0.000	0.604	0.32	1.30	0.42
44.10	84.66	1.858	84.66	1.858	0.82	0.000	0.604	0.32	1.30	0.42
44.15	84.76	1.860	84.76	1.860	0.81	0.000	0.604	0.32	1.30	0.42
44.20	84.85	1.862	84.85	1.862	0.81	0.000	0.604	0.32	1.30	0.42
44.25	84.95	1.864	84.95	1.864	0.81	0.000	0.604	0.32	1.30	0.42
44.30	85.05	1.866	85.05	1.866	0.81	0.000	0.604	0.32	1.30	0.42
44.35	85.14	1.868	85.14	1.868	0.81	0.000	0.604	0.32	1.30	0.41
44.40	85.24	1.870	85.24	1.870	0.81	0.000	0.604	0.32	1.30	0.41
44.45	85.34	1.872	85.34	1.872	0.81	0.000	0.604	0.32	1.30	0.41
44.50	85.43	1.874	85.43	1.874	0.81	0.000	0.604	0.32	1.30	0.41
44.55	85.53	1.876	85.53	1.876	0.81	0.000	0.604	0.32	1.30	0.41
44.60	85.63	1.878	85.63	1.878	0.81	0.000	0.604	0.32	1.30	0.41
44.65	85.72	1.880	85.72	1.880	0.81	0.000	0.604	0.32	1.30	0.41
44.70	85.82	1.882	85.82	1.882	0.81	0.000	0.604	0.32	1.30	0.41
44.75	85.92	1.884	85.92	1.884	0.81	0.000	0.604	0.32	1.30	0.41
44.80	86.01	1.886	86.01	1.886	0.81	0.000	0.604	0.32	1.30	0.41
44.85	86.11	1.888	86.11	1.888	0.81	0.000	0.604	0.32	1.30	0.41
44.90	86.21	1.890	86.21	1.890	0.81	0.000	0.604	0.32	1.30	0.41
44.95	86.30	1.892	86.30	1.892	0.81	0.000	0.604	0.32	1.30	0.41
45.00	86.40	1.894	86.40	1.894	0.81	0.000	0.604	0.32	1.30	0.41
45.05	86.36	1.896	86.36	1.896	0.81	0.000	0.604	0.32	1.30	0.41
45.10	86.31	1.898	86.31	1.898	0.81	0.000	0.604	0.32	1.30	0.41
45.15	86.27	1.900	86.27	1.900	0.81	0.000	0.604	0.32	1.30	0.41
45.20	86.23	1.902	86.23	1.902	0.81	0.000	0.604	0.32	1.30	0.41
45.25	86.18	1.904	86.18	1.904	0.81	0.000	0.604	0.32	1.30	0.41
45.30	86.14	1.906	86.14	1.906	0.81	0.000	0.604	0.32	1.30	0.41
45.35	86.10	1.908	86.10	1.908	0.80	0.000	0.604	0.32	1.30	0.41
45.40	86.05	1.910	86.05	1.910	0.80	0.000	0.604	0.32	1.30	0.41
45.45	86.01	1.912	86.01	1.912	0.80	0.000	0.604	0.32	1.30	0.41
45.50	85.97	1.914	85.97	1.914	0.80	0.000	0.604	0.32	1.30	0.41
45.55	85.92	1.916	85.92	1.916	0.80	0.000	0.604	0.32	1.30	0.41

45.60	85.88	1.918	85.88	1.918	0.80	0.000	0.604	0.32	1.30	0.41
45.65	85.84	1.921	85.84	1.921	0.80	0.000	0.604	0.32	1.30	0.41
45.70	85.79	1.923	85.79	1.923	0.80	0.000	0.604	0.31	1.30	0.41
45.75	85.75	1.925	85.75	1.925	0.80	0.000	0.604	0.31	1.30	0.41
45.80	85.71	1.927	85.71	1.927	0.80	0.000	0.604	0.31	1.30	0.41
45.85	85.66	1.929	85.66	1.929	0.80	0.000	0.604	0.31	1.30	0.41
45.90	85.62	1.931	85.62	1.931	0.80	0.000	0.604	0.31	1.30	0.41
45.95	85.58	1.933	85.58	1.933	0.80	0.000	0.604	0.31	1.30	0.41
46.00	85.53	1.935	85.53	1.935	0.80	0.000	0.604	0.31	1.30	0.41
46.05	85.49	1.937	85.49	1.937	0.80	0.000	0.604	0.31	1.30	0.41
46.10	85.45	1.939	85.45	1.939	0.80	0.000	0.604	0.31	1.30	0.41
46.15	85.40	1.941	85.40	1.941	0.80	0.000	0.604	0.31	1.30	0.41
46.20	85.36	1.943	85.36	1.943	0.80	0.000	0.604	0.31	1.30	0.41
46.25	85.32	1.945	85.32	1.945	0.80	0.000	0.604	0.31	1.30	0.41
46.30	85.27	1.947	85.27	1.947	0.80	0.000	0.604	0.31	1.30	0.41
46.35	85.23	1.949	85.23	1.949	0.80	0.000	0.604	0.31	1.30	0.41
46.40	85.19	1.951	85.19	1.951	0.80	0.000	0.604	0.31	1.30	0.41
46.45	85.14	1.953	85.14	1.953	0.80	0.000	0.604	0.31	1.30	0.41
46.50	85.10	1.955	85.10	1.955	0.80	0.000	0.604	0.31	1.30	0.41
46.55	85.30	1.957	85.30	1.957	0.80	0.000	0.604	0.31	1.30	0.41
46.60	85.50	1.959	85.50	1.959	0.79	0.000	0.604	0.31	1.30	0.41
46.65	85.70	1.961	85.70	1.961	0.79	0.000	0.604	0.31	1.30	0.41
46.70	85.90	1.963	85.90	1.963	0.79	0.000	0.604	0.31	1.30	0.41
46.75	86.10	1.965	86.10	1.965	0.79	0.000	0.604	0.31	1.30	0.41
46.80	86.30	1.967	86.30	1.967	0.79	0.000	0.604	0.31	1.30	0.40
46.85	86.50	1.969	86.50	1.969	0.79	0.000	0.604	0.31	1.30	0.40
46.90	86.70	1.971	86.70	1.971	0.79	0.000	0.604	0.31	1.30	0.40
46.95	86.90	1.973	86.90	1.973	0.79	0.000	0.604	0.31	1.30	0.40
47.00	87.10	1.975	87.10	1.975	0.79	0.000	0.604	0.31	1.30	0.40
47.05	87.30	1.977	87.30	1.977	0.79	0.000	0.604	0.31	1.30	0.40
47.10	87.50	1.979	87.50	1.979	0.79	0.000	0.604	0.31	1.30	0.40
47.15	87.70	1.981	87.70	1.981	0.79	0.000	0.604	0.31	1.30	0.40
47.20	87.90	1.983	87.90	1.983	0.79	0.000	0.604	0.31	1.30	0.40
47.25	88.10	1.986	88.10	1.986	0.79	0.000	0.604	0.31	1.30	0.40
47.30	88.30	1.988	88.30	1.988	0.79	0.000	0.604	0.31	1.30	0.40
47.35	88.50	1.990	88.50	1.990	0.79	0.000	0.604	0.31	1.30	0.40
47.40	88.70	1.992	88.70	1.992	0.79	0.000	0.604	0.31	1.30	0.40
47.45	88.90	1.994	88.90	1.994	0.79	0.000	0.604	0.31	1.30	0.40
47.50	89.10	1.996	89.10	1.996	0.79	0.000	0.604	0.31	1.30	0.40
47.55	89.30	1.998	89.30	1.998	0.79	0.000	0.604	0.31	1.30	0.40
47.60	89.50	2.000	89.50	2.000	0.79	0.000	0.604	0.31	1.30	0.40
47.65	89.70	2.002	89.70	2.002	0.79	0.000	0.604	0.31	1.30	0.40
47.70	89.90	2.004	89.90	2.004	0.79	0.000	0.604	0.31	1.30	0.40
47.75	90.10	2.007	90.10	2.007	0.79	0.000	0.604	0.31	1.30	0.40
47.80	90.30	2.009	90.30	2.009	0.79	0.000	0.604	0.31	1.30	0.40
47.85	90.50	2.011	90.50	2.011	0.78	0.000	0.604	0.31	1.30	0.40
47.90	90.70	2.013	90.70	2.013	0.78	0.000	0.604	0.31	1.30	0.40
47.95	90.90	2.015	90.90	2.015	0.78	0.000	0.604	0.31	1.30	0.40
48.00	91.10	2.017	91.10	2.017	0.78	0.000	0.604	0.31	1.30	0.40
48.05	91.27	2.019	91.27	2.019	0.78	0.000	0.604	0.31	1.30	0.40
48.10	91.43	2.022	91.43	2.022	0.78	0.000	0.604	0.31	1.30	0.40
48.15	91.60	2.024	91.60	2.024	0.78	0.000	0.604	0.31	1.30	0.40
48.20	91.77	2.026	91.77	2.026	0.78	0.000	0.604	0.31	1.30	0.40
48.25	91.93	2.028	91.93	2.028	0.78	0.000	0.604	0.31	1.30	0.40
48.30	92.10	2.030	92.10	2.030	0.78	0.000	0.604	0.31	1.30	0.40
48.35	92.27	2.032	92.27	2.032	0.78	0.000	0.604	0.31	1.30	0.40
48.40	92.43	2.035	92.43	2.035	0.78	0.000	0.604	0.31	1.30	0.40
48.45	92.60	2.037	92.60	2.037	0.78	0.000	0.604	0.31	1.30	0.40
48.50	92.77	2.039	92.77	2.039	0.78	0.000	0.604	0.31	1.30	0.40
48.55	92.93	2.041	92.93	2.041	0.78	0.000	0.604	0.31	1.30	0.40
48.60	93.10	2.043	93.10	2.043	0.78	0.000	0.604	0.31	1.30	0.40
48.65	93.27	2.046	93.27	2.046	0.78	0.000	0.604	0.31	1.30	0.40
48.70	93.43	2.048	93.43	2.048	0.78	0.000	0.604	0.31	1.30	0.40
48.75	93.60	2.050	93.60	2.050	0.78	0.000	0.604	0.31	1.30	0.40
48.80	93.77	2.052	93.77	2.052	0.78	0.000	0.604	0.31	1.30	0.40
48.85	93.93	2.054	93.93	2.054	0.78	0.000	0.604	0.30	1.30	0.40
48.90	94.10	2.057	94.10	2.057	0.78	0.000	0.604	0.30	1.30	0.40
48.95	94.27	2.059	94.27	2.059	0.78	0.000	0.604	0.30	1.30	0.40
49.00	94.43	2.061	94.43	2.061	0.78	0.000	0.604	0.30	1.30	0.40

49.05	94.60	2.063	94.60	2.063	0.77	0.000	0.604	0.30	1.30	0.40
49.10	94.77	2.066	94.77	2.066	0.77	0.000	0.604	0.30	1.30	0.40
49.15	94.93	2.068	94.93	2.068	0.77	0.000	0.604	0.30	1.30	0.40
49.20	95.10	2.070	95.10	2.070	0.77	0.000	0.604	0.30	1.30	0.39
49.25	95.27	2.072	95.27	2.072	0.77	0.000	0.604	0.30	1.30	0.39
49.30	95.43	2.074	95.43	2.074	0.77	0.000	0.604	0.30	1.30	0.39
49.35	95.60	2.077	95.60	2.077	0.77	0.000	0.604	0.30	1.30	0.39
49.40	95.77	2.079	95.77	2.079	0.77	0.000	0.604	0.30	1.30	0.39
49.45	95.93	2.081	95.93	2.081	0.77	0.000	0.604	0.30	1.30	0.39
49.50	96.10	2.084	96.10	2.084	0.77	0.000	0.604	0.30	1.30	0.39
49.55	96.10	2.086	96.10	2.086	0.77	0.000	0.604	0.30	1.30	0.39
49.60	96.10	2.088	96.10	2.088	0.77	0.000	0.604	0.30	1.30	0.39
49.65	96.10	2.090	96.10	2.090	0.77	0.000	0.604	0.30	1.30	0.39
49.70	96.10	2.093	96.10	2.093	0.77	0.000	0.604	0.30	1.30	0.39
49.75	96.10	2.095	96.10	2.095	0.77	0.000	0.604	0.30	1.30	0.39
49.80	96.10	2.097	96.10	2.097	0.77	0.000	0.604	0.30	1.30	0.39
49.85	96.10	2.099	96.10	2.099	0.77	0.000	0.604	0.30	1.30	0.39
49.90	96.10	2.102	96.10	2.102	0.77	0.000	0.604	0.30	1.30	0.39
49.95	96.10	2.104	96.10	2.104	0.77	0.000	0.604	0.30	1.30	0.39
50.00	96.10	2.106	96.10	2.106	0.77	0.000	0.604	0.30	1.30	0.39

CSR is based on water table at 100.00 during earthquake

CRR Calculation from SPT or BPT data:										
Depth ft	SPT	Cebs	Cr	sigma' atm	Cn	(N1)60	Fines %	d(N1)60	(N1)60f	CRR7.5
1.50	14.00	1.73	0.75	0.057	1.70	30.79	NoLiq	7.20	37.99	0.50
1.55	14.13	1.73	0.75	0.059	1.70	31.08	NoLiq	7.20	38.28	0.50
1.60	14.27	1.73	0.75	0.061	1.70	31.38	NoLiq	7.20	38.58	0.50
1.65	14.40	1.73	0.75	0.063	1.70	31.67	NoLiq	7.20	38.87	0.50
1.70	14.53	1.73	0.75	0.065	1.70	31.96	NoLiq	7.20	39.16	0.50
1.75	14.67	1.73	0.75	0.066	1.70	32.26	NoLiq	7.20	39.46	0.50
1.80	14.80	1.73	0.75	0.068	1.70	32.55	NoLiq	7.20	39.75	0.50
1.85	14.93	1.73	0.75	0.070	1.70	32.84	NoLiq	7.20	40.04	0.50
1.90	15.07	1.73	0.75	0.072	1.70	33.14	NoLiq	7.20	40.34	0.50
1.95	15.20	1.73	0.75	0.074	1.70	33.43	NoLiq	7.20	40.63	0.50
2.00	15.33	1.73	0.75	0.076	1.70	33.72	NoLiq	7.20	40.92	0.50
2.05	15.47	1.73	0.75	0.078	1.70	34.02	NoLiq	7.20	41.22	0.50
2.10	15.60	1.73	0.75	0.080	1.70	34.31	NoLiq	7.20	41.51	0.50
2.15	15.73	1.73	0.75	0.082	1.70	34.60	NoLiq	7.20	41.80	0.50
2.20	15.87	1.73	0.75	0.084	1.70	34.90	NoLiq	7.20	42.10	0.50
2.25	16.00	1.73	0.75	0.085	1.70	35.19	NoLiq	7.20	42.39	0.50
2.30	16.13	1.73	0.75	0.087	1.70	35.48	NoLiq	7.20	42.68	0.50
2.35	16.27	1.73	0.75	0.089	1.70	35.78	NoLiq	7.20	42.98	0.50
2.40	16.40	1.73	0.75	0.091	1.70	36.07	NoLiq	7.20	43.27	0.50
2.45	16.53	1.73	0.75	0.093	1.70	36.36	NoLiq	7.20	43.56	0.50
2.50	16.67	1.73	0.75	0.095	1.70	36.66	NoLiq	7.20	43.86	0.50
2.55	16.80	1.73	0.75	0.097	1.70	36.95	NoLiq	7.20	44.15	0.50
2.60	16.93	1.73	0.75	0.099	1.70	37.24	NoLiq	7.20	44.44	0.50
2.65	17.07	1.73	0.75	0.101	1.70	37.54	NoLiq	7.20	44.74	0.50
2.70	17.20	1.73	0.75	0.103	1.70	37.83	NoLiq	7.20	45.03	0.50
2.75	17.33	1.73	0.75	0.105	1.70	38.12	NoLiq	7.20	45.32	0.50
2.80	17.47	1.73	0.75	0.107	1.70	38.42	NoLiq	7.20	45.62	0.50
2.85	17.60	1.73	0.75	0.109	1.70	38.71	NoLiq	7.20	45.91	0.50
2.90	17.73	1.73	0.75	0.110	1.70	39.00	NoLiq	7.20	46.20	0.50
2.95	17.87	1.73	0.75	0.112	1.70	39.30	NoLiq	7.20	46.50	0.50
3.00	18.00	1.73	0.75	0.114	1.70	39.59	NoLiq	7.20	46.79	0.50
3.05	17.97	1.73	0.75	0.116	1.70	39.52	NoLiq	7.20	46.72	0.50
3.10	17.93	1.73	0.75	0.118	1.70	39.44	NoLiq	7.20	46.64	0.50
3.15	17.90	1.73	0.75	0.120	1.70	39.37	NoLiq	7.20	46.57	0.50
3.20	17.87	1.73	0.75	0.122	1.70	39.30	NoLiq	7.20	46.50	0.50
3.25	17.83	1.73	0.75	0.124	1.70	39.22	NoLiq	7.20	46.42	0.50
3.30	17.80	1.73	0.75	0.126	1.70	39.15	NoLiq	7.20	46.35	0.50
3.35	17.77	1.73	0.75	0.128	1.70	39.08	NoLiq	7.20	46.28	0.50
3.40	17.73	1.73	0.75	0.130	1.70	39.00	NoLiq	7.20	46.20	0.50
3.45	17.70	1.73	0.75	0.132	1.70	38.93	NoLiq	7.20	46.13	0.50
3.50	17.67	1.73	0.75	0.134	1.70	38.86	NoLiq	7.20	46.06	0.50
3.55	17.63	1.73	0.75	0.136	1.70	38.78	NoLiq	7.20	45.98	0.50

3.60	17.60	1.73	0.75	0.138	1.70	38.71	NoLiq	7.20	45.91	0.50
3.65	17.57	1.73	0.75	0.140	1.70	38.64	NoLiq	7.20	45.84	0.50
3.70	17.53	1.73	0.75	0.142	1.70	38.56	NoLiq	7.20	45.76	0.50
3.75	17.50	1.73	0.75	0.144	1.70	38.49	NoLiq	7.20	45.69	0.50
3.80	17.47	1.73	0.75	0.146	1.70	38.42	NoLiq	7.20	45.62	0.50
3.85	17.43	1.73	0.75	0.148	1.70	38.34	NoLiq	7.20	45.54	0.50
3.90	17.40	1.73	0.75	0.150	1.70	38.27	NoLiq	7.20	45.47	0.50
3.95	17.37	1.73	0.75	0.152	1.70	38.20	NoLiq	7.20	45.40	0.50
4.00	17.33	1.73	0.75	0.154	1.70	38.12	NoLiq	7.20	45.32	0.50
4.05	17.30	1.73	0.75	0.157	1.70	38.05	NoLiq	7.20	45.25	0.50
4.10	17.27	1.73	0.75	0.159	1.70	37.98	NoLiq	7.20	45.18	0.50
4.15	17.23	1.73	0.75	0.161	1.70	37.90	NoLiq	7.20	45.10	0.50
4.20	17.20	1.73	0.75	0.163	1.70	37.83	NoLiq	7.20	45.03	0.50
4.25	17.17	1.73	0.75	0.165	1.70	37.76	NoLiq	7.20	44.96	0.50
4.30	17.13	1.73	0.75	0.167	1.70	37.68	NoLiq	7.20	44.88	0.50
4.35	17.10	1.73	0.75	0.169	1.70	37.61	NoLiq	7.20	44.81	0.50
4.40	17.07	1.73	0.75	0.171	1.70	37.54	NoLiq	7.20	44.74	0.50
4.45	17.03	1.73	0.75	0.174	1.70	37.46	NoLiq	7.20	44.66	0.50
4.50	17.00	1.73	0.75	0.176	1.70	37.39	NoLiq	7.20	44.59	0.50
4.55	17.17	1.73	0.75	0.178	1.70	37.76	47.77	7.20	44.96	0.50
4.60	17.33	1.73	0.75	0.180	1.70	38.12	46.53	7.20	45.32	0.50
4.65	17.50	1.73	0.75	0.182	1.70	38.49	45.30	7.20	45.69	0.50
4.70	17.67	1.73	0.75	0.185	1.70	38.86	44.07	7.20	46.06	0.50
4.75	17.83	1.73	0.75	0.187	1.70	39.22	42.83	7.20	46.42	0.50
4.80	18.00	1.73	0.75	0.189	1.70	39.59	41.60	7.20	46.79	0.50
4.85	18.17	1.73	0.75	0.191	1.70	39.96	40.37	7.20	47.16	0.50
4.90	18.33	1.73	0.75	0.194	1.70	40.32	39.13	7.20	47.52	0.50
4.95	18.50	1.73	0.75	0.196	1.70	40.69	37.90	7.20	47.89	0.50
5.00	18.67	1.73	0.75	0.198	1.70	41.06	36.67	7.20	48.26	0.50
5.05	18.83	1.73	0.75	0.201	1.70	41.42	35.43	7.20	48.62	0.50
5.10	19.00	1.73	0.75	0.203	1.70	41.79	34.20	7.01	48.80	0.50
5.15	19.17	1.73	0.75	0.205	1.70	42.15	32.97	6.71	48.87	0.50
5.20	19.33	1.73	0.75	0.208	1.70	42.52	31.73	6.42	48.94	0.50
5.25	19.50	1.73	0.75	0.210	1.70	42.89	30.50	6.12	49.01	0.50
5.30	19.67	1.73	0.75	0.212	1.70	43.25	29.27	5.82	49.08	0.50
5.35	19.83	1.73	0.75	0.215	1.70	43.62	28.03	5.53	49.15	0.50
5.40	20.00	1.73	0.75	0.217	1.70	43.99	26.80	5.23	49.22	0.50
5.45	20.17	1.73	0.75	0.220	1.70	44.35	25.57	4.94	49.29	0.50
5.50	20.33	1.73	0.75	0.222	1.70	44.72	24.33	4.64	49.36	0.50
5.55	20.50	1.73	0.75	0.225	1.70	45.09	23.10	4.34	49.43	0.50
5.60	20.67	1.73	0.75	0.227	1.70	45.45	21.87	4.05	49.50	0.50
5.65	20.83	1.73	0.75	0.230	1.70	45.82	20.63	3.75	49.57	0.50
5.70	21.00	1.73	0.75	0.232	1.70	46.19	19.40	3.46	49.64	0.50
5.75	21.17	1.73	0.75	0.235	1.70	46.55	18.17	3.16	49.71	0.50
5.80	21.33	1.73	0.75	0.237	1.70	46.92	16.93	2.86	49.78	0.50
5.85	21.50	1.73	0.75	0.240	1.70	47.29	15.70	2.57	49.85	0.50
5.90	21.67	1.73	0.75	0.242	1.70	47.65	14.47	2.27	49.93	0.50
5.95	21.83	1.73	0.75	0.245	1.70	48.02	13.23	1.98	50.00	0.50
6.00	22.00	1.73	0.75	0.247	1.70	48.39	12.00	1.68	50.07	0.50
6.05	21.93	1.73	0.75	0.250	1.70	48.24	12.17	1.72	49.96	0.50
6.10	21.87	1.73	0.75	0.253	1.70	48.09	12.33	1.76	49.85	0.50
6.15	21.80	1.73	0.75	0.255	1.70	47.95	12.50	1.80	49.75	0.50
6.20	21.73	1.73	0.75	0.258	1.70	47.80	12.67	1.84	49.64	0.50
6.25	21.67	1.73	0.75	0.260	1.70	47.65	12.83	1.88	49.53	0.50
6.30	21.60	1.73	0.75	0.263	1.70	47.51	13.00	1.92	49.43	0.50
6.35	21.53	1.73	0.75	0.266	1.70	47.36	13.17	1.96	49.32	0.50
6.40	21.47	1.73	0.75	0.268	1.70	47.21	13.33	2.00	49.21	0.50
6.45	21.40	1.73	0.75	0.271	1.70	47.07	13.50	2.04	49.11	0.50
6.50	21.33	1.73	0.75	0.274	1.70	46.92	13.67	2.08	49.00	0.50
6.55	21.27	1.73	0.75	0.276	1.70	46.77	13.83	2.12	48.89	0.50
6.60	21.20	1.73	0.75	0.279	1.70	46.63	14.00	2.16	48.79	0.50
6.65	21.13	1.73	0.75	0.281	1.70	46.48	14.17	2.20	48.68	0.50
6.70	21.07	1.73	0.75	0.284	1.70	46.33	14.33	2.24	48.57	0.50
6.75	21.00	1.73	0.75	0.287	1.70	46.19	14.50	2.28	48.47	0.50
6.80	20.93	1.73	0.75	0.289	1.70	46.04	14.67	2.32	48.36	0.50
6.85	20.87	1.73	0.75	0.292	1.70	45.89	14.83	2.36	48.25	0.50
6.90	20.80	1.73	0.75	0.294	1.70	45.75	15.00	2.40	48.15	0.50
6.95	20.73	1.73	0.75	0.297	1.70	45.60	15.17	2.44	48.04	0.50
7.00	20.67	1.73	0.75	0.300	1.70	45.45	15.33	2.48	47.93	0.50

7.05	20.60	1.73	0.75	0.302	1.70	45.31	15.50	2.52	47.83	0.50
7.10	20.53	1.73	0.75	0.305	1.70	45.16	15.67	2.56	47.72	0.50
7.15	20.47	1.73	0.75	0.307	1.70	45.01	15.83	2.60	47.61	0.50
7.20	20.40	1.73	0.75	0.310	1.70	44.87	16.00	2.64	47.51	0.50
7.25	20.33	1.73	0.75	0.313	1.70	44.72	16.17	2.68	47.40	0.50
7.30	20.27	1.73	0.75	0.315	1.70	44.57	16.33	2.72	47.29	0.50
7.35	20.20	1.73	0.75	0.318	1.70	44.43	16.50	2.76	47.19	0.50
7.40	20.13	1.73	0.75	0.320	1.70	44.28	16.67	2.80	47.08	0.50
7.45	20.07	1.73	0.75	0.323	1.70	44.13	16.83	2.84	46.97	0.50
7.50	20.00	1.73	0.75	0.325	1.70	43.99	17.00	2.88	46.87	0.50
7.55	20.00	1.73	0.75	0.328	1.70	43.99	17.63	3.03	47.02	0.50
7.60	20.00	1.73	0.75	0.331	1.70	43.99	18.27	3.18	47.17	0.50
7.65	20.00	1.73	0.75	0.333	1.70	43.99	18.90	3.34	47.32	0.50
7.70	20.00	1.73	0.75	0.336	1.70	43.99	19.53	3.49	47.48	0.50
7.75	20.00	1.73	0.75	0.338	1.70	43.99	20.17	3.64	47.63	0.50
7.80	20.00	1.73	0.75	0.341	1.70	43.99	20.80	3.79	47.78	0.50
7.85	20.00	1.73	0.75	0.343	1.70	43.99	21.43	3.94	47.93	0.50
7.90	20.00	1.73	0.75	0.346	1.70	43.99	22.07	4.10	48.08	0.50
7.95	20.00	1.73	0.75	0.348	1.69	43.84	22.70	4.25	48.08	0.50
8.00	20.00	1.73	0.75	0.351	1.69	43.68	23.33	4.40	48.08	0.50
8.05	20.00	1.73	0.75	0.353	1.68	43.53	23.97	4.55	48.08	0.50
8.10	20.00	1.73	0.75	0.356	1.68	43.37	24.60	4.70	48.08	0.50
8.15	20.00	1.73	0.75	0.358	1.67	43.23	25.23	4.86	48.08	0.50
8.20	20.00	1.73	0.75	0.361	1.66	43.08	25.87	5.01	48.09	0.50
8.25	20.00	1.73	0.85	0.363	1.66	48.66	26.50	5.16	53.82	0.50
8.30	20.00	1.73	0.85	0.366	1.65	48.50	27.13	5.31	53.81	0.50
8.35	20.00	1.73	0.85	0.368	1.65	48.34	27.77	5.46	53.80	0.50
8.40	20.00	1.73	0.85	0.370	1.64	48.18	28.40	5.62	53.80	0.50
8.45	20.00	1.73	0.85	0.373	1.64	48.02	29.03	5.77	53.79	0.50
8.50	20.00	1.73	0.85	0.375	1.63	47.87	29.67	5.92	53.79	0.50
8.55	20.00	1.73	0.85	0.378	1.63	47.72	30.30	6.07	53.79	0.50
8.60	20.00	1.73	0.85	0.380	1.62	47.57	30.93	6.22	53.80	0.50
8.65	20.00	1.73	0.85	0.382	1.62	47.43	31.57	6.38	53.80	0.50
8.70	20.00	1.73	0.85	0.385	1.61	47.28	32.20	6.53	53.81	0.50
8.75	20.00	1.73	0.85	0.387	1.61	47.14	32.83	6.68	53.82	0.50
8.80	20.00	1.73	0.85	0.389	1.60	47.00	33.47	6.83	53.83	0.50
8.85	20.00	1.73	0.85	0.392	1.60	46.86	34.10	6.98	53.85	0.50
8.90	20.00	1.73	0.85	0.394	1.59	46.72	34.73	7.14	53.86	0.50
8.95	20.00	1.73	0.85	0.396	1.59	46.59	35.37	7.20	53.79	0.50
9.00	20.00	1.73	0.85	0.398	1.58	46.46	36.00	7.20	53.66	0.50
9.05	20.00	1.73	0.85	0.401	1.58	46.33	36.00	7.20	53.53	0.50
9.10	20.00	1.73	0.85	0.403	1.58	46.19	36.00	7.20	53.39	0.50
9.15	20.00	1.73	0.85	0.405	1.57	46.06	36.00	7.20	53.26	0.50
9.20	20.00	1.73	0.85	0.408	1.57	45.93	36.00	7.20	53.13	0.50
9.25	20.00	1.73	0.85	0.410	1.56	45.81	36.00	7.20	53.01	0.50
9.30	20.00	1.73	0.85	0.412	1.56	45.68	36.00	7.20	52.88	0.50
9.35	20.00	1.73	0.85	0.414	1.55	45.55	36.00	7.20	52.75	0.50
9.40	20.00	1.73	0.85	0.417	1.55	45.42	36.00	7.20	52.62	0.50
9.45	20.00	1.73	0.85	0.419	1.54	45.29	36.00	7.20	52.49	0.50
9.50	20.00	1.73	0.85	0.422	1.54	45.17	36.00	7.20	52.37	0.50
9.55	20.00	1.73	0.85	0.424	1.54	45.04	36.00	7.20	52.24	0.50
9.60	20.00	1.73	0.85	0.426	1.53	44.92	36.00	7.20	52.12	0.50
9.65	20.00	1.73	0.85	0.429	1.53	44.79	36.00	7.20	51.99	0.50
9.70	20.00	1.73	0.85	0.431	1.52	44.67	36.00	7.20	51.87	0.50
9.75	20.00	1.73	0.85	0.433	1.52	44.54	36.00	7.20	51.74	0.50
9.80	20.00	1.73	0.85	0.436	1.51	44.42	36.00	7.20	51.62	0.50
9.85	20.00	1.73	0.85	0.438	1.51	44.30	36.00	7.20	51.50	0.50
9.90	20.00	1.73	0.85	0.441	1.51	44.17	36.00	7.20	51.37	0.50
9.95	20.00	1.73	0.85	0.443	1.50	44.05	36.00	7.20	51.25	0.50
10.00	20.00	1.73	0.85	0.446	1.50	43.93	36.00	7.20	51.13	0.50
10.05	20.00	1.73	0.85	0.448	1.49	43.81	36.00	7.20	51.01	0.50
10.10	20.00	1.73	0.85	0.451	1.49	43.69	36.00	7.20	50.89	0.50
10.15	20.00	1.73	0.85	0.453	1.49	43.57	36.00	7.20	50.77	0.50
10.20	20.00	1.73	0.85	0.456	1.48	43.45	36.00	7.20	50.65	0.50
10.25	20.00	1.73	0.85	0.458	1.48	43.33	36.00	7.20	50.53	0.50
10.30	20.00	1.73	0.85	0.461	1.47	43.21	36.00	7.20	50.41	0.50
10.35	20.00	1.73	0.85	0.463	1.47	43.09	36.00	7.20	50.29	0.50
10.40	20.00	1.73	0.85	0.466	1.47	42.98	36.00	7.20	50.18	0.50
10.45	20.00	1.73	0.85	0.468	1.46	42.86	36.00	7.20	50.06	0.50

10.50	20.00	1.73	0.85	0.471	1.46	42.74	36.00	7.20	49.94	0.50
10.55	20.40	1.73	0.85	0.473	1.45	43.48	34.93	7.18	50.67	0.50
10.60	20.80	1.73	0.85	0.476	1.45	44.21	33.87	6.93	51.14	0.50
10.65	21.20	1.73	0.85	0.478	1.45	44.94	32.80	6.67	51.62	0.50
10.70	21.60	1.73	0.85	0.481	1.44	45.67	31.73	6.42	52.08	0.50
10.75	22.00	1.73	0.85	0.484	1.44	46.39	30.67	6.16	52.55	0.50
10.80	22.40	1.73	0.85	0.486	1.43	47.11	29.60	5.90	53.01	0.50
10.85	22.80	1.73	0.85	0.489	1.43	47.82	28.53	5.65	53.47	0.50
10.90	23.20	1.73	0.85	0.491	1.43	48.53	27.47	5.39	53.93	0.50
10.95	23.60	1.73	0.85	0.494	1.42	49.24	26.40	5.14	54.38	0.50
11.00	24.00	1.73	0.85	0.496	1.42	49.95	25.33	4.88	54.83	0.50
11.05	24.40	1.73	0.85	0.499	1.42	50.65	24.27	4.62	55.27	0.50
11.10	24.80	1.73	0.85	0.502	1.41	51.34	23.20	4.37	55.71	0.50
11.15	25.20	1.73	0.85	0.504	1.41	52.04	22.13	4.11	56.15	0.50
11.20	25.60	1.73	0.85	0.507	1.40	52.73	21.07	3.86	56.58	0.50
11.25	26.00	1.73	0.85	0.509	1.40	53.42	20.00	3.60	57.02	0.50
11.30	26.40	1.73	0.85	0.512	1.40	54.10	18.93	3.34	57.44	0.50
11.35	26.80	1.73	0.85	0.515	1.39	54.78	17.87	3.09	57.87	0.50
11.40	27.20	1.73	0.85	0.517	1.39	55.46	16.80	2.83	58.29	0.50
11.45	27.60	1.73	0.85	0.520	1.39	56.13	15.73	2.58	58.71	0.50
11.50	28.00	1.73	0.85	0.522	1.38	56.80	14.67	2.32	59.12	0.50
11.55	28.40	1.73	0.85	0.525	1.38	57.47	13.60	2.06	59.53	0.50
11.60	28.80	1.73	0.85	0.528	1.38	58.14	12.53	1.81	59.94	0.50
11.65	29.20	1.73	0.85	0.530	1.37	58.80	11.47	1.55	60.35	0.50
11.70	29.60	1.73	0.85	0.533	1.37	59.46	10.40	1.30	60.75	0.50
11.75	30.00	1.73	0.85	0.535	1.37	60.11	9.33	1.04	61.15	0.50
11.80	30.40	1.73	0.85	0.538	1.36	60.77	8.27	0.78	61.55	0.50
11.85	30.80	1.73	0.85	0.541	1.36	61.42	7.20	0.53	61.94	0.50
11.90	31.20	1.73	0.85	0.543	1.36	62.06	6.13	0.27	62.33	0.50
11.95	31.60	1.73	0.85	0.546	1.35	62.71	5.07	0.02	62.72	0.50
12.00	32.00	1.73	0.85	0.549	1.35	63.35	4.00	0.00	63.35	0.50
12.05	32.10	1.73	0.85	0.551	1.35	63.39	4.00	0.00	63.39	0.50
12.10	32.20	1.73	0.85	0.554	1.34	63.44	4.00	0.00	63.44	0.50
12.15	32.30	1.73	0.85	0.557	1.34	63.49	4.00	0.00	63.49	0.50
12.20	32.40	1.73	0.85	0.559	1.34	63.53	4.00	0.00	63.53	0.50
12.25	32.50	1.73	0.85	0.562	1.33	63.58	4.00	0.00	63.58	0.50
12.30	32.60	1.73	0.85	0.564	1.33	63.62	4.00	0.00	63.62	0.50
12.35	32.70	1.73	0.85	0.567	1.33	63.67	4.00	0.00	63.67	0.50
12.40	32.80	1.73	0.85	0.570	1.32	63.72	4.00	0.00	63.72	0.50
12.45	32.90	1.73	0.85	0.572	1.32	63.76	4.00	0.00	63.76	0.50
12.50	33.00	1.73	0.85	0.575	1.32	63.81	4.00	0.00	63.81	0.50
12.55	33.10	1.73	0.85	0.578	1.32	63.86	4.00	0.00	63.86	0.50
12.60	33.20	1.73	0.85	0.580	1.31	63.91	4.00	0.00	63.91	0.50
12.65	33.30	1.73	0.85	0.583	1.31	63.95	4.00	0.00	63.95	0.50
12.70	33.40	1.73	0.85	0.586	1.31	64.00	4.00	0.00	64.00	0.50
12.75	33.50	1.73	0.85	0.588	1.30	64.05	4.00	0.00	64.05	0.50
12.80	33.60	1.73	0.85	0.591	1.30	64.09	4.00	0.00	64.09	0.50
12.85	33.70	1.73	0.85	0.593	1.30	64.14	4.00	0.00	64.14	0.50
12.90	33.80	1.73	0.85	0.596	1.30	64.19	4.00	0.00	64.19	0.50
12.95	33.90	1.73	0.85	0.599	1.29	64.24	4.00	0.00	64.24	0.50
13.00	34.00	1.73	0.85	0.601	1.29	64.28	4.00	0.00	64.28	0.50
13.05	34.10	1.73	0.85	0.604	1.29	64.33	4.00	0.00	64.33	0.50
13.10	34.20	1.73	0.85	0.607	1.28	64.38	4.00	0.00	64.38	0.50
13.15	34.30	1.73	0.85	0.609	1.28	64.43	4.00	0.00	64.43	0.50
13.20	34.40	1.73	0.85	0.612	1.28	64.48	4.00	0.00	64.48	0.50
13.25	34.50	1.73	0.85	0.615	1.28	64.52	4.00	0.00	64.52	0.50
13.30	34.60	1.73	0.85	0.617	1.27	64.57	4.00	0.00	64.57	0.50
13.35	34.70	1.73	0.85	0.620	1.27	64.62	4.00	0.00	64.62	0.50
13.40	34.80	1.73	0.85	0.623	1.27	64.67	4.00	0.00	64.67	0.50
13.45	34.90	1.73	0.85	0.625	1.26	64.72	4.00	0.00	64.72	0.50
13.50	35.00	1.73	0.85	0.628	1.26	64.76	4.00	0.00	64.76	0.50
13.55	34.47	1.73	0.85	0.631	1.26	63.64	5.10	0.02	63.67	0.50
13.60	33.93	1.73	0.85	0.633	1.26	62.53	6.20	0.29	62.82	0.50
13.65	33.40	1.73	0.85	0.636	1.25	61.42	7.30	0.55	61.97	0.50
13.70	32.87	1.73	0.85	0.638	1.25	60.31	8.40	0.82	61.13	0.50
13.75	32.33	1.73	0.85	0.641	1.25	59.21	9.50	1.08	60.29	0.50
13.80	31.80	1.73	0.85	0.644	1.25	58.12	10.60	1.34	59.46	0.50
13.85	31.27	1.73	0.85	0.646	1.24	57.03	11.70	1.61	58.64	0.50
13.90	30.73	1.73	0.85	0.649	1.24	55.95	12.80	1.87	57.82	0.50

13.95	30.20	1.73	0.85	0.651	1.24	54.87	13.90	2.14	57.00	0.50
14.00	29.67	1.73	0.85	0.654	1.24	53.79	15.00	2.40	56.19	0.50
14.05	29.13	1.73	0.85	0.656	1.23	52.73	16.10	2.66	55.39	0.50
14.10	28.60	1.73	0.85	0.659	1.23	51.66	17.20	2.93	54.59	0.50
14.15	28.07	1.73	0.85	0.661	1.23	50.60	18.30	3.19	53.79	0.50
14.20	27.53	1.73	0.85	0.664	1.23	49.55	19.40	3.46	53.00	0.50
14.25	27.00	1.73	0.85	0.666	1.23	48.50	20.50	3.72	52.22	0.50
14.30	26.47	1.73	0.85	0.669	1.22	47.45	21.60	3.98	51.44	0.50
14.35	25.93	1.73	0.85	0.671	1.22	46.41	22.70	4.25	50.66	0.50
14.40	25.40	1.73	0.85	0.674	1.22	45.37	23.80	4.51	49.89	0.50
14.45	24.87	1.73	0.85	0.676	1.22	44.34	24.90	4.78	49.12	0.50
14.50	24.33	1.73	0.85	0.679	1.21	43.31	26.00	5.04	48.35	0.50
14.55	23.80	1.73	0.85	0.681	1.21	42.29	27.10	5.30	47.59	0.50
14.60	23.27	1.73	0.85	0.683	1.21	41.27	28.20	5.57	46.84	0.50
14.65	22.73	1.73	0.85	0.686	1.21	40.25	29.30	5.83	46.09	0.50
14.70	22.20	1.73	0.85	0.688	1.21	39.24	30.40	6.10	45.34	0.50
14.75	21.67	1.73	0.85	0.690	1.20	38.23	31.50	6.36	44.59	0.50
14.80	21.13	1.73	0.95	0.693	1.20	41.61	32.60	6.62	48.23	0.50
14.85	20.60	1.73	0.95	0.695	1.20	40.49	33.70	6.89	47.38	0.50
14.90	20.07	1.73	0.95	0.697	1.20	39.38	34.80	7.15	46.53	0.50
14.95	19.53	1.73	0.95	0.700	1.20	38.27	35.90	7.20	45.47	0.50
15.00	19.00	1.73	0.95	0.702	1.19	37.16	37.00	7.20	44.36	0.50
15.05	18.83	1.73	0.95	0.704	1.19	36.78	37.00	7.20	43.98	0.50
15.10	18.67	1.73	0.95	0.706	1.19	36.39	37.00	7.20	43.59	0.50
15.15	18.50	1.73	0.95	0.709	1.19	36.01	37.00	7.20	43.21	0.50
15.20	18.33	1.73	0.95	0.711	1.19	35.63	37.00	7.20	42.83	0.50
15.25	18.17	1.73	0.95	0.713	1.18	35.25	37.00	7.20	42.45	0.50
15.30	18.00	1.73	0.95	0.716	1.18	34.87	37.00	7.20	42.07	0.50
15.35	17.83	1.73	0.95	0.718	1.18	34.49	37.00	7.20	41.69	0.50
15.40	17.67	1.73	0.95	0.720	1.18	34.11	37.00	7.20	41.31	0.50
15.45	17.50	1.73	0.95	0.723	1.18	33.74	37.00	7.20	40.94	0.50
15.50	17.33	1.73	0.95	0.725	1.17	33.36	37.00	7.20	40.56	0.50
15.55	17.17	1.73	0.95	0.727	1.17	32.99	37.00	7.20	40.19	0.50
15.60	17.00	1.73	0.95	0.730	1.17	32.62	37.00	7.20	39.82	0.50
15.65	16.83	1.73	0.95	0.732	1.17	32.25	37.00	7.20	39.45	0.50
15.70	16.67	1.73	0.95	0.734	1.17	31.88	37.00	7.20	39.08	0.50
15.75	16.50	1.73	0.95	0.737	1.17	31.51	37.00	7.20	38.71	0.50
15.80	16.33	1.73	0.95	0.739	1.16	31.14	37.00	7.20	38.34	0.50
15.85	16.17	1.73	0.95	0.741	1.16	30.77	37.00	7.20	37.97	0.50
15.90	16.00	1.73	0.95	0.744	1.16	30.41	37.00	7.20	37.61	0.50
15.95	15.83	1.73	0.95	0.746	1.16	30.04	37.00	7.20	37.24	0.50
16.00	15.67	1.73	0.95	0.748	1.16	29.68	37.00	7.20	36.88	0.50
16.05	15.50	1.73	0.95	0.751	1.15	29.32	37.00	7.20	36.52	0.50
16.10	15.33	1.73	0.95	0.753	1.15	28.96	37.00	7.20	36.16	0.50
16.15	15.17	1.73	0.95	0.755	1.15	28.60	37.00	7.20	35.80	0.50
16.20	15.00	1.73	0.95	0.758	1.15	28.24	37.00	7.20	35.44	0.50
16.25	14.83	1.73	0.95	0.760	1.15	27.88	37.00	7.20	35.08	0.50
16.30	14.67	1.73	0.95	0.763	1.15	27.52	37.00	7.20	34.72	0.50
16.35	14.50	1.73	0.95	0.765	1.14	27.17	37.00	7.20	34.37	0.50
16.40	14.33	1.73	0.95	0.767	1.14	26.81	37.00	7.20	34.01	0.50
16.45	14.17	1.73	0.95	0.770	1.14	26.46	37.00	7.20	33.66	0.50
16.50	14.00	1.73	0.95	0.772	1.14	26.11	37.00	7.20	33.31	0.50
16.55	14.00	1.73	0.95	0.775	1.14	26.07	39.13	7.20	33.27	0.50
16.60	14.00	1.73	0.95	0.777	1.13	26.03	41.27	7.20	33.23	0.50
16.65	14.00	1.73	0.95	0.779	1.13	25.99	43.40	7.20	33.19	0.50
16.70	14.00	1.73	0.95	0.782	1.13	25.95	45.53	7.20	33.15	0.50
16.75	14.00	1.73	0.95	0.784	1.13	25.91	47.67	7.20	33.11	0.50
16.80	14.00	1.73	0.95	0.786	1.13	25.87	49.80	7.20	33.07	0.50
16.85	14.00	1.73	0.95	0.789	1.13	25.83	51.93	7.20	33.03	0.50
16.90	14.00	1.73	0.95	0.791	1.12	25.79	54.07	7.20	32.99	0.50
16.95	14.00	1.73	0.95	0.793	1.12	25.76	56.20	7.20	32.96	0.50
17.00	14.00	1.73	0.95	0.796	1.12	25.72	58.33	7.20	32.92	0.50
17.05	14.00	1.73	0.95	0.798	1.12	25.68	60.47	7.20	32.88	0.50
17.10	14.00	1.73	0.95	0.800	1.12	25.65	62.60	7.20	32.85	0.50
17.15	14.00	1.73	0.95	0.803	1.12	25.61	64.73	7.20	32.81	0.50
17.20	14.00	1.73	0.95	0.805	1.11	25.57	66.87	7.20	32.77	0.50
17.25	14.00	1.73	0.95	0.807	1.11	25.54	69.00	7.20	32.74	0.50
17.30	14.00	1.73	0.95	0.809	1.11	25.50	71.13	7.20	32.70	0.50
17.35	14.00	1.73	0.95	0.811	1.11	25.47	73.27	7.20	32.67	0.50

17.40	14.00	1.73	0.95	0.814	1.11	25.43	75.40	7.20	32.63	0.50
17.45	14.00	1.73	0.95	0.816	1.11	25.40	77.53	7.20	32.60	0.50
17.50	14.00	1.73	0.95	0.818	1.11	25.37	79.67	7.20	32.57	0.50
17.55	14.00	1.73	0.95	0.820	1.10	25.33	81.80	7.20	32.53	0.50
17.60	14.00	1.73	0.95	0.822	1.10	25.30	83.93	7.20	32.50	0.50
17.65	14.00	1.73	0.95	0.824	1.10	25.27	86.07	7.20	32.47	0.50
17.70	14.00	1.73	0.95	0.827	1.10	25.23	88.20	7.20	32.43	0.50
17.75	14.00	1.73	0.95	0.829	1.10	25.20	90.33	7.20	32.40	0.50
17.80	14.00	1.73	0.95	0.831	1.10	25.17	92.47	7.20	32.37	0.50
17.85	14.00	1.73	0.95	0.833	1.10	25.14	94.60	7.20	32.34	0.50
17.90	14.00	1.73	0.95	0.835	1.09	25.11	96.73	7.20	32.31	0.50
17.95	14.00	1.73	0.95	0.837	1.09	25.08	98.87	7.20	32.28	0.50
18.00	14.00	1.73	0.95	0.839	1.09	25.05	NoLiq	7.20	32.25	0.50
18.05	14.13	1.73	0.95	0.841	1.09	25.25	NoLiq	7.20	32.45	0.50
18.10	14.27	1.73	0.95	0.843	1.09	25.46	NoLiq	7.20	32.66	0.50
18.15	14.40	1.73	0.95	0.845	1.09	25.67	NoLiq	7.20	32.87	0.50
18.20	14.53	1.73	0.95	0.847	1.09	25.87	NoLiq	7.20	33.07	0.50
18.25	14.67	1.73	0.95	0.849	1.09	26.08	NoLiq	7.20	33.28	0.50
18.30	14.80	1.73	0.95	0.851	1.08	26.29	NoLiq	7.20	33.49	0.50
18.35	14.93	1.73	0.95	0.853	1.08	26.49	NoLiq	7.20	33.69	0.50
18.40	15.07	1.73	0.95	0.855	1.08	26.70	NoLiq	7.20	33.90	0.50
18.45	15.20	1.73	0.95	0.857	1.08	26.90	NoLiq	7.20	34.10	0.50
18.50	15.33	1.73	0.95	0.859	1.08	27.11	NoLiq	7.20	34.31	0.50
18.55	15.47	1.73	0.95	0.861	1.08	27.31	NoLiq	7.20	34.51	0.50
18.60	15.60	1.73	0.95	0.863	1.08	27.51	NoLiq	7.20	34.71	0.50
18.65	15.73	1.73	0.95	0.865	1.07	27.72	NoLiq	7.20	34.92	0.50
18.70	15.87	1.73	0.95	0.867	1.07	27.92	NoLiq	7.20	35.12	0.50
18.75	16.00	1.73	0.95	0.869	1.07	28.12	NoLiq	7.20	35.32	0.50
18.80	16.13	1.73	0.95	0.871	1.07	28.32	NoLiq	7.20	35.52	0.50
18.85	16.27	1.73	0.95	0.873	1.07	28.52	NoLiq	7.20	35.72	0.50
18.90	16.40	1.73	0.95	0.875	1.07	28.73	NoLiq	7.20	35.93	0.50
18.95	16.53	1.73	0.95	0.877	1.07	28.93	NoLiq	7.20	36.13	0.50
19.00	16.67	1.73	0.95	0.879	1.07	29.13	NoLiq	7.20	36.33	0.50
19.05	16.80	1.73	0.95	0.881	1.07	29.33	NoLiq	7.20	36.53	0.50
19.10	16.93	1.73	0.95	0.883	1.06	29.53	NoLiq	7.20	36.73	0.50
19.15	17.07	1.73	0.95	0.885	1.06	29.73	NoLiq	7.20	36.93	0.50
19.20	17.20	1.73	0.95	0.887	1.06	29.92	NoLiq	7.20	37.12	0.50
19.25	17.33	1.73	0.95	0.889	1.06	30.12	NoLiq	7.20	37.32	0.50
19.30	17.47	1.73	0.95	0.891	1.06	30.32	NoLiq	7.20	37.52	0.50
19.35	17.60	1.73	0.95	0.893	1.06	30.52	NoLiq	7.20	37.72	0.50
19.40	17.73	1.73	0.95	0.895	1.06	30.72	NoLiq	7.20	37.92	0.50
19.45	17.87	1.73	0.95	0.897	1.06	30.92	NoLiq	7.20	38.12	0.50
19.50	18.00	1.73	0.95	0.899	1.05	31.11	NoLiq	7.20	38.31	0.50
19.55	18.07	1.73	0.95	0.901	1.05	31.19	NoLiq	7.20	38.39	0.50
19.60	18.13	1.73	0.95	0.903	1.05	31.28	NoLiq	7.20	38.48	0.50
19.65	18.20	1.73	0.95	0.905	1.05	31.36	NoLiq	7.20	38.56	0.50
19.70	18.27	1.73	0.95	0.907	1.05	31.44	NoLiq	7.20	38.64	0.50
19.75	18.33	1.73	0.95	0.909	1.05	31.52	NoLiq	7.20	38.72	0.50
19.80	18.40	1.73	0.95	0.911	1.05	31.60	NoLiq	7.20	38.80	0.50
19.85	18.47	1.73	0.95	0.912	1.05	31.68	NoLiq	7.20	38.88	0.50
19.90	18.53	1.73	0.95	0.914	1.05	31.76	NoLiq	7.20	38.96	0.50
19.95	18.60	1.73	0.95	0.916	1.04	31.84	NoLiq	7.20	39.04	0.50
20.00	18.67	1.73	0.95	0.918	1.04	31.92	NoLiq	7.20	39.12	0.50
20.05	18.73	1.73	0.95	0.920	1.04	32.00	NoLiq	7.20	39.20	0.50
20.10	18.80	1.73	0.95	0.922	1.04	32.08	NoLiq	7.20	39.28	0.50
20.15	18.87	1.73	0.95	0.924	1.04	32.16	NoLiq	7.20	39.36	0.50
20.20	18.93	1.73	0.95	0.926	1.04	32.24	NoLiq	7.20	39.44	0.50
20.25	19.00	1.73	0.95	0.928	1.04	32.32	NoLiq	7.20	39.52	0.50
20.30	19.07	1.73	0.95	0.930	1.04	32.40	NoLiq	7.20	39.60	0.50
20.35	19.13	1.73	0.95	0.932	1.04	32.48	NoLiq	7.20	39.68	0.50
20.40	19.20	1.73	0.95	0.934	1.03	32.56	NoLiq	7.20	39.76	0.50
20.45	19.27	1.73	0.95	0.936	1.03	32.64	NoLiq	7.20	39.84	0.50
20.50	19.33	1.73	0.95	0.938	1.03	32.72	NoLiq	7.20	39.92	0.50
20.55	19.40	1.73	0.95	0.940	1.03	32.80	NoLiq	7.20	40.00	0.50
20.60	19.47	1.73	0.95	0.942	1.03	32.88	NoLiq	7.20	40.08	0.50
20.65	19.53	1.73	0.95	0.943	1.03	32.96	NoLiq	7.20	40.16	0.50
20.70	19.60	1.73	0.95	0.945	1.03	33.03	NoLiq	7.20	40.23	0.50
20.75	19.67	1.73	0.95	0.947	1.03	33.11	NoLiq	7.20	40.31	0.50
20.80	19.73	1.73	0.95	0.949	1.03	33.19	NoLiq	7.20	40.39	0.50

20.85	19.80	1.73	0.95	0.951	1.03	33.27	NoLiq	7.20	40.47	0.50
20.90	19.87	1.73	0.95	0.953	1.02	33.35	NoLiq	7.20	40.55	0.50
20.95	19.93	1.73	0.95	0.955	1.02	33.42	NoLiq	7.20	40.62	0.50
21.00	20.00	1.73	0.95	0.957	1.02	33.50	NoLiq	7.20	40.70	0.50
21.05	19.97	1.73	0.95	0.959	1.02	33.41	NoLiq	7.20	40.61	0.50
21.10	19.93	1.73	0.95	0.961	1.02	33.32	NoLiq	7.20	40.52	0.50
21.15	19.90	1.73	0.95	0.963	1.02	33.23	NoLiq	7.20	40.43	0.50
21.20	19.87	1.73	0.95	0.965	1.02	33.15	NoLiq	7.20	40.35	0.50
21.25	19.83	1.73	0.95	0.967	1.02	33.06	NoLiq	7.20	40.26	0.50
21.30	19.80	1.73	0.95	0.969	1.02	32.97	NoLiq	7.20	40.17	0.50
21.35	19.77	1.73	0.95	0.971	1.02	32.88	NoLiq	7.20	40.08	0.50
21.40	19.73	1.73	0.95	0.973	1.01	32.79	NoLiq	7.20	39.99	0.50
21.45	19.70	1.73	0.95	0.974	1.01	32.70	NoLiq	7.20	39.90	0.50
21.50	19.67	1.73	0.95	0.976	1.01	32.62	NoLiq	7.20	39.82	0.50
21.55	19.63	1.73	0.95	0.978	1.01	32.53	NoLiq	7.20	39.73	0.50
21.60	19.60	1.73	0.95	0.980	1.01	32.44	NoLiq	7.20	39.64	0.50
21.65	19.57	1.73	0.95	0.982	1.01	32.35	NoLiq	7.20	39.55	0.50
21.70	19.53	1.73	0.95	0.984	1.01	32.27	NoLiq	7.20	39.47	0.50
21.75	19.50	1.73	0.95	0.986	1.01	32.18	NoLiq	7.20	39.38	0.50
21.80	19.47	1.73	0.95	0.988	1.01	32.09	NoLiq	7.20	39.29	0.50
21.85	19.43	1.73	0.95	0.990	1.00	32.01	NoLiq	7.20	39.21	0.50
21.90	19.40	1.73	0.95	0.992	1.00	31.92	NoLiq	7.20	39.12	0.50
21.95	19.37	1.73	0.95	0.994	1.00	31.83	NoLiq	7.20	39.03	0.50
22.00	19.33	1.73	0.95	0.996	1.00	31.75	NoLiq	7.20	38.95	0.50
22.05	19.30	1.73	0.95	0.998	1.00	31.66	NoLiq	7.20	38.86	0.50
22.10	19.27	1.73	0.95	1.000	1.00	31.58	NoLiq	7.20	38.78	0.50
22.15	19.23	1.73	0.95	1.002	1.00	31.49	NoLiq	7.20	38.69	0.50
22.20	19.20	1.73	0.95	1.004	1.00	31.40	NoLiq	7.20	38.60	0.50
22.25	19.17	1.73	0.95	1.006	1.00	31.32	NoLiq	7.20	38.52	0.50
22.30	19.13	1.73	0.95	1.008	1.00	31.23	NoLiq	7.20	38.43	0.50
22.35	19.10	1.73	0.95	1.010	1.00	31.15	NoLiq	7.20	38.35	0.50
22.40	19.07	1.73	0.95	1.012	0.99	31.07	NoLiq	7.20	38.27	0.50
22.45	19.03	1.73	0.95	1.014	0.99	30.98	NoLiq	7.20	38.18	0.50
22.50	19.00	1.73	0.95	1.016	0.99	30.90	NoLiq	7.20	38.10	0.50
22.55	19.03	1.73	0.95	1.018	0.99	30.92	NoLiq	7.20	38.12	0.50
22.60	19.07	1.73	0.95	1.020	0.99	30.94	NoLiq	7.20	38.14	0.50
22.65	19.10	1.73	0.95	1.022	0.99	30.97	NoLiq	7.20	38.17	0.50
22.70	19.13	1.73	0.95	1.023	0.99	30.99	NoLiq	7.20	38.19	0.50
22.75	19.17	1.73	0.95	1.025	0.99	31.02	NoLiq	7.20	38.22	0.50
22.80	19.20	1.73	0.95	1.027	0.99	31.04	NoLiq	7.20	38.24	0.50
22.85	19.23	1.73	0.95	1.029	0.99	31.06	NoLiq	7.20	38.26	0.50
22.90	19.27	1.73	0.95	1.031	0.98	31.09	NoLiq	7.20	38.29	0.50
22.95	19.30	1.73	0.95	1.033	0.98	31.11	NoLiq	7.20	38.31	0.50
23.00	19.33	1.73	0.95	1.035	0.98	31.14	NoLiq	7.20	38.34	0.50
23.05	19.37	1.73	0.95	1.037	0.98	31.16	NoLiq	7.20	38.36	0.50
23.10	19.40	1.73	0.95	1.039	0.98	31.18	NoLiq	7.20	38.38	0.50
23.15	19.43	1.73	0.95	1.041	0.98	31.21	NoLiq	7.20	38.41	0.50
23.20	19.47	1.73	0.95	1.043	0.98	31.23	NoLiq	7.20	38.43	0.50
23.25	19.50	1.73	0.95	1.045	0.98	31.26	NoLiq	7.20	38.46	0.50
23.30	19.53	1.73	0.95	1.047	0.98	31.28	NoLiq	7.20	38.48	0.50
23.35	19.57	1.73	0.95	1.049	0.98	31.30	NoLiq	7.20	38.50	0.50
23.40	19.60	1.73	0.95	1.051	0.98	31.33	NoLiq	7.20	38.53	0.50
23.45	19.63	1.73	0.95	1.053	0.97	31.35	NoLiq	7.20	38.55	0.50
23.50	19.67	1.73	0.95	1.055	0.97	31.37	NoLiq	7.20	38.57	0.50
23.55	19.70	1.73	0.95	1.057	0.97	31.40	NoLiq	7.20	38.60	0.50
23.60	19.73	1.73	0.95	1.059	0.97	31.42	NoLiq	7.20	38.62	0.50
23.65	19.77	1.73	0.95	1.061	0.97	31.44	NoLiq	7.20	38.64	0.50
23.70	19.80	1.73	0.95	1.063	0.97	31.47	NoLiq	7.20	38.67	0.50
23.75	19.83	1.73	0.95	1.065	0.97	31.49	NoLiq	7.20	38.69	0.50
23.80	19.87	1.73	0.95	1.067	0.97	31.51	NoLiq	7.20	38.71	0.50
23.85	19.90	1.73	0.95	1.069	0.97	31.54	NoLiq	7.20	38.74	0.50
23.90	19.93	1.73	0.95	1.071	0.97	31.56	NoLiq	7.20	38.76	0.50
23.95	19.97	1.73	0.95	1.073	0.97	31.58	NoLiq	7.20	38.78	0.50
24.00	20.00	1.73	0.95	1.075	0.96	31.61	NoLiq	7.20	38.81	0.50
24.05	19.83	1.73	0.95	1.077	0.96	31.31	NoLiq	7.20	38.51	0.50
24.10	19.67	1.73	0.95	1.079	0.96	31.02	NoLiq	7.20	38.22	0.50
24.15	19.50	1.73	0.95	1.081	0.96	30.73	NoLiq	7.20	37.93	0.50
24.20	19.33	1.73	0.95	1.083	0.96	30.44	NoLiq	7.20	37.64	0.50
24.25	19.17	1.73	0.95	1.085	0.96	30.15	NoLiq	7.20	37.35	0.50

24.30	19.00	1.73	0.95	1.087	0.96	29.86	NoLiq	7.20	37.06	0.50
24.35	18.83	1.73	0.95	1.089	0.96	29.57	NoLiq	7.20	36.77	0.50
24.40	18.67	1.73	0.95	1.091	0.96	29.28	NoLiq	7.20	36.48	0.50
24.45	18.50	1.73	0.95	1.093	0.96	29.00	NoLiq	7.20	36.20	0.50
24.50	18.33	1.73	0.95	1.095	0.96	28.71	NoLiq	7.20	35.91	0.50
24.55	18.17	1.73	0.95	1.097	0.95	28.42	NoLiq	7.20	35.62	0.50
24.60	18.00	1.73	0.95	1.099	0.95	28.14	NoLiq	7.20	35.34	0.50
24.65	17.83	1.73	0.95	1.101	0.95	27.85	NoLiq	7.20	35.05	0.50
24.70	17.67	1.73	0.95	1.103	0.95	27.57	NoLiq	7.20	34.77	0.50
24.75	17.50	1.73	0.95	1.105	0.95	27.29	NoLiq	7.20	34.49	0.50
24.80	17.33	1.73	0.95	1.107	0.95	27.00	NoLiq	7.20	34.20	0.50
24.85	17.17	1.73	0.95	1.109	0.95	26.72	NoLiq	7.20	33.92	0.50
24.90	17.00	1.73	0.95	1.110	0.95	26.44	NoLiq	7.20	33.64	0.50
24.95	16.83	1.73	0.95	1.112	0.95	26.16	NoLiq	7.20	33.36	0.50
25.00	16.67	1.73	0.95	1.114	0.95	25.88	NoLiq	7.20	33.08	0.50
25.05	16.50	1.73	0.95	1.116	0.95	25.59	NoLiq	7.20	32.79	0.50
25.10	16.33	1.73	0.95	1.118	0.95	25.32	NoLiq	7.20	32.52	0.50
25.15	16.17	1.73	0.95	1.120	0.94	25.04	NoLiq	7.20	32.24	0.50
25.20	16.00	1.73	0.95	1.122	0.94	24.76	NoLiq	7.20	31.96	0.50
25.25	15.83	1.73	0.95	1.124	0.94	24.48	NoLiq	7.20	31.68	0.50
25.30	15.67	1.73	0.95	1.125	0.94	24.20	NoLiq	7.20	31.40	0.50
25.35	15.50	1.73	0.95	1.127	0.94	23.92	NoLiq	7.20	31.12	0.50
25.40	15.33	1.73	0.95	1.129	0.94	23.65	NoLiq	7.20	30.85	0.50
25.45	15.17	1.73	0.95	1.131	0.94	23.37	NoLiq	7.20	30.57	0.50
25.50	15.00	1.73	0.95	1.133	0.94	23.10	NoLiq	7.20	30.30	0.50
25.55	15.10	1.73	0.95	1.135	0.94	23.23	NoLiq	7.20	30.43	0.50
25.60	15.20	1.73	0.95	1.136	0.94	23.37	NoLiq	7.20	30.57	0.50
25.65	15.30	1.73	0.95	1.138	0.94	23.50	NoLiq	7.20	30.70	0.50
25.70	15.40	1.73	0.95	1.140	0.94	23.64	NoLiq	7.20	30.84	0.50
25.75	15.50	1.73	0.95	1.142	0.94	23.77	NoLiq	7.20	30.97	0.50
25.80	15.60	1.73	0.95	1.144	0.94	23.90	NoLiq	7.20	31.10	0.50
25.85	15.70	1.73	0.95	1.146	0.93	24.04	NoLiq	7.20	31.24	0.50
25.90	15.80	1.73	0.95	1.148	0.93	24.17	NoLiq	7.20	31.37	0.50
25.95	15.90	1.73	0.95	1.150	0.93	24.30	NoLiq	7.20	31.50	0.50
26.00	16.00	1.73	0.95	1.151	0.93	24.43	NoLiq	7.20	31.63	0.50
26.05	16.10	1.73	0.95	1.153	0.93	24.57	NoLiq	7.20	31.77	0.50
26.10	16.20	1.73	0.95	1.155	0.93	24.70	NoLiq	7.20	31.90	0.50
26.15	16.30	1.73	0.95	1.157	0.93	24.83	NoLiq	7.20	32.03	0.50
26.20	16.40	1.73	0.95	1.159	0.93	24.96	NoLiq	7.20	32.16	0.50
26.25	16.50	1.73	0.95	1.161	0.93	25.09	NoLiq	7.20	32.29	0.50
26.30	16.60	1.73	0.95	1.163	0.93	25.22	NoLiq	7.20	32.42	0.50
26.35	16.70	1.73	0.95	1.165	0.93	25.35	NoLiq	7.20	32.55	0.50
26.40	16.80	1.73	0.95	1.168	0.93	25.48	NoLiq	7.20	32.68	0.50
26.45	16.90	1.73	0.95	1.170	0.92	25.61	NoLiq	7.20	32.81	0.50
26.50	17.00	1.73	0.95	1.172	0.92	25.74	NoLiq	7.20	32.94	0.50
26.55	17.10	1.73	0.95	1.174	0.92	25.86	NoLiq	7.20	33.06	0.50
26.60	17.20	1.73	0.95	1.176	0.92	25.99	NoLiq	7.20	33.19	0.50
26.65	17.30	1.73	0.95	1.178	0.92	26.12	NoLiq	7.20	33.32	0.50
26.70	17.40	1.73	0.95	1.180	0.92	26.25	NoLiq	7.20	33.45	0.50
26.75	17.50	1.73	0.95	1.182	0.92	26.37	NoLiq	7.20	33.57	0.50
26.80	17.60	1.73	0.95	1.184	0.92	26.50	NoLiq	7.20	33.70	0.50
26.85	17.70	1.73	0.95	1.187	0.92	26.63	NoLiq	7.20	33.83	0.50
26.90	17.80	1.73	0.95	1.189	0.92	26.75	NoLiq	7.20	33.95	0.50
26.95	17.90	1.73	0.95	1.191	0.92	26.88	NoLiq	7.20	34.08	0.50
27.00	18.00	1.73	0.95	1.193	0.92	27.00	NoLiq	7.20	34.20	0.50
27.05	17.97	1.73	0.95	1.196	0.91	26.93	55.56	7.20	34.13	0.50
27.10	17.93	1.73	0.95	1.198	0.91	26.85	57.13	7.20	34.05	0.50
27.15	17.90	1.73	0.95	1.200	0.91	26.78	58.70	7.20	33.98	0.50
27.20	17.87	1.73	0.95	1.202	0.91	26.70	60.26	7.20	33.90	0.50
27.25	17.83	1.73	0.95	1.204	0.91	26.63	61.83	7.20	33.83	0.50
27.30	17.80	1.73	0.95	1.207	0.91	26.56	63.40	7.20	33.76	0.50
27.35	17.77	1.73	0.95	1.209	0.91	26.48	64.96	7.20	33.68	0.50
27.40	17.73	1.73	0.95	1.211	0.91	26.41	66.53	7.20	33.61	0.50
27.45	17.70	1.73	0.95	1.213	0.91	26.34	68.10	7.20	33.54	0.50
27.50	17.67	1.73	0.95	1.215	0.91	26.26	69.66	7.20	33.46	0.50
27.55	17.63	1.73	0.95	1.217	0.91	26.19	71.23	7.20	33.39	0.50
27.60	17.60	1.73	0.95	1.220	0.91	26.12	72.80	7.20	33.32	0.50
27.65	17.57	1.73	0.95	1.222	0.90	26.05	74.36	7.20	33.25	0.50
27.70	17.53	1.73	0.95	1.224	0.90	25.97	75.93	7.20	33.17	0.50

27.75	17.50	1.73	0.95	1.226	0.90	25.90	77.50	7.20	33.10	0.50
27.80	17.47	1.73	0.95	1.228	0.90	25.83	79.06	7.20	33.03	0.50
27.85	17.43	1.73	0.95	1.230	0.90	25.76	80.63	7.20	32.96	0.50
27.90	17.40	1.73	1.00	1.232	0.90	27.04	82.20	7.20	34.24	0.50
27.95	17.37	1.73	1.00	1.234	0.90	26.97	83.76	7.20	34.17	0.50
28.00	17.33	1.73	1.00	1.236	0.90	26.89	85.33	7.20	34.09	0.50
28.05	17.30	1.73	1.00	1.238	0.90	26.82	86.90	7.20	34.02	0.50
28.10	17.27	1.73	1.00	1.240	0.90	26.75	88.46	7.20	33.95	0.50
28.15	17.23	1.73	1.00	1.242	0.90	26.67	90.03	7.20	33.87	0.50
28.20	17.20	1.73	1.00	1.244	0.90	26.60	91.60	7.20	33.80	0.50
28.25	17.17	1.73	1.00	1.246	0.90	26.53	93.16	7.20	33.73	0.50
28.30	17.13	1.73	1.00	1.248	0.90	26.46	94.73	7.20	33.66	0.50
28.35	17.10	1.73	1.00	1.250	0.89	26.39	96.30	7.20	33.59	0.50
28.40	17.07	1.73	1.00	1.252	0.89	26.31	97.86	7.20	33.51	0.50
28.45	17.03	1.73	1.00	1.254	0.89	26.24	99.43	7.20	33.44	0.50
28.50	17.00	1.73	1.00	1.256	0.89	26.17	NoLiq	7.20	33.37	0.50
28.55	17.00	1.73	1.00	1.257	0.89	26.15	NoLiq	7.20	33.35	0.50
28.60	17.00	1.73	1.00	1.259	0.89	26.13	NoLiq	7.20	33.33	0.50
28.65	17.00	1.73	1.00	1.261	0.89	26.11	NoLiq	7.20	33.31	0.50
28.70	17.00	1.73	1.00	1.263	0.89	26.09	NoLiq	7.20	33.29	0.50
28.75	17.00	1.73	1.00	1.265	0.89	26.07	NoLiq	7.20	33.27	0.50
28.80	17.00	1.73	1.00	1.267	0.89	26.05	NoLiq	7.20	33.25	0.50
28.85	17.00	1.73	1.00	1.269	0.89	26.03	NoLiq	7.20	33.23	0.50
28.90	17.00	1.73	1.00	1.271	0.89	26.01	NoLiq	7.20	33.21	0.50
28.95	17.00	1.73	1.00	1.273	0.89	25.99	NoLiq	7.20	33.19	0.50
29.00	17.00	1.73	1.00	1.275	0.89	25.97	NoLiq	7.20	33.17	0.50
29.05	17.00	1.73	1.00	1.277	0.89	25.95	NoLiq	7.20	33.15	0.50
29.10	17.00	1.73	1.00	1.279	0.88	25.93	NoLiq	7.20	33.13	0.50
29.15	17.00	1.73	1.00	1.280	0.88	25.91	NoLiq	7.20	33.11	0.50
29.20	17.00	1.73	1.00	1.282	0.88	25.90	NoLiq	7.20	33.10	0.50
29.25	17.00	1.73	1.00	1.284	0.88	25.88	NoLiq	7.20	33.08	0.50
29.30	17.00	1.73	1.00	1.286	0.88	25.86	NoLiq	7.20	33.06	0.50
29.35	17.00	1.73	1.00	1.288	0.88	25.84	NoLiq	7.20	33.04	0.50
29.40	17.00	1.73	1.00	1.290	0.88	25.82	NoLiq	7.20	33.02	0.50
29.45	17.00	1.73	1.00	1.292	0.88	25.80	NoLiq	7.20	33.00	0.50
29.50	17.00	1.73	1.00	1.294	0.88	25.78	NoLiq	7.20	32.98	0.50
29.55	17.00	1.73	1.00	1.296	0.88	25.76	NoLiq	7.20	32.96	0.50
29.60	17.00	1.73	1.00	1.298	0.88	25.74	NoLiq	7.20	32.94	0.50
29.65	17.00	1.73	1.00	1.300	0.88	25.72	NoLiq	7.20	32.92	0.50
29.70	17.00	1.73	1.00	1.302	0.88	25.70	NoLiq	7.20	32.90	0.50
29.75	17.00	1.73	1.00	1.304	0.88	25.68	NoLiq	7.20	32.88	0.50
29.80	17.00	1.73	1.00	1.306	0.88	25.66	NoLiq	7.20	32.86	0.50
29.85	17.00	1.73	1.00	1.308	0.87	25.64	NoLiq	7.20	32.84	0.50
29.90	17.00	1.73	1.00	1.310	0.87	25.62	NoLiq	7.20	32.82	0.50
29.95	17.00	1.73	1.00	1.312	0.87	25.60	NoLiq	7.20	32.80	0.50
30.00	17.00	1.73	1.00	1.314	0.87	25.58	NoLiq	7.20	32.78	0.50
30.05	16.93	1.73	1.00	1.316	0.87	25.46	NoLiq	7.20	32.66	0.50
30.10	16.87	1.73	1.00	1.318	0.87	25.34	NoLiq	7.20	32.54	0.50
30.15	16.80	1.73	1.00	1.320	0.87	25.22	NoLiq	7.20	32.42	0.50
30.20	16.73	1.73	1.00	1.322	0.87	25.10	NoLiq	7.20	32.30	0.50
30.25	16.67	1.73	1.00	1.324	0.87	24.99	NoLiq	7.20	32.19	0.50
30.30	16.60	1.73	1.00	1.326	0.87	24.87	NoLiq	7.20	32.07	0.50
30.35	16.53	1.73	1.00	1.328	0.87	24.75	NoLiq	7.20	31.95	0.50
30.40	16.47	1.73	1.00	1.330	0.87	24.63	NoLiq	7.20	31.83	0.50
30.45	16.40	1.73	1.00	1.332	0.87	24.51	NoLiq	7.20	31.71	0.50
30.50	16.33	1.73	1.00	1.334	0.87	24.39	NoLiq	7.20	31.59	0.50
30.55	16.27	1.73	1.00	1.336	0.87	24.28	NoLiq	7.20	31.48	0.50
30.60	16.20	1.73	1.00	1.338	0.86	24.16	NoLiq	7.20	31.36	0.50
30.65	16.13	1.73	1.00	1.340	0.86	24.04	NoLiq	7.20	31.24	0.50
30.70	16.07	1.73	1.00	1.342	0.86	23.92	NoLiq	7.20	31.12	0.50
30.75	16.00	1.73	1.00	1.344	0.86	23.81	NoLiq	7.20	31.01	0.50
30.80	15.93	1.73	1.00	1.346	0.86	23.69	NoLiq	7.20	30.89	0.50
30.85	15.87	1.73	1.00	1.348	0.86	23.57	NoLiq	7.20	30.77	0.50
30.90	15.80	1.73	1.00	1.350	0.86	23.46	NoLiq	7.20	30.66	0.50
30.95	15.73	1.73	1.00	1.352	0.86	23.34	NoLiq	7.20	30.54	0.50
31.00	15.67	1.73	1.00	1.354	0.86	23.22	NoLiq	7.20	30.42	0.50
31.05	15.60	1.73	1.00	1.356	0.86	23.11	NoLiq	7.20	30.31	0.50
31.10	15.53	1.73	1.00	1.358	0.86	22.99	NoLiq	7.20	30.19	0.50
31.15	15.47	1.73	1.00	1.360	0.86	22.88	NoLiq	7.20	30.08	0.48

31.20	15.40	1.73	1.00	1.362	0.86	22.76	NoLiq	7.20	29.96	0.45
31.25	15.33	1.73	1.00	1.364	0.86	22.64	NoLiq	7.20	29.84	0.43
31.30	15.27	1.73	1.00	1.366	0.86	22.53	NoLiq	7.20	29.73	0.42
31.35	15.20	1.73	1.00	1.368	0.85	22.41	NoLiq	7.20	29.61	0.41
31.40	15.13	1.73	1.00	1.370	0.85	22.30	NoLiq	7.20	29.50	0.40
31.45	15.07	1.73	1.00	1.372	0.85	22.19	NoLiq	7.20	29.39	0.39
31.50	15.00	1.73	1.00	1.374	0.85	22.07	NoLiq	7.20	29.27	0.39
31.55	15.03	1.73	1.00	1.376	0.85	22.10	NoLiq	7.20	29.30	0.39
31.60	15.07	1.73	1.00	1.378	0.85	22.14	NoLiq	7.20	29.34	0.39
31.65	15.10	1.73	1.00	1.380	0.85	22.17	NoLiq	7.20	29.37	0.39
31.70	15.13	1.73	1.00	1.383	0.85	22.20	NoLiq	7.20	29.40	0.39
31.75	15.17	1.73	1.00	1.385	0.85	22.23	NoLiq	7.20	29.43	0.40
31.80	15.20	1.73	1.00	1.387	0.85	22.27	NoLiq	7.20	29.47	0.40
31.85	15.23	1.73	1.00	1.389	0.85	22.30	NoLiq	7.20	29.50	0.40
31.90	15.27	1.73	1.00	1.391	0.85	22.33	NoLiq	7.20	29.53	0.40
31.95	15.30	1.73	1.00	1.392	0.85	22.37	NoLiq	7.20	29.57	0.40
32.00	15.33	1.73	1.00	1.394	0.85	22.40	NoLiq	7.20	29.60	0.41
32.05	15.37	1.73	1.00	1.396	0.85	22.43	NoLiq	7.20	29.63	0.41
32.10	15.40	1.73	1.00	1.398	0.85	22.46	NoLiq	7.20	29.66	0.41
32.15	15.43	1.73	1.00	1.400	0.85	22.50	NoLiq	7.20	29.70	0.42
32.20	15.47	1.73	1.00	1.402	0.84	22.53	NoLiq	7.20	29.73	0.42
32.25	15.50	1.73	1.00	1.404	0.84	22.56	NoLiq	7.20	29.76	0.42
32.30	15.53	1.73	1.00	1.406	0.84	22.59	NoLiq	7.20	29.79	0.43
32.35	15.57	1.73	1.00	1.408	0.84	22.63	NoLiq	7.20	29.83	0.43
32.40	15.60	1.73	1.00	1.410	0.84	22.66	NoLiq	7.20	29.86	0.43
32.45	15.63	1.73	1.00	1.412	0.84	22.69	NoLiq	7.20	29.89	0.44
32.50	15.67	1.73	1.00	1.414	0.84	22.73	NoLiq	7.20	29.93	0.44
32.55	15.70	1.73	1.00	1.416	0.84	22.76	NoLiq	7.20	29.96	0.45
32.60	15.73	1.73	1.00	1.418	0.84	22.79	NoLiq	7.20	29.99	0.46
32.65	15.77	1.73	1.00	1.420	0.84	22.82	NoLiq	7.20	30.02	0.46
32.70	15.80	1.73	1.00	1.422	0.84	22.86	NoLiq	7.20	30.06	0.47
32.75	15.83	1.73	1.00	1.424	0.84	22.89	NoLiq	7.20	30.09	0.48
32.80	15.87	1.73	1.00	1.426	0.84	22.92	NoLiq	7.20	30.12	0.50
32.85	15.90	1.73	1.00	1.428	0.84	22.96	NoLiq	7.20	30.16	0.50
32.90	15.93	1.73	1.00	1.429	0.84	22.99	NoLiq	7.20	30.19	0.50
32.95	15.97	1.73	1.00	1.431	0.84	23.02	NoLiq	7.20	30.22	0.50
33.00	16.00	1.73	1.00	1.433	0.84	23.05	NoLiq	7.20	30.25	0.50
33.05	16.03	1.73	1.00	1.435	0.83	23.09	NoLiq	7.20	30.29	0.50
33.10	16.07	1.73	1.00	1.437	0.83	23.12	NoLiq	7.20	30.32	0.50
33.15	16.10	1.73	1.00	1.439	0.83	23.15	NoLiq	7.20	30.35	0.50
33.20	16.13	1.73	1.00	1.441	0.83	23.18	NoLiq	7.20	30.38	0.50
33.25	16.17	1.73	1.00	1.443	0.83	23.22	NoLiq	7.20	30.42	0.50
33.30	16.20	1.73	1.00	1.445	0.83	23.25	NoLiq	7.20	30.45	0.50
33.35	16.23	1.73	1.00	1.447	0.83	23.28	NoLiq	7.20	30.48	0.50
33.40	16.27	1.73	1.00	1.449	0.83	23.31	NoLiq	7.20	30.51	0.50
33.45	16.30	1.73	1.00	1.451	0.83	23.35	NoLiq	7.20	30.55	0.50
33.50	16.33	1.73	1.00	1.452	0.83	23.38	NoLiq	7.20	30.58	0.50
33.55	16.37	1.73	1.00	1.454	0.83	23.41	NoLiq	7.20	30.61	0.50
33.60	16.40	1.73	1.00	1.456	0.83	23.44	NoLiq	7.20	30.64	0.50
33.65	16.43	1.73	1.00	1.458	0.83	23.47	NoLiq	7.20	30.67	0.50
33.70	16.47	1.73	1.00	1.460	0.83	23.51	NoLiq	7.20	30.71	0.50
33.75	16.50	1.73	1.00	1.462	0.83	23.54	NoLiq	7.20	30.74	0.50
33.80	16.53	1.73	1.00	1.464	0.83	23.57	NoLiq	7.20	30.77	0.50
33.85	16.57	1.73	1.00	1.466	0.83	23.60	NoLiq	7.20	30.80	0.50
33.90	16.60	1.73	1.00	1.468	0.83	23.63	NoLiq	7.20	30.83	0.50
33.95	16.63	1.73	1.00	1.470	0.82	23.67	NoLiq	7.20	30.87	0.50
34.00	16.67	1.73	1.00	1.472	0.82	23.70	NoLiq	7.20	30.90	0.50
34.05	16.70	1.73	1.00	1.474	0.82	23.73	NoLiq	7.20	30.93	0.50
34.10	16.73	1.73	1.00	1.476	0.82	23.76	NoLiq	7.20	30.96	0.50
34.15	16.77	1.73	1.00	1.478	0.82	23.79	NoLiq	7.20	30.99	0.50
34.20	16.80	1.73	1.00	1.480	0.82	23.82	NoLiq	7.20	31.02	0.50
34.25	16.83	1.73	1.00	1.482	0.82	23.85	NoLiq	7.20	31.05	0.50
34.30	16.87	1.73	1.00	1.484	0.82	23.89	NoLiq	7.20	31.09	0.50
34.35	16.90	1.73	1.00	1.486	0.82	23.92	NoLiq	7.20	31.12	0.50
34.40	16.93	1.73	1.00	1.488	0.82	23.95	NoLiq	7.20	31.15	0.50
34.45	16.97	1.73	1.00	1.490	0.82	23.98	NoLiq	7.20	31.18	0.50
34.50	17.00	1.73	1.00	1.492	0.82	24.01	NoLiq	7.20	31.21	0.50
34.55	16.90	1.73	1.00	1.494	0.82	23.85	NoLiq	7.20	31.05	0.50
34.60	16.80	1.73	1.00	1.496	0.82	23.70	NoLiq	7.20	30.90	0.50

34.65	16.70	1.73	1.00	1.498	0.82	23.54	NoLiq	7.20	30.74	0.50
34.70	16.60	1.73	1.00	1.500	0.82	23.38	NoLiq	7.20	30.58	0.50
34.75	16.50	1.73	1.00	1.502	0.82	23.23	NoLiq	7.20	30.43	0.50
34.80	16.40	1.73	1.00	1.504	0.82	23.07	NoLiq	7.20	30.27	0.50
34.85	16.30	1.73	1.00	1.506	0.81	22.92	NoLiq	7.20	30.12	0.49
34.90	16.20	1.73	1.00	1.508	0.81	22.76	NoLiq	7.20	29.96	0.45
34.95	16.10	1.73	1.00	1.510	0.81	22.60	NoLiq	7.20	29.80	0.43
35.00	16.00	1.73	1.00	1.512	0.81	22.45	NoLiq	7.20	29.65	0.41
35.05	15.90	1.73	1.00	1.514	0.81	22.29	NoLiq	7.20	29.49	0.40
35.10	15.80	1.73	1.00	1.516	0.81	22.14	NoLiq	7.20	29.34	0.39
35.15	15.70	1.73	1.00	1.518	0.81	21.99	NoLiq	7.20	29.19	0.38
35.20	15.60	1.73	1.00	1.519	0.81	21.83	NoLiq	7.20	29.03	0.38
35.25	15.50	1.73	1.00	1.521	0.81	21.68	NoLiq	7.20	28.88	0.37
35.30	15.40	1.73	1.00	1.523	0.81	21.52	NoLiq	7.20	28.72	0.36
35.35	15.30	1.73	1.00	1.525	0.81	21.37	NoLiq	7.20	28.57	0.36
35.40	15.20	1.73	1.00	1.527	0.81	21.22	NoLiq	7.20	28.42	0.35
35.45	15.10	1.73	1.00	1.529	0.81	21.06	NoLiq	7.20	28.26	0.35
35.50	15.00	1.73	1.00	1.531	0.81	20.91	NoLiq	7.20	28.11	0.35
35.55	14.90	1.73	1.00	1.533	0.81	20.76	NoLiq	7.20	27.96	0.34
35.60	14.80	1.73	1.00	1.535	0.81	20.61	NoLiq	7.20	27.81	0.34
35.65	14.70	1.73	1.00	1.537	0.81	20.45	NoLiq	7.20	27.65	0.33
35.70	14.60	1.73	1.00	1.539	0.81	20.30	NoLiq	7.20	27.50	0.33
35.75	14.50	1.73	1.00	1.541	0.81	20.15	NoLiq	7.20	27.35	0.33
35.80	14.40	1.73	1.00	1.543	0.81	20.00	NoLiq	7.20	27.20	0.32
35.85	14.30	1.73	1.00	1.545	0.80	19.85	NoLiq	7.20	27.05	0.32
35.90	14.20	1.73	1.00	1.547	0.80	19.70	NoLiq	7.20	26.90	0.32
35.95	14.10	1.73	1.00	1.549	0.80	19.55	NoLiq	7.20	26.75	0.31
36.00	14.00	1.73	1.00	1.551	0.80	19.39	NoLiq	7.20	26.59	0.31
36.05	14.00	1.73	1.00	1.552	0.80	19.38	NoLiq	7.20	26.58	0.31
36.10	14.00	1.73	1.00	1.554	0.80	19.37	NoLiq	7.20	26.57	0.31
36.15	14.00	1.73	1.00	1.556	0.80	19.36	NoLiq	7.20	26.56	0.31
36.20	14.00	1.73	1.00	1.558	0.80	19.35	NoLiq	7.20	26.55	0.31
36.25	14.00	1.73	1.00	1.560	0.80	19.33	NoLiq	7.20	26.53	0.31
36.30	14.00	1.73	1.00	1.562	0.80	19.32	NoLiq	7.20	26.52	0.31
36.35	14.00	1.73	1.00	1.564	0.80	19.31	NoLiq	7.20	26.51	0.31
36.40	14.00	1.73	1.00	1.566	0.80	19.30	NoLiq	7.20	26.50	0.31
36.45	14.00	1.73	1.00	1.568	0.80	19.29	NoLiq	7.20	26.49	0.31
36.50	14.00	1.73	1.00	1.570	0.80	19.28	NoLiq	7.20	26.48	0.31
36.55	14.00	1.73	1.00	1.572	0.80	19.26	NoLiq	7.20	26.46	0.31
36.60	14.00	1.73	1.00	1.573	0.80	19.25	NoLiq	7.20	26.45	0.31
36.65	14.00	1.73	1.00	1.575	0.80	19.24	NoLiq	7.20	26.44	0.31
36.70	14.00	1.73	1.00	1.577	0.80	19.23	NoLiq	7.20	26.43	0.31
36.75	14.00	1.73	1.00	1.579	0.80	19.22	NoLiq	7.20	26.42	0.31
36.80	14.00	1.73	1.00	1.581	0.80	19.21	NoLiq	7.20	26.41	0.31
36.85	14.00	1.73	1.00	1.583	0.79	19.19	NoLiq	7.20	26.39	0.31
36.90	14.00	1.73	1.00	1.585	0.79	19.18	NoLiq	7.20	26.38	0.31
36.95	14.00	1.73	1.00	1.587	0.79	19.17	NoLiq	7.20	26.37	0.31
37.00	14.00	1.73	1.00	1.589	0.79	19.16	NoLiq	7.20	26.36	0.31
37.05	14.00	1.73	1.00	1.591	0.79	19.15	NoLiq	7.20	26.35	0.31
37.10	14.00	1.73	1.00	1.592	0.79	19.14	NoLiq	7.20	26.34	0.31
37.15	14.00	1.73	1.00	1.594	0.79	19.13	NoLiq	7.20	26.33	0.31
37.20	14.00	1.73	1.00	1.596	0.79	19.11	NoLiq	7.20	26.31	0.31
37.25	14.00	1.73	1.00	1.598	0.79	19.10	NoLiq	7.20	26.30	0.31
37.30	14.00	1.73	1.00	1.600	0.79	19.09	NoLiq	7.20	26.29	0.31
37.35	14.00	1.73	1.00	1.602	0.79	19.08	NoLiq	7.20	26.28	0.31
37.40	14.00	1.73	1.00	1.604	0.79	19.07	NoLiq	7.20	26.27	0.30
37.45	14.00	1.73	1.00	1.606	0.79	19.06	NoLiq	7.20	26.26	0.30
37.50	14.00	1.73	1.00	1.608	0.79	19.05	NoLiq	7.20	26.25	0.30
37.55	14.10	1.73	1.00	1.609	0.79	19.17	NoLiq	7.20	26.37	0.31
37.60	14.20	1.73	1.00	1.611	0.79	19.30	NoLiq	7.20	26.50	0.31
37.65	14.30	1.73	1.00	1.613	0.79	19.42	NoLiq	7.20	26.62	0.31
37.70	14.40	1.73	1.00	1.615	0.79	19.55	NoLiq	7.20	26.75	0.31
37.75	14.50	1.73	1.00	1.617	0.79	19.67	NoLiq	7.20	26.87	0.32
37.80	14.60	1.73	1.00	1.619	0.79	19.79	NoLiq	7.20	26.99	0.32
37.85	14.70	1.73	1.00	1.621	0.79	19.92	NoLiq	7.20	27.12	0.32
37.90	14.80	1.73	1.00	1.622	0.79	20.04	NoLiq	7.20	27.24	0.32
37.95	14.90	1.73	1.00	1.624	0.78	20.17	NoLiq	7.20	27.37	0.33
38.00	15.00	1.73	1.00	1.626	0.78	20.29	NoLiq	7.20	27.49	0.33
38.05	15.10	1.73	1.00	1.628	0.78	20.41	NoLiq	7.20	27.61	0.33

38.10	15.20	1.73	1.00	1.630	0.78	20.54	NoLiq	7.20	27.74	0.34
38.15	15.30	1.73	1.00	1.632	0.78	20.66	NoLiq	7.20	27.86	0.34
38.20	15.40	1.73	1.00	1.634	0.78	20.78	NoLiq	7.20	27.98	0.34
38.25	15.50	1.73	1.00	1.635	0.78	20.91	NoLiq	7.20	28.11	0.35
38.30	15.60	1.73	1.00	1.637	0.78	21.03	NoLiq	7.20	28.23	0.35
38.35	15.70	1.73	1.00	1.639	0.78	21.15	NoLiq	7.20	28.35	0.35
38.40	15.80	1.73	1.00	1.641	0.78	21.28	NoLiq	7.20	28.48	0.36
38.45	15.90	1.73	1.00	1.643	0.78	21.40	NoLiq	7.20	28.60	0.36
38.50	16.00	1.73	1.00	1.645	0.78	21.52	NoLiq	7.20	28.72	0.36
38.55	16.10	1.73	1.00	1.646	0.78	21.64	NoLiq	7.20	28.84	0.37
38.60	16.20	1.73	1.00	1.648	0.78	21.77	NoLiq	7.20	28.97	0.37
38.65	16.30	1.73	1.00	1.650	0.78	21.89	NoLiq	7.20	29.09	0.38
38.70	16.40	1.73	1.00	1.652	0.78	22.01	NoLiq	7.20	29.21	0.38
38.75	16.50	1.73	1.00	1.654	0.78	22.13	NoLiq	7.20	29.33	0.39
38.80	16.60	1.73	1.00	1.656	0.78	22.25	NoLiq	7.20	29.45	0.40
38.85	16.70	1.73	1.00	1.657	0.78	22.38	NoLiq	7.20	29.58	0.41
38.90	16.80	1.73	1.00	1.659	0.78	22.50	NoLiq	7.20	29.70	0.42
38.95	16.90	1.73	1.00	1.661	0.78	22.62	NoLiq	7.20	29.82	0.43
39.00	17.00	1.73	1.00	1.663	0.78	22.74	NoLiq	7.20	29.94	0.45
39.05	17.07	1.73	1.00	1.665	0.78	22.82	NoLiq	7.20	30.02	0.46
39.10	17.13	1.73	1.00	1.666	0.77	22.90	NoLiq	7.20	30.10	0.49
39.15	17.20	1.73	1.00	1.668	0.77	22.97	NoLiq	7.20	30.17	0.50
39.20	17.27	1.73	1.00	1.670	0.77	23.05	NoLiq	7.20	30.25	0.50
39.25	17.33	1.73	1.00	1.672	0.77	23.12	NoLiq	7.20	30.32	0.50
39.30	17.40	1.73	1.00	1.674	0.77	23.20	NoLiq	7.20	30.40	0.50
39.35	17.47	1.73	1.00	1.675	0.77	23.28	NoLiq	7.20	30.48	0.50
39.40	17.53	1.73	1.00	1.677	0.77	23.35	NoLiq	7.20	30.55	0.50
39.45	17.60	1.73	1.00	1.679	0.77	23.43	NoLiq	7.20	30.63	0.50
39.50	17.67	1.73	1.00	1.681	0.77	23.51	NoLiq	7.20	30.71	0.50
39.55	17.73	1.73	1.00	1.683	0.77	23.58	NoLiq	7.20	30.78	0.50
39.60	17.80	1.73	1.00	1.685	0.77	23.66	NoLiq	7.20	30.86	0.50
39.65	17.87	1.73	1.00	1.686	0.77	23.73	NoLiq	7.20	30.93	0.50
39.70	17.93	1.73	1.00	1.688	0.77	23.81	NoLiq	7.20	31.01	0.50
39.75	18.00	1.73	1.00	1.690	0.77	23.88	NoLiq	7.20	31.08	0.50
39.80	18.07	1.73	1.00	1.692	0.77	23.96	NoLiq	7.20	31.16	0.50
39.85	18.13	1.73	1.00	1.694	0.77	24.03	NoLiq	7.20	31.23	0.50
39.90	18.20	1.73	1.00	1.696	0.77	24.11	NoLiq	7.20	31.31	0.50
39.95	18.27	1.73	1.00	1.697	0.77	24.18	NoLiq	7.20	31.38	0.50
40.00	18.33	1.73	1.00	1.699	0.77	24.26	NoLiq	7.20	31.46	0.50
40.05	18.40	1.73	1.00	1.701	0.77	24.33	NoLiq	7.20	31.53	0.50
40.10	18.47	1.73	1.00	1.703	0.77	24.41	NoLiq	7.20	31.61	0.50
40.15	18.53	1.73	1.00	1.705	0.77	24.48	NoLiq	7.20	31.68	0.50
40.20	18.60	1.73	1.00	1.707	0.77	24.56	NoLiq	7.20	31.76	0.50
40.25	18.67	1.73	1.00	1.709	0.77	24.63	NoLiq	7.20	31.83	0.50
40.30	18.73	1.73	1.00	1.711	0.76	24.71	NoLiq	7.20	31.91	0.50
40.35	18.80	1.73	1.00	1.712	0.76	24.78	NoLiq	7.20	31.98	0.50
40.40	18.87	1.73	1.00	1.714	0.76	24.86	NoLiq	7.20	32.06	0.50
40.45	18.93	1.73	1.00	1.716	0.76	24.93	NoLiq	7.20	32.13	0.50
40.50	19.00	1.73	1.00	1.718	0.76	25.00	NoLiq	7.20	32.20	0.50
40.55	18.83	1.73	1.00	1.720	0.76	24.77	NoLiq	7.20	31.97	0.50
40.60	18.67	1.73	1.00	1.722	0.76	24.54	NoLiq	7.20	31.74	0.50
40.65	18.50	1.73	1.00	1.724	0.76	24.31	NoLiq	7.20	31.51	0.50
40.70	18.33	1.73	1.00	1.726	0.76	24.08	NoLiq	7.20	31.28	0.50
40.75	18.17	1.73	1.00	1.728	0.76	23.84	NoLiq	7.20	31.04	0.50
40.80	18.00	1.73	1.00	1.729	0.76	23.61	NoLiq	7.20	30.81	0.50
40.85	17.83	1.73	1.00	1.731	0.76	23.38	NoLiq	7.20	30.58	0.50
40.90	17.67	1.73	1.00	1.733	0.76	23.15	NoLiq	7.20	30.35	0.50
40.95	17.50	1.73	1.00	1.735	0.76	22.92	NoLiq	7.20	30.12	0.50
41.00	17.33	1.73	1.00	1.737	0.76	22.69	NoLiq	7.20	29.89	0.44
41.05	17.17	1.73	1.00	1.739	0.76	22.46	NoLiq	7.20	29.66	0.41
41.10	17.00	1.73	1.00	1.741	0.76	22.23	NoLiq	7.20	29.43	0.40
41.15	16.83	1.73	1.00	1.743	0.76	22.00	NoLiq	7.20	29.20	0.38
41.20	16.67	1.73	1.00	1.745	0.76	21.77	NoLiq	7.20	28.97	0.37
41.25	16.50	1.73	1.00	1.747	0.76	21.54	NoLiq	7.20	28.74	0.37
41.30	16.33	1.73	1.00	1.749	0.76	21.31	NoLiq	7.20	28.51	0.36
41.35	16.17	1.73	1.00	1.750	0.76	21.08	NoLiq	7.20	28.28	0.35
41.40	16.00	1.73	1.00	1.752	0.76	20.85	NoLiq	7.20	28.05	0.34
41.45	15.83	1.73	1.00	1.754	0.76	20.62	NoLiq	7.20	27.82	0.34
41.50	15.67	1.73	1.00	1.756	0.75	20.39	NoLiq	7.20	27.59	0.33

41.55	15.50	1.73	1.00	1.758	0.75	20.17	NoLiq	7.20	27.37	0.33
41.60	15.33	1.73	1.00	1.760	0.75	19.94	NoLiq	7.20	27.14	0.32
41.65	15.17	1.73	1.00	1.762	0.75	19.71	NoLiq	7.20	26.91	0.32
41.70	15.00	1.73	1.00	1.764	0.75	19.48	NoLiq	7.20	26.68	0.31
41.75	14.83	1.73	1.00	1.766	0.75	19.26	NoLiq	7.20	26.46	0.31
41.80	14.67	1.73	1.00	1.768	0.75	19.03	NoLiq	7.20	26.23	0.30
41.85	14.50	1.73	1.00	1.770	0.75	18.80	NoLiq	7.20	26.00	0.30
41.90	14.33	1.73	1.00	1.772	0.75	18.58	NoLiq	7.20	25.78	0.30
41.95	14.17	1.73	1.00	1.773	0.75	18.35	NoLiq	7.20	25.55	0.29
42.00	14.00	1.73	1.00	1.775	0.75	18.13	NoLiq	7.20	25.33	0.29
42.05	14.13	1.73	1.00	1.777	0.75	18.29	NoLiq	7.20	25.49	0.29
42.10	14.27	1.73	1.00	1.779	0.75	18.45	NoLiq	7.20	25.65	0.29
42.15	14.40	1.73	1.00	1.781	0.75	18.61	NoLiq	7.20	25.81	0.30
42.20	14.53	1.73	1.00	1.783	0.75	18.77	NoLiq	7.20	25.97	0.30
42.25	14.67	1.73	1.00	1.785	0.75	18.94	NoLiq	7.20	26.14	0.30
42.30	14.80	1.73	1.00	1.787	0.75	19.10	NoLiq	7.20	26.30	0.31
42.35	14.93	1.73	1.00	1.789	0.75	19.26	NoLiq	7.20	26.46	0.31
42.40	15.07	1.73	1.00	1.791	0.75	19.42	NoLiq	7.20	26.62	0.31
42.45	15.20	1.73	1.00	1.793	0.75	19.58	NoLiq	7.20	26.78	0.31
42.50	15.33	1.73	1.00	1.795	0.75	19.74	NoLiq	7.20	26.94	0.32
42.55	15.47	1.73	1.00	1.797	0.75	19.90	NoLiq	7.20	27.10	0.32
42.60	15.60	1.73	1.00	1.799	0.75	20.06	NoLiq	7.20	27.26	0.33
42.65	15.73	1.73	1.00	1.801	0.75	20.22	NoLiq	7.20	27.42	0.33
42.70	15.87	1.73	1.00	1.803	0.74	20.38	NoLiq	7.20	27.58	0.33
42.75	16.00	1.73	1.00	1.804	0.74	20.55	NoLiq	7.20	27.75	0.34
42.80	16.13	1.73	1.00	1.806	0.74	20.71	NoLiq	7.20	27.91	0.34
42.85	16.27	1.73	1.00	1.808	0.74	20.86	NoLiq	7.20	28.06	0.34
42.90	16.40	1.73	1.00	1.810	0.74	21.02	NoLiq	7.20	28.22	0.35
42.95	16.53	1.73	1.00	1.812	0.74	21.18	NoLiq	7.20	28.38	0.35
43.00	16.67	1.73	1.00	1.814	0.74	21.34	NoLiq	7.20	28.54	0.36
43.05	16.80	1.73	1.00	1.816	0.74	21.50	NoLiq	7.20	28.70	0.36
43.10	16.93	1.73	1.00	1.818	0.74	21.66	NoLiq	7.20	28.86	0.37
43.15	17.07	1.73	1.00	1.820	0.74	21.82	NoLiq	7.20	29.02	0.38
43.20	17.20	1.73	1.00	1.822	0.74	21.98	NoLiq	7.20	29.18	0.38
43.25	17.33	1.73	1.00	1.824	0.74	22.14	NoLiq	7.20	29.34	0.39
43.30	17.47	1.73	1.00	1.826	0.74	22.30	NoLiq	7.20	29.50	0.40
43.35	17.60	1.73	1.00	1.828	0.74	22.45	NoLiq	7.20	29.65	0.41
43.40	17.73	1.73	1.00	1.830	0.74	22.61	NoLiq	7.20	29.81	0.43
43.45	17.87	1.73	1.00	1.832	0.74	22.77	NoLiq	7.20	29.97	0.45
43.50	18.00	1.73	1.00	1.834	0.74	22.93	NoLiq	7.20	30.13	0.50
43.55	17.80	1.73	1.00	1.836	0.74	22.66	NoLiq	7.20	29.86	0.43
43.60	17.60	1.73	1.00	1.838	0.74	22.40	NoLiq	7.20	29.60	0.41
43.65	17.40	1.73	1.00	1.840	0.74	22.13	NoLiq	7.20	29.33	0.39
43.70	17.20	1.73	1.00	1.842	0.74	21.86	NoLiq	7.20	29.06	0.38
43.75	17.00	1.73	1.00	1.844	0.74	21.60	NoLiq	7.20	28.80	0.37
43.80	16.80	1.73	1.00	1.846	0.74	21.33	NoLiq	7.20	28.53	0.36
43.85	16.60	1.73	1.00	1.848	0.74	21.07	NoLiq	7.20	28.27	0.35
43.90	16.40	1.73	1.00	1.850	0.74	20.80	NoLiq	7.20	28.00	0.34
43.95	16.20	1.73	1.00	1.852	0.73	20.54	NoLiq	7.20	27.74	0.34
44.00	16.00	1.73	1.00	1.854	0.73	20.27	NoLiq	7.20	27.47	0.33
44.05	15.80	1.73	1.00	1.856	0.73	20.01	NoLiq	7.20	27.21	0.32
44.10	15.60	1.73	1.00	1.858	0.73	19.75	NoLiq	7.20	26.95	0.32
44.15	15.40	1.73	1.00	1.860	0.73	19.48	NoLiq	7.20	26.68	0.31
44.20	15.20	1.73	1.00	1.862	0.73	19.22	NoLiq	7.20	26.42	0.31
44.25	15.00	1.73	1.00	1.864	0.73	18.96	NoLiq	7.20	26.16	0.30
44.30	14.80	1.73	1.00	1.866	0.73	18.69	NoLiq	7.20	25.89	0.30
44.35	14.60	1.73	1.00	1.868	0.73	18.43	NoLiq	7.20	25.63	0.29
44.40	14.40	1.73	1.00	1.870	0.73	18.17	NoLiq	7.20	25.37	0.29
44.45	14.20	1.73	1.00	1.872	0.73	17.91	NoLiq	7.20	25.11	0.28
44.50	14.00	1.73	1.00	1.874	0.73	17.64	NoLiq	7.20	24.84	0.28
44.55	13.80	1.73	1.00	1.876	0.73	17.38	NoLiq	7.20	24.58	0.28
44.60	13.60	1.73	1.00	1.878	0.73	17.12	NoLiq	7.20	24.32	0.27
44.65	13.40	1.73	1.00	1.880	0.73	16.86	NoLiq	7.20	24.06	0.27
44.70	13.20	1.73	1.00	1.882	0.73	16.60	NoLiq	7.20	23.80	0.26
44.75	13.00	1.73	1.00	1.884	0.73	16.34	NoLiq	7.20	23.54	0.26
44.80	12.80	1.73	1.00	1.886	0.73	16.08	NoLiq	7.20	23.28	0.26
44.85	12.60	1.73	1.00	1.888	0.73	15.82	NoLiq	7.20	23.02	0.25
44.90	12.40	1.73	1.00	1.890	0.73	15.56	NoLiq	7.20	22.76	0.25
44.95	12.20	1.73	1.00	1.892	0.73	15.30	NoLiq	7.20	22.50	0.25

45.00	12.00	1.73	1.00	1.894	0.73	15.04	NoLiq	7.20	22.24	0.24
45.05	12.13	1.73	1.00	1.896	0.73	15.20	NoLiq	7.20	22.40	0.25
45.10	12.27	1.73	1.00	1.898	0.73	15.36	NoLiq	7.20	22.56	0.25
45.15	12.40	1.73	1.00	1.900	0.73	15.52	NoLiq	7.20	22.72	0.25
45.20	12.53	1.73	1.00	1.902	0.73	15.67	NoLiq	7.20	22.87	0.25
45.25	12.67	1.73	1.00	1.904	0.72	15.83	NoLiq	7.20	23.03	0.25
45.30	12.80	1.73	1.00	1.906	0.72	15.99	NoLiq	7.20	23.19	0.26
45.35	12.93	1.73	1.00	1.908	0.72	16.15	NoLiq	7.20	23.35	0.26
45.40	13.07	1.73	1.00	1.910	0.72	16.31	NoLiq	7.20	23.51	0.26
45.45	13.20	1.73	1.00	1.912	0.72	16.46	NoLiq	7.20	23.66	0.26
45.50	13.33	1.73	1.00	1.914	0.72	16.62	NoLiq	7.20	23.82	0.26
45.55	13.47	1.73	1.00	1.916	0.72	16.78	NoLiq	7.20	23.98	0.27
45.60	13.60	1.73	1.00	1.918	0.72	16.94	NoLiq	7.20	24.14	0.27
45.65	13.73	1.73	1.00	1.921	0.72	17.09	NoLiq	7.20	24.29	0.27
45.70	13.87	1.73	1.00	1.923	0.72	17.25	NoLiq	7.20	24.45	0.27
45.75	14.00	1.73	1.00	1.925	0.72	17.41	NoLiq	7.20	24.61	0.28
45.80	14.13	1.73	1.00	1.927	0.72	17.56	NoLiq	7.20	24.76	0.28
45.85	14.27	1.73	1.00	1.929	0.72	17.72	NoLiq	7.20	24.92	0.28
45.90	14.40	1.73	1.00	1.931	0.72	17.88	NoLiq	7.20	25.08	0.28
45.95	14.53	1.73	1.00	1.933	0.72	18.03	NoLiq	7.20	25.23	0.29
46.00	14.67	1.73	1.00	1.935	0.72	18.19	NoLiq	7.20	25.39	0.29
46.05	14.80	1.73	1.00	1.937	0.72	18.34	NoLiq	7.20	25.54	0.29
46.10	14.93	1.73	1.00	1.939	0.72	18.50	NoLiq	7.20	25.70	0.29
46.15	15.07	1.73	1.00	1.941	0.72	18.65	NoLiq	7.20	25.85	0.30
46.20	15.20	1.73	1.00	1.943	0.72	18.81	NoLiq	7.20	26.01	0.30
46.25	15.33	1.73	1.00	1.945	0.72	18.97	NoLiq	7.20	26.17	0.30
46.30	15.47	1.73	1.00	1.947	0.72	19.12	NoLiq	7.20	26.32	0.31
46.35	15.60	1.73	1.00	1.949	0.72	19.28	NoLiq	7.20	26.48	0.31
46.40	15.73	1.73	1.00	1.951	0.72	19.43	NoLiq	7.20	26.63	0.31
46.45	15.87	1.73	1.00	1.953	0.72	19.58	NoLiq	7.20	26.78	0.31
46.50	16.00	1.73	1.00	1.955	0.72	19.74	NoLiq	7.20	26.94	0.32
46.55	15.97	1.73	1.00	1.957	0.71	19.69	NoLiq	7.20	26.89	0.32
46.60	15.93	1.73	1.00	1.959	0.71	19.64	NoLiq	7.20	26.84	0.32
46.65	15.90	1.73	1.00	1.961	0.71	19.59	NoLiq	7.20	26.79	0.32
46.70	15.87	1.73	1.00	1.963	0.71	19.54	NoLiq	7.20	26.74	0.31
46.75	15.83	1.73	1.00	1.965	0.71	19.48	NoLiq	7.20	26.68	0.31
46.80	15.80	1.73	1.00	1.967	0.71	19.43	NoLiq	7.20	26.63	0.31
46.85	15.77	1.73	1.00	1.969	0.71	19.38	NoLiq	7.20	26.58	0.31
46.90	15.73	1.73	1.00	1.971	0.71	19.33	NoLiq	7.20	26.53	0.31
46.95	15.70	1.73	1.00	1.973	0.71	19.28	NoLiq	7.20	26.48	0.31
47.00	15.67	1.73	1.00	1.975	0.71	19.23	NoLiq	7.20	26.43	0.31
47.05	15.63	1.73	1.00	1.977	0.71	19.18	NoLiq	7.20	26.38	0.31
47.10	15.60	1.73	1.00	1.979	0.71	19.13	NoLiq	7.20	26.33	0.31
47.15	15.57	1.73	1.00	1.981	0.71	19.08	NoLiq	7.20	26.28	0.30
47.20	15.53	1.73	1.00	1.983	0.71	19.03	NoLiq	7.20	26.23	0.30
47.25	15.50	1.73	1.00	1.986	0.71	18.98	NoLiq	7.20	26.18	0.30
47.30	15.47	1.73	1.00	1.988	0.71	18.92	NoLiq	7.20	26.12	0.30
47.35	15.43	1.73	1.00	1.990	0.71	18.87	NoLiq	7.20	26.07	0.30
47.40	15.40	1.73	1.00	1.992	0.71	18.82	NoLiq	7.20	26.02	0.30
47.45	15.37	1.73	1.00	1.994	0.71	18.77	NoLiq	7.20	25.97	0.30
47.50	15.33	1.73	1.00	1.996	0.71	18.72	NoLiq	7.20	25.92	0.30
47.55	15.30	1.73	1.00	1.998	0.71	18.67	NoLiq	7.20	25.87	0.30
47.60	15.27	1.73	1.00	2.000	0.71	18.62	NoLiq	7.20	25.82	0.30
47.65	15.23	1.73	1.00	2.002	0.71	18.57	NoLiq	7.20	25.77	0.30
47.70	15.20	1.73	1.00	2.004	0.71	18.52	NoLiq	7.20	25.72	0.29
47.75	15.17	1.73	1.00	2.007	0.71	18.47	NoLiq	7.20	25.67	0.29
47.80	15.13	1.73	1.00	2.009	0.71	18.42	NoLiq	7.20	25.62	0.29
47.85	15.10	1.73	1.00	2.011	0.71	18.37	NoLiq	7.20	25.57	0.29
47.90	15.07	1.73	1.00	2.013	0.70	18.32	NoLiq	7.20	25.52	0.29
47.95	15.03	1.73	1.00	2.015	0.70	18.27	NoLiq	7.20	25.47	0.29
48.00	15.00	1.73	1.00	2.017	0.70	18.22	NoLiq	7.20	25.42	0.29
48.05	15.36	1.73	1.00	2.019	0.70	18.65	36.83	7.20	25.85	0.30
48.10	15.73	1.73	1.00	2.022	0.70	19.08	36.67	7.20	26.28	0.31
48.15	16.10	1.73	1.00	2.024	0.70	19.52	36.50	7.20	26.72	0.31
48.20	16.46	1.73	1.00	2.026	0.70	19.95	36.33	7.20	27.15	0.32
48.25	16.83	1.73	1.00	2.028	0.70	20.39	36.17	7.20	27.59	0.33
48.30	17.20	1.73	1.00	2.030	0.70	20.82	36.00	7.20	28.02	0.34
48.35	17.56	1.73	1.00	2.032	0.70	21.25	35.83	7.20	28.45	0.36
48.40	17.93	1.73	1.00	2.035	0.70	21.68	35.67	7.20	28.88	0.37

48.45	18.30	1.73	1.00	2.037	0.70	22.12	35.50	7.20	29.32	0.39
48.50	18.66	1.73	1.00	2.039	0.70	22.55	35.33	7.20	29.75	0.42
48.55	19.03	1.73	1.00	2.041	0.70	22.98	35.17	7.20	30.18	0.50
48.60	19.40	1.73	1.00	2.043	0.70	23.41	35.00	7.20	30.61	0.50
48.65	19.76	1.73	1.00	2.046	0.70	23.84	34.83	7.16	31.00	0.50
48.70	20.13	1.73	1.00	2.048	0.70	24.27	34.67	7.12	31.39	0.50
48.75	20.50	1.73	1.00	2.050	0.70	24.69	34.50	7.08	31.77	0.50
48.80	20.86	1.73	1.00	2.052	0.70	25.12	34.33	7.04	32.16	0.50
48.85	21.23	1.73	1.00	2.054	0.70	25.55	34.17	7.00	32.55	0.50
48.90	21.60	1.73	1.00	2.057	0.70	25.98	34.00	6.96	32.94	0.50
48.95	21.96	1.73	1.00	2.059	0.70	26.40	33.83	6.92	33.32	0.50
49.00	22.33	1.73	1.00	2.061	0.70	26.83	33.67	6.88	33.71	0.50
49.05	22.70	1.73	1.00	2.063	0.70	27.26	33.50	6.84	34.10	0.50
49.10	23.06	1.73	1.00	2.066	0.70	27.68	33.33	6.80	34.48	0.50
49.15	23.43	1.73	1.00	2.068	0.70	28.11	33.17	6.76	34.87	0.50
49.20	23.80	1.73	1.00	2.070	0.70	28.53	33.00	6.72	35.25	0.50
49.25	24.16	1.73	1.00	2.072	0.69	28.96	32.83	6.68	35.64	0.50
49.30	24.53	1.73	1.00	2.074	0.69	29.38	32.67	6.64	36.02	0.50
49.35	24.90	1.73	1.00	2.077	0.69	29.80	32.50	6.60	36.40	0.50
49.40	25.26	1.73	1.00	2.079	0.69	30.22	32.33	6.56	36.78	0.50
49.45	25.63	1.73	1.00	2.081	0.69	30.65	32.17	6.52	37.17	0.50
49.50	26.00	1.73	1.00	2.084	0.69	31.07	32.00	6.48	37.55	0.50
49.55	26.00	1.73	1.00	2.086	0.69	31.05	32.00	6.48	37.53	0.50
49.60	26.00	1.73	1.00	2.088	0.69	31.04	32.00	6.48	37.52	0.50
49.65	26.00	1.73	1.00	2.090	0.69	31.02	32.00	6.48	37.50	0.50
49.70	26.00	1.73	1.00	2.093	0.69	31.00	32.00	6.48	37.48	0.50
49.75	26.00	1.73	1.00	2.095	0.69	30.99	32.00	6.48	37.47	0.50
49.80	26.00	1.73	1.00	2.097	0.69	30.97	32.00	6.48	37.45	0.50
49.85	26.00	1.73	1.00	2.099	0.69	30.95	32.00	6.48	37.43	0.50
49.90	26.00	1.73	1.00	2.102	0.69	30.94	32.00	6.48	37.42	0.50
49.95	26.00	1.73	1.00	2.104	0.69	30.92	32.00	6.48	37.40	0.50
50.00	26.00	1.73	1.00	2.106	0.69	30.90	32.00	6.48	37.38	0.50

CRR is based on water table at 100.00 during In-Situ Testing

Factor of Safety, - Earthquake Magnitude= 7.80:

Depth ft	sigC' atm	CRR7.5	x Ksig	=CRRv	x MSF	=CRRm	CSRfs	F.S.=CRRm/CSRfs
1.50	0.04	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
1.55	0.04	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
1.60	0.04	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
1.65	0.04	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
1.70	0.04	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
1.75	0.04	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
1.80	0.04	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
1.85	0.05	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
1.90	0.05	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
1.95	0.05	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.00	0.05	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.05	0.05	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.10	0.05	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.15	0.05	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.20	0.05	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.25	0.06	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.30	0.06	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.35	0.06	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.40	0.06	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.45	0.06	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.50	0.06	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.55	0.06	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.60	0.06	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.65	0.07	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.70	0.07	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.75	0.07	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.80	0.07	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.85	0.07	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.90	0.07	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^
2.95	0.07	0.50	1.00	0.50	0.90	2.00	0.51	5.00 ^

[illegible]

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[illegible]

[illegible]

30.60	0.87	0.50	1.00	0.50	0.90	2.00	0.47	5.00	^
30.65	0.87	0.50	1.00	0.50	0.90	2.00	0.47	5.00	^
30.70	0.87	0.50	1.00	0.50	0.90	2.00	0.47	5.00	^
30.75	0.87	0.50	1.00	0.50	0.90	2.00	0.47	5.00	^
30.80	0.88	0.50	1.00	0.50	0.90	2.00	0.47	5.00	^
30.85	0.88	0.50	1.00	0.50	0.90	2.00	0.47	5.00	^
30.90	0.88	0.50	1.00	0.50	0.90	2.00	0.47	5.00	^
30.95	0.88	0.50	1.00	0.50	0.90	2.00	0.47	5.00	^
31.00	0.88	0.50	1.00	0.50	0.90	2.00	0.47	5.00	^
31.05	0.88	0.50	1.00	0.50	0.90	2.00	0.47	5.00	^
31.10	0.88	0.50	1.00	0.50	0.90	2.00	0.47	5.00	^
31.15	0.88	0.48	1.00	0.48	0.90	2.00	0.47	5.00	^
31.20	0.89	0.45	1.00	0.45	0.90	2.00	0.47	5.00	^
31.25	0.89	0.43	1.00	0.43	0.90	2.00	0.47	5.00	^
31.30	0.89	0.42	1.00	0.42	0.90	2.00	0.47	5.00	^
31.35	0.89	0.41	1.00	0.41	0.90	2.00	0.47	5.00	^
31.40	0.89	0.40	1.00	0.40	0.90	2.00	0.47	5.00	^
31.45	0.89	0.39	1.00	0.39	0.90	2.00	0.47	5.00	^
31.50	0.89	0.39	1.00	0.39	0.90	2.00	0.47	5.00	^
31.55	0.89	0.39	1.00	0.39	0.90	2.00	0.47	5.00	^
31.60	0.90	0.39	1.00	0.39	0.90	2.00	0.47	5.00	^
31.65	0.90	0.39	1.00	0.39	0.90	2.00	0.47	5.00	^
31.70	0.90	0.39	1.00	0.39	0.90	2.00	0.47	5.00	^
31.75	0.90	0.40	1.00	0.40	0.90	2.00	0.47	5.00	^
31.80	0.90	0.40	1.00	0.40	0.90	2.00	0.47	5.00	^
31.85	0.90	0.40	1.00	0.40	0.90	2.00	0.47	5.00	^
31.90	0.90	0.40	1.00	0.40	0.90	2.00	0.47	5.00	^
31.95	0.91	0.40	1.00	0.40	0.90	2.00	0.47	5.00	^
32.00	0.91	0.41	1.00	0.41	0.90	2.00	0.47	5.00	^
32.05	0.91	0.41	1.00	0.41	0.90	2.00	0.47	5.00	^
32.10	0.91	0.41	1.00	0.41	0.90	2.00	0.47	5.00	^
32.15	0.91	0.42	1.00	0.42	0.90	2.00	0.47	5.00	^
32.20	0.91	0.42	1.00	0.42	0.90	2.00	0.47	5.00	^
32.25	0.91	0.42	1.00	0.42	0.90	2.00	0.47	5.00	^
32.30	0.91	0.43	1.00	0.43	0.90	2.00	0.47	5.00	^
32.35	0.92	0.43	1.00	0.43	0.90	2.00	0.46	5.00	^
32.40	0.92	0.43	1.00	0.43	0.90	2.00	0.46	5.00	^
32.45	0.92	0.44	1.00	0.44	0.90	2.00	0.46	5.00	^
32.50	0.92	0.44	1.00	0.44	0.90	2.00	0.46	5.00	^
32.55	0.92	0.45	1.00	0.45	0.90	2.00	0.46	5.00	^
32.60	0.92	0.46	1.00	0.46	0.90	2.00	0.46	5.00	^
32.65	0.92	0.46	1.00	0.46	0.90	2.00	0.46	5.00	^
32.70	0.92	0.47	1.00	0.47	0.90	2.00	0.46	5.00	^
32.75	0.93	0.48	1.00	0.48	0.90	2.00	0.46	5.00	^
32.80	0.93	0.50	1.00	0.50</					

34.05	0.96	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.10	0.96	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.15	0.96	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.20	0.96	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.25	0.96	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.30	0.96	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.35	0.97	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.40	0.97	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.45	0.97	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.50	0.97	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.55	0.97	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.60	0.97	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.65	0.97	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.70	0.97	0.50	1.00	0.50	0.90	2.00	0.46	5.00	^
34.75	0.98	0.50	1.00	0.50	0.90	2.00	0.45	5.00	^
34.80	0.98	0.50	1.00	0.50	0.90	2.00	0.45	5.00	^
34.85	0.98	0.49	1.00	0.49	0.90	2.00	0.45	5.00	^
34.90	0.98	0.45	1.00	0.45	0.90	2.00	0.45	5.00	^
34.95	0.98	0.43	1.00	0.43	0.90	2.00	0.45	5.00	^
35.00	0.98	0.41	1.00	0.41	0.90	2.00	0.45	5.00	^
35.05	0.98	0.40	1.00	0.40	0.90	2.00	0.45	5.00	^
35.10	0.99	0.39	1.00	0.39	0.90	2.00	0.45	5.00	^
35.15	0.99	0.38	1.00	0.38	0.90	2.00	0.45	5.00	^
35.20	0.99	0.38	1.00	0.38	0.90	2.00	0.45	5.00	^
35.25	0.99	0.37	1.00	0.37	0.90	2.00	0.45	5.00	^
35.30	0.99	0.36	1.00	0.36	0.90	2.00	0.45	5.00	^
35.35	0.99	0.36	1.00	0.36	0.90	2.00	0.45	5.00	^
35.40	0.99	0.35	1.00	0.35	0.90	2.00	0.45	5.00	^
35.45	0.99	0.35	1.00	0.35	0.90	2.00	0.45	5.00	^
35.50	1.00	0.35	1.00	0.35	0.90	2.00	0.45	5.00	^
35.55	1.00	0.34	1.00	0.34	0.90	2.00	0.45	5.00	^
35.60	1.00	0.34	1.00	0.34	0.90	2.00	0.45	5.00	^
35.65	1.00	0.33	1.00	0.33	0.90	2.00	0.45	5.00	^
35.70	1.00	0.33	1.01	0.33	0.90	2.00	0.45	5.00	^
35.75	1.00	0.33	1.01	0.33	0.90	2.00	0.45	5.00	^
35.80	1.00	0.32	1.01	0.33	0.90	2.00	0.45	5.00	^
35.85	1.00	0.32	1.01	0.32	0.90	2.00	0.45	5.00	^
35.90	1.01	0.32	1.01	0.32	0.90	2.00	0.45	5.00	^
35.95	1.01	0.31	1.01	0.32	0.90	2.00	0.45	5.00	^
36.00	1.01	0.31	1.00	0.31	0.90	2.00	0.45	5.00	^
36.05	1.01	0.31	1.00	0.31	0.90	2.00	0.45	5.00	^
36.10	1.01	0.31	1.00	0.31	0.90	2.00	0.45	5.00	^
36.15	1.01	0.31	1.00	0.31	0.90	2.00	0.45	5.00	^
36.20	1.01	0.31	1.00	0.31	0.90	2.00	0.45	5.00	^
36.25	1.01	0.31	1.00	0.31</					

37.50	1.04	0.30	1.00	0.30	0.90	2.00	0.44	5.00	^
37.55	1.05	0.31	1.00	0.31	0.90	2.00	0.44	5.00	^
37.60	1.05	0.31	1.00	0.31	0.90	2.00	0.44	5.00	^
37.65	1.05	0.31	1.00	0.31	0.90	2.00	0.44	5.00	^
37.70	1.05	0.31	1.00	0.31	0.90	2.00	0.44	5.00	^
37.75	1.05	0.32	1.00	0.32	0.90	2.00	0.44	5.00	^
37.80	1.05	0.32	1.00	0.32	0.90	2.00	0.44	5.00	^
37.85	1.05	0.32	1.00	0.32	0.90	2.00	0.44	5.00	^
37.90	1.05	0.32	1.00	0.32	0.90	2.00	0.44	5.00	^
37.95	1.06	0.33	1.00	0.33	0.90	2.00	0.44	5.00	^
38.00	1.06	0.33	1.00	0.33	0.90	2.00	0.44	5.00	^
38.05	1.06	0.33	1.00	0.33	0.90	2.00	0.44	5.00	^
38.10	1.06	0.34	1.00	0.34	0.90	2.00	0.44	5.00	^
38.15	1.06	0.34	1.00	0.34	0.90	2.00	0.44	5.00	^
38.20	1.06	0.34	1.00	0.34	0.90	2.00	0.44	5.00	^
38.25	1.06	0.35	1.00	0.34	0.90	2.00	0.44	5.00	^
38.30	1.06	0.35	1.00	0.35	0.90	2.00	0.44	5.00	^
38.35	1.07	0.35	1.00	0.35	0.90	2.00	0.44	5.00	^
38.40	1.07	0.36	1.00	0.35	0.90	2.00	0.44	5.00	^
38.45	1.07	0.36	1.00	0.36	0.90	2.00	0.44	5.00	^
38.50	1.07	0.36	1.00	0.36	0.90	2.00	0.44	5.00	^
38.55	1.07	0.37	1.00	0.37	0.90	2.00	0.44	5.00	^
38.60	1.07	0.37	0.99	0.37	0.90	2.00	0.44	5.00	^
38.65	1.07	0.38	0.99	0.38	0.90	2.00	0.44	5.00	^
38.70	1.07	0.38	0.99	0.38	0.90	2.00	0.44	5.00	^
38.75	1.07	0.39	0.99	0.39	0.90	2.00	0.44	5.00	^
38.80	1.08	0.40	0.99	0.40	0.90	2.00	0.44	5.00	^
38.85	1.08	0.41	0.99	0.40	0.90	2.00	0.44	5.00	^
38.90	1.08	0.42	0.99	0.41	0.90	2.00	0.44	5.00	^
38.95	1.08	0.43	0.99	0.43	0.90	2.00	0.44	5.00	^
39.00	1.08	0.45	0.99	0.44	0.90	2.00	0.44	5.00	^
39.05	1.08	0.46	0.99	0.46	0.90	2.00	0.44	5.00	^
39.10	1.08	0.49	0.99	0.48	0.90	2.00	0.44	5.00	^
39.15	1.08	0.50	0.99	0.50	0.90	2.00	0.44	5.00	^
39.20	1.09	0.50	0.99	0.50	0.90	2.00	0.44	5.00	^
39.25	1.09	0.50	0.99	0.50	0.90	2.00	0.44	5.00	^
39.30	1.09	0.50	0.99	0.50	0.90	2.00	0.44	5.00	^
39.35	1.09	0.50	0.99	0.50	0.90	2.00	0.44	5.00	^
39.40	1.09	0.50	0.99	0.50	0.90	2.00	0.44	5.00	^
39.45	1.09	0.50	0.99	0.50	0.90	2.00	0.44	5.00	^
39.50	1.09	0.50	0.99	0.50	0.90	2.00	0.44	5.00	^
39.55	1.09	0.50	0.99	0.50	0.90	2.00	0.43	5.00	^
39.60	1.09	0.50	0.99	0.50	0.90	2.00	0.43	5.00	^
39.65	1.10	0.50	0.99	0.50	0.90	2.00	0.43	5.00	^
39.70	1.10	0.50	0.99	0.50</					

40.95	1.13	0.50	0.99	0.49	0.90	2.00	0.43	5.00	^
41.00	1.13	0.44	0.99	0.43	0.90	2.00	0.43	5.00	^
41.05	1.13	0.41	0.99	0.41	0.90	2.00	0.43	5.00	^
41.10	1.13	0.40	0.99	0.39	0.90	2.00	0.43	5.00	^
41.15	1.13	0.38	0.99	0.38	0.90	2.00	0.43	5.00	^
41.20	1.13	0.37	0.99	0.37	0.90	2.00	0.43	5.00	^
41.25	1.14	0.37	0.99	0.36	0.90	2.00	0.43	5.00	^
41.30	1.14	0.36	0.98	0.35	0.90	2.00	0.43	5.00	^
41.35	1.14	0.35	0.98	0.35	0.90	2.00	0.43	5.00	^
41.40	1.14	0.34	0.98	0.34	0.90	2.00	0.43	5.00	^
41.45	1.14	0.34	0.98	0.33	0.90	2.00	0.43	5.00	^
41.50	1.14	0.33	0.98	0.33	0.90	2.00	0.43	5.00	^
41.55	1.14	0.33	0.98	0.32	0.90	2.00	0.43	5.00	^
41.60	1.14	0.32	0.98	0.32	0.90	2.00	0.43	5.00	^
41.65	1.15	0.32	0.98	0.31	0.90	2.00	0.43	5.00	^
41.70	1.15	0.31	0.98	0.31	0.90	2.00	0.43	5.00	^
41.75	1.15	0.31	0.98	0.30	0.90	2.00	0.43	5.00	^
41.80	1.15	0.30	0.98	0.30	0.90	2.00	0.43	5.00	^
41.85	1.15	0.30	0.98	0.29	0.90	2.00	0.43	5.00	^
41.90	1.15	0.30	0.98	0.29	0.90	2.00	0.43	5.00	^
41.95	1.15	0.29	0.98	0.29	0.90	2.00	0.42	5.00	^
42.00	1.15	0.29	0.98	0.28	0.90	2.00	0.42	5.00	^
42.05	1.16	0.29	0.98	0.29	0.90	2.00	0.42	5.00	^
42.10	1.16	0.29	0.98	0.29	0.90	2.00	0.42	5.00	^
42.15	1.16	0.30	0.98	0.29	0.90	2.00	0.42	5.00	^
42.20	1.16	0.30	0.98	0.29	0.90	2.00	0.42	5.00	^
42.25	1.16	0.30	0.98	0.30	0.90	2.00	0.42	5.00	^
42.30	1.16	0.31	0.98	0.30	0.90	2.00	0.42	5.00	^
42.35	1.16	0.31	0.98	0.30	0.90	2.00	0.42	5.00	^
42.40	1.16	0.31	0.98	0.31	0.90	2.00	0.42	5.00	^
42.45	1.17	0.31	0.98	0.31	0.90	2.00	0.42	5.00	^
42.50	1.17	0.32	0.98	0.31	0.90	2.00	0.42	5.00	^
42.55	1.17	0.32	0.98	0.32	0.90	2.00	0.42	5.00	^
42.60	1.17	0.33	0.98	0.32	0.90	2.00	0.42	5.00	^
42.65	1.17	0.33	0.98	0.32	0.90	2.00	0.42	5.00	^
42.70	1.17	0.33	0.98	0.33	0.90	2.00	0.42	5.00	^
42.75	1.17	0.34	0.98	0.33	0.90	2.00	0.42	5.00	^
42.80	1.17	0.34	0.98	0.33	0.90	2.00	0.42	5.00	^
42.85	1.18	0.34	0.98	0.34	0.90	2.00	0.42	5.00	^
42.90	1.18	0.35	0.98	0.34	0.90	2.00	0.42	5.00	^
42.95	1.18	0.35	0.98	0.35	0.90	2.00	0.42	5.00	^
43.00	1.18	0.36	0.98	0.35	0.90	2.00	0.42	5.00	^
43.05	1.18	0.36	0.98	0.36	0.90	2.00	0.42	5.00	^
43.10	1.18	0.37	0.98	0.36	0.90	2.00	0.42	5.00	^
43.15	1.18	0.38	0.98	0.37	0.90	2.00	0.42	5.00	^
43.20	1.18	0.38	0.98	0.37	0.90	2.00	0.42	5.00	^
43.25	1.19	0.39	0.98	0.38	0.90	2.00	0.42	5.00	^
43.30	1.19	0.40	0.98	0.39	0.90	2.00	0.42	5.00	^
43.35	1.19	0.41	0.98	0.40	0.90	2.00	0.42	5.00	^
43.40	1.19	0.43	0.98	0.42	0.90	2.00	0.42	5.00	^
43.45	1.19	0.45	0.98	0.44	0.90	2.00	0.42	5.00	^
43.50	1.19	0.50	0.98	0.49	0.90	2.00	0.42	5.00	^
43.55	1.19	0.43	0.98	0.42	0.90	2.00	0.42	5.00	^
43.60	1.19	0.41	0.98	0.40	0.90	2.00	0.42	5.00	^
43.65	1.20	0.39	0.98	0.38	0.90	2.00	0.42	5.00	^
43.70	1.20	0.38	0.98	0.37	0.90	2.00	0.42	5.00	^
43.75	1.20	0.37	0.98	0.36	0.90	2.00	0.42	5.00	^
43.80	1.20	0.36	0.98	0.35	0.90	2.00	0.42	5.00	^
43.85	1.20	0.35	0.98	0.34	0.90	2.00	0.42	5.00	^
43.90	1.20	0.34	0.97	0.33	0.90	2.00	0.42	5.00	^
43.95	1.20	0.34	0.97	0.33	0.90	2.00	0.42	5.00	^
44.00	1.20	0.33	0.97	0.32	0.90	2.00	0.42	5.00	^
44.05	1.21	0.32	0.97	0.32	0.90	2.00	0.42	5.00	^
44.10	1.21	0.32	0.97	0.31	0.90	2.00	0.42	5.00	^
44.15	1.21	0.31	0.97	0.30	0.90	2.00	0.42	5.00	^
44.20	1.21	0.31	0.97	0.30	0.90	2.00	0.42	5.00	^
44.25	1.21	0.30	0.97	0.29	0.90	2.00	0.42	5.00	^
44.30	1.21	0.30	0.97	0.29	0.90	2.00	0.42	5.00	^
44.35	1.21	0.29	0.97	0.29	0.90	2.00	0.41	5.00	^

44.40	1.22	0.29	0.97	0.28	0.90	2.00	0.41	5.00
44.45	1.22	0.28	0.97	0.28	0.90	2.00	0.41	5.00
44.50	1.22	0.28	0.97	0.27	0.90	2.00	0.41	5.00
44.55	1.22	0.28	0.97	0.27	0.90	2.00	0.41	5.00
44.60	1.22	0.27	0.97	0.26	0.90	2.00	0.41	5.00
44.65	1.22	0.27	0.97	0.26	0.90	2.00	0.41	5.00
44.70	1.22	0.26	0.97	0.26	0.90	2.00	0.41	5.00
44.75	1.22	0.26	0.97	0.25	0.90	2.00	0.41	5.00
44.80	1.23	0.26	0.97	0.25	0.90	2.00	0.41	5.00
44.85	1.23	0.25	0.97	0.25	0.90	2.00	0.41	5.00
44.90	1.23	0.25	0.97	0.24	0.90	2.00	0.41	5.00
44.95	1.23	0.25	0.97	0.24	0.90	2.00	0.41	5.00
45.00	1.23	0.24	0.97	0.24	0.90	2.00	0.41	5.00
45.05	1.23	0.25	0.97	0.24	0.90	2.00	0.41	5.00
45.10	1.23	0.25	0.97	0.24	0.90	2.00	0.41	5.00
45.15	1.24	0.25	0.97	0.24	0.90	2.00	0.41	5.00
45.20	1.24	0.25	0.97	0.24	0.90	2.00	0.41	5.00
45.25	1.24	0.25	0.97	0.25	0.90	2.00	0.41	5.00
45.30	1.24	0.26	0.97	0.25	0.90	2.00	0.41	5.00
45.35	1.24	0.26	0.97	0.25	0.90	2.00	0.41	5.00
45.40	1.24	0.26	0.97	0.25	0.90	2.00	0.41	5.00
45.45	1.24	0.26	0.97	0.25	0.90	2.00	0.41	5.00
45.50	1.24	0.26	0.97	0.26	0.90	2.00	0.41	5.00
45.55	1.25	0.27	0.97	0.26	0.90	2.00	0.41	5.00
45.60	1.25	0.27	0.97	0.26	0.90	2.00	0.41	5.00
45.65	1.25	0.27	0.97	0.26	0.90	2.00	0.41	5.00
45.70	1.25	0.27	0.97	0.27	0.90	2.00	0.41	5.00
45.75	1.25	0.28	0.97	0.27	0.90	2.00	0.41	5.00
45.80	1.25	0.28	0.97	0.27	0.90	2.00	0.41	5.00
45.85	1.25	0.28	0.97	0.27	0.90	2.00	0.41	5.00
45.90	1.25	0.28	0.97	0.27	0.90	2.00	0.41	5.00
45.95	1.26	0.29	0.97	0.28	0.90	2.00	0.41	5.00
46.00	1.26	0.29	0.97	0.28	0.90	2.00	0.41	5.00
46.05	1.26	0.29	0.97	0.28	0.90	2.00	0.41	5.00
46.10	1.26	0.29	0.97	0.28	0.90	2.00	0.41	5.00
46.15	1.26	0.30	0.97	0.29	0.90	2.00	0.41	5.00
46.20	1.26	0.30	0.97	0.29	0.90	2.00	0.41	5.00
46.25	1.26	0.30	0.97	0.29	0.90	2.00	0.41	5.00
46.30	1.27	0.31	0.97	0.30	0.90	2.00	0.41	5.00
46.35	1.27	0.31	0.97	0.30	0.90	2.00	0.41	5.00
46.40	1.27	0.31	0.97	0.30	0.90	2.00	0.41	5.00
46.45	1.27	0.31	0.97	0.30	0.90	2.00	0.41	5.00
46.50	1.27	0.32	0.96	0.31	0.90	2.00	0.41	5.00
46.55	1.27	0.32	0.96	0.31	0.90	2.00	0.41	5.00
46.60	1.27	0.32	0.96	0.30	0.90	2.00	0.41	5.00
46.65	1.27	0.32	0.96	0.30	0.90	2.00	0.41	5.00
46.70	1.28	0.31	0.96	0.30	0.90	2.00	0.41	5.00
46.75	1.28	0.31	0.96	0.30	0.			

47.85	1.31	0.29	0.96	0.28	0.90	2.00	0.40	5.00	^
47.90	1.31	0.29	0.96	0.28	0.90	2.00	0.40	5.00	^
47.95	1.31	0.29	0.96	0.28	0.90	2.00	0.40	5.00	^
48.00	1.31	0.29	0.96	0.28	0.90	2.00	0.40	5.00	^
48.05	1.31	0.30	0.96	0.28	0.90	0.26	0.40	5.00	
48.10	1.31	0.31	0.96	0.29	0.90	0.26	0.40	5.00	
48.15	1.32	0.31	0.96	0.30	0.90	0.27	0.40	5.00	
48.20	1.32	0.32	0.96	0.31	0.90	0.28	0.40	5.00	
48.25	1.32	0.33	0.96	0.32	0.90	0.29	0.40	5.00	
48.30	1.32	0.34	0.96	0.33	0.90	0.30	0.40	5.00	
48.35	1.32	0.36	0.96	0.34	0.90	0.31	0.40	5.00	
48.40	1.32	0.37	0.96	0.35	0.90	0.32	0.40	5.00	
48.45	1.32	0.39	0.96	0.37	0.90	0.34	0.40	5.00	
48.50	1.33	0.42	0.96	0.40	0.90	0.36	0.40	5.00	
48.55	1.33	0.50	0.96	0.48	0.90	0.43	0.40	5.00	
48.60	1.33	0.50	0.96	0.48	0.90	0.43	0.40	5.00	
48.65	1.33	0.50	0.96	0.48	0.90	0.43	0.40	5.00	
48.70	1.33	0.50	0.96	0.48	0.90	0.43	0.40	5.00	
48.75	1.33	0.50	0.96	0.48	0.90	0.43	0.40	5.00	
48.80	1.33	0.50	0.96	0.48	0.90	0.43	0.40	5.00	
48.85	1.34	0.50	0.96	0.48	0.90	0.43	0.40	5.00	
48.90	1.34	0.50	0.96	0.48	0.90	0.43	0.40	5.00	
48.95	1.34	0.50	0.96	0.48	0.90	0.43	0.40	5.00	
49.00	1.34	0.50	0.95	0.48	0.90	0.43	0.40	5.00	
49.05	1.34	0.50	0.95	0.48	0.90	0.43	0.40	5.00	
49.10	1.34	0.50	0.95	0.48	0.90	0.43	0.40	5.00	
49.15	1.34	0.50	0.95	0.48	0.90	0.43	0.40	5.00	
49.20	1.35	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.25	1.35	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.30	1.35	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.35	1.35	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.40	1.35	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.45	1.35	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.50	1.35	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.55	1.36	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.60	1.36	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.65	1.36	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.70	1.36	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.75	1.36	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.80	1.36	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.85	1.36	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.90	1.37	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
49.95	1.37	0.50	0.95	0.48	0.90	0.43	0.39	5.00	
50.00	1.37	0.50	0.95	0.48	0.90	0.43	0.39	5.00	

* F.S.<1: Liquefaction Potential Zone. (If above water table: F.S.=5)

^ No-liquefiable Soils or above Water Table.

(F.S. is limited to 5, CRR is limited to 2, CSR is limited to 2)

CPT convert to SPT for Settlement Analysis:

Fines Correction for Settlement Analysis:

Depth ft	Ic	qc/N60	qc1 atm	(N1)60	Fines %	d(N1)60	(N1)60s
1.50	-	-	-	37.99	NoLiq	0.00	37.99
1.55	-	-	-	38.28	NoLiq	0.00	38.28
1.60	-	-	-	38.58	NoLiq	0.00	38.58
1.65	-	-	-	38.87	NoLiq	0.00	38.87
1.70	-	-	-	39.16	NoLiq	0.00	39.16
1.75	-	-	-	39.46	NoLiq	0.00	39.46
1.80	-	-	-	39.75	NoLiq	0.00	39.75
1.85	-	-	-	40.04	NoLiq	0.00	40.04
1.90	-	-	-	40.34	NoLiq	0.00	40.34
1.95	-	-	-	40.63	NoLiq	0.00	40.63
2.00	-	-	-	40.92	NoLiq	0.00	40.92
2.05	-	-	-	41.22	NoLiq	0.00	41.22
2.10	-	-	-	41.51	NoLiq	0.00	41.51
2.15	-	-	-	41.80	NoLiq	0.00	41.80

2.20	-	-	-	42.10	NoLiq	0.00	42.10
2.25	-	-	-	42.39	NoLiq	0.00	42.39
2.30	-	-	-	42.68	NoLiq	0.00	42.68
2.35	-	-	-	42.98	NoLiq	0.00	42.98
2.40	-	-	-	43.27	NoLiq	0.00	43.27
2.45	-	-	-	43.56	NoLiq	0.00	43.56
2.50	-	-	-	43.86	NoLiq	0.00	43.86
2.55	-	-	-	44.15	NoLiq	0.00	44.15
2.60	-	-	-	44.44	NoLiq	0.00	44.44
2.65	-	-	-	44.74	NoLiq	0.00	44.74
2.70	-	-	-	45.03	NoLiq	0.00	45.03
2.75	-	-	-	45.32	NoLiq	0.00	45.32
2.80	-	-	-	45.62	NoLiq	0.00	45.62
2.85	-	-	-	45.91	NoLiq	0.00	45.91
2.90	-	-	-	46.20	NoLiq	0.00	46.20
2.95	-	-	-	46.50	NoLiq	0.00	46.50
3.00	-	-	-	46.79	NoLiq	0.00	46.79
3.05	-	-	-	46.72	NoLiq	0.00	46.72
3.10	-	-	-	46.64	NoLiq	0.00	46.64
3.15	-	-	-	46.57	NoLiq	0.00	46.57
3.20	-	-	-	46.50	NoLiq	0.00	46.50
3.25	-	-	-	46.42	NoLiq	0.00	46.42
3.30	-	-	-	46.35	NoLiq	0.00	46.35
3.35	-	-	-	46.28	NoLiq	0.00	46.28
3.40	-	-	-	46.20	NoLiq	0.00	46.20
3.45	-	-	-	46.13	NoLiq	0.00	46.13
3.50	-	-	-	46.06	NoLiq	0.00	46.06
3.55	-	-	-	45.98	NoLiq	0.00	45.98
3.60	-	-	-	45.91	NoLiq	0.00	45.91
3.65	-	-	-	45.84	NoLiq	0.00	45.84
3.70	-	-	-	45.76	NoLiq	0.00	45.76
3.75	-	-	-	45.69	NoLiq	0.00	45.69
3.80	-	-	-	45.62	NoLiq	0.00	45.62
3.85	-	-	-	45.54	NoLiq	0.00	45.54
3.90	-	-	-	45.47	NoLiq	0.00	45.47
3.95	-	-	-	45.40	NoLiq	0.00	45.40
4.00	-	-	-	45.32	NoLiq	0.00	45.32
4.05	-	-	-	45.25	NoLiq	0.00	45.25
4.10	-	-	-	45.18	NoLiq	0.00	45.18
4.15	-	-	-	45.10	NoLiq	0.00	45.10
4.20	-	-	-	45.03	NoLiq	0.00	45.03
4.25	-	-	-	44.96	NoLiq	0.00	44.96
4.30	-	-	-	44.88	NoLiq	0.00	44.88
4.35	-	-	-	44.81	NoLiq	0.00	44.81
4.40	-	-	-	44.74	NoLiq	0.00	44.74
4.45	-	-	-	44.66	NoLiq	0.00	44.66
4.50	-	-	-	44.59	NoLiq	0.00	44.59
4.55	-	-	-	44.96	47.77	0.00	44.96
4.60	-	-	-	45.32	46.53	0.00	45.32
4.65	-	-	-	45.69	45.30	0.00	45.69
4.70	-	-	-	46.06	44.07	0.00	46.06
4.75	-	-	-	46.42	42.83	0.00	46.42
4.80	-	-	-	46.79	41.60	0.00	46.79
4.85	-	-	-	47.16	40.37	0.00	47.16
4.90	-	-	-	47.52	39.13	0.00	47.52
4.95	-	-	-	47.89	37.90	0.00	47.89
5.00	-	-	-	48.26	36.67	0.00	48.26
5.05	-	-	-	48.62	35.43	0.00	48.62
5.10	-	-	-	48.80	34.20	0.00	48.80
5.15	-	-	-	48.87	32.97	0.00	48.87
5.20	-	-	-	48.94	31.73	0.00	48.94
5.25	-	-	-	49.01	30.50	0.00	49.01
5.30	-	-	-	49.08	29.27	0.00	49.08
5.35	-	-	-	49.15	28.03	0.00	49.15
5.40	-	-	-	49.22	26.80	0.00	49.22
5.45	-	-	-	49.29	25.57	0.00	49.29
5.50	-	-	-	49.36	24.33	0.00	49.36
5.55	-	-	-	49.43	23.10	0.00	49.43
5.60	-	-	-	49.50	21.87	0.00	49.50

5.65	-	-	-	49.57	20.63	0.00	49.57
5.70	-	-	-	49.64	19.40	0.00	49.64
5.75	-	-	-	49.71	18.17	0.00	49.71
5.80	-	-	-	49.78	16.93	0.00	49.78
5.85	-	-	-	49.85	15.70	0.00	49.85
5.90	-	-	-	49.93	14.47	0.00	49.93
5.95	-	-	-	50.00	13.23	0.00	50.00
6.00	-	-	-	50.07	12.00	0.00	50.07
6.05	-	-	-	49.96	12.17	0.00	49.96
6.10	-	-	-	49.85	12.33	0.00	49.85
6.15	-	-	-	49.75	12.50	0.00	49.75
6.20	-	-	-	49.64	12.67	0.00	49.64
6.25	-	-	-	49.53	12.83	0.00	49.53
6.30	-	-	-	49.43	13.00	0.00	49.43
6.35	-	-	-	49.32	13.17	0.00	49.32
6.40	-	-	-	49.21	13.33	0.00	49.21
6.45	-	-	-	49.11	13.50	0.00	49.11
6.50	-	-	-	49.00	13.67	0.00	49.00
6.55	-	-	-	48.89	13.83	0.00	48.89
6.60	-	-	-	48.79	14.00	0.00	48.79
6.65	-	-	-	48.68	14.17	0.00	48.68
6.70	-	-	-	48.57	14.33	0.00	48.57
6.75	-	-	-	48.47	14.50	0.00	48.47
6.80	-	-	-	48.36	14.67	0.00	48.36
6.85	-	-	-	48.25	14.83	0.00	48.25
6.90	-	-	-	48.15	15.00	0.00	48.15
6.95	-	-	-	48.04	15.17	0.00	48.04
7.00	-	-	-	47.93	15.33	0.00	47.93
7.05	-	-	-	47.83	15.50	0.00	47.83
7.10	-	-	-	47.72	15.67	0.00	47.72
7.15	-	-	-	47.61	15.83	0.00	47.61
7.20	-	-	-	47.51	16.00	0.00	47.51
7.25	-	-	-	47.40	16.17	0.00	47.40
7.30	-	-	-	47.29	16.33	0.00	47.29
7.35	-	-	-	47.19	16.50	0.00	47.19
7.40	-	-	-	47.08	16.67	0.00	47.08
7.45	-	-	-	46.97	16.83	0.00	46.97
7.50	-	-	-	46.87	17.00	0.00	46.87
7.55	-	-	-	47.02	17.63	0.00	47.02
7.60	-	-	-	47.17	18.27	0.00	47.17
7.65	-	-	-	47.32	18.90	0.00	47.32
7.70	-	-	-	47.48	19.53	0.00	47.48
7.75	-	-	-	47.63	20.17	0.00	47.63
7.80	-	-	-	47.78	20.80	0.00	47.78
7.85	-	-	-	47.93	21.43	0.00	47.93
7.90	-	-	-	48.08	22.07	0.00	48.08
7.95	-	-	-	48.08	22.70	0.00	48.08
8.00	-	-	-	48.08	23.33	0.00	48.08
8.05	-	-	-	48.08	23.97	0.00	48.08
8.10	-	-	-	48.08	24.60	0.00	48.08
8.15	-	-	-	48.08	25.23	0.00	48.08
8.20	-	-	-	48.09	25.87	0.00	48.09
8.25	-	-	-	53.82	26.50	0.00	53.82
8.30	-	-	-	53.81	27.13	0.00	53.81
8.35	-	-	-	53.80	27.77	0.00	53.80
8.40	-	-	-	53.80	28.40	0.00	53.80
8.45	-	-	-	53.79	29.03	0.00	53.79
8.50	-	-	-	53.79	29.67	0.00	53.79
8.55	-	-	-	53.79	30.30	0.00	53.79
8.60	-	-	-	53.80	30.93	0.00	53.80
8.65	-	-	-	53.80	31.57	0.00	53.80
8.70	-	-	-	53.81	32.20	0.00	53.81
8.75	-	-	-	53.82	32.83	0.00	53.82
8.80	-	-	-	53.83	33.47	0.00	53.83
8.85	-	-	-	53.85	34.10	0.00	53.85
8.90	-	-	-	53.86	34.73	0.00	53.86
8.95	-	-	-	53.79	35.37	0.00	53.79
9.00	-	-	-	53.66	36.00	0.00	53.66
9.05	-	-	-	53.53	36.00	0.00	53.53

9.10	-	-	-	53.39	36.00	0.00	53.39
9.15	-	-	-	53.26	36.00	0.00	53.26
9.20	-	-	-	53.13	36.00	0.00	53.13
9.25	-	-	-	53.01	36.00	0.00	53.01
9.30	-	-	-	52.88	36.00	0.00	52.88
9.35	-	-	-	52.75	36.00	0.00	52.75
9.40	-	-	-	52.62	36.00	0.00	52.62
9.45	-	-	-	52.49	36.00	0.00	52.49
9.50	-	-	-	52.37	36.00	0.00	52.37
9.55	-	-	-	52.24	36.00	0.00	52.24
9.60	-	-	-	52.12	36.00	0.00	52.12
9.65	-	-	-	51.99	36.00	0.00	51.99
9.70	-	-	-	51.87	36.00	0.00	51.87
9.75	-	-	-	51.74	36.00	0.00	51.74
9.80	-	-	-	51.62	36.00	0.00	51.62
9.85	-	-	-	51.50	36.00	0.00	51.50
9.90	-	-	-	51.37	36.00	0.00	51.37
9.95	-	-	-	51.25	36.00	0.00	51.25
10.00	-	-	-	51.13	36.00	0.00	51.13
10.05	-	-	-	51.01	36.00	0.00	51.01
10.10	-	-	-	50.89	36.00	0.00	50.89
10.15	-	-	-	50.77	36.00	0.00	50.77
10.20	-	-	-	50.65	36.00	0.00	50.65
10.25	-	-	-	50.53	36.00	0.00	50.53
10.30	-	-	-	50.41	36.00	0.00	50.41
10.35	-	-	-	50.29	36.00	0.00	50.29
10.40	-	-	-	50.18	36.00	0.00	50.18
10.45	-	-	-	50.06	36.00	0.00	50.06
10.50	-	-	-	49.94	36.00	0.00	49.94
10.55	-	-	-	50.67	34.93	0.00	50.67
10.60	-	-	-	51.14	33.87	0.00	51.14
10.65	-	-	-	51.62	32.80	0.00	51.62
10.70	-	-	-	52.08	31.73	0.00	52.08
10.75	-	-	-	52.55	30.67	0.00	52.55
10.80	-	-	-	53.01	29.60	0.00	53.01
10.85	-	-	-	53.47	28.53	0.00	53.47
10.90	-	-	-	53.93	27.47	0.00	53.93
10.95	-	-	-	54.38	26.40	0.00	54.38
11.00	-	-	-	54.83	25.33	0.00	54.83
11.05	-	-	-	55.27	24.27	0.00	55.27
11.10	-	-	-	55.71	23.20	0.00	55.71
11.15	-	-	-	56.15	22.13	0.00	56.15
11.20	-	-	-	56.58	21.07	0.00	56.58
11.25	-	-	-	57.02	20.00	0.00	57.02
11.30	-	-	-	57.44	18.93	0.00	57.44
11.35	-	-	-	57.87	17.87	0.00	57.87
11.40	-	-	-	58.29	16.80	0.00	58.29
11.45	-	-	-	58.71	15.73	0.00	58.71
11.50	-	-	-	59.12	14.67	0.00	59.12
11.55	-	-	-	59.53	13.60	0.00	59.53
11.60	-	-	-	59.94	12.53	0.00	59.94
11.65	-	-	-	60.35	11.47	0.00	60.35
11.70	-	-	-	60.75	10.40	0.00	60.75
11.75	-	-	-	61.15	9.33	0.00	61.15
11.80	-	-	-	61.55	8.27	0.00	61.55
11.85	-	-	-	61.94	7.20	0.00	61.94
11.90	-	-	-	62.33	6.13	0.00	62.33
11.95	-	-	-	62.72	5.07	0.00	62.72
12.00	-	-	-	63.35	4.00	0.00	63.35
12.05	-	-	-	63.39	4.00	0.00	63.39
12.10	-	-	-	63.44	4.00	0.00	63.44
12.15	-	-	-	63.49	4.00	0.00	63.49
12.20	-	-	-	63.53	4.00	0.00	63.53
12.25	-	-	-	63.58	4.00	0.00	63.58
12.30	-	-	-	63.62	4.00	0.00	63.62
12.35	-	-	-	63.67	4.00	0.00	63.67
12.40	-	-	-	63.72	4.00	0.00	63.72
12.45	-	-	-	63.76	4.00	0.00	63.76
12.50	-	-	-	63.81	4.00	0.00	63.81

12.55	-	-	-	63.86	4.00	0.00	63.86
12.60	-	-	-	63.91	4.00	0.00	63.91
12.65	-	-	-	63.95	4.00	0.00	63.95
12.70	-	-	-	64.00	4.00	0.00	64.00
12.75	-	-	-	64.05	4.00	0.00	64.05
12.80	-	-	-	64.09	4.00	0.00	64.09
12.85	-	-	-	64.14	4.00	0.00	64.14
12.90	-	-	-	64.19	4.00	0.00	64.19
12.95	-	-	-	64.24	4.00	0.00	64.24
13.00	-	-	-	64.28	4.00	0.00	64.28
13.05	-	-	-	64.33	4.00	0.00	64.33
13.10	-	-	-	64.38	4.00	0.00	64.38
13.15	-	-	-	64.43	4.00	0.00	64.43
13.20	-	-	-	64.48	4.00	0.00	64.48
13.25	-	-	-	64.52	4.00	0.00	64.52
13.30	-	-	-	64.57	4.00	0.00	64.57
13.35	-	-	-	64.62	4.00	0.00	64.62
13.40	-	-	-	64.67	4.00	0.00	64.67
13.45	-	-	-	64.72	4.00	0.00	64.72
13.50	-	-	-	64.76	4.00	0.00	64.76
13.55	-	-	-	63.67	5.10	0.00	63.67
13.60	-	-	-	62.82	6.20	0.00	62.82
13.65	-	-	-	61.97	7.30	0.00	61.97
13.70	-	-	-	61.13	8.40	0.00	61.13
13.75	-	-	-	60.29	9.50	0.00	60.29
13.80	-	-	-	59.46	10.60	0.00	59.46
13.85	-	-	-	58.64	11.70	0.00	58.64
13.90	-	-	-	57.82	12.80	0.00	57.82
13.95	-	-	-	57.00	13.90	0.00	57.00
14.00	-	-	-	56.19	15.00	0.00	56.19
14.05	-	-	-	55.39	16.10	0.00	55.39
14.10	-	-	-	54.59	17.20	0.00	54.59
14.15	-	-	-	53.79	18.30	0.00	53.79
14.20	-	-	-	53.00	19.40	0.00	53.00
14.25	-	-	-	52.22	20.50	0.00	52.22
14.30	-	-	-	51.44	21.60	0.00	51.44
14.35	-	-	-	50.66	22.70	0.00	50.66
14.40	-	-	-	49.89	23.80	0.00	49.89
14.45	-	-	-	49.12	24.90	0.00	49.12
14.50	-	-	-	48.35	26.00	0.00	48.35
14.55	-	-	-	47.59	27.10	0.00	47.59
14.60	-	-	-	46.84	28.20	0.00	46.84
14.65	-	-	-	46.09	29.30	0.00	46.09
14.70	-	-	-	45.34	30.40	0.00	45.34
14.75	-	-	-	44.59	31.50	0.00	44.59
14.80	-	-	-	48.23	32.60	0.00	48.23
14.85	-	-	-	47.38	33.70	0.00	47.38
14.90	-	-	-	46.53	34.80	0.00	46.53
14.95	-	-	-	45.47	35.90	0.00	45.47
15.00	-	-	-	44.36	37.00	0.00	44.36
15.05	-	-	-	43.98	37.00	0.00	43.98
15.10	-	-	-	43.59	37.00	0.00	43.59
15.15	-	-	-	43.21	37.00	0.00	43.21
15.20	-	-	-	42.83	37.00	0.00	42.83
15.25	-	-	-	42.45	37.00	0.00	42.45
15.30	-	-	-	42.07	37.00	0.00	42.07
15.35	-	-	-	41.69	37.00	0.00	41.69
15.40	-	-	-	41.31	37.00	0.00	41.31
15.45	-	-	-	40.94	37.00	0.00	40.94
15.50	-	-	-	40.56	37.00	0.00	40.56
15.55	-	-	-	40.19	37.00	0.00	40.19
15.60	-	-	-	39.82	37.00	0.00	39.82
15.65	-	-	-	39.45	37.00	0.00	39.45
15.70	-	-	-	39.08	37.00	0.00	39.08
15.75	-	-	-	38.71	37.00	0.00	38.71
15.80	-	-	-	38.34	37.00	0.00	38.34
15.85	-	-	-	37.97	37.00	0.00	37.97
15.90	-	-	-	37.61	37.00	0.00	37.61
15.95	-	-	-	37.24	37.00	0.00	37.24

16.00	-	-	-	36.88	37.00	0.00	36.88
16.05	-	-	-	36.52	37.00	0.00	36.52
16.10	-	-	-	36.16	37.00	0.00	36.16
16.15	-	-	-	35.80	37.00	0.00	35.80
16.20	-	-	-	35.44	37.00	0.00	35.44
16.25	-	-	-	35.08	37.00	0.00	35.08
16.30	-	-	-	34.72	37.00	0.00	34.72
16.35	-	-	-	34.37	37.00	0.00	34.37
16.40	-	-	-	34.01	37.00	0.00	34.01
16.45	-	-	-	33.66	37.00	0.00	33.66
16.50	-	-	-	33.31	37.00	0.00	33.31
16.55	-	-	-	33.27	39.13	0.00	33.27
16.60	-	-	-	33.23	41.27	0.00	33.23
16.65	-	-	-	33.19	43.40	0.00	33.19
16.70	-	-	-	33.15	45.53	0.00	33.15
16.75	-	-	-	33.11	47.67	0.00	33.11
16.80	-	-	-	33.07	49.80	0.00	33.07
16.85	-	-	-	33.03	51.93	0.00	33.03
16.90	-	-	-	32.99	54.07	0.00	32.99
16.95	-	-	-	32.96	56.20	0.00	32.96
17.00	-	-	-	32.92	58.33	0.00	32.92
17.05	-	-	-	32.88	60.47	0.00	32.88
17.10	-	-	-	32.85	62.60	0.00	32.85
17.15	-	-	-	32.81	64.73	0.00	32.81
17.20	-	-	-	32.77	66.87	0.00	32.77
17.25	-	-	-	32.74	69.00	0.00	32.74
17.30	-	-	-	32.70	71.13	0.00	32.70
17.35	-	-	-	32.67	73.27	0.00	32.67
17.40	-	-	-	32.63	75.40	0.00	32.63
17.45	-	-	-	32.60	77.53	0.00	32.60
17.50	-	-	-	32.57	79.67	0.00	32.57
17.55	-	-	-	32.53	81.80	0.00	32.53
17.60	-	-	-	32.50	83.93	0.00	32.50
17.65	-	-	-	32.47	86.07	0.00	32.47
17.70	-	-	-	32.43	88.20	0.00	32.43
17.75	-	-	-	32.40	90.33	0.00	32.40
17.80	-	-	-	32.37	92.47	0.00	32.37
17.85	-	-	-	32.34	94.60	0.00	32.34
17.90	-	-	-	32.31	96.73	0.00	32.31
17.95	-	-	-	32.28	98.87	0.00	32.28
18.00	-	-	-	32.25	NoLiq	0.00	32.25
18.05	-	-	-	32.45	NoLiq	0.00	32.45
18.10	-	-	-	32.66	NoLiq	0.00	32.66
18.15	-	-	-	32.87	NoLiq	0.00	32.87
18.20	-	-	-	33.07	NoLiq	0.00	33.07
18.25	-	-	-	33.28	NoLiq	0.00	33.28
18.30	-	-	-	33.49	NoLiq	0.00	33.49
18.35	-	-	-	33.69	NoLiq	0.00	33.69
18.40	-	-	-	33.90	NoLiq	0.00	33.90
18.45	-	-	-	34.10	NoLiq	0.00	34.10
18.50	-	-	-	34.31	NoLiq	0.00	34.31
18.55	-	-	-	34.51	NoLiq	0.00	34.51
18.60	-	-	-	34.71	NoLiq	0.00	34.71
18.65	-	-	-	34.92	NoLiq	0.00	34.92
18.70	-	-	-	35.12	NoLiq	0.00	35.12
18.75	-	-	-	35.32	NoLiq	0.00	35.32
18.80	-	-	-	35.52	NoLiq	0.00	35.52
18.85	-	-	-	35.72	NoLiq	0.00	35.72
18.90	-	-	-	35.93	NoLiq	0.00	35.93
18.95	-	-	-	36.13	NoLiq	0.00	36.13
19.00	-	-	-	36.33	NoLiq	0.00	36.33
19.05	-	-	-	36.53	NoLiq	0.00	36.53
19.10	-	-	-	36.73	NoLiq	0.00	36.73
19.15	-	-	-	36.93	NoLiq	0.00	36.93
19.20	-	-	-	37.12	NoLiq	0.00	37.12
19.25	-	-	-	37.32	NoLiq	0.00	37.32
19.30	-	-	-	37.52	NoLiq	0.00	37.52
19.35	-	-	-	37.72	NoLiq	0.00	37.72
19.40	-	-	-	37.92	NoLiq	0.00	37.92

19.45	-	-	-	38.12	NoLiq	0.00	38.12
19.50	-	-	-	38.31	NoLiq	0.00	38.31
19.55	-	-	-	38.39	NoLiq	0.00	38.39
19.60	-	-	-	38.48	NoLiq	0.00	38.48
19.65	-	-	-	38.56	NoLiq	0.00	38.56
19.70	-	-	-	38.64	NoLiq	0.00	38.64
19.75	-	-	-	38.72	NoLiq	0.00	38.72
19.80	-	-	-	38.80	NoLiq	0.00	38.80
19.85	-	-	-	38.88	NoLiq	0.00	38.88
19.90	-	-	-	38.96	NoLiq	0.00	38.96
19.95	-	-	-	39.04	NoLiq	0.00	39.04
20.00	-	-	-	39.12	NoLiq	0.00	39.12
20.05	-	-	-	39.20	NoLiq	0.00	39.20
20.10	-	-	-	39.28	NoLiq	0.00	39.28
20.15	-	-	-	39.36	NoLiq	0.00	39.36
20.20	-	-	-	39.44	NoLiq	0.00	39.44
20.25	-	-	-	39.52	NoLiq	0.00	39.52
20.30	-	-	-	39.60	NoLiq	0.00	39.60
20.35	-	-	-	39.68	NoLiq	0.00	39.68
20.40	-	-	-	39.76	NoLiq	0.00	39.76
20.45	-	-	-	39.84	NoLiq	0.00	39.84
20.50	-	-	-	39.92	NoLiq	0.00	39.92
20.55	-	-	-	40.00	NoLiq	0.00	40.00
20.60	-	-	-	40.08	NoLiq	0.00	40.08
20.65	-	-	-	40.16	NoLiq	0.00	40.16
20.70	-	-	-	40.23	NoLiq	0.00	40.23
20.75	-	-	-	40.31	NoLiq	0.00	40.31
20.80	-	-	-	40.39	NoLiq	0.00	40.39
20.85	-	-	-	40.47	NoLiq	0.00	40.47
20.90	-	-	-	40.55	NoLiq	0.00	40.55
20.95	-	-	-	40.62	NoLiq	0.00	40.62
21.00	-	-	-	40.70	NoLiq	0.00	40.70
21.05	-	-	-	40.61	NoLiq	0.00	40.61
21.10	-	-	-	40.52	NoLiq	0.00	40.52
21.15	-	-	-	40.43	NoLiq	0.00	40.43
21.20	-	-	-	40.35	NoLiq	0.00	40.35
21.25	-	-	-	40.26	NoLiq	0.00	40.26
21.30	-	-	-	40.17	NoLiq	0.00	40.17
21.35	-	-	-	40.08	NoLiq	0.00	40.08
21.40	-	-	-	39.99	NoLiq	0.00	39.99
21.45	-	-	-	39.90	NoLiq	0.00	39.90
21.50	-	-	-	39.82	NoLiq	0.00	39.82
21.55	-	-	-	39.73	NoLiq	0.00	39.73
21.60	-	-	-	39.64	NoLiq	0.00	39.64
21.65	-	-	-	39.55	NoLiq	0.00	39.55
21.70	-	-	-	39.47	NoLiq	0.00	39.47
21.75	-	-	-	39.38	NoLiq	0.00	39.38
21.80	-	-	-	39.29	NoLiq	0.00	39.29
21.85	-	-	-	39.21	NoLiq	0.00	39.21
21.90	-	-	-	39.12	NoLiq	0.00	39.12
21.95	-	-	-	39.03	NoLiq	0.00	39.03
22.00	-	-	-	38.95	NoLiq	0.00	38.95
22.05	-	-	-	38.86	NoLiq	0.00	38.86
22.10	-	-	-	38.78	NoLiq	0.00	38.78
22.15	-	-	-	38.69	NoLiq	0.00	38.69
22.20	-	-	-	38.60	NoLiq	0.00	38.60
22.25	-	-	-	38.52	NoLiq	0.00	38.52
22.30	-	-	-	38.43	NoLiq	0.00	38.43
22.35	-	-	-	38.35	NoLiq	0.00	38.35
22.40	-	-	-	38.27	NoLiq	0.00	38.27
22.45	-	-	-	38.18	NoLiq	0.00	38.18
22.50	-	-	-	38.10	NoLiq	0.00	38.10
22.55	-	-	-	38.12	NoLiq	0.00	38.12
22.60	-	-	-	38.14	NoLiq	0.00	38.14
22.65	-	-	-	38.17	NoLiq	0.00	38.17
22.70	-	-	-	38.19	NoLiq	0.00	38.19
22.75	-	-	-	38.22	NoLiq	0.00	38.22
22.80	-	-	-	38.24	NoLiq	0.00	38.24
22.85	-	-	-	38.26	NoLiq	0.00	38.26

22.90	-	-	-	38.29	NoLiq	0.00	38.29
22.95	-	-	-	38.31	NoLiq	0.00	38.31
23.00	-	-	-	38.34	NoLiq	0.00	38.34
23.05	-	-	-	38.36	NoLiq	0.00	38.36
23.10	-	-	-	38.38	NoLiq	0.00	38.38
23.15	-	-	-	38.41	NoLiq	0.00	38.41
23.20	-	-	-	38.43	NoLiq	0.00	38.43
23.25	-	-	-	38.46	NoLiq	0.00	38.46
23.30	-	-	-	38.48	NoLiq	0.00	38.48
23.35	-	-	-	38.50	NoLiq	0.00	38.50
23.40	-	-	-	38.53	NoLiq	0.00	38.53
23.45	-	-	-	38.55	NoLiq	0.00	38.55
23.50	-	-	-	38.57	NoLiq	0.00	38.57
23.55	-	-	-	38.60	NoLiq	0.00	38.60
23.60	-	-	-	38.62	NoLiq	0.00	38.62
23.65	-	-	-	38.64	NoLiq	0.00	38.64
23.70	-	-	-	38.67	NoLiq	0.00	38.67
23.75	-	-	-	38.69	NoLiq	0.00	38.69
23.80	-	-	-	38.71	NoLiq	0.00	38.71
23.85	-	-	-	38.74	NoLiq	0.00	38.74
23.90	-	-	-	38.76	NoLiq	0.00	38.76
23.95	-	-	-	38.78	NoLiq	0.00	38.78
24.00	-	-	-	38.81	NoLiq	0.00	38.81
24.05	-	-	-	38.51	NoLiq	0.00	38.51
24.10	-	-	-	38.22	NoLiq	0.00	38.22
24.15	-	-	-	37.93	NoLiq	0.00	37.93
24.20	-	-	-	37.64	NoLiq	0.00	37.64
24.25	-	-	-	37.35	NoLiq	0.00	37.35
24.30	-	-	-	37.06	NoLiq	0.00	37.06
24.35	-	-	-	36.77	NoLiq	0.00	36.77
24.40	-	-	-	36.48	NoLiq	0.00	36.48
24.45	-	-	-	36.20	NoLiq	0.00	36.20
24.50	-	-	-	35.91	NoLiq	0.00	35.91
24.55	-	-	-	35.62	NoLiq	0.00	35.62
24.60	-	-	-	35.34	NoLiq	0.00	35.34
24.65	-	-	-	35.05	NoLiq	0.00	35.05
24.70	-	-	-	34.77	NoLiq	0.00	34.77
24.75	-	-	-	34.49	NoLiq	0.00	34.49
24.80	-	-	-	34.20	NoLiq	0.00	34.20
24.85	-	-	-	33.92	NoLiq	0.00	33.92
24.90	-	-	-	33.64	NoLiq	0.00	33.64
24.95	-	-	-	33.36	NoLiq	0.00	33.36
25.00	-	-	-	33.08	NoLiq	0.00	33.08
25.05	-	-	-	32.79	NoLiq	0.00	32.79
25.10	-	-	-	32.52	NoLiq	0.00	32.52
25.15	-	-	-	32.24	NoLiq	0.00	32.24
25.20	-	-	-	31.96	NoLiq	0.00	31.96
25.25	-	-	-	31.68	NoLiq	0.00	31.68
25.30	-	-	-	31.40	NoLiq	0.00	31.40
25.35	-	-	-	31.12	NoLiq	0.00	31.12
25.40	-	-	-	30.85	NoLiq	0.00	30.85
25.45	-	-	-	30.57	NoLiq	0.00	30.57
25.50	-	-	-	30.30	NoLiq	0.00	30.30
25.55	-	-	-	30.43	NoLiq	0.00	30.43
25.60	-	-	-	30.57	NoLiq	0.00	30.57
25.65	-	-	-	30.70	NoLiq	0.00	30.70
25.70	-	-	-	30.84	NoLiq	0.00	30.84
25.75	-	-	-	30.97	NoLiq	0.00	30.97
25.80	-	-	-	31.10	NoLiq	0.00	31.10
25.85	-	-	-	31.24	NoLiq	0.00	31.24
25.90	-	-	-	31.37	NoLiq	0.00	31.37
25.95	-	-	-	31.50	NoLiq	0.00	31.50
26.00	-	-	-	31.63	NoLiq	0.00	31.63
26.05	-	-	-	31.77	NoLiq	0.00	31.77
26.10	-	-	-	31.90	NoLiq	0.00	31.90
26.15	-	-	-	32.03	NoLiq	0.00	32.03
26.20	-	-	-	32.16	NoLiq	0.00	32.16
26.25	-	-	-	32.29	NoLiq	0.00	32.29
26.30	-	-	-	32.42	NoLiq	0.00	32.42

26.35	-	-	-	32.55	NoLiq	0.00	32.55
26.40	-	-	-	32.68	NoLiq	0.00	32.68
26.45	-	-	-	32.81	NoLiq	0.00	32.81
26.50	-	-	-	32.94	NoLiq	0.00	32.94
26.55	-	-	-	33.06	NoLiq	0.00	33.06
26.60	-	-	-	33.19	NoLiq	0.00	33.19
26.65	-	-	-	33.32	NoLiq	0.00	33.32
26.70	-	-	-	33.45	NoLiq	0.00	33.45
26.75	-	-	-	33.57	NoLiq	0.00	33.57
26.80	-	-	-	33.70	NoLiq	0.00	33.70
26.85	-	-	-	33.83	NoLiq	0.00	33.83
26.90	-	-	-	33.95	NoLiq	0.00	33.95
26.95	-	-	-	34.08	NoLiq	0.00	34.08
27.00	-	-	-	34.20	NoLiq	0.00	34.20
27.05	-	-	-	34.13	55.56	0.00	34.13
27.10	-	-	-	34.05	57.13	0.00	34.05
27.15	-	-	-	33.98	58.70	0.00	33.98
27.20	-	-	-	33.90	60.26	0.00	33.90
27.25	-	-	-	33.83	61.83	0.00	33.83
27.30	-	-	-	33.76	63.40	0.00	33.76
27.35	-	-	-	33.68	64.96	0.00	33.68
27.40	-	-	-	33.61	66.53	0.00	33.61
27.45	-	-	-	33.54	68.10	0.00	33.54
27.50	-	-	-	33.46	69.66	0.00	33.46
27.55	-	-	-	33.39	71.23	0.00	33.39
27.60	-	-	-	33.32	72.80	0.00	33.32
27.65	-	-	-	33.25	74.36	0.00	33.25
27.70	-	-	-	33.17	75.93	0.00	33.17
27.75	-	-	-	33.10	77.50	0.00	33.10
27.80	-	-	-	33.03	79.06	0.00	33.03
27.85	-	-	-	32.96	80.63	0.00	32.96
27.90	-	-	-	34.24	82.20	0.00	34.24
27.95	-	-	-	34.17	83.76	0.00	34.17
28.00	-	-	-	34.09	85.33	0.00	34.09
28.05	-	-	-	34.02	86.90	0.00	34.02
28.10	-	-	-	33.95	88.46	0.00	33.95
28.15	-	-	-	33.87	90.03	0.00	33.87
28.20	-	-	-	33.80	91.60	0.00	33.80
28.25	-	-	-	33.73	93.16	0.00	33.73
28.30	-	-	-	33.66	94.73	0.00	33.66
28.35	-	-	-	33.59	96.30	0.00	33.59
28.40	-	-	-	33.51	97.86	0.00	33.51
28.45	-	-	-	33.44	99.43	0.00	33.44
28.50	-	-	-	33.37	NoLiq	0.00	33.37
28.55	-	-	-	33.35	NoLiq	0.00	33.35
28.60	-	-	-	33.33	NoLiq	0.00	33.33
28.65	-	-	-	33.31	NoLiq	0.00	33.31
28.70	-	-	-	33.29	NoLiq	0.00	33.29
28.75	-	-	-	33.27	NoLiq	0.00	33.27
28.80	-	-	-	33.25	NoLiq	0.00	33.25
28.85	-	-	-	33.23	NoLiq	0.00	33.23
28.90	-	-	-	33.21	NoLiq	0.00	33.21
28.95	-	-	-	33.19	NoLiq	0.00	33.19
29.00	-	-	-	33.17	NoLiq	0.00	33.17
29.05	-	-	-	33.15	NoLiq	0.00	33.15
29.10	-	-	-	33.13	NoLiq	0.00	33.13
29.15	-	-	-	33.11	NoLiq	0.00	33.11
29.20	-	-	-	33.10	NoLiq	0.00	33.10
29.25	-	-	-	33.08	NoLiq	0.00	33.08
29.30	-	-	-	33.06	NoLiq	0.00	33.06
29.35	-	-	-	33.04	NoLiq	0.00	33.04
29.40	-	-	-	33.02	NoLiq	0.00	33.02
29.45	-	-	-	33.00	NoLiq	0.00	33.00
29.50	-	-	-	32.98	NoLiq	0.00	32.98
29.55	-	-	-	32.96	NoLiq	0.00	32.96
29.60	-	-	-	32.94	NoLiq	0.00	32.94
29.65	-	-	-	32.92	NoLiq	0.00	32.92
29.70	-	-	-	32.90	NoLiq	0.00	32.90
29.75	-	-	-	32.88	NoLiq	0.00	32.88

29.80	-	-	-	32.86	NoLiq	0.00	32.86
29.85	-	-	-	32.84	NoLiq	0.00	32.84
29.90	-	-	-	32.82	NoLiq	0.00	32.82
29.95	-	-	-	32.80	NoLiq	0.00	32.80
30.00	-	-	-	32.78	NoLiq	0.00	32.78
30.05	-	-	-	32.66	NoLiq	0.00	32.66
30.10	-	-	-	32.54	NoLiq	0.00	32.54
30.15	-	-	-	32.42	NoLiq	0.00	32.42
30.20	-	-	-	32.30	NoLiq	0.00	32.30
30.25	-	-	-	32.19	NoLiq	0.00	32.19
30.30	-	-	-	32.07	NoLiq	0.00	32.07
30.35	-	-	-	31.95	NoLiq	0.00	31.95
30.40	-	-	-	31.83	NoLiq	0.00	31.83
30.45	-	-	-	31.71	NoLiq	0.00	31.71
30.50	-	-	-	31.59	NoLiq	0.00	31.59
30.55	-	-	-	31.48	NoLiq	0.00	31.48
30.60	-	-	-	31.36	NoLiq	0.00	31.36
30.65	-	-	-	31.24	NoLiq	0.00	31.24
30.70	-	-	-	31.12	NoLiq	0.00	31.12
30.75	-	-	-	31.01	NoLiq	0.00	31.01
30.80	-	-	-	30.89	NoLiq	0.00	30.89
30.85	-	-	-	30.77	NoLiq	0.00	30.77
30.90	-	-	-	30.66	NoLiq	0.00	30.66
30.95	-	-	-	30.54	NoLiq	0.00	30.54
31.00	-	-	-	30.42	NoLiq	0.00	30.42
31.05	-	-	-	30.31	NoLiq	0.00	30.31
31.10	-	-	-	30.19	NoLiq	0.00	30.19
31.15	-	-	-	30.08	NoLiq	0.00	30.08
31.20	-	-	-	29.96	NoLiq	0.00	29.96
31.25	-	-	-	29.84	NoLiq	0.00	29.84
31.30	-	-	-	29.73	NoLiq	0.00	29.73
31.35	-	-	-	29.61	NoLiq	0.00	29.61
31.40	-	-	-	29.50	NoLiq	0.00	29.50
31.45	-	-	-	29.39	NoLiq	0.00	29.39
31.50	-	-	-	29.27	NoLiq	0.00	29.27
31.55	-	-	-	29.30	NoLiq	0.00	29.30
31.60	-	-	-	29.34	NoLiq	0.00	29.34
31.65	-	-	-	29.37	NoLiq	0.00	29.37
31.70	-	-	-	29.40	NoLiq	0.00	29.40
31.75	-	-	-	29.43	NoLiq	0.00	29.43
31.80	-	-	-	29.47	NoLiq	0.00	29.47
31.85	-	-	-	29.50	NoLiq	0.00	29.50
31.90	-	-	-	29.53	NoLiq	0.00	29.53
31.95	-	-	-	29.57	NoLiq	0.00	29.57
32.00	-	-	-	29.60	NoLiq	0.00	29.60
32.05	-	-	-	29.63	NoLiq	0.00	29.63
32.10	-	-	-	29.66	NoLiq	0.00	29.66
32.15	-	-	-	29.70	NoLiq	0.00	29.70
32.20	-	-	-	29.73	NoLiq	0.00	29.73
32.25	-	-	-	29.76	NoLiq	0.00	29.76
32.30	-	-	-	29.79	NoLiq	0.00	29.79
32.35	-	-	-	29.83	NoLiq	0.00	29.83
32.40	-	-	-	29.86	NoLiq	0.00	29.86
32.45	-	-	-	29.89	NoLiq	0.00	29.89
32.50	-	-	-	29.93	NoLiq	0.00	29.93
32.55	-	-	-	29.96	NoLiq	0.00	29.96
32.60	-	-	-	29.99	NoLiq	0.00	29.99
32.65	-	-	-	30.02	NoLiq	0.00	30.02
32.70	-	-	-	30.06	NoLiq	0.00	30.06
32.75	-	-	-	30.09	NoLiq	0.00	30.09
32.80	-	-	-	30.12	NoLiq	0.00	30.12
32.85	-	-	-	30.16	NoLiq	0.00	30.16
32.90	-	-	-	30.19	NoLiq	0.00	30.19
32.95	-	-	-	30.22	NoLiq	0.00	30.22
33.00	-	-	-	30.25	NoLiq	0.00	30.25
33.05	-	-	-	30.29	NoLiq	0.00	30.29
33.10	-	-	-	30.32	NoLiq	0.00	30.32
33.15	-	-	-	30.35	NoLiq	0.00	30.35
33.20	-	-	-	30.38	NoLiq	0.00	30.38

33.25	-	-	-	30.42	NoLiq	0.00	30.42
33.30	-	-	-	30.45	NoLiq	0.00	30.45
33.35	-	-	-	30.48	NoLiq	0.00	30.48
33.40	-	-	-	30.51	NoLiq	0.00	30.51
33.45	-	-	-	30.55	NoLiq	0.00	30.55
33.50	-	-	-	30.58	NoLiq	0.00	30.58
33.55	-	-	-	30.61	NoLiq	0.00	30.61
33.60	-	-	-	30.64	NoLiq	0.00	30.64
33.65	-	-	-	30.67	NoLiq	0.00	30.67
33.70	-	-	-	30.71	NoLiq	0.00	30.71
33.75	-	-	-	30.74	NoLiq	0.00	30.74
33.80	-	-	-	30.77	NoLiq	0.00	30.77
33.85	-	-	-	30.80	NoLiq	0.00	30.80
33.90	-	-	-	30.83	NoLiq	0.00	30.83
33.95	-	-	-	30.87	NoLiq	0.00	30.87
34.00	-	-	-	30.90	NoLiq	0.00	30.90
34.05	-	-	-	30.93	NoLiq	0.00	30.93
34.10	-	-	-	30.96	NoLiq	0.00	30.96
34.15	-	-	-	30.99	NoLiq	0.00	30.99
34.20	-	-	-	31.02	NoLiq	0.00	31.02
34.25	-	-	-	31.05	NoLiq	0.00	31.05
34.30	-	-	-	31.09	NoLiq	0.00	31.09
34.35	-	-	-	31.12	NoLiq	0.00	31.12
34.40	-	-	-	31.15	NoLiq	0.00	31.15
34.45	-	-	-	31.18	NoLiq	0.00	31.18
34.50	-	-	-	31.21	NoLiq	0.00	31.21
34.55	-	-	-	31.05	NoLiq	0.00	31.05
34.60	-	-	-	30.90	NoLiq	0.00	30.90
34.65	-	-	-	30.74	NoLiq	0.00	30.74
34.70	-	-	-	30.58	NoLiq	0.00	30.58
34.75	-	-	-	30.43	NoLiq	0.00	30.43
34.80	-	-	-	30.27	NoLiq	0.00	30.27
34.85	-	-	-	30.12	NoLiq	0.00	30.12
34.90	-	-	-	29.96	NoLiq	0.00	29.96
34.95	-	-	-	29.80	NoLiq	0.00	29.80
35.00	-	-	-	29.65	NoLiq	0.00	29.65
35.05	-	-	-	29.49	NoLiq	0.00	29.49
35.10	-	-	-	29.34	NoLiq	0.00	29.34
35.15	-	-	-	29.19	NoLiq	0.00	29.19
35.20	-	-	-	29.03	NoLiq	0.00	29.03
35.25	-	-	-	28.88	NoLiq	0.00	28.88
35.30	-	-	-	28.72	NoLiq	0.00	28.72
35.35	-	-	-	28.57	NoLiq	0.00	28.57
35.40	-	-	-	28.42	NoLiq	0.00	28.42
35.45	-	-	-	28.26	NoLiq	0.00	28.26
35.50	-	-	-	28.11	NoLiq	0.00	28.11
35.55	-	-	-	27.96	NoLiq	0.00	27.96
35.60	-	-	-	27.81	NoLiq	0.00	27.81
35.65	-	-	-	27.65	NoLiq	0.00	27.65
35.70	-	-	-	27.50	NoLiq	0.00	27.50
35.75	-	-	-	27.35	NoLiq	0.00	27.35
35.80	-	-	-	27.20	NoLiq	0.00	27.20
35.85	-	-	-	27.05	NoLiq	0.00	27.05
35.90	-	-	-	26.90	NoLiq	0.00	26.90
35.95	-	-	-	26.75	NoLiq	0.00	26.75
36.00	-	-	-	26.59	NoLiq	0.00	26.59
36.05	-	-	-	26.58	NoLiq	0.00	26.58
36.10	-	-	-	26.57	NoLiq	0.00	26.57
36.15	-	-	-	26.56	NoLiq	0.00	26.56
36.20	-	-	-	26.55	NoLiq	0.00	26.55
36.25	-	-	-	26.53	NoLiq	0.00	26.53
36.30	-	-	-	26.52	NoLiq	0.00	26.52
36.35	-	-	-	26.51	NoLiq	0.00	26.51
36.40	-	-	-	26.50	NoLiq	0.00	26.50
36.45	-	-	-	26.49	NoLiq	0.00	26.49
36.50	-	-	-	26.48	NoLiq	0.00	26.48
36.55	-	-	-	26.46	NoLiq	0.00	26.46
36.60	-	-	-	26.45	NoLiq	0.00	26.45
36.65	-	-	-	26.44	NoLiq	0.00	26.44

36.70	-	-	-	26.43	NoLiq	0.00	26.43
36.75	-	-	-	26.42	NoLiq	0.00	26.42
36.80	-	-	-	26.41	NoLiq	0.00	26.41
36.85	-	-	-	26.39	NoLiq	0.00	26.39
36.90	-	-	-	26.38	NoLiq	0.00	26.38
36.95	-	-	-	26.37	NoLiq	0.00	26.37
37.00	-	-	-	26.36	NoLiq	0.00	26.36
37.05	-	-	-	26.35	NoLiq	0.00	26.35
37.10	-	-	-	26.34	NoLiq	0.00	26.34
37.15	-	-	-	26.33	NoLiq	0.00	26.33
37.20	-	-	-	26.31	NoLiq	0.00	26.31
37.25	-	-	-	26.30	NoLiq	0.00	26.30
37.30	-	-	-	26.29	NoLiq	0.00	26.29
37.35	-	-	-	26.28	NoLiq	0.00	26.28
37.40	-	-	-	26.27	NoLiq	0.00	26.27
37.45	-	-	-	26.26	NoLiq	0.00	26.26
37.50	-	-	-	26.25	NoLiq	0.00	26.25
37.55	-	-	-	26.37	NoLiq	0.00	26.37
37.60	-	-	-	26.50	NoLiq	0.00	26.50
37.65	-	-	-	26.62	NoLiq	0.00	26.62
37.70	-	-	-	26.75	NoLiq	0.00	26.75
37.75	-	-	-	26.87	NoLiq	0.00	26.87
37.80	-	-	-	26.99	NoLiq	0.00	26.99
37.85	-	-	-	27.12	NoLiq	0.00	27.12
37.90	-	-	-	27.24	NoLiq	0.00	27.24
37.95	-	-	-	27.37	NoLiq	0.00	27.37
38.00	-	-	-	27.49	NoLiq	0.00	27.49
38.05	-	-	-	27.61	NoLiq	0.00	27.61
38.10	-	-	-	27.74	NoLiq	0.00	27.74
38.15	-	-	-	27.86	NoLiq	0.00	27.86
38.20	-	-	-	27.98	NoLiq	0.00	27.98
38.25	-	-	-	28.11	NoLiq	0.00	28.11
38.30	-	-	-	28.23	NoLiq	0.00	28.23
38.35	-	-	-	28.35	NoLiq	0.00	28.35
38.40	-	-	-	28.48	NoLiq	0.00	28.48
38.45	-	-	-	28.60	NoLiq	0.00	28.60
38.50	-	-	-	28.72	NoLiq	0.00	28.72
38.55	-	-	-	28.84	NoLiq	0.00	28.84
38.60	-	-	-	28.97	NoLiq	0.00	28.97
38.65	-	-	-	29.09	NoLiq	0.00	29.09
38.70	-	-	-	29.21	NoLiq	0.00	29.21
38.75	-	-	-	29.33	NoLiq	0.00	29.33
38.80	-	-	-	29.45	NoLiq	0.00	29.45
38.85	-	-	-	29.58	NoLiq	0.00	29.58
38.90	-	-	-	29.70	NoLiq	0.00	29.70
38.95	-	-	-	29.82	NoLiq	0.00	29.82
39.00	-	-	-	29.94	NoLiq	0.00	29.94
39.05	-	-	-	30.02	NoLiq	0.00	30.02
39.10	-	-	-	30.10	NoLiq	0.00	30.10
39.15	-	-	-	30.17	NoLiq	0.00	30.17
39.20	-	-	-	30.25	NoLiq	0.00	30.25
39.25	-	-	-	30.32	NoLiq	0.00	30.32
39.30	-	-	-	30.40	NoLiq	0.00	30.40
39.35	-	-	-	30.48	NoLiq	0.00	30.48
39.40	-	-	-	30.55	NoLiq	0.00	30.55
39.45	-	-	-	30.63	NoLiq	0.00	30.63
39.50	-	-	-	30.71	NoLiq	0.00	30.71
39.55	-	-	-	30.78	NoLiq	0.00	30.78
39.60	-	-	-	30.86	NoLiq	0.00	30.86
39.65	-	-	-	30.93	NoLiq	0.00	30.93
39.70	-	-	-	31.01	NoLiq	0.00	31.01
39.75	-	-	-	31.08	NoLiq	0.00	31.08
39.80	-	-	-	31.16	NoLiq	0.00	31.16
39.85	-	-	-	31.23	NoLiq	0.00	31.23
39.90	-	-	-	31.31	NoLiq	0.00	31.31
39.95	-	-	-	31.38	NoLiq	0.00	31.38
40.00	-	-	-	31.46	NoLiq	0.00	31.46
40.05	-	-	-	31.53	NoLiq	0.00	31.53
40.10	-	-	-	31.61	NoLiq	0.00	31.61

40.15	-	-	-	31.68	NoLiq	0.00	31.68
40.20	-	-	-	31.76	NoLiq	0.00	31.76
40.25	-	-	-	31.83	NoLiq	0.00	31.83
40.30	-	-	-	31.91	NoLiq	0.00	31.91
40.35	-	-	-	31.98	NoLiq	0.00	31.98
40.40	-	-	-	32.06	NoLiq	0.00	32.06
40.45	-	-	-	32.13	NoLiq	0.00	32.13
40.50	-	-	-	32.20	NoLiq	0.00	32.20
40.55	-	-	-	31.97	NoLiq	0.00	31.97
40.60	-	-	-	31.74	NoLiq	0.00	31.74
40.65	-	-	-	31.51	NoLiq	0.00	31.51
40.70	-	-	-	31.28	NoLiq	0.00	31.28
40.75	-	-	-	31.04	NoLiq	0.00	31.04
40.80	-	-	-	30.81	NoLiq	0.00	30.81
40.85	-	-	-	30.58	NoLiq	0.00	30.58
40.90	-	-	-	30.35	NoLiq	0.00	30.35
40.95	-	-	-	30.12	NoLiq	0.00	30.12
41.00	-	-	-	29.89	NoLiq	0.00	29.89
41.05	-	-	-	29.66	NoLiq	0.00	29.66
41.10	-	-	-	29.43	NoLiq	0.00	29.43
41.15	-	-	-	29.20	NoLiq	0.00	29.20
41.20	-	-	-	28.97	NoLiq	0.00	28.97
41.25	-	-	-	28.74	NoLiq	0.00	28.74
41.30	-	-	-	28.51	NoLiq	0.00	28.51
41.35	-	-	-	28.28	NoLiq	0.00	28.28
41.40	-	-	-	28.05	NoLiq	0.00	28.05
41.45	-	-	-	27.82	NoLiq	0.00	27.82
41.50	-	-	-	27.59	NoLiq	0.00	27.59
41.55	-	-	-	27.37	NoLiq	0.00	27.37
41.60	-	-	-	27.14	NoLiq	0.00	27.14
41.65	-	-	-	26.91	NoLiq	0.00	26.91
41.70	-	-	-	26.68	NoLiq	0.00	26.68
41.75	-	-	-	26.46	NoLiq	0.00	26.46
41.80	-	-	-	26.23	NoLiq	0.00	26.23
41.85	-	-	-	26.00	NoLiq	0.00	26.00
41.90	-	-	-	25.78	NoLiq	0.00	25.78
41.95	-	-	-	25.55	NoLiq	0.00	25.55
42.00	-	-	-	25.33	NoLiq	0.00	25.33
42.05	-	-	-	25.49	NoLiq	0.00	25.49
42.10	-	-	-	25.65	NoLiq	0.00	25.65
42.15	-	-	-	25.81	NoLiq	0.00	25.81
42.20	-	-	-	25.97	NoLiq	0.00	25.97
42.25	-	-	-	26.14	NoLiq	0.00	26.14
42.30	-	-	-	26.30	NoLiq	0.00	26.30
42.35	-	-	-	26.46	NoLiq	0.00	26.46
42.40	-	-	-	26.62	NoLiq	0.00	26.62
42.45	-	-	-	26.78	NoLiq	0.00	26.78
42.50	-	-	-	26.94	NoLiq	0.00	26.94
42.55	-	-	-	27.10	NoLiq	0.00	27.10
42.60	-	-	-	27.26	NoLiq	0.00	27.26
42.65	-	-	-	27.42	NoLiq	0.00	27.42
42.70	-	-	-	27.58	NoLiq	0.00	27.58
42.75	-	-	-	27.75	NoLiq	0.00	27.75
42.80	-	-	-	27.91	NoLiq	0.00	27.91
42.85	-	-	-	28.06	NoLiq	0.00	28.06
42.90	-	-	-	28.22	NoLiq	0.00	28.22
42.95	-	-	-	28.38	NoLiq	0.00	28.38
43.00	-	-	-	28.54	NoLiq	0.00	28.54
43.05	-	-	-	28.70	NoLiq	0.00	28.70
43.10	-	-	-	28.86	NoLiq	0.00	28.86
43.15	-	-	-	29.02	NoLiq	0.00	29.02
43.20	-	-	-	29.18	NoLiq	0.00	29.18
43.25	-	-	-	29.34	NoLiq	0.00	29.34
43.30	-	-	-	29.50	NoLiq	0.00	29.50
43.35	-	-	-	29.65	NoLiq	0.00	29.65
43.40	-	-	-	29.81	NoLiq	0.00	29.81
43.45	-	-	-	29.97	NoLiq	0.00	29.97
43.50	-	-	-	30.13	NoLiq	0.00	30.13
43.55	-	-	-	29.86	NoLiq	0.00	29.86

43.60	-	-	-	29.60	NoLiq	0.00	29.60
43.65	-	-	-	29.33	NoLiq	0.00	29.33
43.70	-	-	-	29.06	NoLiq	0.00	29.06
43.75	-	-	-	28.80	NoLiq	0.00	28.80
43.80	-	-	-	28.53	NoLiq	0.00	28.53
43.85	-	-	-	28.27	NoLiq	0.00	28.27
43.90	-	-	-	28.00	NoLiq	0.00	28.00
43.95	-	-	-	27.74	NoLiq	0.00	27.74
44.00	-	-	-	27.47	NoLiq	0.00	27.47
44.05	-	-	-	27.21	NoLiq	0.00	27.21
44.10	-	-	-	26.95	NoLiq	0.00	26.95
44.15	-	-	-	26.68	NoLiq	0.00	26.68
44.20	-	-	-	26.42	NoLiq	0.00	26.42
44.25	-	-	-	26.16	NoLiq	0.00	26.16
44.30	-	-	-	25.89	NoLiq	0.00	25.89
44.35	-	-	-	25.63	NoLiq	0.00	25.63
44.40	-	-	-	25.37	NoLiq	0.00	25.37
44.45	-	-	-	25.11	NoLiq	0.00	25.11
44.50	-	-	-	24.84	NoLiq	0.00	24.84
44.55	-	-	-	24.58	NoLiq	0.00	24.58
44.60	-	-	-	24.32	NoLiq	0.00	24.32
44.65	-	-	-	24.06	NoLiq	0.00	24.06
44.70	-	-	-	23.80	NoLiq	0.00	23.80
44.75	-	-	-	23.54	NoLiq	0.00	23.54
44.80	-	-	-	23.28	NoLiq	0.00	23.28
44.85	-	-	-	23.02	NoLiq	0.00	23.02
44.90	-	-	-	22.76	NoLiq	0.00	22.76
44.95	-	-	-	22.50	NoLiq	0.00	22.50
45.00	-	-	-	22.24	NoLiq	0.00	22.24
45.05	-	-	-	22.40	NoLiq	0.00	22.40
45.10	-	-	-	22.56	NoLiq	0.00	22.56
45.15	-	-	-	22.72	NoLiq	0.00	22.72
45.20	-	-	-	22.87	NoLiq	0.00	22.87
45.25	-	-	-	23.03	NoLiq	0.00	23.03
45.30	-	-	-	23.19	NoLiq	0.00	23.19
45.35	-	-	-	23.35	NoLiq	0.00	23.35
45.40	-	-	-	23.51	NoLiq	0.00	23.51
45.45	-	-	-	23.66	NoLiq	0.00	23.66
45.50	-	-	-	23.82	NoLiq	0.00	23.82
45.55	-	-	-	23.98	NoLiq	0.00	23.98
45.60	-	-	-	24.14	NoLiq	0.00	24.14
45.65	-	-	-	24.29	NoLiq	0.00	24.29
45.70	-	-	-	24.45	NoLiq	0.00	24.45
45.75	-	-	-	24.61	NoLiq	0.00	24.61
45.80	-	-	-	24.76	NoLiq	0.00	24.76
45.85	-	-	-	24.92	NoLiq	0.00	24.92
45.90	-	-	-	25.08	NoLiq	0.00	25.08
45.95	-	-	-	25.23	NoLiq	0.00	25.23
46.00	-	-	-	25.39	NoLiq	0.00	25.39
46.05	-	-	-	25.54	NoLiq	0.00	25.54
46.10	-	-	-	25.70	NoLiq	0.00	25.70
46.15	-	-	-	25.85	NoLiq	0.00	25.85
46.20	-	-	-	26.01	NoLiq	0.00	26.01
46.25	-	-	-	26.17	NoLiq	0.00	26.17
46.30	-	-	-	26.32	NoLiq	0.00	26.32
46.35	-	-	-	26.48	NoLiq	0.00	26.48
46.40	-	-	-	26.63	NoLiq	0.00	26.63
46.45	-	-	-	26.78	NoLiq	0.00	26.78
46.50	-	-	-	26.94	NoLiq	0.00	26.94
46.55	-	-	-	26.89	NoLiq	0.00	26.89
46.60	-	-	-	26.84	NoLiq	0.00	26.84
46.65	-	-	-	26.79	NoLiq	0.00	26.79
46.70	-	-	-	26.74	NoLiq	0.00	26.74
46.75	-	-	-	26.68	NoLiq	0.00	26.68
46.80	-	-	-	26.63	NoLiq	0.00	26.63
46.85	-	-	-	26.58	NoLiq	0.00	26.58
46.90	-	-	-	26.53	NoLiq	0.00	26.53
46.95	-	-	-	26.48	NoLiq	0.00	26.48
47.00	-	-	-	26.43	NoLiq	0.00	26.43

47.05	-	-	-	26.38	NoLiq	0.00	26.38
47.10	-	-	-	26.33	NoLiq	0.00	26.33
47.15	-	-	-	26.28	NoLiq	0.00	26.28
47.20	-	-	-	26.23	NoLiq	0.00	26.23
47.25	-	-	-	26.18	NoLiq	0.00	26.18
47.30	-	-	-	26.12	NoLiq	0.00	26.12
47.35	-	-	-	26.07	NoLiq	0.00	26.07
47.40	-	-	-	26.02	NoLiq	0.00	26.02
47.45	-	-	-	25.97	NoLiq	0.00	25.97
47.50	-	-	-	25.92	NoLiq	0.00	25.92
47.55	-	-	-	25.87	NoLiq	0.00	25.87
47.60	-	-	-	25.82	NoLiq	0.00	25.82
47.65	-	-	-	25.77	NoLiq	0.00	25.77
47.70	-	-	-	25.72	NoLiq	0.00	25.72
47.75	-	-	-	25.67	NoLiq	0.00	25.67
47.80	-	-	-	25.62	NoLiq	0.00	25.62
47.85	-	-	-	25.57	NoLiq	0.00	25.57
47.90	-	-	-	25.52	NoLiq	0.00	25.52
47.95	-	-	-	25.47	NoLiq	0.00	25.47
48.00	-	-	-	25.42	NoLiq	0.00	25.42
48.05	-	-	-	25.85	36.83	0.00	25.85
48.10	-	-	-	26.28	36.67	0.00	26.28
48.15	-	-	-	26.72	36.50	0.00	26.72
48.20	-	-	-	27.15	36.33	0.00	27.15
48.25	-	-	-	27.59	36.17	0.00	27.59
48.30	-	-	-	28.02	36.00	0.00	28.02
48.35	-	-	-	28.45	35.83	0.00	28.45
48.40	-	-	-	28.88	35.67	0.00	28.88
48.45	-	-	-	29.32	35.50	0.00	29.32
48.50	-	-	-	29.75	35.33	0.00	29.75
48.55	-	-	-	30.18	35.17	0.00	30.18
48.60	-	-	-	30.61	35.00	0.00	30.61
48.65	-	-	-	31.00	34.83	0.00	31.00
48.70	-	-	-	31.39	34.67	0.00	31.39
48.75	-	-	-	31.77	34.50	0.00	31.77
48.80	-	-	-	32.16	34.33	0.00	32.16
48.85	-	-	-	32.55	34.17	0.00	32.55
48.90	-	-	-	32.94	34.00	0.00	32.94
48.95	-	-	-	33.32	33.83	0.00	33.32
49.00	-	-	-	33.71	33.67	0.00	33.71
49.05	-	-	-	34.10	33.50	0.00	34.10
49.10	-	-	-	34.48	33.33	0.00	34.48
49.15	-	-	-	34.87	33.17	0.00	34.87
49.20	-	-	-	35.25	33.00	0.00	35.25
49.25	-	-	-	35.64	32.83	0.00	35.64
49.30	-	-	-	36.02	32.67	0.00	36.02
49.35	-	-	-	36.40	32.50	0.00	36.40
49.40	-	-	-	36.78	32.33	0.00	36.78
49.45	-	-	-	37.17	32.17	0.00	37.17
49.50	-	-	-	37.55	32.00	0.00	37.55
49.55	-	-	-	37.53	32.00	0.00	37.53
49.60	-	-	-	37.52	32.00	0.00	37.52
49.65	-	-	-	37.50	32.00	0.00	37.50
49.70	-	-	-	37.48	32.00	0.00	37.48
49.75	-	-	-	37.47	32.00	0.00	37.47
49.80	-	-	-	37.45	32.00	0.00	37.45
49.85	-	-	-	37.43	32.00	0.00	37.43
49.90	-	-	-	37.42	32.00	0.00	37.42
49.95	-	-	-	37.40	32.00	0.00	37.40
50.00	-	-	-	37.38	32.00	0.00	37.38

(N1)60s has been fines corrected in liquefaction analysis, therefore d(N1)60=0.
Fines=NoLiq means the soils are not liquefiable.

Settlement of Saturated Sands:

Settlement Analysis Method: Ishihara / Yoshimine

Depth ft	CSRsf	/ MSF*	=CSRm	F.S.	Fines %	(N1)60s	Dr %	ec %	dsz in.	dsp in.	S in.
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No Settlement of Saturated Sands

Settlement of Saturated Sands=0.000 in.
 qc1 and (N1)60 is after fines correction in liquefaction analysis
 dsz is per each segment, dz=0.05 ft
 dsp is per each print interval, dp=0.05 ft
 S is cumulated settlement at this depth

Settlement of Unsaturated Sands:

	Depth ft	sigma' atm	sigC' atm	(N1)60s	CSRsf	Gmax atm	g*Ge/Gm	g_eff	ec7.5 %	Cec	ec %	dsz in.	dsp in.	S in.
0.001	49.95	2.10	1.37	37.40	0.39	1746.86	4.7E-4	0.1811	0.0682	1.12	0.0763	9.15E-4	0.001	
0.002	49.90	2.10	1.37	37.42	0.39	1746.18	4.7E-4	0.1810	0.0681	1.12	0.0762	9.14E-4	0.001	
0.003	49.85	2.10	1.36	37.43	0.39	1745.49	4.7E-4	0.1809	0.0680	1.12	0.0760	9.13E-4	0.001	
0.004	49.80	2.10	1.36	37.45	0.39	1744.81	4.7E-4	0.1808	0.0679	1.12	0.0759	9.11E-4	0.001	
0.005	49.75	2.09	1.36	37.47	0.39	1744.12	4.7E-4	0.1807	0.0678	1.12	0.0758	9.10E-4	0.001	
0.005	49.70	2.09	1.36	37.48	0.39	1743.44	4.7E-4	0.1806	0.0677	1.12	0.0757	9.08E-4	0.001	
0.006	49.65	2.09	1.36	37.50	0.39	1742.75	4.7E-4	0.1805	0.0676	1.12	0.0756	9.07E-4	0.001	
0.007	49.60	2.09	1.36	37.52	0.39	1742.07	4.7E-4	0.1805	0.0675	1.12	0.0754	9.05E-4	0.001	
0.008	49.55	2.09	1.36	37.53	0.39	1741.38	4.7E-4	0.1804	0.0674	1.12	0.0753	9.04E-4	0.001	
0.009	49.50	2.08	1.35	37.55	0.39	1740.63	4.7E-4	0.1803	0.0673	1.12	0.0752	9.03E-4	0.001	
0.010	49.45	2.08	1.35	37.17	0.39	1733.78	4.7E-4	0.1822	0.0697	1.12	0.0779	9.35E-4	0.001	
0.011	49.40	2.08	1.35	36.78	0.39	1726.89	4.7E-4	0.1842	0.0722	1.12	0.0807	9.68E-4	0.001	
0.012	49.35	2.08	1.35	36.40	0.39	1719.95	4.8E-4	0.1863	0.0747	1.12	0.0835	1.00E-3	0.001	
0.013	49.30	2.07	1.35	36.02	0.39	1712.98	4.8E-4	0.1884	0.0773	1.12	0.0865	1.04E-3	0.001	
0.014	49.25	2.07	1.35	35.64	0.39	1705.96	4.8E-4	0.1906	0.0800	1.12	0.0895	1.07E-3	0.001	
0.015	49.20	2.07	1.35	35.25	0.39	1698.89	4.8E-4	0.1928	0.0828	1.12	0.0926	1.11E-3	0.001	
0.016	49.15	2.07	1.34	34.87	0.40	1691.78	4.8E-4	0.1951	0.0857	1.12	0.0958	1.15E-3	0.001	
0.018	49.10	2.07	1.34	34.48	0.40	1684.63	4.8E-4	0.1975	0.0886	1.12	0.0991	1.19E-3	0.001	
0.019	49.05	2.06	1.34	34.10	0.40	1677.43	4.9E-4	0.1999	0.0917	1.12	0.1025	1.23E-3	0.001	
0.020	49.00	2.06	1.34	33.71	0.40	1670.18	4.9E-4	0.2025	0.0948	1.12	0.1060	1.27E-3	0.001	
0.021	48.95	2.06	1.34	33.32	0.40	1662.88	4.9E-4	0.2051	0.0981	1.12	0.1097	1.32E-3	0.001	
0.023	48.90	2.06	1.34	32.94	0.40	1655.54	4.9E-4	0.2077	0.1015	1.12	0.1135	1.36E-3	0.001	
0.024	48.85	2.05	1.34	32.55	0.40	1648.14	4.9E-4	0.2105	0.1050	1.12	0.1174	1.41E-3	0.001	
0.026	48.80	2.05	1.33	32.16	0.40	1640.69	5.0E-4	0.2134	0.1086	1.12	0.1214	1.46E-3	0.001	
0.027	48.75	2.05	1.33	31.77	0.40	1633.19	5.0E-4	0.2163	0.1124	1.12	0.1256	1.51E-3	0.002	
0.029	48.70	2.05	1.33	31.39	0.40	1625.63	5.0E-4	0.2194	0.1163	1.12	0.1300	1.56E-3	0.002	
0.030	48.65	2.05	1.33	31.00	0.40	1618.02	5.0E-4	0.2225	0.1204	1.12	0.1346	1.61E-3	0.002	
0.030	48.60	2.04	1.33	30.61	0.40	1610.35	5.0E-4	0.2258	0.1246	1.12	0.1393	1.67E-3	0.002	

0.032	48.55	2.04	1.33	30.18	0.40	1601.91	5.1E-4	0.2295	0.1295	1.12	0.1447	1.74E-3	0.002
0.034	48.50	2.04	1.33	29.75	0.40	1593.41	5.1E-4	0.2334	0.1346	1.12	0.1504	1.81E-3	0.002
0.035	48.45	2.04	1.32	29.32	0.40	1584.83	5.1E-4	0.2375	0.1399	1.12	0.1564	1.88E-3	0.002
0.037	48.40	2.03	1.32	28.88	0.40	1576.18	5.1E-4	0.2417	0.1455	1.12	0.1627	1.95E-3	0.002
0.039	48.35	2.03	1.32	28.45	0.40	1567.45	5.2E-4	0.2460	0.1514	1.12	0.1693	2.03E-3	0.002
0.041	48.30	2.03	1.32	28.02	0.40	1558.64	5.2E-4	0.2506	0.1577	1.12	0.1763	2.12E-3	0.002
0.043	48.25	2.03	1.32	27.59	0.40	1549.74	5.2E-4	0.2554	0.1643	1.12	0.1836	2.20E-3	0.002
0.046	48.20	2.03	1.32	27.15	0.40	1540.77	5.2E-4	0.2604	0.1712	1.12	0.1914	2.30E-3	0.002
0.048	48.15	2.02	1.32	26.72	0.40	1531.71	5.3E-4	0.2656	0.1786	1.12	0.1996	2.40E-3	0.002
0.050	48.10	2.02	1.31	26.28	0.40	1522.55	5.3E-4	0.2710	0.1864	1.12	0.2084	2.50E-3	0.003
0.053	48.05	2.02	1.31	25.85	0.40	1513.31	5.3E-4	0.2768	0.1946	1.12	0.2176	2.61E-3	0.003
0.055	48.00	2.02	1.31	25.42	0.40	1504.06	5.4E-4	0.2827	0.2034	1.12	0.2274	0.00E0	0.000
0.055	47.95	2.02	1.31	25.47	0.40	1504.25	5.4E-4	0.2820	0.2023	1.12	0.2262	0.00E0	0.000
0.055	47.90	2.01	1.31	25.52	0.40	1504.43	5.4E-4	0.2813	0.2013	1.12	0.2250	0.00E0	0.000
0.055	47.85	2.01	1.31	25.57	0.40	1504.62	5.4E-4	0.2806	0.2002	1.12	0.2239	0.00E0	0.000
0.055	47.80	2.01	1.31	25.62	0.40	1504.81	5.3E-4	0.2798	0.1992	1.12	0.2227	0.00E0	0.000
0.055	47.75	2.01	1.30	25.67	0.40	1504.99	5.3E-4	0.2791	0.1982	1.12	0.2216	0.00E0	0.000
0.055	47.70	2.00	1.30	25.72	0.40	1505.18	5.3E-4	0.2784	0.1971	1.12	0.2204	0.00E0	0.000
0.055	47.65	2.00	1.30	25.77	0.40	1505.36	5.3E-4	0.2777	0.1961	1.12	0.2193	0.00E0	0.000
0.055	47.60	2.00	1.30	25.82	0.40	1505.55	5.3E-4	0.2770	0.1951	1.12	0.2182	0.00E0	0.000
0.055	47.55	2.00	1.30	25.87	0.40	1505.73	5.3E-4	0.2763	0.1941	1.12	0.2170	0.00E0	0.000
0.055	47.50	2.00	1.30	25.92	0.40	1505.92	5.3E-4	0.2757	0.1931	1.12	0.2159	0.00E0	0.000
0.055	47.45	1.99	1.30	25.97	0.40	1506.10	5.3E-4	0.2750	0.1921	1.12	0.2148	0.00E0	0.000
0.055	47.40	1.99	1.29	26.02	0.40	1506.29	5.3E-4	0.2743	0.1912	1.12	0.2137	0.00E0	0.000
0.055	47.35	1.99	1.29	26.07	0.40	1506.47	5.3E-4	0.2736	0.1902	1.12	0.2126	0.00E0	0.000
0.055	47.30	1.99	1.29	26.12	0.40	1506.66	5.3E-4	0.2729	0.1892	1.12	0.2116	0.00E0	0.000
0.055	47.25	1.99	1.29	26.18	0.40	1506.84	5.3E-4	0.2723	0.1883	1.12	0.2105	0.00E0	0.000
0.055	47.20	1.98	1.29	26.23	0.40	1507.02	5.3E-4	0.2716	0.1873	1.12			

0.055	46.85	1.97	1.28	26.58	0.40	1508.30	5.3E-4	0.2670	0.1808	1.12	0.2021	0.00E0	0.000
0.055	46.80	1.97	1.28	26.63	0.40	1508.49	5.3E-4	0.2664	0.1799	1.12	0.2011	0.00E0	0.000
0.055	46.75	1.96	1.28	26.68	0.41	1508.67	5.3E-4	0.2657	0.1790	1.12	0.2001	0.00E0	0.000
0.055	46.70	1.96	1.28	26.74	0.41	1508.85	5.3E-4	0.2651	0.1781	1.12	0.1991	0.00E0	0.000
0.055	46.65	1.96	1.27	26.79	0.41	1509.03	5.3E-4	0.2645	0.1772	1.12	0.1981	0.00E0	0.000
0.055	46.60	1.96	1.27	26.84	0.41	1509.21	5.3E-4	0.2639	0.1763	1.12	0.1971	0.00E0	0.000
0.055	46.55	1.96	1.27	26.89	0.41	1509.39	5.3E-4	0.2632	0.1754	1.12	0.1961	0.00E0	0.000
0.055	46.50	1.95	1.27	26.94	0.41	1509.54	5.3E-4	0.2626	0.1746	1.12	0.1952	0.00E0	0.000
0.055	46.45	1.95	1.27	26.78	0.41	1505.88	5.3E-4	0.2645	0.1772	1.12	0.1981	0.00E0	0.000
0.055	46.40	1.95	1.27	26.63	0.41	1502.21	5.3E-4	0.2664	0.1799	1.12	0.2012	0.00E0	0.000
0.055	46.35	1.95	1.27	26.48	0.41	1498.52	5.3E-4	0.2683	0.1827	1.12	0.2042	0.00E0	0.000
0.055	46.30	1.95	1.27	26.32	0.41	1494.82	5.3E-4	0.2703	0.1855	1.12	0.2074	0.00E0	0.000
0.055	46.25	1.94	1.26	26.17	0.41	1491.11	5.3E-4	0.2723	0.1884	1.12	0.2106	0.00E0	0.000
0.055	46.20	1.94	1.26	26.01	0.41	1487.39	5.3E-4	0.2743	0.1913	1.12	0.2139	0.00E0	0.000
0.055	46.15	1.94	1.26	25.85	0.41	1483.66	5.3E-4	0.2764	0.1943	1.12	0.2173	0.00E0	0.000
0.055	46.10	1.94	1.26	25.70	0.41	1479.91	5.3E-4	0.2785	0.1974	1.12	0.2207	0.00E0	0.000
0.055	46.05	1.94	1.26	25.54	0.41	1476.15	5.4E-4	0.2806	0.2005	1.12	0.2242	0.00E0	0.000
0.055	46.00	1.93	1.26	25.39	0.41	1472.38	5.4E-4	0.2828	0.2038	1.12	0.2278	0.00E0	0.000
0.055	45.95	1.93	1.26	25.23	0.41	1468.59	5.4E-4	0.2850	0.2070	1.12	0.2315	0.00E0	0.000
0.055	45.90	1.93	1.25	25.08	0.41	1464.79	5.4E-4	0.2873	0.2104	1.12	0.2353	0.00E0	0.000
0.055	45.85	1.93	1.25	24.92	0.41	1460.98	5.4E-4	0.2895	0.2139	1.12	0.2391	0.00E0	0.000
0.055	45.80	1.93	1.25	24.76	0.41	1457.15	5.4E-4	0.2919	0.2174	1.12	0.2431	0.00E0	0.000
0.055	45.75	1.92	1.25	24.61	0.41	1453.32	5.4E-4	0.2943	0.2210	1.12	0.2471	0.00E0	0.000
0.055	45.70	1.92	1.25	24.45	0.41	1449.46	5.4E-4	0.2967	0.2247	1.12	0.2513	0.00E0	0.000
0.055	45.65	1.92	1.25	24.29	0.41	1445.60	5.4E-4	0.2991	0.2285	1.12	0.2555	0.00E0	0.000
0.055	45.60	1.92	1.25	24.14	0.41	1441.72	5.5E-4	0.3017	0.2324	1.12	0.2599	0.00E0	0.000
0.055	45.55	1.92	1.25	23.98	0.41	1437.82	5.5E-4	0.3042	0.2365	1.12	0.2644	0.00E0	0.000
0.055	45.50	1.91	1.24	23.82	0.41	1433.91	5.5E-4	0.3068	0.2406	1.12	0.2690	0.00E0	0.000
0.055	45.45	1.91	1.24	23.66	0.41	1429.99	5.5E-4	0.3095	0.2448	1.12	0.2737	0.00E0	0.000
0.055	45.40	1.91	1.24	23.51	0.41	1426.05	5.5E-4	0.3122	0.2491	1.12	0.2785	0.00E0	0.000
0.055	45.35	1.91	1.24	23.35	0.41	1422.10	5.5E-4	0.3150	0.2535	1.12	0.2835	0.00E0	0.000
0.055	45.30	1.91	1.24	23.19	0.41	1418.13	5.5E-4	0.3178	0.2581	1.12	0.2886	0.00E0	0.000
0.055	45.25	1.90	1.24	23.03	0.41	1414.15	5.5E-4	0.3207	0.2628	1.12	0.2938	0.00E0	0.000
0.055	45.20	1.90	1.24	22.87	0.41	1410.15	5.6E-4	0.3236	0.2676	1.12	0.2992	0.00E0	0.000
0.055	45.15	1.90	1.24	22.72	0.41	1406.14	5.6E-4	0.3266	0.2725	1.12	0.3047	0.00E0	0.000

0.055	45.10	1.90	1.23	22.56	0.41	1402.11	5.6E-4	0.3297	0.2776	1.12	0.3104	0.00E0	0.000
0.055	45.05	1.90	1.23	22.40	0.41	1398.06	5.6E-4	0.3328	0.2828	1.12	0.3162	0.00E0	0.000
0.055	45.00	1.89	1.23	22.24	0.41	1394.07	5.6E-4	0.3359	0.2881	1.12	0.3221	0.00E0	0.000
0.055	44.95	1.89	1.23	22.50	0.41	1398.70	5.6E-4	0.3306	0.2793	1.12	0.3123	0.00E0	0.000
0.055	44.90	1.89	1.23	22.76	0.41	1403.29	5.6E-4	0.3255	0.2709	1.12	0.3029	0.00E0	0.000
0.055	44.85	1.89	1.23	23.02	0.41	1407.83	5.5E-4	0.3205	0.2628	1.12	0.2939	0.00E0	0.000
0.055	44.80	1.89	1.23	23.28	0.41	1412.34	5.5E-4	0.3157	0.2551	1.12	0.2852	0.00E0	0.000
0.055	44.75	1.88	1.22	23.54	0.41	1416.81	5.5E-4	0.3111	0.2477	1.12	0.2770	0.00E0	0.000
0.055	44.70	1.88	1.22	23.80	0.41	1421.25	5.5E-4	0.3066	0.2406	1.12	0.2690	0.00E0	0.000
0.055	44.65	1.88	1.22	24.06	0.41	1425.64	5.5E-4	0.3022	0.2338	1.12	0.2614	0.00E0	0.000
0.055	44.60	1.88	1.22	24.32	0.41	1430.00	5.4E-4	0.2979	0.2273	1.12	0.2541	0.00E0	0.000
0.055	44.55	1.88	1.22	24.58	0.41	1434.32	5.4E-4	0.2938	0.2210	1.12	0.2470	0.00E0	0.000
0.055	44.50	1.87	1.22	24.84	0.41	1438.61	5.4E-4	0.2898	0.2149	1.12	0.2403	0.00E0	0.000
0.055	44.45	1.87	1.22	25.11	0.41	1442.86	5.4E-4	0.2859	0.2091	1.12	0.2338	0.00E0	0.000
0.055	44.40	1.87	1.22	25.37	0.41	1447.07	5.4E-4	0.2821	0.2035	1.12	0.2275	0.00E0	0.000
0.055	44.35	1.87	1.21	25.63	0.41	1451.26	5.3E-4	0.2784	0.1980	1.12	0.2214	0.00E0	0.000
0.055	44.30	1.87	1.21	25.89	0.42	1455.40	5.3E-4	0.2748	0.1928	1.12	0.2156	0.00E0	0.000
0.055	44.25	1.86	1.21	26.16	0.42	1459.52	5.3E-4	0.2713	0.1878	1.12	0.2099	0.00E0	0.000
0.055	44.20	1.86	1.21	26.42	0.42	1463.60	5.3E-4	0.2679	0.1829	1.12	0.2045	0.00E0	0.000
0.055	44.15	1.86	1.21	26.68	0.42	1467.66	5.3E-4	0.2646	0.1782	1.12	0.1993	0.00E0	0.000
0.055	44.10	1.86	1.21	26.95	0.42	1471.68	5.3E-4	0.2614	0.1737	1.12	0.1942	0.00E0	0.000
0.055	44.05	1.86	1.21	27.21	0.42	1475.67	5.2E-4	0.2582	0.1693	1.12	0.1893	0.00E0	0.000
0.055	44.00	1.85	1.20	27.47	0.42	1479.63	5.2E-4	0.2551	0.1650	1.12	0.1845	0.00E0	0.000
0.055	43.95	1.85	1.20	27.74	0.42	1483.56	5.2E-4	0.2521	0.1609	1.12	0.1799	0.00E0	0.000
0.055	43.90	1.85	1.20	28.00	0.42	1487.45	5.2E-4	0.2492	0.1569	1.12	0.1755	0.00E0	0.000
0.055	43.85	1.85	1.20	28.27	0.42	1491.32	5.2E-4	0.2464	0.1531	1.12	0.1711	0.00E0	0.000
0.055	43.80	1.85	1.20	28.53	0.42	1495.17	5.2E-4	0.2436	0.1493	1.12	0.1670	0.00E0	0.000
0.055	43.75	1.84	1.20	28.80	0.42	1498.98	5.1E-4	0.2409	0.1457	1.12	0.1629		

0.055	43.40	1.83	1.19	29.81	0.42	1510.64	5.1E-4	0.2310	0.1327	1.12	0.1484	0.00E0	0.000
0.055	43.35	1.83	1.19	29.65	0.42	1507.16	5.1E-4	0.2324	0.1346	1.12	0.1505	0.00E0	0.000
0.055	43.30	1.83	1.19	29.50	0.42	1503.67	5.1E-4	0.2339	0.1365	1.12	0.1527	0.00E0	0.000
0.055	43.25	1.82	1.19	29.34	0.42	1500.17	5.1E-4	0.2353	0.1385	1.12	0.1548	0.00E0	0.000
0.055	43.20	1.82	1.18	29.18	0.42	1496.66	5.1E-4	0.2368	0.1405	1.12	0.1571	0.00E0	0.000
0.055	43.15	1.82	1.18	29.02	0.42	1493.14	5.1E-4	0.2383	0.1425	1.12	0.1593	0.00E0	0.000
0.055	43.10	1.82	1.18	28.86	0.42	1489.62	5.1E-4	0.2398	0.1446	1.12	0.1616	0.00E0	0.000
0.055	43.05	1.82	1.18	28.70	0.42	1486.08	5.1E-4	0.2413	0.1467	1.12	0.1640	0.00E0	0.000
0.055	43.00	1.81	1.18	28.54	0.42	1482.53	5.1E-4	0.2429	0.1488	1.12	0.1664	0.00E0	0.000
0.055	42.95	1.81	1.18	28.38	0.42	1478.97	5.2E-4	0.2445	0.1510	1.12	0.1688	0.00E0	0.000
0.055	42.90	1.81	1.18	28.22	0.42	1475.40	5.2E-4	0.2461	0.1532	1.12	0.1713	0.00E0	0.000
0.055	42.85	1.81	1.18	28.06	0.42	1471.82	5.2E-4	0.2478	0.1555	1.12	0.1739	0.00E0	0.000
0.055	42.80	1.81	1.17	27.91	0.42	1468.23	5.2E-4	0.2494	0.1578	1.12	0.1765	0.00E0	0.000
0.055	42.75	1.80	1.17	27.75	0.42	1464.63	5.2E-4	0.2511	0.1602	1.12	0.1791	0.00E0	0.000
0.055	42.70	1.80	1.17	27.58	0.42	1461.02	5.2E-4	0.2529	0.1626	1.12	0.1818	0.00E0	0.000
0.055	42.65	1.80	1.17	27.42	0.42	1457.40	5.2E-4	0.2546	0.1651	1.12	0.1846	0.00E0	0.000
0.055	42.60	1.80	1.17	27.26	0.42	1453.76	5.2E-4	0.2564	0.1676	1.12	0.1874	0.00E0	0.000
0.055	42.55	1.80	1.17	27.10	0.42	1450.12	5.2E-4	0.2582	0.1702	1.12	0.1903	0.00E0	0.000
0.055	42.50	1.79	1.17	26.94	0.42	1446.46	5.2E-4	0.2600	0.1728	1.12	0.1932	0.00E0	0.000
0.055	42.45	1.79	1.17	26.78	0.42	1442.80	5.3E-4	0.2619	0.1755	1.12	0.1963	0.00E0	0.000
0.055	42.40	1.79	1.16	26.62	0.42	1439.12	5.3E-4	0.2638	0.1783	1.12	0.1993	0.00E0	0.000
0.055	42.35	1.79	1.16	26.46	0.42	1435.43	5.3E-4	0.2658	0.1811	1.12	0.2025	0.00E0	0.000
0.055	42.30	1.79	1.16	26.30	0.42	1431.73	5.3E-4	0.2678	0.1840	1.12	0.2057	0.00E0	0.000
0.055	42.25	1.79	1.16	26.14	0.42	1428.01	5.3E-4	0.2698	0.1869	1.12	0.2090	0.00E0	0.000
0.055	42.20	1.78	1.16	25.97	0.42	1424.29	5.3E-4	0.2718	0.1899	1.12	0.2124	0.00E0	0.000
0.055	42.15	1.78	1.16	25.81	0.42	1420.55	5.3E-4	0.2739	0.1930	1.12	0.2158	0.00E0	0.000
0.055	42.10	1.78	1.16	25.65	0.42	1416.80	5.3E-4	0.2760	0.1962	1.12	0.2193	0.00E0	0.000
0.055	42.05	1.78	1.16	25.49	0.42	1413.04	5.3E-4	0.2782	0.1994	1.12	0.2230	0.00E0	0.000
0.055	42.00	1.78	1.15	25.33	0.42	1409.31	5.4E-4	0.2804	0.2027	1.12	0.2266	0.00E0	0.000
0.055	41.95	1.77	1.15	25.55	0.42	1412.72	5.3E-4	0.2772	0.1980	1.12	0.2214	0.00E0	0.000
0.055	41.90	1.77	1.15	25.78	0.43	1416.10	5.3E-4	0.2741	0.1935	1.12	0.2163	0.00E0	0.000
0.055	41.85	1.77	1.15	26.00	0.43	1419.45	5.3E-4	0.2710	0.1891	1.12	0.2114	0.00E0	0.000
0.055	41.80	1.77	1.15	26.23	0.43	1422.78	5.3E-4	0.2681	0.1848	1.12	0.2066	0.00E0	0.000
0.055	41.75	1.77	1.15	26.46	0.43	1426.09	5.3E-4	0.2652	0.1807	1.12	0.2020	0.00E0	0.000
0.055	41.70	1.76	1.15	26.68	0.43	1429.37	5.3E-4	0.2623	0.1767	1.12	0.1975	0.00E0	0.000

0.055	41.65	1.76	1.15	26.91	0.43	1432.63	5.2E-4	0.2595	0.1728	1.12	0.1932	0.00E0	0.000
0.055	41.60	1.76	1.14	27.14	0.43	1435.87	5.2E-4	0.2568	0.1690	1.12	0.1889	0.00E0	0.000
0.055	41.55	1.76	1.14	27.37	0.43	1439.09	5.2E-4	0.2542	0.1653	1.12	0.1848	0.00E0	0.000
0.055	41.50	1.76	1.14	27.59	0.43	1442.28	5.2E-4	0.2516	0.1617	1.12	0.1808	0.00E0	0.000
0.055	41.45	1.75	1.14	27.82	0.43	1445.45	5.2E-4	0.2490	0.1582	1.12	0.1769	0.00E0	0.000
0.055	41.40	1.75	1.14	28.05	0.43	1448.60	5.2E-4	0.2465	0.1549	1.12	0.1731	0.00E0	0.000
0.055	41.35	1.75	1.14	28.28	0.43	1451.73	5.2E-4	0.2441	0.1516	1.12	0.1694	0.00E0	0.000
0.055	41.30	1.75	1.14	28.51	0.43	1454.84	5.1E-4	0.2417	0.1483	1.12	0.1659	0.00E0	0.000
0.055	41.25	1.75	1.14	28.74	0.43	1457.93	5.1E-4	0.2393	0.1452	1.12	0.1624	0.00E0	0.000
0.055	41.20	1.74	1.13	28.97	0.43	1460.99	5.1E-4	0.2371	0.1422	1.12	0.1589	0.00E0	0.000
0.055	41.15	1.74	1.13	29.20	0.43	1464.04	5.1E-4	0.2348	0.1392	1.12	0.1556	0.00E0	0.000
0.055	41.10	1.74	1.13	29.43	0.43	1467.06	5.1E-4	0.2326	0.1363	1.12	0.1524	0.00E0	0.000
0.055	41.05	1.74	1.13	29.66	0.43	1470.07	5.1E-4	0.2304	0.1334	1.12	0.1492	0.00E0	0.000
0.055	41.00	1.74	1.13	29.89	0.43	1473.06	5.1E-4	0.2283	0.1307	1.12	0.1461	0.00E0	0.000
0.055	40.95	1.74	1.13	30.12	0.43	1476.02	5.0E-4	0.2262	0.1280	1.12	0.1431	0.00E0	0.000
0.055	40.90	1.73	1.13	30.35	0.43	1478.97	5.0E-4	0.2242	0.1253	1.12	0.1401	0.00E0	0.000
0.055	40.85	1.73	1.13	30.58	0.43	1481.90	5.0E-4	0.2222	0.1228	1.12	0.1372	0.00E0	0.000
0.055	40.80	1.73	1.12	30.81	0.43	1484.81	5.0E-4	0.2202	0.1202	1.12	0.1344	0.00E0	0.000
0.055	40.75	1.73	1.12	31.04	0.43	1487.70	5.0E-4	0.2183	0.1178	1.12	0.1317	0.00E0	0.000
0.055	40.70	1.73	1.12	31.28	0.43	1490.57	5.0E-4	0.2164	0.1154	1.12	0.1290	0.00E0	0.000
0.055	40.65	1.72	1.12	31.51	0.43	1493.43	5.0E-4	0.2145	0.1130	1.12	0.1263	0.00E0	0.000
0.055	40.60	1.72	1.12	31.74	0.43	1496.26	5.0E-4	0.2127	0.1107	1.12	0.1238	0.00E0	0.000
0.055	40.55	1.72	1.12	31.97	0.43	1499.08	4.9E-4	0.2109	0.1084	1.12	0.1212	0.00E0	0.000
0.055	40.50	1.72	1.12	32.20	0.43	1501.85	4.9E-4	0.2091	0.1062	1.12	0.1188	0.00E0	0.000
0.055	40.45	1.72	1.12	32.13	0.43	1499.87	4.9E-4	0.2096	0.1069	1.12	0.1195	0.00E0	0.000
0.055	40.40	1.71	1.11	32.06	0.43	1497.90	4.9E-4	0.2101	0.1076	1.12	0.1203	0.00E0	0.000
0.055	40.35	1.71	1.11	31.98	0.43	1495.92	4.9E-4	0.2106	0.1082	1.12	0.1210	0.00E0	0.000
0.055	40.30	1.71	1.11	31.91	0.43	1493.94	4.9E-4	0.2111	0.1089	1.12	0.1218		

0.055	39.95	1.70	1.10	31.38	0.43	1480.05	5.0E-4	0.2148	0.1139	1.12	0.1273	0.00E0	0.000
0.055	39.90	1.70	1.10	31.31	0.43	1478.06	5.0E-4	0.2153	0.1146	1.12	0.1281	0.00E0	0.000
0.055	39.85	1.69	1.10	31.23	0.43	1476.07	5.0E-4	0.2158	0.1153	1.12	0.1289	0.00E0	0.000
0.055	39.80	1.69	1.10	31.16	0.43	1474.08	5.0E-4	0.2164	0.1161	1.12	0.1298	0.00E0	0.000
0.055	39.75	1.69	1.10	31.08	0.43	1472.09	5.0E-4	0.2169	0.1168	1.12	0.1306	0.00E0	0.000
0.055	39.70	1.69	1.10	31.01	0.43	1470.09	5.0E-4	0.2175	0.1176	1.12	0.1314	0.00E0	0.000
0.055	39.65	1.69	1.10	30.93	0.43	1468.10	5.0E-4	0.2181	0.1183	1.12	0.1323	0.00E0	0.000
0.055	39.60	1.68	1.09	30.86	0.43	1466.10	5.0E-4	0.2186	0.1191	1.12	0.1331	0.00E0	0.000
0.055	39.55	1.68	1.09	30.78	0.43	1464.10	5.0E-4	0.2192	0.1199	1.12	0.1340	0.00E0	0.000
0.055	39.50	1.68	1.09	30.71	0.44	1462.11	5.0E-4	0.2197	0.1206	1.12	0.1349	0.00E0	0.000
0.055	39.45	1.68	1.09	30.63	0.44	1460.11	5.0E-4	0.2203	0.1214	1.12	0.1358	0.00E0	0.000
0.055	39.40	1.68	1.09	30.55	0.44	1458.11	5.0E-4	0.2209	0.1222	1.12	0.1366	0.00E0	0.000
0.055	39.35	1.68	1.09	30.48	0.44	1456.10	5.0E-4	0.2215	0.1230	1.12	0.1375	0.00E0	0.000
0.055	39.30	1.67	1.09	30.40	0.44	1454.10	5.0E-4	0.2221	0.1238	1.12	0.1384	0.00E0	0.000
0.055	39.25	1.67	1.09	30.32	0.44	1452.09	5.0E-4	0.2227	0.1246	1.12	0.1394	0.00E0	0.000
0.055	39.20	1.67	1.09	30.25	0.44	1450.09	5.0E-4	0.2233	0.1255	1.12	0.1403	0.00E0	0.000
0.055	39.15	1.67	1.08	30.17	0.44	1448.08	5.0E-4	0.2239	0.1263	1.12	0.1412	0.00E0	0.000
0.055	39.10	1.67	1.08	30.10	0.44	1446.07	5.0E-4	0.2245	0.1271	1.12	0.1421	0.00E0	0.000
0.055	39.05	1.66	1.08	30.02	0.44	1444.06	5.0E-4	0.2251	0.1280	1.12	0.1431	0.00E0	0.000
0.055	39.00	1.66	1.08	29.94	0.44	1442.05	5.0E-4	0.2257	0.1288	1.12	0.1440	0.00E0	0.000
0.055	38.95	1.66	1.08	29.82	0.44	1439.31	5.0E-4	0.2267	0.1302	1.12	0.1456	0.00E0	0.000
0.055	38.90	1.66	1.08	29.70	0.44	1436.58	5.1E-4	0.2277	0.1316	1.12	0.1472	0.00E0	0.000
0.055	38.85	1.66	1.08	29.58	0.44	1433.83	5.1E-4	0.2288	0.1330	1.12	0.1487	0.00E0	0.000
0.055	38.80	1.66	1.08	29.45	0.44	1431.08	5.1E-4	0.2298	0.1345	1.12	0.1503	0.00E0	0.000
0.055	38.75	1.65	1.07	29.33	0.44	1428.32	5.1E-4	0.2309	0.1359	1.12	0.1520	0.00E0	0.000
0.055	38.70	1.65	1.07	29.21	0.44	1425.56	5.1E-4	0.2320	0.1374	1.12	0.1536	0.00E0	0.000
0.055	38.65	1.65	1.07	29.09	0.44	1422.79	5.1E-4	0.2330	0.1389	1.12	0.1553	0.00E0	0.000
0.055	38.60	1.65	1.07	28.97	0.44	1420.01	5.1E-4	0.2341	0.1404	1.12	0.1570	0.00E0	0.000
0.055	38.55	1.65	1.07	28.84	0.44	1417.22	5.1E-4	0.2352	0.1419	1.12	0.1587	0.00E0	0.000
0.055	38.50	1.64	1.07	28.72	0.44	1414.43	5.1E-4	0.2363	0.1435	1.12	0.1605	0.00E0	0.000
0.055	38.45	1.64	1.07	28.60	0.44	1411.63	5.1E-4	0.2375	0.1451	1.12	0.1622	0.00E0	0.000
0.055	38.40	1.64	1.07	28.48	0.44	1408.83	5.1E-4	0.2386	0.1467	1.12	0.1640	0.00E0	0.000
0.055	38.35	1.64	1.07	28.35	0.44	1406.01	5.1E-4	0.2398	0.1483	1.12	0.1658	0.00E0	0.000
0.055	38.30	1.64	1.06	28.23	0.44	1403.20	5.1E-4	0.2409	0.1500	1.12	0.1677	0.00E0	0.000
0.055	38.25	1.64	1.06	28.11	0.44	1400.37	5.1E-4	0.2421	0.1517	1.12	0.1696	0.00E0	0.000

0.055	38.20	1.63	1.06	27.98	0.44	1397.53	5.1E-4	0.2433	0.1534	1.12	0.1715	0.00E0	0.000
0.055	38.15	1.63	1.06	27.86	0.44	1394.69	5.2E-4	0.2445	0.1551	1.12	0.1734	0.00E0	0.000
0.055	38.10	1.63	1.06	27.74	0.44	1391.84	5.2E-4	0.2457	0.1568	1.12	0.1754	0.00E0	0.000
0.055	38.05	1.63	1.06	27.61	0.44	1388.99	5.2E-4	0.2470	0.1586	1.12	0.1773	0.00E0	0.000
0.055	38.00	1.63	1.06	27.49	0.44	1386.13	5.2E-4	0.2482	0.1604	1.12	0.1794	0.00E0	0.000
0.055	37.95	1.62	1.06	27.37	0.44	1383.26	5.2E-4	0.2495	0.1623	1.12	0.1814	0.00E0	0.000
0.055	37.90	1.62	1.05	27.24	0.44	1380.38	5.2E-4	0.2508	0.1641	1.12	0.1835	0.00E0	0.000
0.055	37.85	1.62	1.05	27.12	0.44	1377.49	5.2E-4	0.2521	0.1660	1.12	0.1856	0.00E0	0.000
0.055	37.80	1.62	1.05	26.99	0.44	1374.60	5.2E-4	0.2534	0.1680	1.12	0.1878	0.00E0	0.000
0.055	37.75	1.62	1.05	26.87	0.44	1371.70	5.2E-4	0.2547	0.1699	1.12	0.1900	0.00E0	0.000
0.055	37.70	1.62	1.05	26.75	0.44	1368.79	5.2E-4	0.2560	0.1719	1.12	0.1922	0.00E0	0.000
0.055	37.65	1.61	1.05	26.62	0.44	1365.87	5.2E-4	0.2574	0.1739	1.12	0.1945	0.00E0	0.000
0.055	37.60	1.61	1.05	26.50	0.44	1362.95	5.2E-4	0.2588	0.1760	1.12	0.1968	0.00E0	0.000
0.055	37.55	1.61	1.05	26.37	0.44	1360.02	5.2E-4	0.2602	0.1781	1.12	0.1991	0.00E0	0.000
0.055	37.50	1.61	1.04	26.25	0.44	1357.09	5.3E-4	0.2616	0.1802	1.12	0.2015	0.00E0	0.000
0.055	37.45	1.61	1.04	26.26	0.44	1356.49	5.3E-4	0.2613	0.1799	1.12	0.2012	0.00E0	0.000
0.055	37.40	1.60	1.04	26.27	0.44	1355.88	5.3E-4	0.2611	0.1796	1.12	0.2008	0.00E0	0.000
0.055	37.35	1.60	1.04	26.28	0.44	1355.28	5.2E-4	0.2608	0.1794	1.12	0.2005	0.00E0	0.000
0.055	37.30	1.60	1.04	26.29	0.44	1354.68	5.2E-4	0.2606	0.1791	1.12	0.2002	0.00E0	0.000
0.055	37.25	1.60	1.04	26.30	0.44	1354.07	5.2E-4	0.2603	0.1788	1.12	0.1999	0.00E0	0.000
0.055	37.20	1.60	1.04	26.31	0.44	1353.46	5.2E-4	0.2601	0.1785	1.12	0.1996	0.00E0	0.000
0.055	37.15	1.59	1.04	26.33	0.44	1352.86	5.2E-4	0.2598	0.1782	1.12	0.1993	0.00E0	0.000
0.055	37.10	1.59	1.04	26.34	0.45	1352.25	5.2E-4	0.2595	0.1780	1.12	0.1990	0.00E0	0.000
0.055	37.05	1.59	1.03	26.35	0.45	1351.64	5.2E-4	0.2593	0.1777	1.12	0.1987	0.00E0	0.000
0.055	37.00	1.59	1.03	26.36	0.45	1351.03	5.2E-4	0.2590	0.1774	1.12	0.1983	0.00E0	0.000
0.055	36.95	1.59	1.03	26.37	0.45	1350.42	5.2E-4	0.2588	0.1771	1.12	0.1980	0.00E0	0.000
0.055	36.90	1.58	1.03	26.38	0.45	1349.81	5.2E-4	0.2585	0.1768	1.12	0.1977	0.00E0	0.000
0.055	36.85	1.58	1.03	26.39	0.45	1349.20	5.2E-4	0.2582	0.1765	1.12	0.1974		

0.055	36.50	1.57	1.02	26.48	0.45	1344.89	5.2E-4	0.2564	0.1745	1.12	0.1951	0.00E0	0.000
0.055	36.45	1.57	1.02	26.49	0.45	1344.27	5.2E-4	0.2561	0.1742	1.12	0.1948	0.00E0	0.000
0.055	36.40	1.57	1.02	26.50	0.45	1343.65	5.2E-4	0.2558	0.1739	1.12	0.1945	0.00E0	0.000
0.055	36.35	1.56	1.02	26.51	0.45	1343.03	5.2E-4	0.2555	0.1736	1.12	0.1941	0.00E0	0.000
0.055	36.30	1.56	1.02	26.52	0.45	1342.41	5.2E-4	0.2553	0.1733	1.12	0.1938	0.00E0	0.000
0.055	36.25	1.56	1.01	26.53	0.45	1341.79	5.2E-4	0.2550	0.1731	1.12	0.1935	0.00E0	0.000
0.055	36.20	1.56	1.01	26.55	0.45	1341.16	5.2E-4	0.2547	0.1728	1.12	0.1932	0.00E0	0.000
0.055	36.15	1.56	1.01	26.56	0.45	1340.54	5.2E-4	0.2544	0.1725	1.12	0.1928	0.00E0	0.000
0.055	36.10	1.55	1.01	26.57	0.45	1339.91	5.2E-4	0.2541	0.1722	1.12	0.1925	0.00E0	0.000
0.055	36.05	1.55	1.01	26.58	0.45	1339.29	5.2E-4	0.2539	0.1719	1.12	0.1922	0.00E0	0.000
0.055	36.00	1.55	1.01	26.59	0.45	1338.67	5.2E-4	0.2536	0.1716	1.12	0.1918	0.00E0	0.000
0.055	35.95	1.55	1.01	26.75	0.45	1340.36	5.2E-4	0.2517	0.1690	1.12	0.1889	0.00E0	0.000
0.055	35.90	1.55	1.01	26.90	0.45	1342.04	5.2E-4	0.2498	0.1664	1.12	0.1861	0.00E0	0.000
0.055	35.85	1.54	1.00	27.05	0.45	1343.71	5.2E-4	0.2480	0.1639	1.12	0.1833	0.00E0	0.000
0.055	35.80	1.54	1.00	27.20	0.45	1345.37	5.2E-4	0.2462	0.1615	1.12	0.1806	0.00E0	0.000
0.055	35.75	1.54	1.00	27.35	0.45	1347.01	5.2E-4	0.2444	0.1591	1.12	0.1779	0.00E0	0.000
0.055	35.70	1.54	1.00	27.50	0.45	1348.65	5.1E-4	0.2427	0.1567	1.12	0.1752	0.00E0	0.000
0.055	35.65	1.54	1.00	27.65	0.45	1350.27	5.1E-4	0.2409	0.1544	1.12	0.1726	0.00E0	0.000
0.055	35.60	1.54	1.00	27.81	0.45	1351.89	5.1E-4	0.2392	0.1521	1.12	0.1701	0.00E0	0.000
0.055	35.55	1.53	1.00	27.96	0.45	1353.49	5.1E-4	0.2375	0.1499	1.12	0.1676	0.00E0	0.000
0.055	35.50	1.53	1.00	28.11	0.45	1355.09	5.1E-4	0.2358	0.1477	1.12	0.1651	0.00E0	0.000
0.055	35.45	1.53	0.99	28.26	0.45	1356.67	5.1E-4	0.2342	0.1455	1.12	0.1627	0.00E0	0.000
0.055	35.40	1.53	0.99	28.42	0.45	1358.25	5.1E-4	0.2326	0.1434	1.12	0.1603	0.00E0	0.000
0.055	35.35	1.53	0.99	28.57	0.45	1359.81	5.1E-4	0.2310	0.1413	1.12	0.1580	0.00E0	0.000
0.055	35.30	1.52	0.99	28.72	0.45	1361.36	5.1E-4	0.2294	0.1393	1.12	0.1557	0.00E0	0.000
0.055	35.25	1.52	0.99	28.88	0.45	1362.91	5.1E-4	0.2278	0.1372	1.12	0.1534	0.00E0	0.000
0.055	35.20	1.52	0.99	29.03	0.45	1364.44	5.0E-4	0.2263	0.1352	1.12	0.1512	0.00E0	0.000
0.055	35.15	1.52	0.99	29.19	0.45	1365.97	5.0E-4	0.2247	0.1333	1.12	0.1490	0.00E0	0.000
0.055	35.10	1.52	0.99	29.34	0.45	1367.48	5.0E-4	0.2232	0.1314	1.12	0.1469	0.00E0	0.000
0.055	35.05	1.51	0.98	29.49	0.45	1368.99	5.0E-4	0.2217	0.1295	1.12	0.1447	0.00E0	0.000
0.055	35.00	1.51	0.98	29.65	0.45	1370.48	5.0E-4	0.2202	0.1276	1.12	0.1427	0.00E0	0.000
0.055	34.95	1.51	0.98	29.80	0.45	1371.97	5.0E-4	0.2188	0.1258	1.12	0.1406	0.00E0	0.000
0.055	34.90	1.51	0.98	29.96	0.45	1373.44	5.0E-4	0.2173	0.1239	1.12	0.1386	0.00E0	0.000
0.055	34.85	1.51	0.98	30.12	0.45	1374.91	5.0E-4	0.2159	0.1222	1.12	0.1366	0.00E0	0.000
0.055	34.80	1.50	0.98	30.27	0.45	1376.36	5.0E-4	0.2145	0.1204	1.12	0.1346	0.00E0	0.000

0.055	34.75	1.50	0.98	30.43	0.45	1377.81	5.0E-4	0.2131	0.1187	1.12	0.1327	0.00E0	0.000
0.055	34.70	1.50	0.97	30.58	0.46	1379.25	4.9E-4	0.2117	0.1170	1.12	0.1308	0.00E0	0.000
0.055	34.65	1.50	0.97	30.74	0.46	1380.68	4.9E-4	0.2104	0.1153	1.12	0.1289	0.00E0	0.000
0.055	34.60	1.50	0.97	30.90	0.46	1382.09	4.9E-4	0.2090	0.1136	1.12	0.1270	0.00E0	0.000
0.055	34.55	1.49	0.97	31.05	0.46	1383.50	4.9E-4	0.2077	0.1120	1.12	0.1252	0.00E0	0.000
0.055	34.50	1.49	0.97	31.21	0.46	1384.89	4.9E-4	0.2064	0.1104	1.12	0.1234	0.00E0	0.000
0.055	34.45	1.49	0.97	31.18	0.46	1383.50	4.9E-4	0.2064	0.1106	1.12	0.1237	0.00E0	0.000
0.055	34.40	1.49	0.97	31.15	0.46	1382.12	4.9E-4	0.2065	0.1108	1.12	0.1239	0.00E0	0.000
0.055	34.35	1.49	0.97	31.12	0.46	1380.73	4.9E-4	0.2066	0.1111	1.12	0.1242	0.00E0	0.000
0.055	34.30	1.48	0.96	31.09	0.46	1379.35	4.9E-4	0.2067	0.1113	1.12	0.1244	0.00E0	0.000
0.055	34.25	1.48	0.96	31.05	0.46	1377.97	4.9E-4	0.2068	0.1115	1.12	0.1247	0.00E0	0.000
0.055	34.20	1.48	0.96	31.02	0.46	1376.58	4.9E-4	0.2069	0.1117	1.12	0.1249	0.00E0	0.000
0.055	34.15	1.48	0.96	30.99	0.46	1375.20	4.9E-4	0.2069	0.1120	1.12	0.1252	0.00E0	0.000
0.055	34.10	1.48	0.96	30.96	0.46	1373.82	4.9E-4	0.2070	0.1122	1.12	0.1254	0.00E0	0.000
0.055	34.05	1.47	0.96	30.93	0.46	1372.43	4.9E-4	0.2071	0.1124	1.12	0.1257	0.00E0	0.000
0.055	34.00	1.47	0.96	30.90	0.46	1371.05	4.9E-4	0.2072	0.1126	1.12	0.1259	0.00E0	0.000
0.055	33.95	1.47	0.96	30.87	0.46	1369.67	4.9E-4	0.2073	0.1129	1.12	0.1262	0.00E0	0.000
0.055	33.90	1.47	0.95	30.83	0.46	1368.29	4.9E-4	0.2074	0.1131	1.12	0.1265	0.00E0	0.000
0.055	33.85	1.47	0.95	30.80	0.46	1366.91	4.9E-4	0.2075	0.1133	1.12	0.1267	0.00E0	0.000
0.055	33.80	1.46	0.95	30.77	0.46	1365.53	4.9E-4	0.2076	0.1136	1.12	0.1270	0.00E0	0.000
0.055	33.75	1.46	0.95	30.74	0.46	1364.15	4.9E-4	0.2077	0.1138	1.12	0.1272	0.00E0	0.000
0.055	33.70	1.46	0.95	30.71	0.46	1362.77	4.9E-4	0.2078	0.1140	1.12	0.1275	0.00E0	0.000
0.055	33.65	1.46	0.95	30.67	0.46	1361.39	4.9E-4	0.2078	0.1143	1.12	0.1278	0.00E0	0.000
0.055	33.60	1.46	0.95	30.64	0.46	1360.01	4.9E-4	0.2079	0.1145	1.12	0.1280	0.00E0	0.000
0.055	33.55	1.45	0.95	30.61	0.46	1358.63	4.9E-4	0.2080	0.1148	1.12	0.1283	0.00E0	0.000
0.055	33.50	1.45	0.94	30.58	0.46	1357.26	4.9E-4	0.2081	0.1150	1.12	0.1286	0.00E0	0.000
0.055	33.45	1.45	0.94	30.55	0.46	1355.88	4.9E-4	0.2082	0.1153	1.12	0.1289	0.00E0	0.000
0.055	33.40	1.45	0.94	30.51	0.46	1354.50	4.9E-4	0.2083	0.1155	1.12	0.1291		

0.055	33.05	1.44	0.93	30.29	0.46	1344.88	4.9E-4	0.2090	0.1172	1.12	0.1311	0.00E0	0.000
0.055	33.00	1.43	0.93	30.25	0.46	1343.50	4.9E-4	0.2091	0.1175	1.12	0.1314	0.00E0	0.000
0.055	32.95	1.43	0.93	30.22	0.46	1342.13	4.9E-4	0.2092	0.1177	1.12	0.1317	0.00E0	0.000
0.055	32.90	1.43	0.93	30.19	0.46	1340.75	4.9E-4	0.2093	0.1180	1.12	0.1319	0.00E0	0.000
0.055	32.85	1.43	0.93	30.16	0.46	1339.37	4.9E-4	0.2094	0.1183	1.12	0.1322	0.00E0	0.000
0.055	32.80	1.43	0.93	30.12	0.46	1337.99	4.9E-4	0.2095	0.1185	1.12	0.1325	0.00E0	0.000
0.055	32.75	1.42	0.93	30.09	0.46	1336.60	4.9E-4	0.2096	0.1188	1.12	0.1328	0.00E0	0.000
0.055	32.70	1.42	0.92	30.06	0.46	1335.21	4.9E-4	0.2097	0.1190	1.12	0.1331	0.00E0	0.000
0.055	32.65	1.42	0.92	30.02	0.46	1333.83	4.9E-4	0.2098	0.1193	1.12	0.1333	0.00E0	0.000
0.055	32.60	1.42	0.92	29.99	0.46	1332.43	4.9E-4	0.2099	0.1195	1.12	0.1336	0.00E0	0.000
0.055	32.55	1.42	0.92	29.96	0.46	1331.04	4.9E-4	0.2100	0.1198	1.12	0.1339	0.00E0	0.000
0.055	32.50	1.41	0.92	29.93	0.46	1329.64	4.9E-4	0.2101	0.1200	1.12	0.1342	0.00E0	0.000
0.055	32.45	1.41	0.92	29.89	0.46	1328.25	4.9E-4	0.2102	0.1203	1.12	0.1345	0.00E0	0.000
0.055	32.40	1.41	0.92	29.86	0.46	1326.85	4.9E-4	0.2103	0.1205	1.12	0.1347	0.00E0	0.000
0.055	32.35	1.41	0.92	29.83	0.46	1325.44	4.9E-4	0.2104	0.1208	1.12	0.1350	0.00E0	0.000
0.055	32.30	1.41	0.91	29.79	0.47	1324.04	4.9E-4	0.2104	0.1210	1.12	0.1353	0.00E0	0.000
0.055	32.25	1.40	0.91	29.76	0.47	1322.63	4.9E-4	0.2105	0.1213	1.12	0.1356	0.00E0	0.000
0.055	32.20	1.40	0.91	29.73	0.47	1321.22	4.9E-4	0.2106	0.1215	1.12	0.1359	0.00E0	0.000
0.055	32.15	1.40	0.91	29.70	0.47	1319.81	4.9E-4	0.2107	0.1218	1.12	0.1361	0.00E0	0.000
0.055	32.10	1.40	0.91	29.66	0.47	1318.39	4.9E-4	0.2108	0.1220	1.12	0.1364	0.00E0	0.000
0.055	32.05	1.40	0.91	29.63	0.47	1316.98	4.9E-4	0.2108	0.1223	1.12	0.1367	0.00E0	0.000
0.055	32.00	1.39	0.91	29.60	0.47	1315.56	4.9E-4	0.2109	0.1225	1.12	0.1370	0.00E0	0.000
0.055	31.95	1.39	0.91	29.57	0.47	1314.14	4.9E-4	0.2110	0.1228	1.12	0.1372	0.00E0	0.000
0.055	31.90	1.39	0.90	29.53	0.47	1312.71	4.9E-4	0.2111	0.1230	1.12	0.1375	0.00E0	0.000
0.055	31.85	1.39	0.90	29.50	0.47	1311.29	4.9E-4	0.2111	0.1232	1.12	0.1378	0.00E0	0.000
0.055	31.80	1.39	0.90	29.47	0.47	1309.86	4.9E-4	0.2112	0.1235	1.12	0.1381	0.00E0	0.000
0.055	31.75	1.38	0.90	29.43	0.47	1308.43	4.9E-4	0.2113	0.1237	1.12	0.1383	0.00E0	0.000
0.055	31.70	1.38	0.90	29.40	0.47	1306.99	4.9E-4	0.2113	0.1240	1.12	0.1386	0.00E0	0.000
0.055	31.65	1.38	0.90	29.37	0.47	1305.56	4.9E-4	0.2114	0.1242	1.12	0.1389	0.00E0	0.000
0.055	31.60	1.38	0.90	29.34	0.47	1304.12	4.9E-4	0.2115	0.1245	1.12	0.1392	0.00E0	0.000
0.055	31.55	1.38	0.89	29.30	0.47	1302.68	4.9E-4	0.2115	0.1247	1.12	0.1394	0.00E0	0.000
0.055	31.50	1.37	0.89	29.27	0.47	1301.25	4.9E-4	0.2116	0.1249	1.12	0.1397	0.00E0	0.000
0.055	31.45	1.37	0.89	29.39	0.47	1301.98	4.9E-4	0.2104	0.1235	1.12	0.1381	0.00E0	0.000
0.055	31.40	1.37	0.89	29.50	0.47	1302.71	4.9E-4	0.2093	0.1222	1.12	0.1366	0.00E0	0.000
0.055	31.35	1.37	0.89	29.61	0.47	1303.43	4.9E-4	0.2082	0.1208	1.12	0.1351	0.00E0	0.000

0.055	31.30	1.37	0.89	29.73	0.47	1304.15	4.9E-4	0.2071	0.1195	1.12	0.1336	0.00E0	0.000
0.055	31.25	1.36	0.89	29.84	0.47	1304.86	4.9E-4	0.2060	0.1182	1.12	0.1321	0.00E0	0.000
0.055	31.20	1.36	0.89	29.96	0.47	1305.57	4.9E-4	0.2049	0.1168	1.12	0.1306	0.00E0	0.000
0.055	31.15	1.36	0.88	30.08	0.47	1306.28	4.9E-4	0.2038	0.1155	1.12	0.1292	0.00E0	0.000
0.055	31.10	1.36	0.88	30.19	0.47	1306.98	4.9E-4	0.2027	0.1143	1.12	0.1278	0.00E0	0.000
0.055	31.05	1.36	0.88	30.31	0.47	1307.67	4.9E-4	0.2017	0.1130	1.12	0.1263	0.00E0	0.000
0.055	31.00	1.35	0.88	30.42	0.47	1308.36	4.9E-4	0.2006	0.1117	1.12	0.1249	0.00E0	0.000
0.055	30.95	1.35	0.88	30.54	0.47	1309.05	4.9E-4	0.1996	0.1105	1.12	0.1236	0.00E0	0.000
0.055	30.90	1.35	0.88	30.66	0.47	1309.73	4.9E-4	0.1986	0.1093	1.12	0.1222	0.00E0	0.000
0.055	30.85	1.35	0.88	30.77	0.47	1310.41	4.8E-4	0.1975	0.1081	1.12	0.1208	0.00E0	0.000
0.055	30.80	1.35	0.88	30.89	0.47	1311.08	4.8E-4	0.1965	0.1069	1.12	0.1195	0.00E0	0.000
0.055	30.75	1.34	0.87	31.01	0.47	1311.75	4.8E-4	0.1955	0.1057	1.12	0.1182	0.00E0	0.000
0.055	30.70	1.34	0.87	31.12	0.47	1312.41	4.8E-4	0.1945	0.1045	1.12	0.1169	0.00E0	0.000
0.055	30.65	1.34	0.87	31.24	0.47	1313.07	4.8E-4	0.1935	0.1034	1.12	0.1156	0.00E0	0.000
0.055	30.60	1.34	0.87	31.36	0.47	1313.73	4.8E-4	0.1925	0.1022	1.12	0.1143	0.00E0	0.000
0.055	30.55	1.34	0.87	31.48	0.47	1314.38	4.8E-4	0.1916	0.1011	1.12	0.1130	0.00E0	0.000
0.055	30.50	1.33	0.87	31.59	0.47	1315.02	4.8E-4	0.1906	0.0999	1.12	0.1117	0.00E0	0.000
0.055	30.45	1.33	0.87	31.71	0.47	1315.66	4.8E-4	0.1896	0.0988	1.12	0.1105	0.00E0	0.000
0.055	30.40	1.33	0.86	31.83	0.47	1316.30	4.8E-4	0.1887	0.0977	1.12	0.1093	0.00E0	0.000
0.055	30.35	1.33	0.86	31.95	0.47	1316.93	4.8E-4	0.1877	0.0966	1.12	0.1081	0.00E0	0.000
0.055	30.30	1.33	0.86	32.07	0.47	1317.56	4.8E-4	0.1868	0.0956	1.12	0.1069	0.00E0	0.000
0.055	30.25	1.32	0.86	32.19	0.47	1318.19	4.8E-4	0.1859	0.0945	1.12	0.1057	0.00E0	0.000
0.055	30.20	1.32	0.86	32.30	0.47	1318.81	4.7E-4	0.1849	0.0934	1.12	0.1045	0.00E0	0.000
0.055	30.15	1.32	0.86	32.42	0.47	1319.42	4.7E-4	0.1840	0.0924	1.12	0.1033	0.00E0	0.000
0.055	30.10	1.32	0.86	32.54	0.47	1320.03	4.7E-4	0.1831	0.0914	1.12	0.1021	0.00E0	0.000
0.055	30.05	1.32	0.86	32.66	0.47	1320.64	4.7E-4	0.1822	0.0903	1.12	0.1010	0.00E0	0.000
0.055	30.00	1.31	0.85	32.78	0.47	1321.24	4.7E-4	0.1814	0.0894	1.12	0.0999	0.00E0	0.000
0.055	29.95	1.31	0.85	32.80	0.47	1320.49	4.7E-4	0.1810	0.0891	1.12	0.0996		

0.055	29.60	1.30	0.84	32.94	0.48	1315.29	4.7E-4	0.1777	0.0868	1.12	0.0970	0.00E0	0.000
0.055	29.55	1.30	0.84	32.96	0.48	1314.55	4.7E-4	0.1772	0.0865	1.12	0.0967	0.00E0	0.000
0.055	29.50	1.29	0.84	32.98	0.48	1313.82	4.7E-4	0.1767	0.0861	1.12	0.0963	0.00E0	0.000
0.055	29.45	1.29	0.84	33.00	0.48	1313.08	4.7E-4	0.1763	0.0858	1.12	0.0960	0.00E0	0.000
0.055	29.40	1.29	0.84	33.02	0.48	1312.34	4.7E-4	0.1758	0.0855	1.12	0.0956	0.00E0	0.000
0.055	29.35	1.29	0.84	33.04	0.48	1311.60	4.7E-4	0.1753	0.0852	1.12	0.0953	0.00E0	0.000
0.055	29.30	1.29	0.84	33.06	0.48	1310.87	4.7E-4	0.1749	0.0849	1.12	0.0949	0.00E0	0.000
0.055	29.25	1.28	0.83	33.08	0.48	1310.13	4.7E-4	0.1744	0.0846	1.12	0.0946	0.00E0	0.000
0.055	29.20	1.28	0.83	33.10	0.48	1309.40	4.7E-4	0.1740	0.0843	1.12	0.0942	0.00E0	0.000
0.055	29.15	1.28	0.83	33.11	0.48	1308.67	4.7E-4	0.1735	0.0840	1.12	0.0939	0.00E0	0.000
0.055	29.10	1.28	0.83	33.13	0.48	1307.93	4.7E-4	0.1731	0.0837	1.12	0.0935	0.00E0	0.000
0.055	29.05	1.28	0.83	33.15	0.48	1307.20	4.6E-4	0.1726	0.0834	1.12	0.0932	0.00E0	0.000
0.055	29.00	1.27	0.83	33.17	0.48	1306.47	4.6E-4	0.1722	0.0831	1.12	0.0929	0.00E0	0.000
0.055	28.95	1.27	0.83	33.19	0.48	1305.74	4.6E-4	0.1717	0.0828	1.12	0.0925	0.00E0	0.000
0.055	28.90	1.27	0.83	33.21	0.48	1305.01	4.6E-4	0.1713	0.0825	1.12	0.0922	0.00E0	0.000
0.055	28.85	1.27	0.82	33.23	0.48	1304.28	4.6E-4	0.1709	0.0822	1.12	0.0919	0.00E0	0.000
0.055	28.80	1.27	0.82	33.25	0.48	1303.55	4.6E-4	0.1704	0.0819	1.12	0.0915	0.00E0	0.000
0.055	28.75	1.27	0.82	33.27	0.48	1302.83	4.6E-4	0.1700	0.0816	1.12	0.0912	0.00E0	0.000
0.055	28.70	1.26	0.82	33.29	0.48	1302.10	4.6E-4	0.1696	0.0813	1.12	0.0909	0.00E0	0.000
0.055	28.65	1.26	0.82	33.31	0.48	1301.38	4.6E-4	0.1691	0.0810	1.12	0.0905	0.00E0	0.000
0.055	28.60	1.26	0.82	33.33	0.48	1300.65	4.6E-4	0.1687	0.0807	1.12	0.0902	0.00E0	0.000
0.055	28.55	1.26	0.82	33.35	0.48	1299.93	4.6E-4	0.1683	0.0804	1.12	0.0899	0.00E0	0.000
0.055	28.50	1.26	0.82	33.37	0.48	1299.21	4.6E-4	0.1678	0.0801	1.12	0.0896	0.00E0	0.000
0.057	28.45	1.25	0.81	33.44	0.48	1299.14	4.6E-4	0.1671	0.0795	1.12	0.0888	1.07E-3	0.001
0.058	28.40	1.25	0.81	33.51	0.48	1299.07	4.6E-4	0.1664	0.0788	1.12	0.0881	1.06E-3	0.001
0.059	28.35	1.25	0.81	33.59	0.48	1299.00	4.6E-4	0.1658	0.0782	1.12	0.0874	1.05E-3	0.001
0.060	28.30	1.25	0.81	33.66	0.48	1298.91	4.6E-4	0.1651	0.0776	1.12	0.0867	1.04E-3	0.001
0.061	28.25	1.25	0.81	33.73	0.48	1298.82	4.6E-4	0.1644	0.0769	1.12	0.0860	1.03E-3	0.001
0.062	28.20	1.24	0.81	33.80	0.48	1298.73	4.6E-4	0.1637	0.0763	1.12	0.0853	1.02E-3	0.001
0.063	28.15	1.24	0.81	33.87	0.48	1298.63	4.6E-4	0.1630	0.0757	1.12	0.0846	1.02E-3	0.001
0.064	28.10	1.24	0.81	33.95	0.48	1298.52	4.6E-4	0.1623	0.0750	1.12	0.0839	1.01E-3	0.001
0.065	28.05	1.24	0.80	34.02	0.48	1298.40	4.5E-4	0.1616	0.0744	1.12	0.0832	9.99E-4	0.001
0.066	28.00	1.24	0.80	34.09	0.48	1298.28	4.5E-4	0.1609	0.0738	1.12	0.0825	9.90E-4	0.001
0.067	27.95	1.23	0.80	34.17	0.48	1298.15	4.5E-4	0.1602	0.0732	1.12	0.0818	9.82E-4	0.001
	27.90	1.23	0.80	34.24	0.48	1298.02	4.5E-4	0.1596	0.0726	1.12	0.0811	9.74E-4	0.001

0.068	27.85	1.23	0.80	32.96	0.48	1280.57	4.6E-4	0.1655	0.0807	1.12	0.0903	1.08E-3	0.001
0.069	27.80	1.23	0.80	33.03	0.48	1280.41	4.6E-4	0.1648	0.0801	1.12	0.0895	1.07E-3	0.001
0.070	27.75	1.23	0.80	33.10	0.48	1280.25	4.6E-4	0.1640	0.0794	1.12	0.0888	1.07E-3	0.001
0.071	27.70	1.22	0.80	33.17	0.48	1280.08	4.6E-4	0.1633	0.0788	1.12	0.0881	1.06E-3	0.001
0.072	27.65	1.22	0.79	33.25	0.48	1279.91	4.6E-4	0.1626	0.0781	1.12	0.0874	1.05E-3	0.001
0.073	27.60	1.22	0.79	33.32	0.48	1279.72	4.6E-4	0.1619	0.0775	1.12	0.0866	1.04E-3	0.001
0.074	27.55	1.22	0.79	33.39	0.48	1279.53	4.5E-4	0.1612	0.0768	1.12	0.0859	1.03E-3	0.001
0.075	27.50	1.22	0.79	33.46	0.48	1279.34	4.5E-4	0.1604	0.0762	1.12	0.0852	1.02E-3	0.001
0.076	27.45	1.21	0.79	33.54	0.48	1279.14	4.5E-4	0.1597	0.0756	1.12	0.0845	1.01E-3	0.001
0.077	27.40	1.21	0.79	33.61	0.48	1278.93	4.5E-4	0.1590	0.0749	1.12	0.0838	1.01E-3	0.001
0.078	27.35	1.21	0.79	33.68	0.48	1278.71	4.5E-4	0.1583	0.0743	1.12	0.0830	9.97E-4	0.001
0.079	27.30	1.21	0.78	33.76	0.48	1278.49	4.5E-4	0.1576	0.0736	1.12	0.0823	9.88E-4	0.001
0.080	27.25	1.20	0.78	33.83	0.48	1278.26	4.5E-4	0.1569	0.0730	1.12	0.0816	9.80E-4	0.001
0.081	27.20	1.20	0.78	33.90	0.48	1278.02	4.5E-4	0.1562	0.0724	1.12	0.0809	9.71E-4	0.001
0.082	27.15	1.20	0.78	33.98	0.48	1277.78	4.5E-4	0.1555	0.0718	1.12	0.0802	9.63E-4	0.001
0.083	27.10	1.20	0.78	34.05	0.48	1277.53	4.5E-4	0.1547	0.0711	1.12	0.0795	9.54E-4	0.001
0.084	27.05	1.20	0.78	34.13	0.48	1277.27	4.5E-4	0.1540	0.0705	1.12	0.0788	9.46E-4	0.001
0.085	27.00	1.19	0.78	34.20	0.48	1277.00	4.5E-4	0.1533	0.0699	1.12	0.0782	0.00E0	0.000
0.085	26.95	1.19	0.77	34.08	0.48	1274.26	4.5E-4	0.1535	0.0705	1.12	0.0788	0.00E0	0.000
0.085	26.90	1.19	0.77	33.95	0.48	1271.51	4.5E-4	0.1537	0.0711	1.12	0.0794	0.00E0	0.000
0.085	26.85	1.19	0.77	33.83	0.48	1268.76	4.5E-4	0.1539	0.0716	1.12	0.0801	0.00E0	0.000
0.085	26.80	1.18	0.77	33.70	0.48	1266.02	4.5E-4	0.1541	0.0722	1.12	0.0808	0.00E0	0.000
0.085	26.75	1.18	0.77	33.57	0.48	1263.28	4.5E-4	0.1543	0.0728	1.12	0.0814	0.00E0	0.000
0.085	26.70	1.18	0.77	33.45	0.48	1260.53	4.5E-4	0.1545	0.0734	1.12	0.0821	0.00E0	0.000
0.085	26.65	1.18	0.77	33.32	0.48	1257.79	4.5E-4	0.1548	0.0741	1.12	0.0828	0.00E0	0.000
0.085	26.60	1.18	0.76	33.19	0.48	1255.05	4.5E-4	0.1550	0.0747	1.12	0.0835	0.00E0	0.000
0.085	26.55	1.17	0.76	33.06	0.48	1252.31	4.5E-4	0.1552	0.0753	1.12	0.0842	0.00E0	0.000
0.085	26.50	1.17	0.76	32.94	0.48	1249.57	4.5E-4	0.1555	0.0759	1.			

0.085	26.15	1.16	0.75	32.03	0.48	1230.42	4.5E-4	0.1573	0.0807	1.12	0.0902	0.00E0	0.000
0.085	26.10	1.16	0.75	31.90	0.48	1227.68	4.5E-4	0.1576	0.0814	1.12	0.0910	0.00E0	0.000
0.085	26.05	1.15	0.75	31.77	0.48	1224.95	4.5E-4	0.5427	0.2820	1.12	0.3153	0.00E0	0.000
0.085	26.00	1.15	0.75	31.63	0.48	1222.22	4.5E-4	0.5448	0.2851	1.12	0.3187	0.00E0	0.000
0.085	25.95	1.15	0.75	31.50	0.48	1219.48	4.5E-4	0.5470	0.2882	1.12	0.3222	0.00E0	0.000
0.085	25.90	1.15	0.75	31.37	0.48	1216.75	4.5E-4	0.5492	0.2914	1.12	0.3258	0.00E0	0.000
0.085	25.85	1.15	0.74	31.24	0.48	1214.02	4.5E-4	0.5515	0.2946	1.12	0.3294	0.00E0	0.000
0.085	25.80	1.14	0.74	31.10	0.48	1211.29	4.5E-4	0.5539	0.2979	1.12	0.3331	0.00E0	0.000
0.085	25.75	1.14	0.74	30.97	0.48	1208.56	4.5E-4	0.5563	0.3013	1.12	0.3368	0.00E0	0.000
0.085	25.70	1.14	0.74	30.84	0.48	1205.83	4.5E-4	0.5588	0.3047	1.12	0.3407	0.00E0	0.000
0.085	25.65	1.14	0.74	30.70	0.48	1203.09	4.5E-4	0.5613	0.3082	1.12	0.3446	0.00E0	0.000
0.085	25.60	1.14	0.74	30.57	0.48	1200.36	4.5E-4	0.5639	0.3118	1.12	0.3486	0.00E0	0.000
0.085	25.55	1.13	0.74	30.43	0.48	1197.63	4.5E-4	0.5666	0.3154	1.12	0.3527	0.00E0	0.000
0.085	25.50	1.13	0.74	30.30	0.48	1194.91	4.6E-4	0.5693	0.3191	1.12	0.3568	0.00E0	0.000
0.085	25.45	1.13	0.74	30.57	0.48	1197.55	4.5E-4	0.5569	0.3078	1.12	0.3442	0.00E0	0.000
0.085	25.40	1.13	0.73	30.85	0.48	1200.17	4.5E-4	0.5449	0.2970	1.12	0.3320	0.00E0	0.000
0.085	25.35	1.13	0.73	31.12	0.48	1202.77	4.5E-4	0.5333	0.2865	1.12	0.3204	0.00E0	0.000
0.085	25.30	1.13	0.73	31.40	0.48	1205.34	4.5E-4	0.5220	0.2765	1.12	0.3092	0.00E0	0.000
0.085	25.25	1.12	0.73	31.68	0.48	1207.89	4.5E-4	0.5111	0.2668	1.12	0.2984	0.00E0	0.000
0.085	25.20	1.12	0.73	31.96	0.48	1210.41	4.5E-4	0.5005	0.2575	1.12	0.2880	0.00E0	0.000
0.085	25.15	1.12	0.73	32.24	0.48	1212.91	4.4E-4	0.4902	0.2486	1.12	0.2779	0.00E0	0.000
0.085	25.10	1.12	0.73	32.52	0.48	1215.38	4.4E-4	0.4802	0.2400	1.12	0.2683	0.00E0	0.000
0.085	25.05	1.12	0.73	32.79	0.48	1217.83	4.4E-4	0.4705	0.2316	1.12	0.2590	0.00E0	0.000
0.085	25.00	1.11	0.72	33.08	0.48	1220.26	4.4E-4	0.4611	0.2236	1.12	0.2500	0.00E0	0.000
0.085	24.95	1.11	0.72	33.36	0.48	1222.67	4.4E-4	0.4520	0.2159	1.12	0.2414	0.00E0	0.000
0.085	24.90	1.11	0.72	33.64	0.48	1225.05	4.4E-4	0.4431	0.2084	1.12	0.2330	0.00E0	0.000
0.085	24.85	1.11	0.72	33.92	0.48	1227.41	4.3E-4	0.4345	0.2012	1.12	0.2250	0.00E0	0.000
0.085	24.80	1.11	0.72	34.20	0.48	1229.75	4.3E-4	0.4261	0.1942	1.12	0.2172	0.00E0	0.000
0.085	24.75	1.10	0.72	34.49	0.48	1232.07	4.3E-4	0.4179	0.1875	1.12	0.2096	0.00E0	0.000
0.085	24.70	1.10	0.72	34.77	0.48	1234.36	4.3E-4	0.4100	0.1810	1.12	0.2024	0.00E0	0.000
0.085	24.65	1.10	0.72	35.05	0.48	1236.64	4.3E-4	0.4022	0.1747	1.12	0.1954	0.00E0	0.000
0.085	24.60	1.10	0.71	35.34	0.48	1238.89	4.3E-4	0.3947	0.1686	1.12	0.1886	0.00E0	0.000
0.085	24.55	1.10	0.71	35.62	0.48	1241.12	4.3E-4	0.3874	0.1628	1.12	0.1820	0.00E0	0.000
0.085	24.50	1.10	0.71	35.91	0.48	1243.33	4.2E-4	0.3803	0.1571	1.12	0.1756	0.00E0	0.000
0.085	24.45	1.09	0.71	36.20	0.48	1245.51	4.2E-4	0.3733	0.1516	1.12	0.1695	0.00E0	0.000

0.085	24.40	1.09	0.71	36.48	0.48	1247.68	4.2E-4	0.3666	0.1463	1.12	0.1635	0.00E0	0.000
0.085	24.35	1.09	0.71	36.77	0.48	1249.83	4.2E-4	0.3600	0.1411	1.12	0.1578	0.00E0	0.000
0.085	24.30	1.09	0.71	37.06	0.48	1251.95	4.2E-4	0.3535	0.1361	1.12	0.1522	0.00E0	0.000
0.085	24.25	1.09	0.71	37.35	0.48	1254.06	4.2E-4	0.3473	0.1313	1.12	0.1468	0.00E0	0.000
0.085	24.20	1.08	0.70	37.64	0.48	1256.14	4.2E-4	0.3412	0.1266	1.12	0.1415	0.00E0	0.000
0.085	24.15	1.08	0.70	37.93	0.48	1258.20	4.1E-4	0.3352	0.1220	1.12	0.1364	0.00E0	0.000
0.085	24.10	1.08	0.70	38.22	0.48	1260.25	4.1E-4	0.3294	0.1176	1.12	0.1315	0.00E0	0.000
0.085	24.05	1.08	0.70	38.51	0.48	1262.27	4.1E-4	0.3238	0.1134	1.12	0.1267	0.00E0	0.000
0.085	24.00	1.08	0.70	38.81	0.48	1264.27	4.1E-4	0.3183	0.1092	1.12	0.1221	0.00E0	0.000
0.085	23.95	1.07	0.70	38.78	0.48	1262.84	4.1E-4	0.3173	0.1091	1.12	0.1219	0.00E0	0.000
0.085	23.90	1.07	0.70	38.76	0.48	1261.41	4.1E-4	0.3163	0.1089	1.12	0.1217	0.00E0	0.000
0.085	23.85	1.07	0.70	38.74	0.48	1259.97	4.1E-4	0.3153	0.1087	1.12	0.1216	0.00E0	0.000
0.085	23.80	1.07	0.69	38.71	0.48	1258.54	4.1E-4	0.3143	0.1085	1.12	0.1214	0.00E0	0.000
0.085	23.75	1.07	0.69	38.69	0.48	1257.10	4.1E-4	0.3133	0.1084	1.12	0.1212	0.00E0	0.000
0.085	23.70	1.06	0.69	38.67	0.48	1255.67	4.1E-4	0.3123	0.1082	1.12	0.1210	0.00E0	0.000
0.085	23.65	1.06	0.69	38.64	0.48	1254.23	4.1E-4	0.3113	0.1080	1.12	0.1208	0.00E0	0.000
0.085	23.60	1.06	0.69	38.62	0.48	1252.80	4.1E-4	0.3103	0.1079	1.12	0.1206	0.00E0	0.000
0.085	23.55	1.06	0.69	38.60	0.48	1251.36	4.1E-4	0.3093	0.1077	1.12	0.1204	0.00E0	0.000
0.085	23.50	1.06	0.69	38.57	0.48	1249.93	4.1E-4	0.3084	0.1075	1.12	0.1202	0.00E0	0.000
0.085	23.45	1.05	0.68	38.55	0.48	1248.49	4.1E-4	0.3074	0.1074	1.12	0.1200	0.00E0	0.000
0.085	23.40	1.05	0.68	38.53	0.48	1247.06	4.1E-4	0.3064	0.1072	1.12	0.1198	0.00E0	0.000
0.085	23.35	1.05	0.68	38.50	0.48	1245.62	4.1E-4	0.3055	0.1070	1.12	0.1197	0.00E0	0.000
0.085	23.30	1.05	0.68	38.48	0.48	1244.18	4.1E-4	0.3045	0.1069	1.12	0.1195	0.00E0	0.000
0.085	23.25	1.05	0.68	38.46	0.48	1242.74	4.1E-4	0.3035	0.1067	1.12	0.1193	0.00E0	0.000
0.085	23.20	1.04	0.68	38.43	0.48	1241.31	4.1E-4	0.3026	0.1065	1.12	0.1191	0.00E0	0.000
0.085	23.15	1.04	0.68	38.41	0.48	1239.87	4.1E-4	0.3016	0.1064	1.12	0.1189	0.00E0	0.000
0.085	23.10	1.04	0.68	38.38	0.48	1238.43	4.1E-4	0.3006	0.1062	1.12	0.1187	0.00E0	0.000
0.085	23.05	1.04	0.67	38.36	0.48	1236.99	4.1E-4	0.2997	0.1060	1.12	0.1185		

0.085	22.70	1.02	0.67	38.19	0.48	1226.91	4.0E-4	0.2931	0.1049	1.12	0.1172	0.00E0	0.000
0.085	22.65	1.02	0.66	38.17	0.48	1225.47	4.0E-4	0.2922	0.1047	1.12	0.1171	0.00E0	0.000
0.085	22.60	1.02	0.66	38.14	0.48	1224.02	4.0E-4	0.2912	0.1045	1.12	0.1169	0.00E0	0.000
0.085	22.55	1.02	0.66	38.12	0.48	1222.58	4.0E-4	0.2903	0.1044	1.12	0.1167	0.00E0	0.000
0.085	22.50	1.02	0.66	38.10	0.48	1221.14	4.0E-4	0.2894	0.1042	1.12	0.1165	0.00E0	0.000
0.085	22.45	1.01	0.66	38.18	0.48	1220.85	4.0E-4	0.2871	0.1028	1.12	0.1149	0.00E0	0.000
0.085	22.40	1.01	0.66	38.27	0.48	1220.57	4.0E-4	0.2848	0.1014	1.12	0.1134	0.00E0	0.000
0.085	22.35	1.01	0.66	38.35	0.48	1220.28	4.0E-4	0.2826	0.1000	1.12	0.1119	0.00E0	0.000
0.085	22.30	1.01	0.66	38.43	0.48	1219.98	4.0E-4	0.2804	0.0987	1.12	0.1103	0.00E0	0.000
0.085	22.25	1.01	0.65	38.52	0.48	1219.69	4.0E-4	0.2782	0.0974	1.12	0.1089	0.00E0	0.000
0.085	22.20	1.00	0.65	38.60	0.48	1219.40	4.0E-4	0.2760	0.0960	1.12	0.1074	0.00E0	0.000
0.085	22.15	1.00	0.65	38.69	0.48	1219.10	4.0E-4	0.2738	0.0947	1.12	0.1059	0.00E0	0.000
0.085	22.10	1.00	0.65	38.78	0.48	1218.80	4.0E-4	0.2717	0.0934	1.12	0.1045	0.00E0	0.000
0.085	22.05	1.00	0.65	38.86	0.48	1218.50	4.0E-4	0.2696	0.0922	1.12	0.1031	0.00E0	0.000
0.085	22.00	1.00	0.65	38.95	0.48	1218.20	4.0E-4	0.2675	0.0909	1.12	0.1016	0.00E0	0.000
0.085	21.95	0.99	0.65	39.03	0.48	1217.90	4.0E-4	0.2654	0.0897	1.12	0.1003	0.00E0	0.000
0.085	21.90	0.99	0.64	39.12	0.48	1217.59	3.9E-4	0.2633	0.0884	1.12	0.0989	0.00E0	0.000
0.085	21.85	0.99	0.64	39.21	0.48	1217.28	3.9E-4	0.2613	0.0872	1.12	0.0975	0.00E0	0.000
0.085	21.80	0.99	0.64	39.29	0.48	1216.98	3.9E-4	0.2593	0.0860	1.12	0.0962	0.00E0	0.000
0.085	21.75	0.99	0.64	39.38	0.48	1216.67	3.9E-4	0.2573	0.0848	1.12	0.0948	0.00E0	0.000
0.085	21.70	0.98	0.64	39.47	0.48	1216.36	3.9E-4	0.2553	0.0837	1.12	0.0935	0.00E0	0.000
0.085	21.65	0.98	0.64	39.55	0.48	1216.04	3.9E-4	0.2533	0.0825	1.12	0.0922	0.00E0	0.000
0.085	21.60	0.98	0.64	39.64	0.48	1215.73	3.9E-4	0.2514	0.0814	1.12	0.0910	0.00E0	0.000
0.085	21.55	0.98	0.64	39.73	0.48	1215.41	3.9E-4	0.2494	0.0802	1.12	0.0897	0.00E0	0.000
0.085	21.50	0.98	0.63	39.82	0.48	1215.09	3.9E-4	0.2475	0.0791	1.12	0.0884	0.00E0	0.000
0.085	21.45	0.97	0.63	39.90	0.48	1214.77	3.9E-4	0.2456	0.0780	1.12	0.0872	0.00E0	0.000
0.085	21.40	0.97	0.63	39.99	0.48	1214.45	3.9E-4	0.2437	0.0769	1.12	0.0860	0.00E0	0.000
0.085	21.35	0.97	0.63	40.08	0.48	1214.13	3.9E-4	0.2419	0.0765	1.12	0.0855	0.00E0	0.000
0.085	21.30	0.97	0.63	40.17	0.49	1213.80	3.9E-4	0.2400	0.0759	1.12	0.0849	0.00E0	0.000
0.085	21.25	0.97	0.63	40.26	0.49	1213.48	3.9E-4	0.2382	0.0753	1.12	0.0842	0.00E0	0.000
0.085	21.20	0.96	0.63	40.35	0.49	1213.15	3.9E-4	0.2364	0.0748	1.12	0.0836	0.00E0	0.000
0.085	21.15	0.96	0.63	40.43	0.49	1212.82	3.9E-4	0.2346	0.0742	1.12	0.0829	0.00E0	0.000
0.085	21.10	0.96	0.62	40.52	0.49	1212.49	3.8E-4	0.2328	0.0736	1.12	0.0823	0.00E0	0.000
0.085	21.05	0.96	0.62	40.61	0.49	1212.16	3.8E-4	0.2310	0.0731	1.12	0.0817	0.00E0	0.000
0.085	21.00	0.96	0.62	40.70	0.49	1211.82	3.8E-4	0.2293	0.0725	1.12	0.0811	0.00E0	0.000

0.085	20.95	0.96	0.62	40.62	0.49	1209.82	3.8E-4	0.2290	0.0724	1.12	0.0810	0.00E0	0.000
0.085	20.90	0.95	0.62	40.55	0.49	1207.82	3.8E-4	0.2288	0.0723	1.12	0.0809	0.00E0	0.000
0.085	20.85	0.95	0.62	40.47	0.49	1205.82	3.8E-4	0.2285	0.0723	1.12	0.0808	0.00E0	0.000
0.085	20.80	0.95	0.62	40.39	0.49	1203.82	3.8E-4	0.2282	0.0722	1.12	0.0807	0.00E0	0.000
0.085	20.75	0.95	0.62	40.31	0.49	1201.81	3.8E-4	0.2280	0.0721	1.12	0.0806	0.00E0	0.000
0.085	20.70	0.95	0.61	40.23	0.49	1199.81	3.8E-4	0.2277	0.0720	1.12	0.0805	0.00E0	0.000
0.085	20.65	0.94	0.61	40.16	0.49	1197.80	3.8E-4	0.2274	0.0719	1.12	0.0804	0.00E0	0.000
0.085	20.60	0.94	0.61	40.08	0.49	1195.78	3.8E-4	0.2272	0.0718	1.12	0.0803	0.00E0	0.000
0.085	20.55	0.94	0.61	40.00	0.49	1193.77	3.8E-4	0.2269	0.0716	1.12	0.0800	0.00E0	0.000
0.085	20.50	0.94	0.61	39.92	0.49	1191.76	3.8E-4	0.2266	0.0719	1.12	0.0804	0.00E0	0.000
0.085	20.45	0.94	0.61	39.84	0.49	1189.74	3.8E-4	0.2264	0.0722	1.12	0.0807	0.00E0	0.000
0.085	20.40	0.93	0.61	39.76	0.49	1187.72	3.8E-4	0.2261	0.0725	1.12	0.0811	0.00E0	0.000
0.085	20.35	0.93	0.61	39.68	0.49	1185.70	3.8E-4	0.2258	0.0729	1.12	0.0815	0.00E0	0.000
0.085	20.30	0.93	0.60	39.60	0.49	1183.67	3.8E-4	0.2256	0.0732	1.12	0.0819	0.00E0	0.000
0.085	20.25	0.93	0.60	39.52	0.49	1181.65	3.8E-4	0.2253	0.0735	1.12	0.0822	0.00E0	0.000
0.085	20.20	0.93	0.60	39.44	0.49	1179.62	3.8E-4	0.2250	0.0739	1.12	0.0826	0.00E0	0.000
0.085	20.15	0.92	0.60	39.36	0.49	1177.59	3.8E-4	0.2248	0.0742	1.12	0.0830	0.00E0	0.000
0.085	20.10	0.92	0.60	39.28	0.49	1175.56	3.8E-4	0.2245	0.0745	1.12	0.0833	0.00E0	0.000
0.085	20.05	0.92	0.60	39.20	0.49	1173.52	3.8E-4	0.2243	0.0749	1.12	0.0837	0.00E0	0.000
0.085	20.00	0.92	0.60	39.12	0.49	1171.49	3.8E-4	0.2240	0.0752	1.12	0.0841	0.00E0	0.000
0.085	19.95	0.92	0.60	39.04	0.49	1169.45	3.8E-4	0.2237	0.0756	1.12	0.0845	0.00E0	0.000
0.085	19.90	0.91	0.59	38.96	0.49	1167.41	3.8E-4	0.2235	0.0759	1.12	0.0848	0.00E0	0.000
0.085	19.85	0.91	0.59	38.88	0.49	1165.37	3.8E-4	0.2232	0.0762	1.12	0.0852	0.00E0	0.000
0.085	19.80	0.91	0.59	38.80	0.49	1163.32	3.8E-4	0.2230	0.0766	1.12	0.0856	0.00E0	0.000
0.085	19.75	0.91	0.59	38.72	0.49	1161.28	3.8E-4	0.2227	0.0769	1.12	0.0860	0.00E0	0.000
0.085	19.70	0.91	0.59	38.64	0.49	1159.23	3.8E-4	0.2225	0.0772	1.12	0.0864	0.00E0	0.000
0.085	19.65	0.90	0.59	38.56	0.49	1157.17	3.8E-4	0.2222	0.0776	1.12	0.0867	0.00E0	0.000
0.085	19.60	0.90	0.59	38.48	0.49	1155.12	3.8E-4	0.2219	0.0779	1.12	0.0871		

0.085	19.25	0.89	0.58	37.32	0.49	1134.83	3.8E-4	0.2254	0.0854	1.12	0.0954	0.00E0	0.000
0.085	19.20	0.89	0.58	37.12	0.49	1131.56	3.8E-4	0.2263	0.0868	1.12	0.0970	0.00E0	0.000
0.085	19.15	0.89	0.58	36.93	0.49	1128.29	3.8E-4	0.2271	0.0882	1.12	0.0986	0.00E0	0.000
0.085	19.10	0.88	0.57	36.73	0.49	1125.00	3.8E-4	0.2280	0.0896	1.12	0.1002	0.00E0	0.000
0.085	19.05	0.88	0.57	36.53	0.49	1121.71	3.8E-4	0.2289	0.0911	1.12	0.1018	0.00E0	0.000
0.085	19.00	0.88	0.57	36.33	0.49	1118.40	3.8E-4	0.2298	0.0926	1.12	0.1035	0.00E0	0.000
0.085	18.95	0.88	0.57	36.13	0.49	1115.09	3.8E-4	0.2307	0.0941	1.12	0.1052	0.00E0	0.000
0.085	18.90	0.88	0.57	35.93	0.49	1111.76	3.8E-4	0.2316	0.0956	1.12	0.1069	0.00E0	0.000
0.085	18.85	0.87	0.57	35.72	0.49	1108.43	3.8E-4	0.2325	0.0971	1.12	0.1086	0.00E0	0.000
0.085	18.80	0.87	0.57	35.52	0.49	1105.08	3.8E-4	0.2335	0.0987	1.12	0.1103	0.00E0	0.000
0.085	18.75	0.87	0.57	35.32	0.49	1101.73	3.9E-4	0.2344	0.1003	1.12	0.1121	0.00E0	0.000
0.085	18.70	0.87	0.56	35.12	0.49	1098.36	3.9E-4	0.2354	0.1019	1.12	0.1139	0.00E0	0.000
0.085	18.65	0.87	0.56	34.92	0.49	1094.98	3.9E-4	0.2364	0.1035	1.12	0.1157	0.00E0	0.000
0.085	18.60	0.86	0.56	34.71	0.49	1091.59	3.9E-4	0.2374	0.1052	1.12	0.1176	0.00E0	0.000
0.085	18.55	0.86	0.56	34.51	0.49	1088.19	3.9E-4	0.2385	0.1069	1.12	0.1195	0.00E0	0.000
0.085	18.50	0.86	0.56	34.31	0.49	1084.78	3.9E-4	0.2395	0.1086	1.12	0.1214	0.00E0	0.000
0.085	18.45	0.86	0.56	34.10	0.49	1081.36	3.9E-4	0.2406	0.1103	1.12	0.1233	0.00E0	0.000
0.085	18.40	0.86	0.56	33.90	0.49	1077.93	3.9E-4	0.2417	0.1121	1.12	0.1253	0.00E0	0.000
0.085	18.35	0.85	0.55	33.69	0.49	1074.48	3.9E-4	0.2428	0.1138	1.12	0.1273	0.00E0	0.000
0.085	18.30	0.85	0.55	33.49	0.49	1071.03	3.9E-4	0.2439	0.1157	1.12	0.1293	0.00E0	0.000
0.085	18.25	0.85	0.55	33.28	0.49	1067.56	3.9E-4	0.2450	0.1175	1.12	0.1314	0.00E0	0.000
0.085	18.20	0.85	0.55	33.07	0.49	1064.08	3.9E-4	0.2462	0.1194	1.12	0.1335	0.00E0	0.000
0.085	18.15	0.85	0.55	32.87	0.49	1060.59	3.9E-4	0.2474	0.1213	1.12	0.1356	0.00E0	0.000
0.085	18.10	0.84	0.55	32.66	0.49	1057.08	3.9E-4	0.2486	0.1233	1.12	0.1378	0.00E0	0.000
0.085	18.05	0.84	0.55	32.45	0.49	1053.57	3.9E-4	0.2499	0.1253	1.12	0.1400	0.00E0	0.000
0.085	18.00	0.84	0.55	32.25	0.49	1050.04	3.9E-4	0.2511	0.1273	1.12	0.1423	0.00E0	0.000
0.087	17.95	0.84	0.54	32.28	0.49	1049.09	3.9E-4	0.2494	0.1262	1.12	0.1411	1.69E-3	0.002
0.088	17.90	0.84	0.54	32.31	0.49	1048.13	3.9E-4	0.2477	0.1251	1.12	0.1399	1.68E-3	0.002
0.090	17.85	0.83	0.54	32.34	0.49	1047.16	3.9E-4	0.2460	0.1241	1.12	0.1387	1.66E-3	0.002
0.092	17.80	0.83	0.54	32.37	0.49	1046.18	3.9E-4	0.2443	0.1230	1.12	0.1375	1.65E-3	0.002
0.093	17.75	0.83	0.54	32.40	0.49	1045.20	3.9E-4	0.2426	0.1219	1.12	0.1363	1.64E-3	0.002
0.095	17.70	0.83	0.54	32.43	0.49	1044.21	3.9E-4	0.2409	0.1209	1.12	0.1351	1.62E-3	0.002
0.097	17.65	0.82	0.54	32.47	0.49	1043.22	3.9E-4	0.2392	0.1198	1.12	0.1339	1.61E-3	0.002
0.098	17.60	0.82	0.53	32.50	0.49	1042.21	3.9E-4	0.2374	0.1187	1.12	0.1328	1.59E-3	0.002
	17.55	0.82	0.53	32.53	0.49	1041.20	3.9E-4	0.2357	0.1177	1.12	0.1316	1.58E-3	0.002

0.100	17.50	0.82	0.53	32.57	0.49	1040.18	3.9E-4	0.2340	0.1166	1.12	0.1304	1.56E-3	0.002
0.101	17.45	0.82	0.53	32.60	0.49	1039.16	3.8E-4	0.2323	0.1156	1.12	0.1292	1.55E-3	0.002
0.103	17.40	0.81	0.53	32.63	0.49	1038.12	3.8E-4	0.2306	0.1145	1.12	0.1280	1.54E-3	0.002
0.104	17.35	0.81	0.53	32.67	0.49	1037.08	3.8E-4	0.2289	0.1135	1.12	0.1268	1.52E-3	0.002
0.106	17.30	0.81	0.53	32.70	0.49	1036.03	3.8E-4	0.2272	0.1124	1.12	0.1257	1.51E-3	0.002
0.107	17.25	0.81	0.52	32.74	0.49	1034.98	3.8E-4	0.2255	0.1113	1.12	0.1245	1.49E-3	0.001
0.109	17.20	0.80	0.52	32.77	0.49	1033.91	3.8E-4	0.2238	0.1103	1.12	0.1233	1.48E-3	0.001
0.110	17.15	0.80	0.52	32.81	0.49	1032.84	3.8E-4	0.2221	0.1093	1.12	0.1221	1.47E-3	0.001
0.112	17.10	0.80	0.52	32.85	0.49	1031.76	3.8E-4	0.2204	0.1082	1.12	0.1210	1.45E-3	0.001
0.113	17.05	0.80	0.52	32.88	0.49	1030.68	3.8E-4	0.2187	0.1072	1.12	0.1198	1.44E-3	0.001
0.115	17.00	0.80	0.52	32.92	0.49	1029.58	3.8E-4	0.2170	0.1061	1.12	0.1187	1.42E-3	0.001
0.116	16.95	0.79	0.52	32.96	0.49	1028.48	3.8E-4	0.2153	0.1051	1.12	0.1175	1.41E-3	0.001
0.118	16.90	0.79	0.51	32.99	0.49	1027.37	3.8E-4	0.2136	0.1041	1.12	0.1163	1.40E-3	0.001
0.119	16.85	0.79	0.51	33.03	0.49	1026.25	3.8E-4	0.2120	0.1030	1.12	0.1152	1.38E-3	0.001
0.120	16.80	0.79	0.51	33.07	0.49	1025.13	3.8E-4	0.2103	0.1020	1.12	0.1140	1.37E-3	0.001
0.122	16.75	0.78	0.51	33.11	0.49	1023.99	3.8E-4	0.2086	0.1010	1.12	0.1129	1.35E-3	0.001
0.123	16.70	0.78	0.51	33.15	0.49	1022.85	3.7E-4	0.2069	0.0999	1.12	0.1117	1.34E-3	0.001
0.124	16.65	0.78	0.51	33.19	0.49	1021.70	3.7E-4	0.2052	0.0989	1.12	0.1106	1.33E-3	0.001
0.126	16.60	0.78	0.51	33.23	0.49	1020.54	3.7E-4	0.2036	0.0979	1.12	0.1095	1.31E-3	0.001
0.127	16.55	0.77	0.50	33.27	0.49	1019.38	3.7E-4	0.2019	0.0969	1.12	0.1083	1.30E-3	0.001
0.128	16.50	0.77	0.50	33.31	0.49	1018.20	3.7E-4	0.2002	0.0959	1.12	0.1072	1.29E-3	0.001
0.130	16.45	0.77	0.50	33.66	0.49	1020.18	3.7E-4	0.1959	0.0920	1.12	0.1029	1.23E-3	0.001
0.131	16.40	0.77	0.50	34.01	0.49	1022.13	3.7E-4	0.1917	0.0883	1.12	0.0987	1.18E-3	0.001
0.132	16.35	0.76	0.50	34.37	0.49	1024.06	3.7E-4	0.1876	0.0847	1.12	0.0947	1.14E-3	0.001
0.133	16.30	0.76	0.50	34.72	0.49	1025.96	3.6E-4	0.1836	0.0813	1.12	0.0909	1.09E-3	0.001
0.134	16.25	0.76	0.49	35.08	0.49	1027.84	3.6E-4	0.1798	0.0780	1.12	0.0872	1.05E-3	0.001
0.135	16.20	0.76	0.49	35.44	0.49	1029.70	3.6E-4	0.1761	0.0748	1.12	0.0836	1.00E-3	0.001
0.136	16.15	0.76	0.49	35.80	0.49	1031.54	3.6E-4	0.1725	0.0				

0.143	15.80	0.74	0.48	38.34	0.49	1043.77	3.5E-4	0.1504	0.0533	1.12	0.0596	7.15E-4	0.001
0.144	15.75	0.74	0.48	38.71	0.49	1045.43	3.5E-4	0.1476	0.0510	1.12	0.0570	6.84E-4	0.001
0.144	15.70	0.73	0.48	39.08	0.49	1047.07	3.4E-4	0.1449	0.0488	1.12	0.0546	6.55E-4	0.001
0.145	15.65	0.73	0.48	39.45	0.49	1048.69	3.4E-4	0.1422	0.0467	1.12	0.0522	6.26E-4	0.001
0.146	15.60	0.73	0.47	39.82	0.49	1050.29	3.4E-4	0.1397	0.0446	1.12	0.0499	5.99E-4	0.001
0.146	15.55	0.73	0.47	40.19	0.49	1051.87	3.4E-4	0.1372	0.0434	1.12	0.0485	5.82E-4	0.001
0.147	15.50	0.72	0.47	40.56	0.49	1053.44	3.4E-4	0.1348	0.0426	1.12	0.0477	5.72E-4	0.001
0.147	15.45	0.72	0.47	40.94	0.49	1054.98	3.4E-4	0.1324	0.0419	1.12	0.0468	5.62E-4	0.001
0.148	15.40	0.72	0.47	41.31	0.49	1056.50	3.4E-4	0.1301	0.0412	1.12	0.0460	5.52E-4	0.001
0.148	15.35	0.72	0.47	41.69	0.49	1058.00	3.3E-4	0.1279	0.0405	1.12	0.0452	5.43E-4	0.001
0.149	15.30	0.72	0.47	42.07	0.49	1059.49	3.3E-4	0.1258	0.0398	1.12	0.0445	5.34E-4	0.001
0.149	15.25	0.71	0.46	42.45	0.49	1060.96	3.3E-4	0.1237	0.0391	1.12	0.0437	5.25E-4	0.001
0.150	15.20	0.71	0.46	42.83	0.49	1062.40	3.3E-4	0.1216	0.0385	1.12	0.0430	5.16E-4	0.001
0.150	15.15	0.71	0.46	43.21	0.49	1063.83	3.3E-4	0.1196	0.0378	1.12	0.0423	5.07E-4	0.001
0.151	15.10	0.71	0.46	43.59	0.49	1065.25	3.3E-4	0.1177	0.0372	1.12	0.0416	4.99E-4	0.000
0.151	15.05	0.70	0.46	43.98	0.49	1066.64	3.3E-4	0.1158	0.0366	1.12	0.0409	4.91E-4	0.000
0.152	15.00	0.70	0.46	44.36	0.49	1068.02	3.2E-4	0.1139	0.0360	1.12	0.0403	4.83E-4	0.000
0.152	14.95	0.70	0.45	45.47	0.49	1075.05	3.2E-4	0.1100	0.0348	1.12	0.0389	4.67E-4	0.000
0.153	14.90	0.70	0.45	46.53	0.49	1081.56	3.2E-4	0.1065	0.0337	1.12	0.0376	4.52E-4	0.000
0.153	14.85	0.70	0.45	47.38	0.49	1086.30	3.2E-4	0.1037	0.0328	1.12	0.0367	4.40E-4	0.000
0.154	14.80	0.69	0.45	48.23	0.49	1090.95	3.1E-4	0.1010	0.0319	1.12	0.0357	4.29E-4	0.000
0.154	14.75	0.69	0.45	44.59	0.49	1061.02	3.2E-4	0.1101	0.0348	1.12	0.0389	4.67E-4	0.000
0.155	14.70	0.69	0.45	45.34	0.49	1065.07	3.2E-4	0.1074	0.0340	1.12	0.0380	4.56E-4	0.000
0.155	14.65	0.69	0.45	46.09	0.49	1069.05	3.2E-4	0.1047	0.0331	1.12	0.0370	4.44E-4	0.000
0.155	14.60	0.68	0.44	46.84	0.49	1072.96	3.1E-4	0.1022	0.0323	1.12	0.0361	4.34E-4	0.000
0.156	14.55	0.68	0.44	47.59	0.49	1076.81	3.1E-4	0.0998	0.0316	1.12	0.0353	4.23E-4	0.000
0.156	14.50	0.68	0.44	48.35	0.49	1080.60	3.1E-4	0.0975	0.0308	1.12	0.0345	4.14E-4	0.000
0.157	14.45	0.68	0.44	49.12	0.49	1084.33	3.1E-4	0.0952	0.0301	1.12	0.0337	4.04E-4	0.000
0.157	14.40	0.67	0.44	49.89	0.49	1087.99	3.1E-4	0.0931	0.0294	1.12	0.0329	3.95E-4	0.000
0.158	14.35	0.67	0.44	50.66	0.49	1091.59	3.0E-4	0.0910	0.0288	1.12	0.0322	3.86E-4	0.000
0.158	14.30	0.67	0.43	51.44	0.49	1095.14	3.0E-4	0.0890	0.0281	1.12	0.0315	3.78E-4	0.000
0.158	14.25	0.67	0.43	52.22	0.49	1098.62	3.0E-4	0.0871	0.0275	1.12	0.0308	3.69E-4	0.000
0.159	14.20	0.66	0.43	53.00	0.49	1102.05	3.0E-4	0.0852	0.0270	1.12	0.0301	3.62E-4	0.000
0.159	14.15	0.66	0.43	53.79	0.49	1105.42	3.0E-4	0.0834	0.0264	1.12	0.0295	3.54E-4	0.000
0.159	14.10	0.66	0.43	54.59	0.49	1108.74	2.9E-4	0.0817	0.0258	1.12	0.0289	3.47E-4	0.000

0.159	14.05	0.66	0.43	55.39	0.49	1112.00	2.9E-4	0.0801	0.0253	1.12	0.0283	3.40E-4	0.000
0.160	14.00	0.65	0.42	56.19	0.49	1115.20	2.9E-4	0.0784	0.0248	1.12	0.0277	3.33E-4	0.000
0.160	13.95	0.65	0.42	57.00	0.49	1118.35	2.9E-4	0.0769	0.0243	1.12	0.0272	3.26E-4	0.000
0.160	13.90	0.65	0.42	57.82	0.49	1121.44	2.9E-4	0.0754	0.0238	1.12	0.0267	3.20E-4	0.000
0.161	13.85	0.65	0.42	58.64	0.49	1124.48	2.8E-4	0.0739	0.0234	1.12	0.0261	3.14E-4	0.000
0.161	13.80	0.64	0.42	59.46	0.49	1127.47	2.8E-4	0.0725	0.0229	1.12	0.0256	3.08E-4	0.000
0.161	13.75	0.64	0.42	60.29	0.49	1130.41	2.8E-4	0.0711	0.0225	1.12	0.0252	3.02E-4	0.000
0.162	13.70	0.64	0.41	61.13	0.49	1133.29	2.8E-4	0.0698	0.0221	1.12	0.0247	2.96E-4	0.000
0.162	13.65	0.64	0.41	61.97	0.49	1136.13	2.8E-4	0.0685	0.0217	1.12	0.0242	2.91E-4	0.000
0.162	13.60	0.63	0.41	62.82	0.49	1138.91	2.7E-4	0.0673	0.0213	1.12	0.0238	2.86E-4	0.000
0.162	13.55	0.63	0.41	63.67	0.49	1141.64	2.7E-4	0.0661	0.0209	1.12	0.0234	2.80E-4	0.000
0.163	13.50	0.63	0.41	64.76	0.49	1145.74	2.7E-4	0.0647	0.0205	1.12	0.0229	2.74E-4	0.000
0.163	13.45	0.63	0.41	64.72	0.49	1143.04	2.7E-4	0.0644	0.0204	1.12	0.0228	2.73E-4	0.000
0.163	13.40	0.62	0.40	64.67	0.49	1140.33	2.7E-4	0.0641	0.0203	1.12	0.0227	2.72E-4	0.000
0.164	13.35	0.62	0.40	64.62	0.49	1137.62	2.7E-4	0.0638	0.0202	1.12	0.0225	2.71E-4	0.000
0.164	13.30	0.62	0.40	64.57	0.49	1134.90	2.7E-4	0.0635	0.0201	1.12	0.0224	2.69E-4	0.000
0.164	13.25	0.61	0.40	64.52	0.49	1132.19	2.7E-4	0.0631	0.0200	1.12	0.0223	2.68E-4	0.000
0.164	13.20	0.61	0.40	64.48	0.49	1129.46	2.7E-4	0.0628	0.0199	1.12	0.0222	2.67E-4	0.000
0.165	13.15	0.61	0.40	64.43	0.49	1126.74	2.7E-4	0.0625	0.0198	1.12	0.0221	2.65E-4	0.000
0.165	13.10	0.61	0.39	64.38	0.49	1124.01	2.7E-4	0.0622	0.0197	1.12	0.0220	2.64E-4	0.000
0.165	13.05	0.60	0.39	64.33	0.49	1121.28	2.7E-4	0.0619	0.0196	1.12	0.0219	2.63E-4	0.000
0.165	13.00	0.60	0.39	64.28	0.49	1118.55	2.7E-4	0.0616	0.0195	1.12	0.0218	2.61E-4	0.000
0.166	12.95	0.60	0.39	64.24	0.49	1115.81	2.7E-4	0.0613	0.0194	1.12	0.0217	2.60E-4	0.000
0.166	12.90	0.60	0.39	64.19	0.50	1113.07	2.7E-4	0.0610	0.0193	1.12	0.0216	2.59E-4	0.000
0.166	12.85	0.59	0.39	64.14	0.50	1110.32	2.6E-4	0.0607	0.0192	1.12	0.0215	2.58E-4	0.000
0.166	12.80	0.59	0.38	64.09	0.50	1107.57	2.6E-4	0.0604	0.0191	1.12	0.0214	2.56E-4	0.000
0.167	12.75	0.59	0.38	64.05	0.50	1104.82	2.6E-4	0.0601	0.0190	1.12	0.0213	2.55E-4	0.000
0.167	12.70	0.59	0.38	64.00	0.50	1102.07	2.6E-4	0.0598	0.0				

0.169	12.35	0.57	0.37	63.67	0.50	1082.68	2.6E-4	0.0578	0.0183	1.12	0.0204	2.45E-4	0.000
0.169	12.30	0.56	0.37	63.62	0.50	1079.90	2.6E-4	0.0575	0.0182	1.12	0.0203	2.44E-4	0.000
0.169	12.25	0.56	0.37	63.58	0.50	1077.11	2.6E-4	0.0572	0.0181	1.12	0.0202	2.43E-4	0.000
0.170	12.20	0.56	0.36	63.53	0.50	1074.32	2.6E-4	0.0569	0.0180	1.12	0.0201	2.41E-4	0.000
0.170	12.15	0.56	0.36	63.49	0.50	1071.52	2.6E-4	0.0566	0.0179	1.12	0.0200	2.40E-4	0.000
0.170	12.10	0.55	0.36	63.44	0.50	1068.72	2.6E-4	0.0563	0.0178	1.12	0.0199	2.39E-4	0.000
0.170	12.05	0.55	0.36	63.39	0.50	1065.92	2.6E-4	0.0560	0.0177	1.12	0.0198	2.38E-4	0.000
0.171	12.00	0.55	0.36	63.35	0.50	1063.11	2.6E-4	0.0557	0.0176	1.12	0.0197	2.36E-4	0.000
0.171	11.95	0.55	0.35	62.72	0.50	1057.06	2.6E-4	0.0559	0.0177	1.12	0.0198	2.37E-4	0.000
0.171	11.90	0.54	0.35	62.33	0.50	1052.34	2.6E-4	0.0558	0.0177	1.12	0.0197	2.37E-4	0.000
0.171	11.85	0.54	0.35	61.94	0.50	1047.59	2.6E-4	0.0558	0.0176	1.12	0.0197	2.37E-4	0.000
0.172	11.80	0.54	0.35	61.55	0.50	1042.83	2.6E-4	0.0859	0.0272	1.12	0.0304	3.65E-4	0.000
0.172	11.75	0.54	0.35	61.15	0.50	1038.04	2.6E-4	0.0859	0.0272	1.12	0.0304	3.64E-4	0.000
0.172	11.70	0.53	0.35	60.75	0.50	1033.24	2.6E-4	0.0858	0.0271	1.12	0.0303	3.64E-4	0.000
0.173	11.65	0.53	0.34	60.35	0.50	1028.42	2.6E-4	0.0857	0.0271	1.12	0.0303	3.64E-4	0.000
0.173	11.60	0.53	0.34	59.94	0.50	1023.58	2.6E-4	0.0857	0.0271	1.12	0.0303	3.63E-4	0.000
0.174	11.55	0.53	0.34	59.53	0.50	1018.71	2.6E-4	0.0856	0.0271	1.12	0.0303	3.63E-4	0.000
0.174	11.50	0.52	0.34	59.12	0.50	1013.83	2.6E-4	0.0856	0.0271	1.12	0.0303	3.63E-4	0.000
0.174	11.45	0.52	0.34	58.71	0.50	1008.93	2.6E-4	0.0856	0.0271	1.12	0.0303	3.63E-4	0.000
0.175	11.40	0.52	0.34	58.29	0.50	1004.00	2.6E-4	0.0856	0.0271	1.12	0.0303	3.63E-4	0.000
0.175	11.35	0.51	0.33	57.87	0.50	999.05	2.6E-4	0.0856	0.0271	1.12	0.0303	3.63E-4	0.000
0.175	11.30	0.51	0.33	57.44	0.50	994.08	2.6E-4	0.0856	0.0271	1.12	0.0303	3.63E-4	0.000
0.176	11.25	0.51	0.33	57.02	0.50	989.09	2.6E-4	0.0856	0.0271	1.12	0.0303	3.63E-4	0.000
0.176	11.20	0.51	0.33	56.58	0.50	984.08	2.6E-4	0.0857	0.0271	1.12	0.0303	3.64E-4	0.000
0.176	11.15	0.50	0.33	56.15	0.50	979.04	2.6E-4	0.0857	0.0271	1.12	0.0303	3.64E-4	0.000
0.177	11.10	0.50	0.33	55.71	0.50	973.98	2.6E-4	0.0858	0.0271	1.12	0.0303	3.64E-4	0.000
0.177	11.05	0.50	0.32	55.27	0.50	968.89	2.6E-4	0.0859	0.0272	1.12	0.0304	3.64E-4	0.000
0.178	11.00	0.50	0.32	54.83	0.50	963.78	2.6E-4	0.0860	0.0272	1.12	0.0304	3.65E-4	0.000
0.178	10.95	0.49	0.32	54.38	0.50	958.64	2.6E-4	0.0861	0.0272	1.12	0.0305	3.65E-4	0.000
0.178	10.90	0.49	0.32	53.93	0.50	953.48	2.6E-4	0.0863	0.0273	1.12	0.0305	3.66E-4	0.000
0.179	10.85	0.49	0.32	53.47	0.50	948.29	2.6E-4	0.0864	0.0273	1.12	0.0306	3.67E-4	0.000
0.179	10.80	0.49	0.32	53.01	0.50	943.08	2.6E-4	0.0866	0.0274	1.12	0.0306	3.67E-4	0.000
0.179	10.75	0.48	0.31	52.55	0.50	937.84	2.6E-4	0.0868	0.0275	1.12	0.0307	3.68E-4	0.000
0.180	10.70	0.48	0.31	52.08	0.50	932.57	2.6E-4	0.0870	0.0275	1.12	0.0308	3.69E-4	0.000
0.180	10.65	0.48	0.31	51.62	0.50	927.28	2.6E-4	0.0873	0.0276	1.12	0.0309	3.70E-4	0.000

0.180	10.60	0.48	0.31	51.14	0.50	921.95	2.6E-4	0.0875	0.0277	1.12	0.0309	3.71E-4	0.000
0.180	10.55	0.47	0.31	50.67	0.50	916.60	2.6E-4	0.0878	0.0278	1.12	0.0310	3.73E-4	0.000
0.181	10.50	0.47	0.31	49.94	0.50	909.77	2.6E-4	0.0890	0.0281	1.12	0.0315	3.78E-4	0.000
0.181	10.45	0.47	0.30	50.06	0.50	908.00	2.6E-4	0.0872	0.0276	1.12	0.0308	3.70E-4	0.000
0.182	10.40	0.47	0.30	50.18	0.50	906.23	2.6E-4	0.0854	0.0270	1.12	0.0302	3.62E-4	0.000
0.182	10.35	0.46	0.30	50.29	0.50	904.46	2.5E-4	0.0838	0.0265	1.12	0.0296	3.55E-4	0.000
0.182	10.30	0.46	0.30	50.41	0.50	902.70	2.5E-4	0.0821	0.0260	1.12	0.0290	3.48E-4	0.000
0.183	10.25	0.46	0.30	50.53	0.50	900.94	2.5E-4	0.0806	0.0255	1.12	0.0285	3.42E-4	0.000
0.183	10.20	0.46	0.30	50.65	0.50	899.17	2.5E-4	0.0791	0.0250	1.12	0.0280	3.35E-4	0.000
0.183	10.15	0.45	0.29	50.77	0.50	897.41	2.5E-4	0.0776	0.0245	1.12	0.0274	3.29E-4	0.000
0.184	10.10	0.45	0.29	50.89	0.50	895.65	2.5E-4	0.0762	0.0241	1.12	0.0269	3.23E-4	0.000
0.184	10.05	0.45	0.29	51.01	0.50	893.90	2.5E-4	0.0748	0.0237	1.12	0.0265	3.17E-4	0.000
0.184	10.00	0.45	0.29	51.13	0.50	892.14	2.5E-4	0.0735	0.0232	1.12	0.0260	3.12E-4	0.000
0.185	9.95	0.44	0.29	51.25	0.50	890.38	2.5E-4	0.0722	0.0228	1.12	0.0255	3.07E-4	0.000
0.185	9.90	0.44	0.29	51.37	0.50	888.63	2.5E-4	0.0710	0.0225	1.12	0.0251	3.01E-4	0.000
0.185	9.85	0.44	0.28	51.50	0.50	886.88	2.5E-4	0.0698	0.0221	1.12	0.0247	2.96E-4	0.000
0.186	9.80	0.44	0.28	51.62	0.50	885.12	2.5E-4	0.0687	0.0217	1.12	0.0243	2.91E-4	0.000
0.186	9.75	0.43	0.28	51.74	0.50	883.37	2.4E-4	0.0676	0.0214	1.12	0.0239	2.87E-4	0.000
0.186	9.70	0.43	0.28	51.87	0.50	881.62	2.4E-4	0.0665	0.0210	1.12	0.0235	2.82E-4	0.000
0.186	9.65	0.43	0.28	51.99	0.50	879.88	2.4E-4	0.0655	0.0207	1.12	0.0231	2.78E-4	0.000
0.187	9.60	0.43	0.28	52.12	0.50	878.13	2.4E-4	0.0645	0.0204	1.12	0.0228	2.73E-4	0.000
0.187	9.55	0.42	0.28	52.24	0.50	876.38	2.4E-4	0.0635	0.0201	1.12	0.0224	2.69E-4	0.000
0.187	9.50	0.42	0.27	52.37	0.50	874.64	2.4E-4	0.0625	0.0198	1.12	0.0221	2.65E-4	0.000
0.187	9.45	0.42	0.27	52.49	0.50	872.90	2.4E-4	0.0616	0.0195	1.12	0.0218	2.62E-4	0.000
0.188	9.40	0.42	0.27	52.62	0.50	871.16	2.4E-4	0.0608	0.0192	1.12	0.0215	2.58E-4	0.000
0.188	9.35	0.41	0.27	52.75	0.50	869.42	2.4E-4	0.0599	0.0189	1.12	0.0212	2.54E-4	0.000
0.188	9.30	0.41	0.27	52.88	0.50	867.68	2.4E-4	0.0591	0.0187	1.12	0.0209	2.51E-4	0.000
0.188	9.25	0.41	0.27	53.01	0.50	865.95	2.4E-4	0.0583	0.0184	1.12	0.0206	2.47E-4	0.0

0.190	8.90	0.39	0.26	53.86	0.50	853.45	2.3E-4	0.0534	0.0169	1.12	0.0189	2.27E-4	0.000
0.191	8.85	0.39	0.25	53.85	0.50	850.88	2.3E-4	0.0529	0.0167	1.12	0.0187	2.25E-4	0.000
0.191	8.80	0.39	0.25	53.83	0.50	848.30	2.3E-4	0.0525	0.0166	1.12	0.0185	2.23E-4	0.000
0.191	8.75	0.39	0.25	53.82	0.50	845.71	2.3E-4	0.0520	0.0164	1.12	0.0184	2.21E-4	0.000
0.191	8.70	0.38	0.25	53.81	0.50	843.12	2.3E-4	0.0515	0.0163	1.12	0.0182	2.19E-4	0.000
0.191	8.65	0.38	0.25	53.80	0.50	840.51	2.3E-4	0.0511	0.0161	1.12	0.0181	2.17E-4	0.000
0.192	8.60	0.38	0.25	53.80	0.50	837.90	2.3E-4	0.0506	0.0160	1.12	0.0179	2.15E-4	0.000
0.192	8.55	0.38	0.25	53.79	0.50	835.27	2.3E-4	0.0502	0.0159	1.12	0.0177	2.13E-4	0.000
0.192	8.50	0.38	0.24	53.79	0.50	832.64	2.3E-4	0.0497	0.0157	1.12	0.0176	2.11E-4	0.000
0.192	8.45	0.37	0.24	53.79	0.50	829.99	2.2E-4	0.0493	0.0156	1.12	0.0174	2.09E-4	0.000
0.193	8.40	0.37	0.24	53.80	0.50	827.34	2.2E-4	0.0488	0.0154	1.12	0.0173	2.07E-4	0.000
0.193	8.35	0.37	0.24	53.80	0.50	824.68	2.2E-4	0.0484	0.0153	1.12	0.0171	2.05E-4	0.000
0.193	8.30	0.37	0.24	53.81	0.50	822.00	2.2E-4	0.0480	0.0152	1.12	0.0170	2.04E-4	0.000
0.193	8.25	0.36	0.24	53.82	0.50	819.32	2.2E-4	0.0476	0.0150	1.12	0.0168	2.02E-4	0.000
0.193	8.20	0.36	0.23	48.09	0.50	786.51	2.3E-4	0.0526	0.0166	1.12	0.0186	2.23E-4	0.000
0.194	8.15	0.36	0.23	48.08	0.50	783.81	2.3E-4	0.0521	0.0165	1.12	0.0184	2.21E-4	0.000
0.194	8.10	0.36	0.23	48.08	0.50	781.10	2.3E-4	0.0515	0.0163	1.12	0.0182	2.19E-4	0.000
0.194	8.05	0.35	0.23	48.08	0.50	778.38	2.3E-4	0.0510	0.0161	1.12	0.0180	2.16E-4	0.000
0.194	8.00	0.35	0.23	48.08	0.50	775.65	2.3E-4	0.0505	0.0160	1.12	0.0178	2.14E-4	0.000
0.194	7.95	0.35	0.23	48.08	0.50	772.91	2.3E-4	0.0499	0.0158	1.12	0.0177	2.12E-4	0.000
0.195	7.90	0.35	0.22	48.08	0.50	770.13	2.3E-4	0.0494	0.0156	1.12	0.0175	2.10E-4	0.000
0.195	7.85	0.34	0.22	47.93	0.50	766.52	2.2E-4	0.0491	0.0155	1.12	0.0174	2.08E-4	0.000
0.195	7.80	0.34	0.22	47.78	0.50	762.89	2.2E-4	0.0487	0.0154	1.12	0.0172	2.07E-4	0.000
0.195	7.75	0.34	0.22	47.63	0.50	759.24	2.2E-4	0.0484	0.0153	1.12	0.0171	2.05E-4	0.000
0.195	7.70	0.34	0.22	47.48	0.50	755.57	2.2E-4	0.0481	0.0152	1.12	0.0170	2.04E-4	0.000
0.196	7.65	0.33	0.22	47.32	0.50	751.88	2.2E-4	0.0477	0.0151	1.12	0.0169	2.02E-4	0.000
0.196	7.60	0.33	0.21	47.17	0.50	748.18	2.2E-4	0.0474	0.0150	1.12	0.0168	2.01E-4	0.000
0.196	7.55	0.33	0.21	47.02	0.50	744.45	2.2E-4	0.0470	0.0149	1.12	0.0166	2.00E-4	0.000
0.196	7.50	0.33	0.21	46.87	0.50	740.70	2.2E-4	0.0467	0.0148	1.12	0.0165	1.98E-4	0.000
0.196	7.45	0.32	0.21	46.97	0.50	738.31	2.2E-4	0.0462	0.0146	1.12	0.0163	1.96E-4	0.000
0.197	7.40	0.32	0.21	47.08	0.50	735.89	2.2E-4	0.0456	0.0144	1.12	0.0161	1.94E-4	0.000
0.197	7.35	0.32	0.21	47.19	0.50	733.46	2.2E-4	0.0451	0.0143	1.12	0.0160	1.92E-4	0.000
0.197	7.30	0.32	0.20	47.29	0.50	731.01	2.2E-4	0.0447	0.0141	1.12	0.0158	1.89E-4	0.000
0.197	7.25	0.31	0.20	47.40	0.50	728.54	2.2E-4	0.0442	0.0140	1.12	0.0156	1.87E-4	0.000
0.197	7.20	0.31	0.20	47.51	0.50	726.05	2.1E-4	0.0437	0.0138	1.12	0.0155	1.85E-4	0.000

0.197	7.15	0.31	0.20	47.61	0.50	723.54	2.1E-4	0.0433	0.0137	1.12	0.0153	1.84E-4	0.000
0.198	7.10	0.30	0.20	47.72	0.50	721.01	2.1E-4	0.0428	0.0135	1.12	0.0151	1.82E-4	0.000
0.198	7.05	0.30	0.20	47.83	0.50	718.47	2.1E-4	0.0424	0.0134	1.12	0.0150	1.80E-4	0.000
0.198	7.00	0.30	0.19	47.93	0.50	715.90	2.1E-4	0.0420	0.0133	1.12	0.0149	1.78E-4	0.000
0.198	6.95	0.30	0.19	48.04	0.50	713.32	2.1E-4	0.0416	0.0132	1.12	0.0147	1.77E-4	0.000
0.198	6.90	0.29	0.19	48.15	0.50	710.71	2.1E-4	0.0413	0.0130	1.12	0.0146	1.75E-4	0.000
0.199	6.85	0.29	0.19	48.25	0.50	708.09	2.1E-4	0.0409	0.0129	1.12	0.0145	1.74E-4	0.000
0.199	6.80	0.29	0.19	48.36	0.50	705.44	2.1E-4	0.0405	0.0128	1.12	0.0143	1.72E-4	0.000
0.199	6.75	0.29	0.19	48.47	0.50	702.78	2.0E-4	0.0402	0.0127	1.12	0.0142	1.71E-4	0.000
0.199	6.70	0.28	0.18	48.57	0.50	700.09	2.0E-4	0.0399	0.0126	1.12	0.0141	1.69E-4	0.000
0.199	6.65	0.28	0.18	48.68	0.50	697.39	2.0E-4	0.0396	0.0125	1.12	0.0140	1.68E-4	0.000
0.199	6.60	0.28	0.18	48.79	0.50	694.66	2.0E-4	0.0392	0.0124	1.12	0.0139	1.67E-4	0.000
0.200	6.55	0.28	0.18	48.89	0.50	691.91	2.0E-4	0.0389	0.0123	1.12	0.0138	1.65E-4	0.000
0.200	6.50	0.27	0.18	49.00	0.50	689.14	2.0E-4	0.0397	0.0125	1.12	0.0140	1.68E-4	0.000
0.200	6.45	0.27	0.18	49.11	0.50	686.34	2.0E-4	0.0393	0.0124	1.12	0.0139	1.67E-4	0.000
0.200	6.40	0.27	0.17	49.21	0.50	683.53	2.0E-4	0.0390	0.0123	1.12	0.0138	1.65E-4	0.000
0.200	6.35	0.27	0.17	49.32	0.50	680.69	2.0E-4	0.0387	0.0122	1.12	0.0137	1.64E-4	0.000
0.200	6.30	0.26	0.17	49.43	0.50	677.83	2.0E-4	0.0383	0.0121	1.12	0.0136	1.63E-4	0.000
0.201	6.25	0.26	0.17	49.53	0.50	674.95	1.9E-4	0.0380	0.0120	1.12	0.0134	1.61E-4	0.000
0.201	6.20	0.26	0.17	49.64	0.50	672.04	1.9E-4	0.0377	0.0119	1.12	0.0133	1.60E-4	0.000
0.201	6.15	0.26	0.17	49.75	0.50	669.11	1.9E-4	0.0374	0.0118	1.12	0.0132	1.59E-4	0.000
0.201	6.10	0.25	0.16	49.85	0.50	666.16	1.9E-4	0.0371	0.0117	1.12	0.0131	1.57E-4	0.000
0.201	6.05	0.25	0.16	49.96	0.50	663.18	1.9E-4	0.0367	0.0116	1.12	0.0130	1.56E-4	0.000
0.201	6.00	0.25	0.16	50.07	0.50	660.18	1.9E-4	0.0364	0.0115	1.12	0.0129	1.54E-4	0.000
0.201	5.95	0.24	0.16	50.00	0.50	656.40	1.9E-4	0.0362	0.0114	1.12	0.0128	1.53E-4	0.000
0.202	5.90	0.24	0.16	49.93	0.50	652.62	1.9E-4	0.0359	0.0114	1.12	0.0127	1.52E-4	0.000
0.202	5.85	0.24	0.16	49.85	0.50	648.85	1.9E-4	0.0357	0.0113	1.12	0.0126	1.51E-4	0.000
0.202	5.80	0.24	0.15	49.78	0.50	645.08	1.9E-4	0.0354	0.0112	1.12	0.0125	1.50E-4	0.000
0.													

0.203	5.45	0.22	0.14	49.29	0.50	618.80	1.8E-4	0.0420	0.0133	1.12	0.0149	1.78E-4	0.000
0.203	5.40	0.22	0.14	49.22	0.50	615.06	1.8E-4	0.0415	0.0131	1.12	0.0147	1.76E-4	0.000
0.204	5.35	0.21	0.14	49.15	0.50	611.33	1.8E-4	0.0410	0.0130	1.12	0.0145	1.74E-4	0.000
0.204	5.30	0.21	0.14	49.08	0.50	607.60	1.8E-4	0.0405	0.0128	1.12	0.0143	1.72E-4	0.000
0.204	5.25	0.21	0.14	49.01	0.50	603.87	1.8E-4	0.0401	0.0127	1.12	0.0142	1.70E-4	0.000
0.204	5.20	0.21	0.13	48.94	0.50	600.15	1.7E-4	0.0396	0.0125	1.12	0.0140	1.68E-4	0.000
0.204	5.15	0.21	0.13	48.87	0.50	596.43	1.7E-4	0.0391	0.0124	1.12	0.0138	1.66E-4	0.000
0.204	5.10	0.20	0.13	48.80	0.50	592.72	1.7E-4	0.0387	0.0122	1.12	0.0137	1.64E-4	0.000
0.205	5.05	0.20	0.13	48.62	0.50	588.59	1.7E-4	0.0383	0.0121	1.12	0.0135	1.62E-4	0.000
0.205	5.00	0.20	0.13	48.26	0.50	583.70	1.7E-4	0.0380	0.0120	1.12	0.0134	1.61E-4	0.000
0.205	4.95	0.20	0.13	47.89	0.50	578.81	1.7E-4	0.0377	0.0119	1.12	0.0133	1.60E-4	0.000
0.205	4.90	0.19	0.13	47.52	0.50	573.94	1.7E-4	0.0375	0.0118	1.12	0.0132	1.59E-4	0.000
0.205	4.85	0.19	0.12	47.16	0.50	569.08	1.7E-4	0.0372	0.0118	1.12	0.0132	1.58E-4	0.000
0.205	4.80	0.19	0.12	46.79	0.50	564.23	1.7E-4	0.0369	0.0117	1.12	0.0131	1.57E-4	0.000
0.206	4.75	0.19	0.12	46.42	0.50	559.40	1.7E-4	0.0367	0.0116	1.12	0.0130	1.56E-4	0.000
0.206	4.70	0.18	0.12	46.06	0.50	554.57	1.7E-4	0.0364	0.0115	1.12	0.0129	1.55E-4	0.000
0.206	4.65	0.18	0.12	45.69	0.50	549.75	1.7E-4	0.0362	0.0114	1.12	0.0128	1.53E-4	0.000
0.206	4.60	0.18	0.12	45.32	0.50	544.95	1.7E-4	0.0359	0.0114	1.12	0.0127	1.52E-4	0.000
0.206	4.55	0.18	0.12	44.96	0.50	540.16	1.7E-4	0.0357	0.0113	1.12	0.0126	1.51E-4	0.000
0.206	4.50	0.18	0.11	44.59	0.51	535.38	1.7E-4	0.0354	0.0112	1.12	0.0125	0.00E0	0.000
0.206	4.45	0.17	0.11	44.66	0.51	532.35	1.6E-4	0.0349	0.0110	1.12	0.0124	0.00E0	0.000
0.206	4.40	0.17	0.11	44.74	0.51	529.31	1.6E-4	0.0345	0.0109	1.12	0.0122	0.00E0	0.000
0.206	4.35	0.17	0.11	44.81	0.51	526.26	1.6E-4	0.0340	0.0107	1.12	0.0120	0.00E0	0.000
0.206	4.30	0.17	0.11	44.88	0.51	523.20	1.6E-4	0.0335	0.0106	1.12	0.0119	0.00E0	0.000
0.206	4.25	0.17	0.11	44.96	0.51	520.12	1.6E-4	0.0331	0.0105	1.12	0.0117	0.00E0	0.000
0.206	4.20	0.16	0.11	45.03	0.51	517.03	1.6E-4	0.0326	0.0103	1.12	0.0115	0.00E0	0.000
0.206	4.15	0.16	0.10	45.10	0.51	513.93	1.6E-4	0.0322	0.0102	1.12	0.0114	0.00E0	0.000
0.206	4.10	0.16	0.10	45.18	0.51	510.82	1.6E-4	0.0318	0.0101	1.12	0.0112	0.00E0	0.000
0.206	4.05	0.16	0.10	45.25	0.51	507.69	1.6E-4	0.0314	0.0099	1.12	0.0111	0.00E0	0.000
0.206	4.00	0.15	0.10	45.32	0.51	504.55	1.5E-4	0.0310	0.0098	1.12	0.0109	0.00E0	0.000
0.206	3.95	0.15	0.10	45.40	0.51	501.40	1.5E-4	0.0306	0.0097	1.12	0.0108	0.00E0	0.000
0.206	3.90	0.15	0.10	45.47	0.51	498.23	1.5E-4	0.0302	0.0095	1.12	0.0107	0.00E0	0.000
0.206	3.85	0.15	0.10	45.54	0.51	495.05	1.5E-4	0.0298	0.0094	1.12	0.0105	0.00E0	0.000
0.206	3.80	0.15	0.09	45.62	0.51	491.86	1.5E-4	0.0294	0.0093	1.12	0.0104	0.00E0	0.000
0.206	3.75	0.14	0.09	45.69	0.51	488.65	1.5E-4	0.0291	0.0092	1.12	0.0103	0.00E0	0.000

0.206	3.70	0.14	0.09	45.76	0.51	485.43	1.5E-4	0.0287	0.0091	1.12	0.0101	0.00E0	0.000
0.206	3.65	0.14	0.09	45.84	0.51	482.19	1.5E-4	0.0283	0.0090	1.12	0.0100	0.00E0	0.000
0.206	3.60	0.14	0.09	45.91	0.51	478.94	1.5E-4	0.0280	0.0089	1.12	0.0099	0.00E0	0.000
0.206	3.55	0.14	0.09	45.98	0.51	475.67	1.4E-4	0.0277	0.0087	1.12	0.0098	0.00E0	0.000
0.206	3.50	0.13	0.09	46.06	0.51	472.39	1.4E-4	0.0273	0.0086	1.12	0.0097	0.00E0	0.000
0.206	3.45	0.13	0.09	46.13	0.51	469.09	1.4E-4	0.0270	0.0085	1.12	0.0096	0.00E0	0.000
0.206	3.40	0.13	0.08	46.20	0.51	465.78	1.4E-4	0.0267	0.0084	1.12	0.0094	0.00E0	0.000
0.206	3.35	0.13	0.08	46.28	0.51	462.45	1.4E-4	0.0264	0.0084	1.12	0.0093	0.00E0	0.000
0.206	3.30	0.13	0.08	46.35	0.51	459.10	1.4E-4	0.0261	0.0083	1.12	0.0092	0.00E0	0.000
0.206	3.25	0.12	0.08	46.42	0.51	455.73	1.4E-4	0.0258	0.0082	1.12	0.0091	0.00E0	0.000
0.206	3.20	0.12	0.08	46.50	0.51	452.35	1.4E-4	0.0255	0.0081	1.12	0.0090	0.00E0	0.000
0.206	3.15	0.12	0.08	46.57	0.51	448.95	1.4E-4	0.0253	0.0080	1.12	0.0089	0.00E0	0.000
0.206	3.10	0.12	0.08	46.64	0.51	445.54	1.3E-4	0.0250	0.0079	1.12	0.0088	0.00E0	0.000
0.206	3.05	0.12	0.08	46.72	0.51	442.10	1.3E-4	0.0247	0.0078	1.12	0.0087	0.00E0	0.000
0.206	3.00	0.11	0.07	46.79	0.51	438.65	1.3E-4	0.0245	0.0077	1.12	0.0087	0.00E0	0.000
0.206	2.95	0.11	0.07	46.50	0.51	434.03	1.3E-4	0.0243	0.0077	1.12	0.0086	0.00E0	0.000
0.206	2.90	0.11	0.07	46.20	0.51	429.38	1.3E-4	0.0241	0.0076	1.12	0.0085	0.00E0	0.000
0.206	2.85	0.11	0.07	45.91	0.51	424.72	1.3E-4	0.0240	0.0076	1.12	0.0085	0.00E0	0.000
0.206	2.80	0.11	0.07	45.62	0.51	420.04	1.3E-4	0.0238	0.0075	1.12	0.0084	0.00E0	0.000
0.206	2.75	0.10	0.07	45.32	0.51	415.34	1.3E-4	0.0236	0.0075	1.12	0.0084	0.00E0	0.000
0.206	2.70	0.10	0.07	45.03	0.51	410.62	1.3E-4	0.0235	0.0074	1.12	0.0083	0.00E0	0.000
0.206	2.65	0.10	0.07	44.74	0.51	405.88	1.3E-4	0.0233	0.0074	1.12	0.0082	0.00E0	0.000
0.206	2.60	0.10	0.06	44.44	0.51	401.12	1.3E-4	0.0231	0.0073	1.12	0.0082	0.00E0	0.000
0.206	2.55	0.10	0.06	44.15	0.51	396.34	1.2E-4	0.0230	0.0073	1.12	0.0081	0.00E0	0.000
0.206	2.50	0.10	0.06	43.86	0.51	391.53	1.2E-4	0.0228	0.0072	1.12	0.0081	0.00E0	0.000
0.206	2.45	0.09	0.06	43.56	0.51	386.70	1.2E-4	0.0227	0.0072	1.12	0.0080	0.00E0	0.000
0.206	2.40	0.09	0.06	43.27	0.51	381.84	1.2E-4	0.0225	0.0071	1.12	0.0080	0.00E0	0.000
0.206	2.35	0.09	0.06	42.98	0.51	376.96	1.2E-4	0.0224	0.0071	1.12	0.0079	0.00E0	0.000
0.206	2.30	0.09	0.										

0.206	2.00	0.08	0.05	40.92	0.51	341.97	1.1E-4	0.0238	0.0075	1.12	0.0084	0.00E0	0.000
0.206	1.95	0.07	0.05	40.63	0.51	336.84	1.1E-4	0.0235	0.0074	1.12	0.0083	0.00E0	0.000
0.206	1.90	0.07	0.05	40.34	0.51	331.68	1.1E-4	0.0232	0.0073	1.12	0.0082	0.00E0	0.000
0.206	1.85	0.07	0.05	40.04	0.51	326.47	1.1E-4	0.0228	0.0072	1.12	0.0081	0.00E0	0.000
0.206	1.80	0.07	0.04	39.75	0.51	321.23	1.1E-4	0.0225	0.0072	1.12	0.0081	0.00E0	0.000
0.206	1.75	0.07	0.04	39.46	0.51	315.95	1.1E-4	0.0221	0.0072	1.12	0.0081	0.00E0	0.000
0.206	1.70	0.06	0.04	39.16	0.51	310.62	1.1E-4	0.0217	0.0073	1.12	0.0081	0.00E0	0.000
0.206	1.65	0.06	0.04	38.87	0.51	305.25	1.0E-4	0.0213	0.0073	1.12	0.0081	0.00E0	0.000
0.206	1.60	0.06	0.04	38.58	0.51	299.82	1.0E-4	0.0209	0.0073	1.12	0.0081	0.00E0	0.000
0.206	1.55	0.06	0.04	38.28	0.51	294.35	1.0E-4	0.0205	0.0073	1.12	0.0081	0.00E0	0.000
0.206	1.50	0.06	0.04	37.99	0.51	288.82	1.0E-4	0.0200	0.0073	1.12	0.0081	0.00E0	0.000

Settlement of Unsaturated Sands=0.206 in.
dsz is per each segment, dz=0.05 ft
dsp is per each print interval, dp=0.05 ft
S is cumulated settlement at this depth

Total Settlement of Saturated and Unsaturated Sands=0.206 in.
Differential Settlement=0.103 to 0.136 in.

Units: Unit: qc, fs, Stress or Pressure = atm (1.0581tsf); Unit Weight = pcf; Depth = ft; Settlement = in.

1 atm (atmosphere) = 1.0581 tsf(1 tsf = 1 ton/ft2 = 2 kip/ft2)
1 atm (atmosphere) = 101.325 kPa(1 kPa = 1 kN/m2 = 0.001 Mpa)
SPT Field data from Standard Penetration Test (SPT)
BPT Field data from Becker Penetration Test (BPT)
qc Field data from Cone Penetration Test (CPT) [atm (tsf)]
fs Friction from CPT testing [atm (tsf)]
Rf Ratio of fs/qc (%)
gamma Total unit weight of soil
gamma' Effective unit weight of soil
Fines Fines content [%]
D50 Mean grain size
Dr Relative Density
sigma Total vertical stress [atm]
sigma' Effective vertical stress [atm]
sigC' Effective confining pressure [atm]
rd Acceleration reduction coefficient by Seed
a_max. Peak Ground Acceleration (PGA) in ground surface
mZ Linear acceleration reduction coefficient X depth
a_min. Minimum acceleration under linear reduction, mZ
CRRv CRR after overburden stress correction, CRRv=CRR7.5 * Ksig
CRR7.5 Cyclic resistance ratio (M=7.5)
Ksig Overburden stress correction factor for CRR7.5
CRRm After magnitude scaling correction CRRm=CRRv * MSF
MSF Magnitude scaling factor from M=7.5 to user input M
CSR Cyclic stress ratio induced by earthquake
CSRfs CSRfs=CSR*fs1 (Default fs1=1)
fs1 First CSR curve in graphic defined in #9 of Advanced page
fs2 2nd CSR curve in graphic defined in #9 of Advanced page
F.S. Calculated factor of safety against liquefaction F.S.=CRRm/CSRsf
Cebs Energy Ratio, Borehole Dia., and Sampling Method Corrections
Cr Rod Length Corrections
Cn Overburden Pressure Correction
(N1)60 SPT after corrections, (N1)60=SPT * Cr * Cn * Cebs
d(N1)60 Fines correction of SPT

(N1)60f	(N1)60 after fines corrections, $(N1)60f = (N1)60 + d(N1)60$
Cq	Overburden stress correction factor
qc1	CPT after Overburden stress correction
dqc1	Fines correction of CPT
qc1f	CPT after Fines and Overburden correction, $qc1f = qc1 + dqc1$
qc1n	CPT after normalization in Robertson's method
Kc	Fine correction factor in Robertson's Method
qc1f	CPT after Fines correction in Robertson's Method
Ic	Soil type index in Suzuki's and Robertson's Methods
(N1)60s	(N1)60 after settlement fines corrections
CSRm	After magnitude scaling correction for Settlement calculation $CSRm = CSRsf / MSF^*$
CSRfs	Cyclic stress ratio induced by earthquake with user input fs
MSF*	Scaling factor from CSR, $MSF^*=1$, based on Item 2 of Page C.
ec	Volumetric strain for saturated sands
dz	Calculation segment, $dz=0.050$ ft
dsz	Settlement in each segment, dz
dp	User defined print interval
dsp	Settlement in each print interval, dp
Gmax	Shear Modulus at low strain
g_eff	γ_{eff} , Effective shear Strain
g*Ge/Gm	$\gamma_{eff} * G_{eff}/G_{max}$, Strain-modulus ratio
ec7.5	Volumetric Strain for magnitude=7.5
Cec	Magnitude correction factor for any magnitude
ec	Volumetric strain for unsaturated sands, $ec = Cec * ec7.5$
NoLiq	No-Liquefy Soils

References:

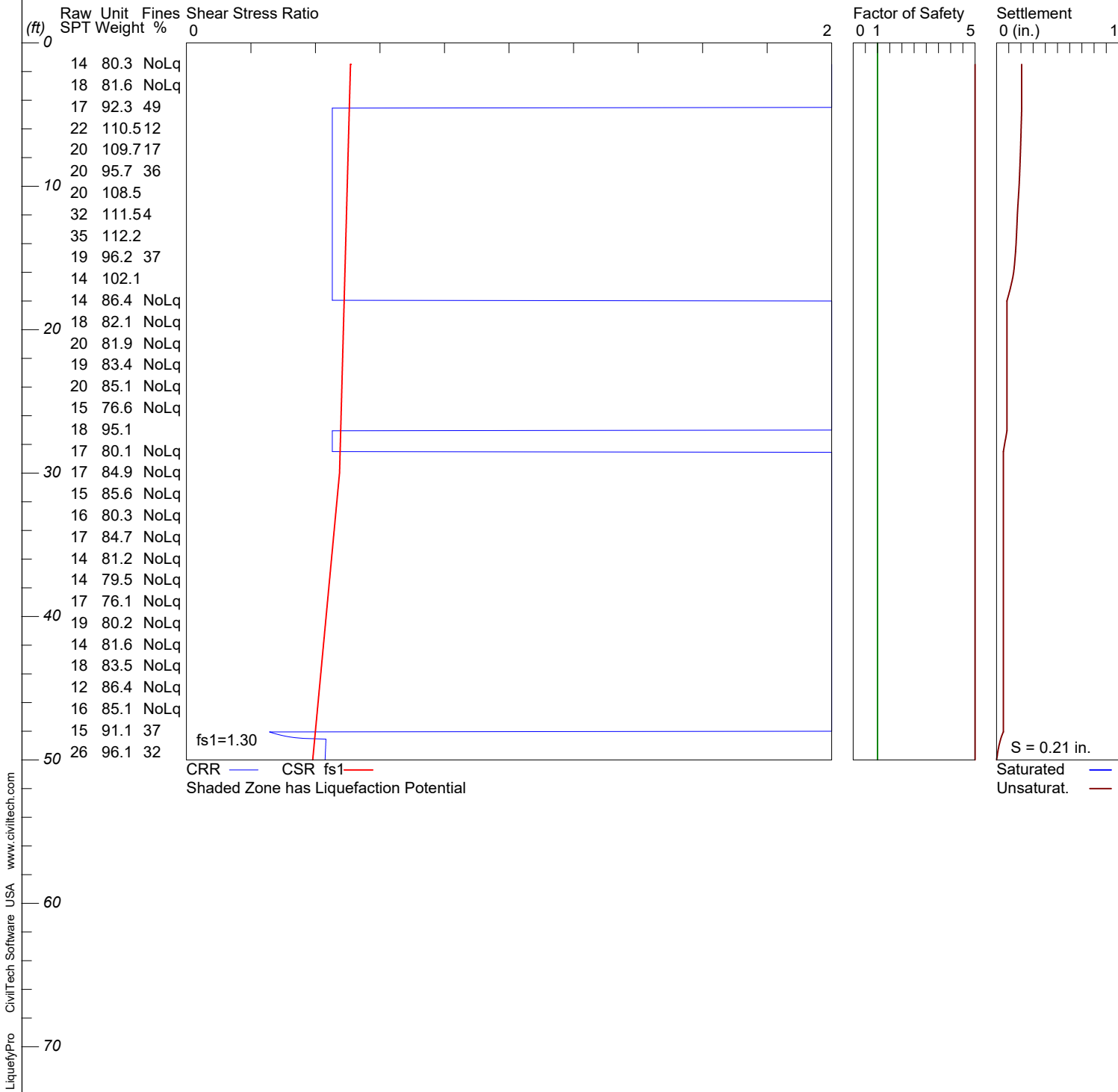
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Analyzing and Mitigating Liquefaction in California. University of Southern California. March 1999.
2. RECENT ADVANCES IN SOIL LIQUEFACTION ENGINEERING AND SEISMIC SITE RESPONSE EVALUATION, Paper No. SPL-2, PROCEEDINGS: Fourth
International Conference on Recent Advances in Geotechnical Earthquake Engineering and Soil Dynamics, San Diego, CA, March 2001.
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LIQUEFACTION ANALYSIS

Full PGAm

Hole No. =

Magnitude=7.8
Acceleration=.604g



APPENDIX G

General Earthwork and Grading Guidelines

Earthwork and Grading Specifications for Rough Grading

1.0 General

1.1 Intent: These General Earthwork and Grading Specifications are for the grading and earthwork shown on the approved grading plan(s) and/or indicated in the geotechnical report(s). These Specifications are a part of the recommendations contained in the geotechnical report(s). In case of conflict, the specific recommendations in the geotechnical report shall supersede these more general Specifications. Observations of the earthwork by the project Geotechnical Consultant during the course of grading may result in new or revised recommendations that could supersede these specifications or the recommendations in the geotechnical report(s).

1.2 The Geotechnical Consultant of Record: Prior to commencement of work, the owner shall employ a qualified Geotechnical Consultant of Record (Geotechnical Consultant). The Geotechnical Consultant shall be responsible for reviewing the approved geotechnical report(s) and accepting the adequacy of the preliminary geotechnical findings, conclusions, and recommendations prior to the commencement of the grading.

Prior to commencement of grading, the Geotechnical Consultant shall review the “work plan” prepared by the Earthwork Contractor (Contractor) and schedule sufficient personnel to perform the appropriate level of observations, mapping, and compaction testing.

During the grading and earthwork operations, the Geotechnical Consultant shall observe, map, and document the subsurface exposures to verify the geotechnical design assumptions. If the observed conditions are found to be significantly different than the interpreted assumptions during the design phase, the Geotechnical Consultant shall inform the owner, recommend appropriate changes in design to accommodate the observed conditions, and notify the review agency where required.

The Geotechnical Consultant shall observe the moisture-conditioning and processing of the subgrade and fill materials and perform relative compaction testing of fill to confirm that the attained level of compaction is being accomplished as specified. The Geotechnical Consultant shall provide the test results to the owner and the Contractor on a routine and frequent basis.

1.3 The Earthwork Contractor: The Earthwork Contractor (Contractor) shall be qualified, experienced, and knowledgeable in earthwork logistics, preparation and processing of ground to receive fill, moisture-conditioning and processing of fill, and compacting fill. The Contractor shall review and accept plans, geotechnical report(s), and these Specifications prior to commencement of grading. The Contractor shall be solely responsible for performing the grading in accordance with the project plans and specifications. The Contractor shall prepare and submit to the owner and the Geotechnical Consultant a work plan that indicates the sequence of earthwork grading, the number of “equipment” of work and the estimated quantities of daily earthwork contemplated for the site prior to commencement of

grading. The Contractor shall inform the owner and the Geotechnical Consultant of changes in work schedules and updates to the work plan at least 24 hours in advance of such changes so that appropriate personnel will be available for observation and testing. The Contractor shall not assume that the Geotechnical Consultant is aware of all grading operations.

The Contractor shall have the sole responsibility to provide adequate equipment and methods to accomplish the earthwork in accordance with the applicable grading codes and agency ordinances, these Specifications, and the recommendations in the approved geotechnical report(s) and grading plan(s). If, in the opinion of the Geotechnical Consultants, unsatisfactory conditions, such as unsuitable soil, improper moisture-condition, inadequate compaction, insufficient buttress key size, adverse weather, etc., are resulting in a quality of work less than required in the specifications, the Geotechnical Consultant shall reject the work and may recommend to the owner that construction be stopped until the conditions are rectified. It is the contractor's sole responsibility to provide proper fill compaction.

2.0 Preparation of Areas to be Filled

- 2.1 Clearing and Grubbing:** Vegetation, such as brush, grass, roots, and other deleterious material shall be sufficiently removed and properly disposed of in a method acceptable to the owner, governing agencies, and the Geotechnical Consultant.

The Geotechnical Consultant shall evaluate the extent of these removals depending on specific site conditions. Earth fill material shall not contain more than 1 percent of organic materials (by volume). No fill lift shall contain more than 10 percent of organic matter. Nesting of the organic materials shall not be allowed.

If potentially hazardous materials are encountered, the Contractor shall stop work in the affected area, and a hazardous material specialist shall be informed immediately for proper evaluation and handling of these materials prior to continuing to work in that area.

As presently defined by the State of California, most refined petroleum products (gasoline, diesel fuel, motor oil, grease, coolant, etc.) have chemical constituents that are considered to be hazardous waste. As such, the indiscriminant dumping or spillage of these fluids onto the ground may constitute a misdemeanor, punishable by fines and/or imprisonment, and shall not be allowed. The contractor is responsible for all hazardous waste relating to his work. The Geotechnical Consultant does not have expertise in this area. If hazardous waste is a concern, then the Client should acquire the services of a qualified environmental assessor.

- 2.2 Processing:** Existing ground that has been declared satisfactory for support of fill by the Geotechnical Consultant shall be scarified to a minimum depth of 6 inches. Existing ground that is not satisfactory shall be overexcavated as specified in the following section. Scarification shall continue until soils are broken down and free from oversize material and the working surface is reasonably uniform, flat, and free from uneven features that would inhibit uniform compaction.

- 2.3 **Overexcavation:** In addition to removals and overexcavations recommended in the approved geotechnical report(s) and the grading plan, soft, loose, dry, saturated, spongy, organic-rich, highly fractured or otherwise unsuitable ground shall be overexcavated to competent ground as evaluated by the Geotechnical Consultant during grading.
- 2.4 **Benching:** Where fills are to be placed on ground with slopes steeper than 5:1 (horizontal to vertical units), the ground shall be stepped or benched. The lowest bench or key shall be a minimum of 15 feet wide and at least 2 feet deep, into competent material as evaluated by the Geotechnical Consultant. Other benches shall be excavated a minimum height of 4 feet into competent material or as otherwise recommended by the Geotechnical Consultant. Fill placed on ground sloping flatter than 5:1 shall also be benched or otherwise overexcavated to provide a flat subgrade for the fill.
- 2.5 **Evaluation/Acceptance of Fill Areas:** All areas to receive fill, including removal and processed areas, key bottoms, and benches, shall be observed, mapped, elevations recorded, and/or tested prior to being accepted by the Geotechnical Consultant as suitable to receive fill. The Contractor shall obtain a written acceptance from the Geotechnical Consultant prior to fill placement. A licensed surveyor shall provide the survey control for determining elevations of processed areas, keys, and benches.

3.0 **Fill Material**

- 3.1 **General:** Material to be used as fill shall be essentially free of organic matter and other deleterious substances evaluated and accepted by the Geotechnical Consultant prior to placement. Soils of poor quality, such as those with unacceptable gradation, high expansion potential, or low strength shall be placed in areas acceptable to the Geotechnical Consultant or mixed with other soils to achieve satisfactory fill material.
- 3.2 **Oversize:** Oversize material defined as rock, or other irreducible material with a maximum dimension greater than 8 inches, shall not be buried or placed in fill unless location, materials, and placement methods are specifically accepted by the Geotechnical Consultant. Placement operations shall be such that nesting of oversized material does not occur and such that oversize material is completely surrounded by compacted or densified fill. Oversize material shall not be placed within 10 vertical feet of finish grade or within 2 feet of future utilities or underground construction.
- 3.3 **Import:** If importing of fill material is required for grading, proposed import material shall meet the requirements of the geotechnical report(s). The potential import source shall be given to the Geotechnical Consultant at least 48 hours (2 working days) before importing begins so the suitability can be determined and appropriate tests performed.

4.0 **Fill Placement and Compaction**

- 4.1 **Fill Layers:** Approved fill material shall be placed in areas prepared to receive fill in near-horizontal layers not exceeding 8 inches in loose thickness. The Geotechnical Consultant may accept thicker layers if testing indicates that grading procedures can adequately compact the thicker layers. Each layer shall be spread evenly and mixed thoroughly to attain relative uniformity of material and moisture throughout.
- 4.2 **Fill Moisture Conditioning:** Fill soils shall be watered, dried back, blended, and/or mixed, as necessary to attain relatively uniform moisture content within 2% of optimum. Maximum density and optimum soil moisture content tests shall be performed in accordance with the American Society of Testing and Materials (ASTM Test Method D1557-91).
- 4.3 **Compaction of Fill:** After each layer has been moisture-conditioned, mixed, and evenly spread, it shall be uniformly compacted to not less than 90 percent of maximum dry density (ASTM Test Method D1557-91). Compaction equipment shall be adequately sized and be either specifically designed for soil compaction or of proven reliability to efficiently achieve the specified level of compaction with uniformity.
- 4.4 **Compaction of Fill Slopes:** In addition to normal compaction procedures specified above, compaction of slopes, shall be accomplished by backrolling of slopes with sheepfoot rollers at increments of 3 to 4 feet in fill elevation, or by other methods producing satisfactory results acceptable to the Geotechnical Consultant. Upon completion of grading, relative compaction of the fill, out to the slope face, shall be at least 90 percent of maximum density per ASTM Test Method D1557-91.
- 4.5 **Compaction Testing:** Field tests for moisture content and relative compaction of the fill soils shall be performed by the Geotechnical Consultant. Location and frequency of tests shall be at the Consultant's discretion based on field conditions encountered. Compaction test locations will not necessarily be selected on a random basis. Test locations shall be selected to verify adequacy of compaction levels in areas that are judged to be prone to inadequate compaction (such as close to slope faces and at the fill/bedrock benches).
- 4.6 **Frequency of Compaction Testing:** Tests shall be taken at intervals not exceeding 2 feet in vertical rise and/or 1,000 cubic yards of compacted fill soils embankment. In addition, as a guideline, at least one test shall be taken on slope faces for each 5,000 square feet of slope face and/or each 10 feet of vertical height of slope. The Contractor shall assure that fill construction is such that the testing schedule can be accomplished by the Geotechnical Consultant. The Contractor shall stop or slow down the earthwork construction if these minimum standards are not met.
- 4.7 **Compaction Test Locations:** The Geotechnical Consultant shall document the approximate elevation and horizontal coordinates of each test location. The Contractor shall coordinate with the project surveyor to assure that sufficient grade stakes are established so that the Geotechnical Consultant can determine the test locations with sufficient accuracy. At a minimum, two grade stakes within a horizontal distance of 100 feet and vertically less than 5 feet apart from potential test locations shall be provided.

5.0 Subdrain Installation

Subdrain systems shall be installed in accordance with the approved geotechnical report(s), the grading plan, and the Standard Details. The Geotechnical Consultant may recommend additional subdrains and/or changes in subdrain extent, location, grade, or material depending on conditions encountered during grading. All subdrains shall be surveyed by a land survey/civil engineer for line and grade after installation and prior to burial. Sufficient time should be allowed by the Contractor for these surveys.

6.0 Excavation

Excavations, as well as over-excavation for remedial purposes, shall be evaluated by the Geotechnical Consultant during grading. Remedial removal depths shown on geotechnical plans are estimates only. The actual extent of removal shall be determined by the Geotechnical Consultant based on the field evaluation of exposed conditions during grading. Where fill-over-cut slopes are to be graded, the cut portion of the slope shall be made, evaluated, and accepted by the Geotechnical Consultant prior to placement of materials for construction of the fill portion of the slope, unless otherwise recommended by the Geotechnical Consultant.

7.0 Trench Backfills

- 7.1** The Contractor shall follow all OSHA and Cal/OSHA requirements for safety of trench excavations.
- 7.2** All bedding and backfill of utility trenches shall be done in accordance with the applicable provisions of Standard Specifications of Public Works Construction. Bedding Material shall have a Sand Equivalent greater than 30 (SE>30). The bedding shall be placed to 1 foot over the top of the conduit and densified by jetting. Backfill shall be placed and densified to a minimum of 90 percent of maximum from 1 foot above the top of the conduit to the surface.
- 7.3** The jetting of the bedding around the conduits shall be observed by the Geotechnical Consultant.
- 7.4** The Geotechnical Consultant shall test the trench backfill for relative compaction. At least one test should be made for every 300 feet of trench and 2 feet of fill.
- 7.5** Lift thickness of trench backfill shall not exceed those allowed in the Standard Specifications of Public Works Construction unless the Contractor can demonstrate to the Geotechnical Consultant that the fill lift can be compacted to the minimum relative compaction by his alternative equipment and method.