TA-05

Department of Energy
National Nuclear Security Administration
Los Alamos Site Office
Los Alamos, New Mexico 87544

MAY 03 2004

CERTIFIED MAIL/RETURN RECEIPT

Mr. John Young
NMED-Hazardous Waste Bureau
2905 Rodeo Park Drive East,
Building 1
Santa Fe, NM 87505-6333

Dear Mr. Young:

Subject: Completion Report for Characterization Well R-28

Enclosed are two copies of the Completion Report for Characterization Well R-28, which was completed by the Department of Energy. If you have any questions regarding this matter, I can be reached at (505) 665-5046 or Tom Whitacre at (505) 665-5042.

for

Mat Johansen
Groundwater Program Manager

OPM:5TW-009

Enclosure

cc w/o enclosure:
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2844

FINAL
WELL R-28 COMPLETION REPORT
LOS ALAMOS NATIONAL LABORATORY
LOS ALAMOS, NEW MEXICO
PROJECT NO. 37151/16.12

Prepared for:

The United States Department of Energy and the
National Nuclear Security Administration through the
United States Army Corps of Engineers
Sacramento District

Prepared by:

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April 28, 2004

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LIST OF ACRONYMS AND ABBREVIATIONS

AITH	array induction tool, version H
ASTM	American Society for Testing and Materials
bgs	below ground surface
°C	degrees Celsius
CA	casing advance
CD	compact disc
CMR™	Combinable Magnetic Resonance
CNTG	compensated neutron tool, model G
CQMP	Contractor Quality Management Plan
DOE	Department of Energy
DP	Drilling Plan
DTH	down-the-hole
DTW	depth to water
DVD	digital video disc
EES	Earth and Environmental Sciences
EnviroWorks	EnviroWorks, Inc.
FMI	formation microimager
ft	feet
gal	gallon
GPS	global positioning system
g	grams
HSA	hollow-stem auger
ID	inner diameter
in	inches
KA	Kleinfelder, Inc.
KBr	potassium bromide
LANL	Los Alamos National Laboratory
MDL	Method Detection Limit
mil	1/1000 of an inch
NAD	North American Datum
NGS	natural gamma spectroscopy
NGVD	National Geodetic Vertical Datum
NMED	New Mexico Environment Department
NOI	Notice of Intent
NTU	nephelometric turbidity unit
OD	outer diameter
OH	open hole
PMP	Project Management Plan
psi	pounds per square inch
RCT	Radiation Control Technician
SAP	sampling and analysis plan
SSHASP	Site-Specific Health and Safety Plan
TD	total depth
TLD	triple detector lithodensity
TOC	Total Organic Carbon
USACE	United States Army Corps of Engineers

μS/cm	microsiemens per centimeter
WDC	WDC Exploration & Wells

ABSTRACT

Well R-28 (R-28) was installed at Los Alamos National Laboratory (LANL) for LANL's Groundwater Protection Program as part of the "Mortandad Canyon Groundwater Work Plan" (LANL, August 2003, LA-UR-03-6221). The Department of Energy contracted and directed the installation of R-28 with the technical assistance of LANL. The well is intended to provide hydrogeologic and water quality data for regional groundwater in the vicinity of potential contaminant sources in Mortandad Canyon. The data will be used with similar data from other wells in the area to improve the conceptual model for geology, hydrogeology, and hydrochemistry in this wet canyon and provide constraints on numerical models that address contaminant migration in the vadose (unsaturated) zone and the regional aquifer.

At R-28, fieldwork was conducted from November 7, 2003 through Spring, 2004.

Phase I of fieldwork was conducted from November 10 to November 21, 2003, and consisted of drilling a corehole to collect continuous core for geochemical analysis, contaminant profiling and identification of perched water zones. Continuous core was collected from the surface to a depth of 325.0 feet (ft) below ground surface (bgs). No significant perched water zones were identified during drilling.

In Phase II drilling, November 20 to December 9, 2003, a borehole was drilled to a depth of 1005 ft bgs using air and fluid-assisted air-rotary methods. Samples of drill cuttings were collected at regular intervals for stratigraphic, petrographic, and geochemical analysis. The stratigraphy encountered during borehole drilling included, in descending order, alluvium and colluvium, ash-flow tuffs of the Otowi Member of the Bandelier Tuff, the Guaje Pumice Bed of the Otowi Member, Cerros del Rio basalt and the Puye Formation. The R-28 well was installed in the regional aquifer with a screen interval from 934.3 ft to 958.1 ft bgs. Three groundwater screening samples were collected during drilling and one groundwater well sample was collected after well development. Groundwater samples were submitted to LANL for analysis. Additionally, a constant rate pumping test was conducted at Well R-28 to determine aquifer properties.

1.0 INTRODUCTION

This completion report summarizes the drilling, well construction, well development, and related activities conducted from November 7, 2003 to Spring, 2004 for Well R-28 (R-28). R-28 was drilled and installed for LANL's Groundwater Protection Program as part of the "Hydrogeologic Workplan" (LANL 1998, 59599). The R-28 investigation was funded and directed by the Department of Energy (DOE). Kleinfelder, Inc. (KA), under contract to the US Army Corps of Engineers (USACE), was responsible for executing the drilling, installation, testing, and sampling activities.

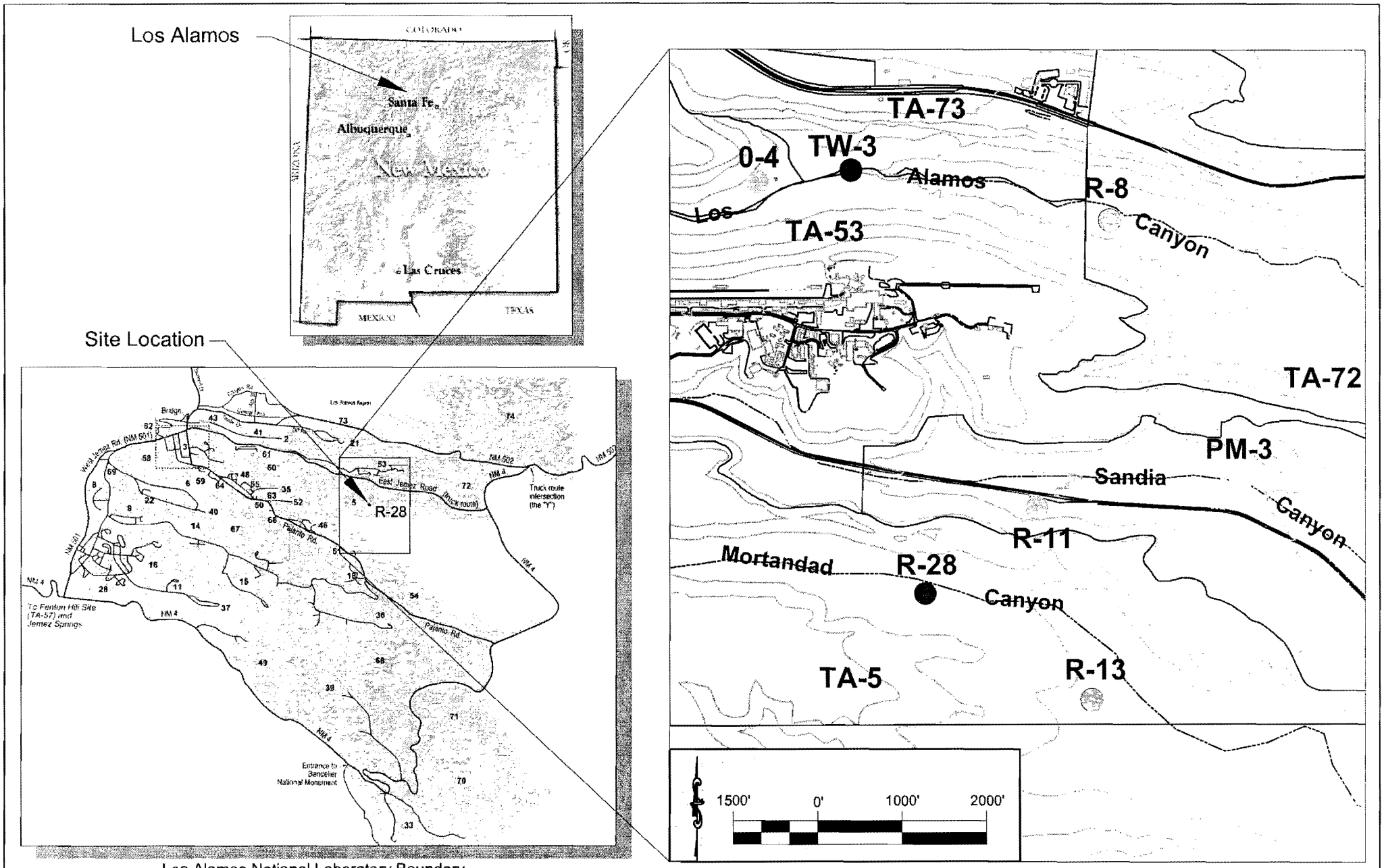
The information presented in this report was compiled from field reports and activity summaries generated by KA, LANL and subcontractor personnel. Original records, including field reports, field logs, survey records, etc., are on file in KA's Albuquerque office. Results of these activities are discussed briefly and shown in tables and figures contained in this report. Detailed analysis and interpretation of geologic, geochemical, and hydrologic data will be included in separate technical documents prepared by LANL.

R-28 is located in Mortandad Canyon and will provide a contaminant analysis and monitoring point for comparison with regional well R-15, located upstream, R-11, located to the northeast in Sandia Canyon, and R-13, located to the southeast, downstream in Mortandad Canyon (as shown in Figure 1.0-1). As indicated in the LANL-prepared Sampling and Analysis Plan (SAP) (LANL 2003, 03-8324), contaminants have been identified in alluvial and perched intermediate groundwater and in the regional aquifer within Mortandad Canyon. Historically, the following constituents have been detected in surface water and alluvial groundwater: americium-241; cesium-137; plutonium-238 and plutonium-239, 240; strontium-90; tritium; uranium-234, 235, 236, 238; nitrate; perchlorate; chloride; sulfate; fluoride; and total dissolved solids ([TDS] ESP 1999, 68661; ESP 2001, 73876; ESP 2002, 71301). Mortandad Canyon and its tributaries have received effluents from Los Alamos National Laboratory (LANL or the Laboratory) since the early 1950s. These effluents discharged from TA-3, TA-35, TA-48, and TA-50 have contained a variety of contaminants, including nitrate, perchlorate, tritium, cesium-137, strontium-90, americium-241, and several isotopes of uranium and plutonium (LANL 1997, 56835). Active outfalls discharging to Mortandad Canyon include TA-3 and TA-50. Most contaminants found in Mortandad Canyon are associated with TA-50 discharges into Effluent Canyon, except for sources of strontium-90 (LANL 1997, 56835), nitrate, and perchlorate. Strontium-90, nitrate, and perchlorate were discharged from TA-35 into Pratt Canyon; total masses of nitrate and perchlorate discharged are not known.

Data from R-28 will be evaluated in conjunction with data from other area wells to form the technical basis for the design of a groundwater monitoring system, if needed. Water quality, geochemical, hydrologic, and geologic information obtained from R-28 will augment knowledge of regional subsurface characteristics and distribution of contaminants downgradient of potential release sites.

2.0 PRELIMINARY ACTIVITIES

Preliminary activities at R-28 included administrative and site preparation.



Note: R-28 Well Identification Modified from Proposed R Characterization Well Location Map Provided by Los Alamos National Laboratory

KLEINFELDER		SITE LOCATION MAP Well R-28 Location LANL Well Program Los Alamos National Laboratory Los Alamos, New Mexico	FIGURE 1.0-1
Drawn By: C. Landon	Date: March 2004		
Project No.: 37151	Filename: FIGURE 1.0-1		
Scale: 1" = 2000'	Revision: 0		

2.1 Administrative Preparation

KA received contractual authorization to start administrative preparation tasks in the form of a notice to proceed on July 11, 2003. As part of this preparation, KA developed a Project Management Plan (PMP), a Contractor's Quality Management Plan (CQMP), a Site-Specific Health and Safety Plan (SSHASP), a traffic control plan, and a Drilling Plan (DP) for the work at R-28. The host facility signed a Facility-Tenant Agreement (FTA) to provide access and security controls for site preparation, drilling and well installation activities. Necessary permits and access agreements were obtained prior to beginning fieldwork.

2.2 Site Preparation

EnviroWorks, Inc. (EnviroWorks) was subcontracted by KA to conduct site preparation. Activities included site clearing, access road improvement, construction of the drill pad, and construction of a lined borehole-cuttings containment area. Site preparation was begun on November 7, 2003 and completed on November 12, 2003. Radiation Control Technicians (RCTs) contracted from HSR-1 were present to screen the site during preparation activities.

An access road, located to avoid archaeological sites, was constructed to R-28. The R-28 site was then cleared of vegetation. The drilling pad was developed by grading an area with a front-end loader. A primary layer of base-course gravel was distributed over the drill pad, equipment storage area and on the access road, as necessary. Drill pad construction was completed with an additional graded layer of base-course gravel. To store R-28 drilling fluids and borehole cuttings, a 25 ft wide by 60 ft long by 7 ft deep containment area was excavated along the pad boundary. A secondary containment area was constructed with straw bales and lined with 6-mil polyethylene to accommodate a 21,000-gallon (gal) tanker trailer used for storing potable water. Safety barriers and signs were installed around the borehole-cuttings containment area and at the site entrance. Office and supply trailers, generators, and safety lighting equipment were moved to the site during subsequent mobilization of drilling equipment.

Potable water was trucked to the R-28 site from the hydrant located on the mesa south of Mortandad Canyon. A backflow prevention system was installed at the hydrant.

3.0 SUMMARY OF DRILLING ACTIVITIES

Drilling activities at the R-28 site were completed in two phases during November and December 2003.

Phase I core drilling at R-28 was performed from November 10 to 20, 2003. The goal of Phase I was to collect continuous rock core samples for geologic characterization and determination of moisture, anion, stable isotope, radionuclide, metals, and tritium distributions in the upper part of the geologic section. To accomplish this, drilling was performed without the addition of water or other additives. The core was to be visually examined for lithologic description and to determine geologic unit contacts. Additionally, groundwater samples were to be collected from significant perched water zones, if encountered. The planned total depth (TD) of the R-28 corehole was 336 ft below ground surface (bgs), estimated to be about 9 ft below into Cerros del Rio lavas.

Phase II borehole drilling was performed from November 20 to December 9, 2003. Phase II objectives were to collect cuttings of intersected geologic formations, collect groundwater samples from significant perched water and the regional aquifer, and provide a borehole for

geophysical logging and installation of a single-screen monitoring well in the regional aquifer. The planned TD of the R-28 borehole was approximately 967 ft bgs or, as necessary, to approximately 100 ft below the top of the regional water table.

Phase I and II drilling activities were performed generally in one 12-hour shift per day, 7-days per week by the drill crew and two site geologists.

Figure 3.0-1 summarizes well data and graphically depicts groundwater and geologic conditions encountered during core and borehole drilling at R-28. A chronology of drilling and other on-site activities is presented as Table 3.0-1. Sections 3.1 and 3.2 discuss specific Phase I and Phase II drilling activities, respectively.

3.1 Phase I Drilling Activities

On November 10, 2003, KA mobilized the StrataStar SS15 hollow-stem auger (HSA) drill rig equipped with a 5-ft-long, 3.0-in-outer diameter (OD) continuous sample barrel and support equipment to the R-28 site. Drilling from ground surface to 93 ft bgs was performed with 8-in OD HSA to advance and stabilize the hole. Continuous core samples were collected using a continuous sample barrel and Lexan liners from surface to 93 ft bgs through unconsolidated alluvium and colluvium and into the Otowi Member of the Bandelier Tuff.

Due to drilling conditions, a split-spoon sampler was used to sample the interval from 93 ft to 95 ft bgs. On November 12, 2003, drillers began coring with air, alternating between using a conventional core barrel and a Geobarrel, from 95 ft to 130 ft bgs.

On November 13, 2003, due to poor recovery while coring with air, KA changed sampling methods to a split-spoon sampler driven by a down-the-hole (DTH) hammer. The corehole was advanced from 130 ft to 169 ft bgs. Drillers returned to continuous sampling methods in the interval from 169 ft to 316.5 ft bgs, advancing the corehole through ash flows of the Otowi Member and into the Guaje Pumice Bed. On November 19, 2003, due to tight conditions in the hole, the drillers changed to split-spoon sampling methods and continued drilling in the Guaje Pumice Bed and into the top of the Cerros del Rio Basalt to a depth of 320 ft bgs. The interval from 320 ft to 325 ft bgs was core drilled with air using a conventional core barrel. On November 20, 2003, DOE and LANL declared the corehole to be completed at 325 ft bgs due to encountering the top of the basalt at an elevation higher than predicted.

A confirmatory depth-to-water (DTW) measurement was collected after drilling ceased. No water was present in the hole. No zones of perched water were observed during drilling.

The R-28 corehole was plugged and abandoned on November 20 and 21, 2003. Bentonite pellets were tremied through the augers and hydrated with potable water in the interval from 325 ft to ground surface. A total of 125 bags of 3/8-in Hole-Plug® bentonite pellets were used in the backfilling process.

3.2 Phase II Drilling Activities

Phase II drilling was performed by WDC Exploration & Wells (WDC) using a Dresser™ T70 drill rig equipped with conventional circulation drilling rods, tricone bits, DTH hammer bits, and support equipment. R-28 was drilled using air-rotary and fluid-assisted air-rotary drilling techniques. Drilling fluids were used as needed to improve borehole stability, minimize fluid

Location: Upper Mortandad Canyon - TA-5

Description: Brass Marker
Northing: 1768359.0
Easting: 1638988.5
Elevation: 6728.53

Description: Well Casing
Northing: 1768356.8
Easting: 1638989.9
Elevation: 6730.70

Description: Core Hole
Northing: 1768445.3
Easting: 1638997.0
Elevation: 6728.22

Coring:
- (0' - 93') Auger with Continuous Sampler
- (93' - 95') Auger with Split Spoon
- (95' - 129') Coring with Air
- (129' - 169') Auger with Split Spoon
- (169' - 316.5') Auger with Continuous Sampler
- (316.5' - 320') Auger with Split Spoon
- (320' - 325') Coring with Air

Drilling:
- (0' - 80') 13-3/8" Air Rotary Casing Hammer
- (80' - 1005') 12-1/4" Mill-tooth Tri-cone
  - (80' - 325') Air
  - (325' - 1005') Fluid Assisted Air Rotary

Data Collection:
- Hydrologic Properties:
  Constant Discharge
  Pumping Test - 2/5/04 - 3/8/04
- Cores/Cuttings submitted for geochemical and contaminant characterization: 16
- Ground Water Samples Submitted
  Perched Ground Water -
  Screening Samples: 12/05/03 (651')
  12/07/03 (707')
  Regional Ground Water -
  Screening Sample: 12/09/03 (889')
  Well Sample: 1/12/04 (947')
- Geologic Properties:
  Cuttings submitted for Minerology, petrography, and chemistry: 7

Borehole Logs:
- Lithologic: 0' - 1005'
- Video (LANL tool): 0' - 888'
- Schlumberger logs:
  Compensated Neutron Log:
  Cased: 30'-80'; Open Hole: 80'-992'
  Triple Litho-Density:
  Cased: 0'-80'; Open Hole: 80'-992'
  Array Induction Tool:
  Cased: none; Open Hole: 80'-986'
  Elemental Capture Sonde:
  Cased: none; Open Hole: 80'-989'
  Natural GR Spectroscopy:
  Cased: none; Open Hole: 80'-971'
  Combinable Magnetic Resonance:
  Cased: none; Open Hole: 100'-972'
  Fullbore Formation Micro Imager:
  Cased: none; Open Hole: 888'-989'

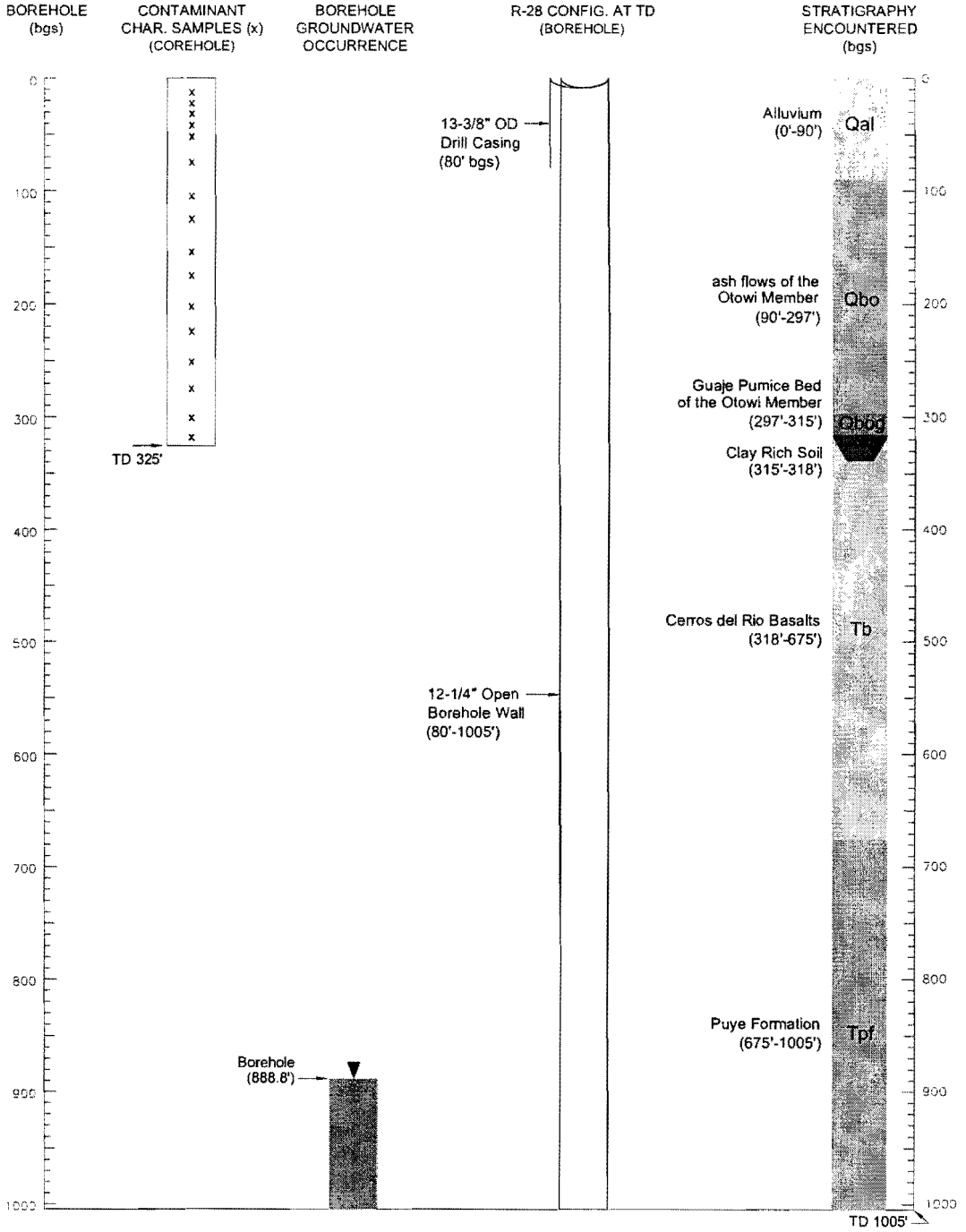
Corehole Logs:
- Lithologic: 0' - 325'
- Video (LANL tool): None
- Gamma Ray (LANL Tool): None

Core Drilling Completed: 11/10/03 - 11/20/03
Rotary Drilling Completed: 11/20/03 - 12/9/03
Contract Geophysics: 12/10/03
Well Installation: 12/12/03 - 12/17/03
Well Development Completed: 1/8/04 - 1/13/04

- Casing:
  4.5" I.D. / 5.0" O.D. A304 Stainless Steel casing with external couplings
- Number of Screens:
  One (1) 4.46" ID/5.27" OD wire wrapped stainless steel rod-based 0.020 slot screen with external couplings.
- Screen Interval: 934.3' - 958.1'

Well Development performed by swabbing, bailing, and pumping.
Total Volume Purged: 15,250 gallons
Hydrologic Properties Testing:
Total Volume Pumped: 10,059 gallons

Geologic contacts are for R-28 deep borehole; contacts were determined from core samples, cuttings, borehole video, and geophysical logs.



Legend

Qal = Alluvium
Qbo = Otowi Member of Bandelier Tuff
Qbog = Guaje Pumice Bed
Tb = Cerros del Rio Basalt
Tpf = Puye Formation

▼ Water Table

Notes:
1. Coordinates - NM State Plane Grid Central Zone (North America) Datum - 1983 (NAD83); expressed in feet.
2. Elevations - National Geodetic Vertical Datum (NGVD 29); expressed in feet above mean sea level.
3. All depths are below ground surface (bgs).
4. Groundwater level measurement recorded on 1-8-04.
5. Drill casing removed during well installation.

KLEINFELDER		Well Summary Data Sheet For Well R-28 Los Alamos National Laboratory Los Alamos, New Mexico	FIGURE 3.0-1
Drawn By: C. Landon	Date: March 2004		
Project No.: 37151	Filename: Figure 3.0-1		
Scale: Not-To-Scale	Revision: 0		
Reviewed By: B. Bockisch	Approved By: M. Everett		

Table 3.0-1 Operations Chronology for R-28

TASK DESCRIPTIONS	DATE																			
	Nov-03				Dec-03				Jan-04				Feb-04				Mar-04			
SITE PREPARATION ACTIVITIES	11/7-12																			
CORE HOLE DRILLING AND SAMPLING		11/10-21																		
Mobilization		11/10																		
Continuous Coring		11/10-20																		
Plug & Abandon Corehole			11/20-21																	
BOREHOLE DRILLING AND SAMPLING			11/20-12/9																	
Mobilization			11/19																	
Air-Rotary			11/20		12/1															
Fluid Assisted Air-Rotary					12/1-9															
Groundwater Screening Sampling					12/5, 12/7, 12/9															
BOREHOLE GEOPHYSICS																				
Schlumberger Logging						12/10														
LANL Video						12/11														
WELL DESIGN AND CONSTRUCTION						12/11-17														
WELL DEVELOPMENT										1/8-13										
GROUNDWATER WELL SAMPLING										1/12										
HYDROLOGIC TESTING													2/5				3/8			
SITE RESTORATION																	Not Completed to Date			

loss, and facilitate cuttings removal from the borehole. Drilling fluids consisted of a mixture of municipal water with QUIK-FOAM® surfactant and EZ-MUD® polymer. DTW measurements were taken at the beginning and end of every shift to check for the presence of water. Drilling equipment was removed from the borehole at the end of each shift to facilitate measurement of possible groundwater.

On November 19, 2003, WDC mobilized drilling equipment and supplies to the R-28 site. The following day, drillers installed 13 3/8-in OD drill casing in the alluvium from ground surface to a depth of 80 ft bgs. The borehole advanced open-hole through the alluvium and into the Otowi Member of the Bandelier Tuff to 185 ft bgs using a 12 ¼-in milltooth tricone bit and air- rotary methods. Drilling activities were temporarily suspended during between November 21 and 30, 2003, for maintenance and rig repairs.

On December 1, 2003, WDC resumed OH drilling using air-rotary techniques with the 12 ¼-in milltooth tricone bit. The borehole was advanced from 185 ft to 325 ft bgs through Otowi Member ash flows, the Guaje Pumice Bed, and into the Cerros del Rio basalt.

Fluid-assisted air-rotary drilling was initiated at 325 ft bgs due to difficult drilling conditions encountered in the basalt. Table 3.2-1 shows the total amount of drilling fluids introduced and recovered from the borehole during drilling activities. Potassium bromide (KBr) was added to the drilling fluid as a tracer to aid in determining perched water or when the regional aquifer was encountered. Results of the tracer test are discussed in Section 6.2 of this report. Drilling continued in the Cerros del Rio basalt from 325 ft to 342 ft bgs. Due to slow drilling rates, WDC tripped out of the hole at 342 bgs to switch drill bits.

Table 3.2-1
Introduced and Recovered Fluids

Material	Amount (Gallons)
QUIK-FOAM®	105
EZ-MUD®	39
Potable Water	15,200
Recovered Fluids[a]	28,050

[a] Recovered fluids represents approximate fluids recovered during drilling and well development.

On December 2, 2003, drilling resumed in basalt from 342 ft to 355 ft bgs with a 12 ¼-in DTH hammer button bit. Formation instability and caving of material around the DTH hammer button bit prompted WDC to trip out of the hole and use bentonite to seal off an apparent fracture zone in the basalt. One super sack (41.4 cu. ft) of bentonite chips was added to the hole and hydrated using 200 gallons of municipal water. On December 3, 2003, fluid assisted drilling continued with a 12 ¼-in milltooth tricone bit, advancing the hole in basalt from 355 ft to 434 ft bgs. At 434 ft bgs, drillers experienced a change in drilling conditions and again tripped out of the hole.

On December 4, 2003, WDC tripped back in and drilled from 434 ft to 665 ft bgs using a 12 ¼-DTH hammer button bit. On December 5, 2003, after tripping out of the hole, drillers measured a DTW at 651 ft bgs and a 1-gallon groundwater screening sample (Sample ID: GW28-04-52763)

was collected for contaminant screening. Drilling continued with the hammer button bit, advancing the hole through the basalt and into the Puye Formation from 665 ft to 725 ft bgs. The base of the Cerros del Rio basalt was intersected at 675 ft bgs. Drilling activities were not performed on December 6, 2003.

On December 7, 2003, with borehole drilled to 725 ft bgs, WDC measured a DTW at 707 ft bgs in the open borehole. Another groundwater screening sample (Sample ID: GW28-04-52764) was collected. Drillers resumed drilling in Puye sediments from 725 ft to 905 ft bgs. On December 8, 2003, a DTW of 888.7 ft bgs (regional aquifer) was measured in the open borehole. On December 9, 2003, WDC continued drilling in the Puye Formation from 905 to 1005 ft bgs and drilling was terminated. An additional groundwater screening sample (Sample ID: GW28-04-52765) was collected for analysis at a depth of 889 ft bgs. The R-28 well was installed in this borehole and completed in the regional aquifer with a screened interval from 934.3 ft to 958.1 ft bgs. Well design and construction are discussed in Section 7.0.

4.0 SAMPLING AND ANALYSIS OF CORE, CUTTINGS AND GROUNDWATER

During drilling at R-28, soil and groundwater samples were collected according to the LANL-prepared Sampling and Analysis Plan (SAP) (SAP for Drilling and Testing Characterization Wells R-1, R-28, R-33, R-34, LA-UR-03-4782). Soil and groundwater samples were submitted to LANL for analysis. Core was collected from R-28 and analyzed for geochemical analysis and contaminant profiling. Cuttings collected from R-28 may be analyzed for mineralogic, petrographic, and geochemical properties. Groundwater samples were analyzed for organic, inorganic and radiochemical compounds.

4.1 Core and Cuttings Sampling

During Phase I drilling, sixteen samples of core were collected from the unsaturated zone during drilling from 10 ft to 325 ft bgs. Approximately 500 grams (g) to 1,000 g of core samples were placed in appropriate sample jars and protective plastic bags before being delivered to Earth and Environmental Sciences (EES)-6, Coastal Science Laboratories, Inc., and General Engineering Laboratories (GEL) for laboratory analysis.

As Phase II drilling conditions permitted, a sufficient quantity of cuttings were collected from the discharge line at 5-ft intervals. A portion of the cuttings were sieved (at >#10 and >#35 mesh or >#35 and >#60 for finer-grained samples) and placed in chip-tray bins along with an unsieved portion. These chip trays were studied to determine lithologic characteristics and used to prepare the lithologic logs. The remaining cuttings were sealed in Ziploc® bags, labeled and archived in core boxes. Up to seven samples may be removed by LANL for mineralogic, petrographic, and geochemical analyses. No cuttings samples were submitted for contaminant characterization. However, all core and cuttings were screened by the RCTs prior to being moved off site.

Sample analysis results will be included in a future LANL investigation report for Mortandad Canyon.

4.2 Groundwater Sampling

Groundwater screening samples were collected during drilling of the R-28 borehole. An additional groundwater sample was collected after development from the completed R-28 well. Two groundwater screening samples were collected on December 5 at 651 ft bgs (Sample ID: GW28-04-52763), and December 7, 2003 at 707 ft bgs (Sample ID: GW28-04-52764). On

December 9, 2003, a groundwater screening sample was collected from the regional aquifer at a depth of approximately 889 ft bgs (Sample ID: GW28-04-52765). A well sample (Sample ID: GW28-04-52766) was obtained from the screened interval (934.3 ft to 958.1 ft bgs) after well development on January 12, 2004. The samples were submitted to LANL for analysis.

4.3 Geochemistry of Sampled Waters

The screening samples collected and analyzed (ID's: GW28-04-52763, GW28-04-52764) from the potential perched zones were determined, based on the analytical results, to be a mixture of drilling fluid and potable water rather than perched groundwater (P. Longmire, LANL, 2004). Further discussion of the analytical results for GW28-04-52764 are provided in Appendix A.

Sample ID GW28-04-52765, a screening sample collected from the regional aquifer at the conclusion of drilling, was analyzed and determined to contain both drilling fluids and groundwater (P. Longmire, LANL, 2004). The analysis for this sample is not included in Appendix A because more representative data are available from Sample ID GW28-04-52766. This sample was collected after well development using a submersible pump.

Temperature, pH, turbidity, and specific conductance were determined on-site during sampling of the regional aquifer. Both filtered (metals, trace elements, and major cations and anions) and non filtered (tritium, radionuclides, TOC, and stable isotopes) samples were collected for chemical analyses. Further discussion on testing methods and analytical results for this sample are provided in Appendix A.

5.0 BOREHOLE GEOPHYSICS

Using LANL-owned and subcontractor-owned tools, KA and Schlumberger performed borehole geophysics logging operations at R-28.

5.1 Kleinfelder-Supported Video Logging

On December 11, 2003, video logging was performed in the R-28 borehole using down hole tools provided by LANL. The video log was used to identify perched water zones and aid in lithologic contact identification. The video log did not show visual evidence of any perched water zones in the borehole. The video log of the open borehole was digitized onto a digital video disc (DVD) and is included as Appendix B.

5.2 Schlumberger Geophysical Logging

Schlumberger personnel conducted geophysical logging in the R-28 borehole on December 10, 2003. The primary purpose of the Schlumberger logging was to characterize the conditions in the hydrogeologic units penetrated by the R-28 borehole, with emphasis on gathering moisture distribution data, identifying water zones, measuring capacity for flow (porosity and moisture), and obtaining lithologic/stratigraphic data. Secondary objectives included evaluating borehole geometry and determining the degree of drilling fluid invasion along the borehole wall.

Schlumberger personnel used a suite of geophysical logging tools in the cased and uncased portions of the borehole; the suite included the following:

- Combinable Magnetic Resonance (CMRTM) measures the nuclear magnetic resonance response of the formation, which is used to evaluate total and effective water-filled

porosity of the formation and to estimate pore size distribution and in situ hydraulic conductivity.

- Array Induction Tool, version H (AITH™) measures formation electrical resistivity and borehole fluid resistivity, thus evaluating the drilling fluid invasion into the formation, the presence of moist zones away from the borehole wall, and the presence of clay-rich zones.
- Triple Detector Litho-Density (TLD™) measures formation bulk density related to porosity, photoelectric effect related to lithology, and borehole diameter using a single-arm caliper.
- Natural Gamma Spectroscopy (NGS™) measures spectral and overall natural gamma ray activity, including potassium, thorium, and uranium concentrations, thus evaluating geology and lithology.
- Elemental Capture Spectroscopy (ECS™) measures concentrations of hydrogen, silicon, calcium, sulfur, iron, aluminum, potassium, titanium, chlorinity, and gadolinium to characterize mineralogy, lithology, and water content of the formations.
- Epithermal Compensated Neutron Tool, model G (CNTG™) measures volumetric water content beyond the casing to evaluate formation moisture content and porosity.
- Full-Bore Formation Micro-Imager (FMI™) measures electrical conductivity images of the borehole wall and the borehole diameter with a two-axis caliper to evaluate geologic bedding and fracturing, including strike and dip of these features, fracture apertures, and rock textures.

Additionally, a calibrated natural gamma tool was used to record gross natural gamma-ray activity with each logging method (except the NGS™ run) to correlate depth runs between each of the surveys conducted.

Table 5.2-1 summarizes geophysical well logging conducted in R-28 by Schlumberger, KA and LANL. Schlumberger's report is presented in Appendix C along with the interpretive logging report and the geophysical logs, compiled as a montage (on the CD on the back cover).

Table 5.2-1
Borehole Logging Surveys Conducted in R-28

Operator	Date	Method	Cased Footage (ft bgs)	Open-hole Interval (ft bgs)	Remarks
Schlumberger	December 10, 2003	Logging suite[a]	0-80	90-992[b]	Schlumberger borehole logging conducted prior to well installation
KA/LANL	December 11, 2004	Video Log	0-80	80-888	Video logging in open borehole to identify perched water in the zone of saturation

[a] Schlumberger suite of borehole logging surveys included triple detector litho-density, array induction tool, epithermal compensated neutron tool, elemental capture spectrometry, full-bore formation microimager, and natural gamma spectrometry, combinable magnetic resonance.
[b] Variable effective depths, see Figure 3.0-1 and Appendix C.

6.0 LITHOLOGY AND HYDROGEOLOGY

A preliminary assessment of the hydrogeologic features encountered during drilling operations at R-28 is presented below. Included are summary descriptions of geologic units identified during characterization of the core and cuttings samples only. LANL EES-6 staff provided preliminary geologic contact zones. Groundwater occurrences are discussed based on drilling evidence, open-hole video logging, geophysical logging, and water-level measurements.

6.1 Stratigraphy and Lithologic Logging

Rock units and stratigraphic relations are interpreted from the visual examination of R-28 core and drill samples, and preliminary interpretation of geophysical data, and are briefly discussed in order of younger to older occurrence. The interpretations presented below are preliminary and may be revised upon future analysis of petrographic, geochemical, mineralogical, and geophysical logging data. A lithologic log for R-28 containing detailed descriptions that identify texture and composition of sample intervals is presented in Appendix D.

Alluvium, Qal (0 ft to 90 ft bgs)

R-28 core/cuttings indicated that unconsolidated alluvium exists from ground surface to approximately 90 ft bgs. The position of the alluvium/Otowi contact is uncertain and additional geologic characterization is underway to identify this contact. Samples from 0 ft to 90 ft bgs were silty to clayey sands with gravel that are typically comprised of volcanic lithics, tuff fragments, and quartz and sanidine crystals. The composition is comparable to the Bandelier Tuff from which these sediments are likely derived.

Otowi Member of the Bandelier Tuff, Qbo (90 ft to 297 ft bgs)

Rhyolitic ash-flow tuff representing the Otowi Member of the Bandelier Tuff was intersected in R-28 from 90 ft to 297 ft bgs. Core and cuttings showed that the Otowi Member is locally pumiceous, lithic-bearing, and partly welded to nonwelded. The coarse-fraction (i.e., the plus No. 10 sieve-size) of most cuttings samples in this interval are made up of more than 50% vitric

pumice fragments (locally as much as 90% by volume) and less than 50% dacitic and andesitic lithic fragments that represent xenolithic inclusions. Fine-fraction samples (i.e., the plus No. 35 sieve-size) are made up dominantly of quartz and sanidine crystals with subordinate abundances of volcanic lithics and pumice.

Guaje Pumice Bed, Bandelier Tuff, Qbog (297 ft to 315 ft bgs) and soil (315 ft to 318 ft bgs)

The Guaje Pumice Bed is made up of air-fall tephra and pumiceous surge deposits that form the basal subunit of the Otowi Member of the Bandelier Tuff. The Qbog section intersected in R-28 from 297 ft to 315 ft bgs appears to be made up of nonwelded pumiceous tephra. Core samples exhibit up to 40% white vitric pumices, up to 40% quartz and sanidine crystals, and 10 to 20% volcanic lithic fragments. Cuttings in the interval were severely milled in the process of drilling, to the extent that none of the plus-No. 10-sieve fraction was preserved in any of the samples, indicating the friable nature of this unit. The plus-No. 35- sieve fraction contained dominant proportions (i.e., more than 50% by volume) of vitric pumice with subordinate abundances of quartz and sanidine crystals, and lithic fragments of intermediate volcanic composition. A thin clay-rich soil lies beneath the Guaye Pumic Bed from 315 ft to 318 ft bgs.

Cerros del Rio Basalt, Tb (318 ft to 675 ft bgs)

The Cerros del Rio basalt, comprised of basaltic lavas and intercalated scoria deposits, was encountered in the R-28 borehole from 318 ft to 675 ft bgs. Cuttings indicated that this section is comprised of medium to dark gray, massive to vesicular basalt that is composed of olivine, pyroxene, and plagioclase feldspar phenocrysts in an aphanitic groundmass. Groundmass frequently exhibits strong weathering and/or pervasive alteration (i.e., seriticization) resulting in a somewhat bleached and pitted texture given to the drill chips. Distinctive reddish intervals of oxidized scoriaceous basalt were observed from 415 ft to 435 ft bgs and from 565 ft to 630 ft bgs.

Puye Formation, Tpf (675 ft to 1005 ft bgs)

The Puye Formation in R-28 is made up of volcaniclastic silty and clayey sand and gravel deposits and was encountered in R-28 borehole from 675 ft to 1005 ft bgs (TD). Cuttings indicated that this sedimentary section is made up of poorly cemented, fine to coarse detritus representing a wide range of volcanic constituents that include porphyritic dacite, rhyodacite, andesite, basalt, vitrophyre, and pumice. Sample chips are commonly broken or subrounded, indicating an abundance of gravel-size clasts throughout the section.

6.2 Groundwater Occurrences and Characteristics

The SAP identified two stratigraphic intervals with a potential to contain perched groundwater: (1) the alluvium, between 0 ft and 72 ft bgs; and (2) the Cerro Toledo Interval, between 72 ft and 107 ft bgs. Regional groundwater was anticipated to occur in the Puye Formation at approximately 867 ft bgs.

During Phase I drilling, no perched groundwater zones were observed from 0 ft to 325 ft bgs TD. A depth-to-water (DTW) measurement was taken approximately 12 hrs after the corehole was completed to confirm that no groundwater had been encountered. Again, no perched groundwater was identified; therefore no piezometer was installed in the R-28 corehole.

During Phase II drilling, possible perched groundwater was detected at 651 ft bgs and a 1-gallon sample (Sample ID: GW28-04-52763) was obtained. Another possible perched groundwater zone was encountered at 707 ft bgs and a second groundwater screening sample (Sample ID: GW28-04-52764) was collected. Potassium bromide (KBr) was added to the drilling fluid as a tracer to aid in determining perched water or when the regional aquifer was encountered. No samples were collected from approximately 550 ft bgs to approximately 790 ft bgs due to errors using the permanent probe; therefore, no data were available to corroborate the possible perched zones. Geochemical analysis of these samples indicated that they consisted of a mixture of drilling fluid and potable water rather than perched groundwater (P. Longmire, LANL, March 2004).

The processed geophysical logs indicate a significant decrease in water content at 887 ft and above, likely corresponding to a transition from fully water-saturated conditions below to a vadose zone above. Unsaturated conditions in the interval above 890 ft bgs are corroborated by a sharp, almost 60% decrease in the ELAN water saturation estimate from 890 ft to 887 ft bgs. In the remainder of the section above 737 ft bgs the processed logs indicate some zones of higher water saturation, but no significant fully saturated zones. ELAN logs and interpretations are included in Appendix C.

The regional aquifer was encountered in the open R-28 borehole at a depth of 888.7 ft bgs and a groundwater sample was collected (Sample ID: GW28-04-52765). The depth of the borehole at the time of measurement was 905 ft bgs. A comparison of the KBr concentration in the inflow and the cuttings shows a decrease in the KBr values between approximately 860 ft and 905 ft bgs as shown in Figure 6.2-1. This change in concentration coincides with the observed occurrence of regional groundwater at 888.7 during drilling. After completion of drilling (December 9, 2003), the DTW was again measured in the open borehole. The water level was 889.0 ft bgs.

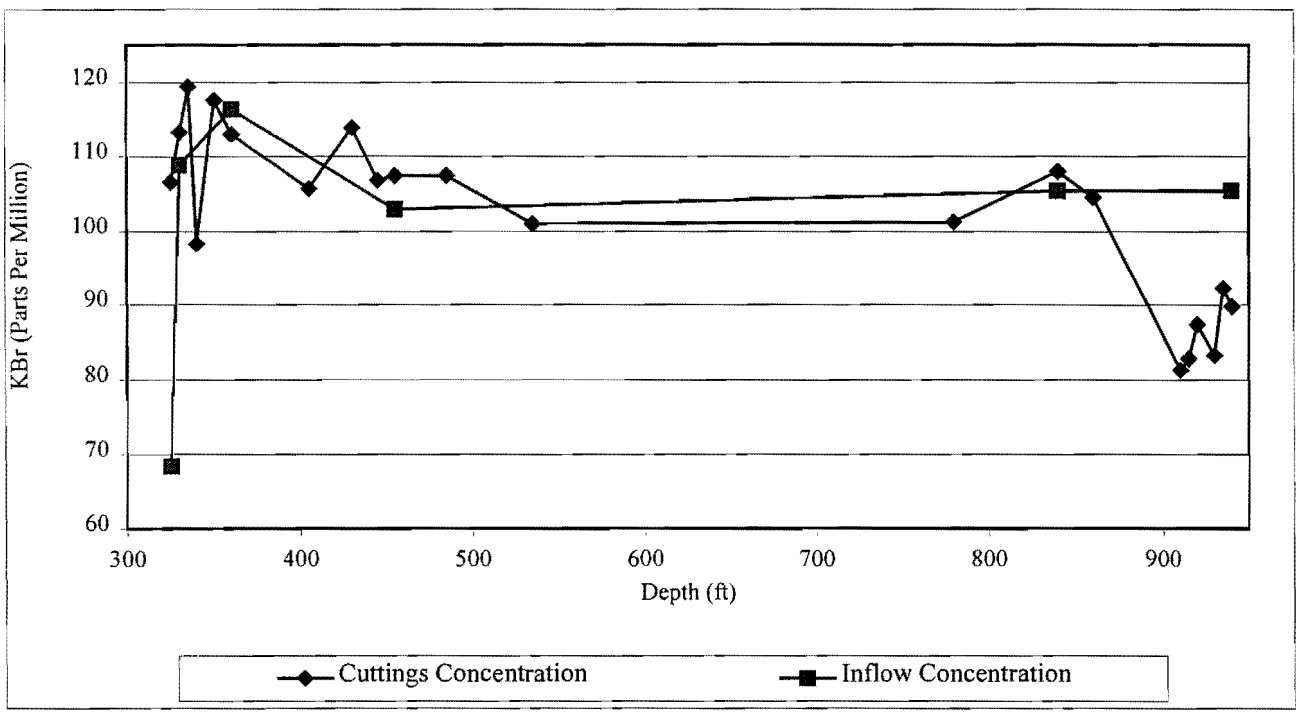


Figure 6.2-1. KBr Concentrations in Borehole at Well R-28

The depth to the regional aquifer in the R-28 well was verified by electric sounder measurement to be at 888.8 ft bgs, after the completion of well development, on January 8, 2004. A final well sample (sample ID: GW-28-04-52766) was obtained from the screened interval and submitted for lab analysis. The analysis for this sample is included in Appendix A.

The processed geophysical log results indicate that R-28 penetrates a fully water-saturated zone at 890 ft bgs. The estimated pore volume water saturation computed from the ELAN integrated log analysis is over 80% from 890 ft bgs to the bottom of the log interval (1002 ft bgs).

Water-filled and total porosity mostly ranges 25 to 40% across this interpreted saturated interval below 890 ft. The highest total and effective porosity occurs at the bottom of the well in the zone 932 ft to 1000 ft bgs. Detailed results of geophysical surveys and the ELAN analysis relating to water occurrence and logs for the Schlumberger surveys are presented in Appendix C.

7.0 WELL DESIGN AND CONSTRUCTION

R-28 was installed as a hydrogeologic characterization and groundwater monitoring well. Following approval of the well design by DOE, LANL and NMED, KA received the final construction specifications for R-28 on December 11, 2003. Well installation activities were performed from December 12 to December 17, 2003.

7.1 Well Design

Data from geophysical logs, borehole cuttings, field water level, and field observations were analyzed to determine the screen placement interval for R-28. Design of Well R-28 was performed in accordance with Section 2.2 of the Contractor's Quality Management Program prepared by KA for this project. The well was designed with a single screen interval to monitor potential contaminants and groundwater chemistry in the uppermost productive zone of the regional aquifer in the Puye Formation.

7.2 Well Construction

R-28 was constructed of 4.46-in inner diameter (ID)/5.0-in-OD, type A304 stainless-steel casing fabricated to American Society for Testing and Materials (ASTM) A312 standards. The casing and screens were factory cleaned before shipment and delivery to the site. Additional decontamination of the stainless-steel components was performed on site prior to well construction using a high-pressure steam cleaner and scrub brushes. Two nominal 12-ft lengths of 5-in OD compatible, 0.020-in continuous slot rod-based well screens were used. The screened interval in R-28 is 934.3 ft to 958.1 ft bgs. Stainless-steel casing was placed below the screen to construct a 22.2 ft sump. Figure 7.2-1 is a schematic as-built diagram of the completed R-28 well.

External couplings, also of type A304 stainless steel fabricated to American Society for Testing and Materials (ASTM) A312 standards, were used to connect individual casing and screen joints. Centralizers were installed above, at and below the well screen. In addition, another centralizer was placed approximately 122.3 ft above the screen interval. Centralizers for R-28 are located at 812 ft, 933 ft, 946 ft, and 959 ft bgs (Figure 7.2-1).

7.2.1 Annular Fill Placement

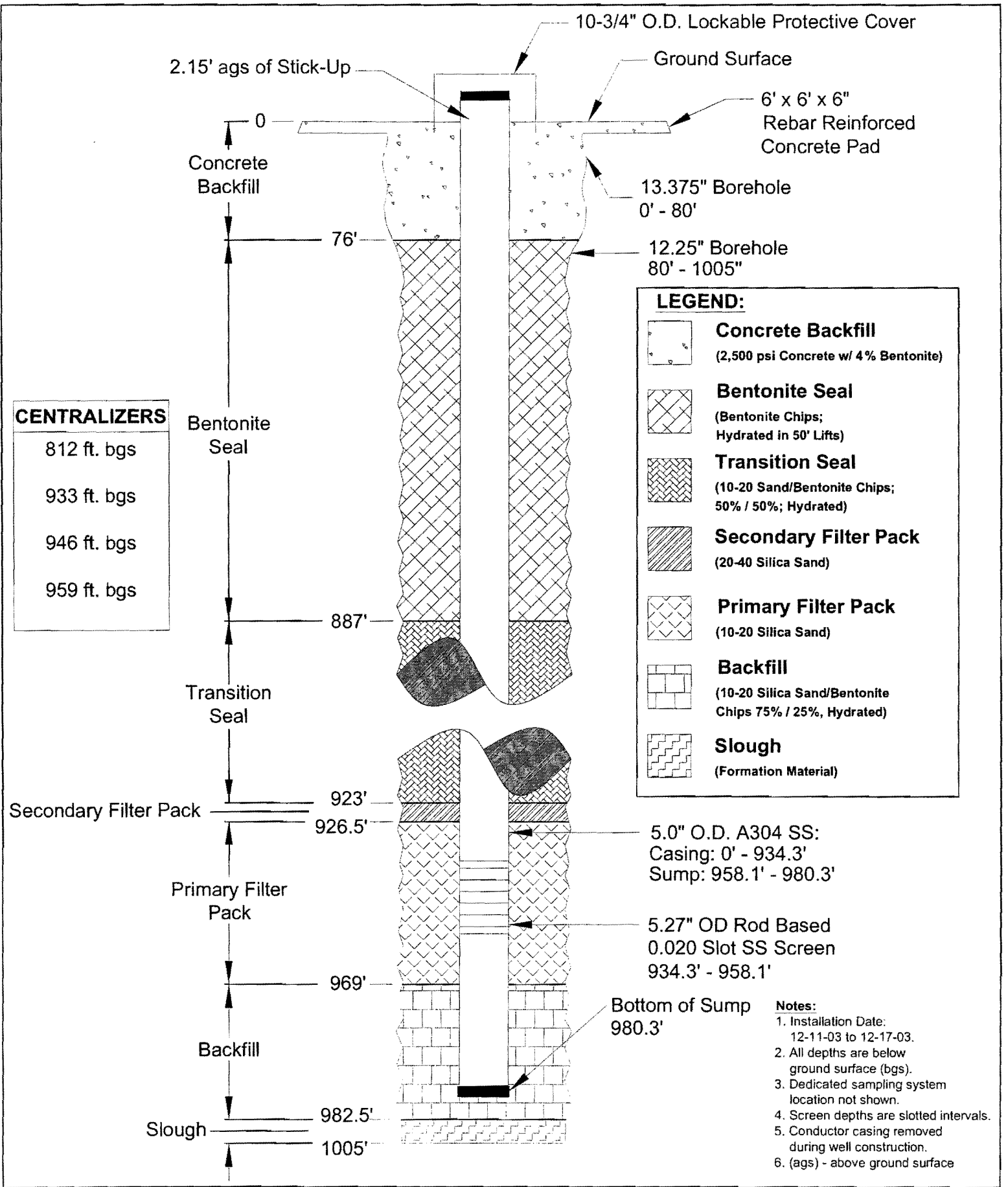
Well casing and screens were lowered in the hole and the bottom of the sump positioned at 980.3 ft bgs. Approximately 22.5 ft of formation material sloughed into the borehole from 1005 ft to

982.5 ft bgs. Placement of annular fill consisted of using a 2.5-in OD steel tremie pipe to deliver various materials to specified backfill intervals. Backfill consisting of a 75:25 mixture of 10/20 sand and $^{3}/_{8}$-in hydrated bentonite chips was placed from 982.5 ft to 969 ft bgs. A primary filter pack consisting of 10/20 silica sand was placed across the screen interval from 969 ft to 926.5 ft bgs. A secondary filter pack of 20/40 silica sand was placed above the primary filter pack from 926.5 ft to 923 ft bgs. Prior to placement, filter pack materials were mixed with municipal water to form a slurry. The filter pack was then swabbed to induce settling prior to bentonite placement. Next, a transition seal consisting of a 50:50 mixture of 10/20 sand and bentonite chips was placed above the secondary filter pack in the annular space between 923 ft and 887 ft bgs. The annulus was then filled from 887 ft to 76 ft with a bentonite seal consisting of $^{3}/_{8}$-in bentonite chips. The bentonite chips were hydrated in approximately 50-ft lifts. After removing the $13^{3}/_{8}$-in drill casing, concrete backfill, consisting of 2,500 pounds per square inch (psi) concrete with 4 percent bentonite, was placed from 76 ft bgs to the ground surface. The quantities of annular fill materials used in the completion of R-28 are presented in Table 7.2-1.

Table 7.2-1
Annular Fill Materials Used in Well R-28

Material	Amount	Unit[a]	Mix[b]
Backfill: 10/20 sand and bentonite	21 sand/5.5 bentonite	Bag	75:25
Primary Filter Seal: 10/20 sand	118	Bag	-
Secondary Filter Seal: 20/40 sand	8	Bag	-
Transition seal: 10/20 sand and bentonite	47 sand/35 bentonite	Bag	50:50
Bentonite Seal: $^{3}/_{8}$-in. Chips	17/137	Supersack/Bag	-
Concrete Backfill (September 10, 2003)	22	Cubic Feet	2,500 psi concrete with 4% bentonite
Potable Water	11,340	Gallons	-

[a] Sand bag = 45 lb each, bentonite bag/bucket = 50 lb ea, bentonite supersack = 3,000 lb ea.
Sand bag = 0.5 ft^3 each, bentonite bag/bucket = 0.67 ft^3 ea. bentonite supersack = 41.4 ft^3 ea.
[b] Mix ratios by volume.



Notes:

1. Installation Date: 12-11-03 to 12-17-03.
2. All depths are below ground surface (bgs).
3. Dedicated sampling system location not shown.
4. Screen depths are slotted intervals.
5. Conductor casing removed during well construction.
6. (ags) - above ground surface

KLEINFELDER		Schematic Diagram of Well R-28 Los Alamos National Laboratory Los Alamos, New Mexico	FIGURE **7.2-1**
Drawn By: C. Landon	Date: March 2004		
Project No.: 37151	Filename: Figure 7.2-1		
Scale: Not-To-Scale	Revision: 0		
Reviewed By: B. Bockisch	Approved By: M. Everett		

8.0 WELL DEVELOPMENT, HYDROLOGIC TESTING AND COMPLETION ACTIVITIES

Well development activities at R-28 were conducted from January 8 to January 13, 2004. Well development procedures included well screen swabbing, bailing, and pumping. Aquifer tests, consisting of a constant rate pumping and recovery test, began on February 5, 2004 and were completed on March 8, 2004. A total of 25,309 gal of water were removed during well development and testing activities.

8.1 Well Development

Well development at R-28 was performed in two stages. The initial stage consisted of bailing and swabbing the screened interval and sump to remove bentonite materials, drilling fluids, and formation sands and fines that had been introduced into the well during drilling and installation activities. Bailing activities were conducted by WDC using a 5-gal capacity, 3-in OD by 10-ft long stainless-steel bailer attached to the backend of a Ford F550, Pulstar 12000 rig. Bailing activities continued until water clarity improved. Water turbidity was not measured during the bailing and swabbing process. Bailing was followed by swabbing across the screened interval to enhance filter-pack development. The swabbing tool consisting of a 4.25-in OD, 1-in thick rubber disc attached to the drill rod that was lowered into the well and drawn repeatedly across the screened interval for approximately one hour.

Following swabbing, pump development procedures were applied to the screened interval (934.3 ft to 958.1 ft bgs) using a 10 horsepower, 4-in Grundfos submersible pump. The pump intake was lowered to the screened interval and cycled on at a nominal rate of approximately 17.0 gal per minute (gpm). The pump intake was then drawn across the length of the screened interval. While pumping at R-28, water samples were collected for water quality parameter measurements.

Criteria for well development were based on field water-quality parameters (pH, temperature, specific conductance, turbidity, and total organic carbon [TOC]). To monitor progress during each development stage, samples of water were periodically collected and parameter measurements were recorded. The primary objective of well development was to remove suspended sediment from the water until turbidity, measured in nephelometric turbidity units (NTU), and was less than 5 NTUs for three consecutive samples. TOC provides a quantitative measurement for evaluating potential residual drilling fluid including EZ-MUD® and QUIK-FOAM®. Similarly, other measured parameters were required to stabilize before terminating development procedures. Table 8.1-1 presents the final water quality parameter data values measured during the well development process.

Table 8.1-1
Water Removed and Final Water Quality Parameters
During R-28 Well Development and Aquifer Testing

Method	Water Removed (gal.)	pH	Temperature (°C)	Specific Conductance (mS/cm) [a]	Turbidity (NTU)	TOC (ppm)
Bailing/Swabbing Screen	40	NM[b]	NM	NM	NM	NM
Pumping Screen	15,210	6.1	20.7	289	1.79	0.44
Aquifer Testing	10,059	NM	NM	NM	NM	NM
Total	**25,309**	–	–	–	–	–

[a] Specific conductance is reported in millisiemens per centimeter (mS/cm).
[b] NM = Not measured.

Figure 8.1-1 illustrates the effects of well development on measured field parameters.

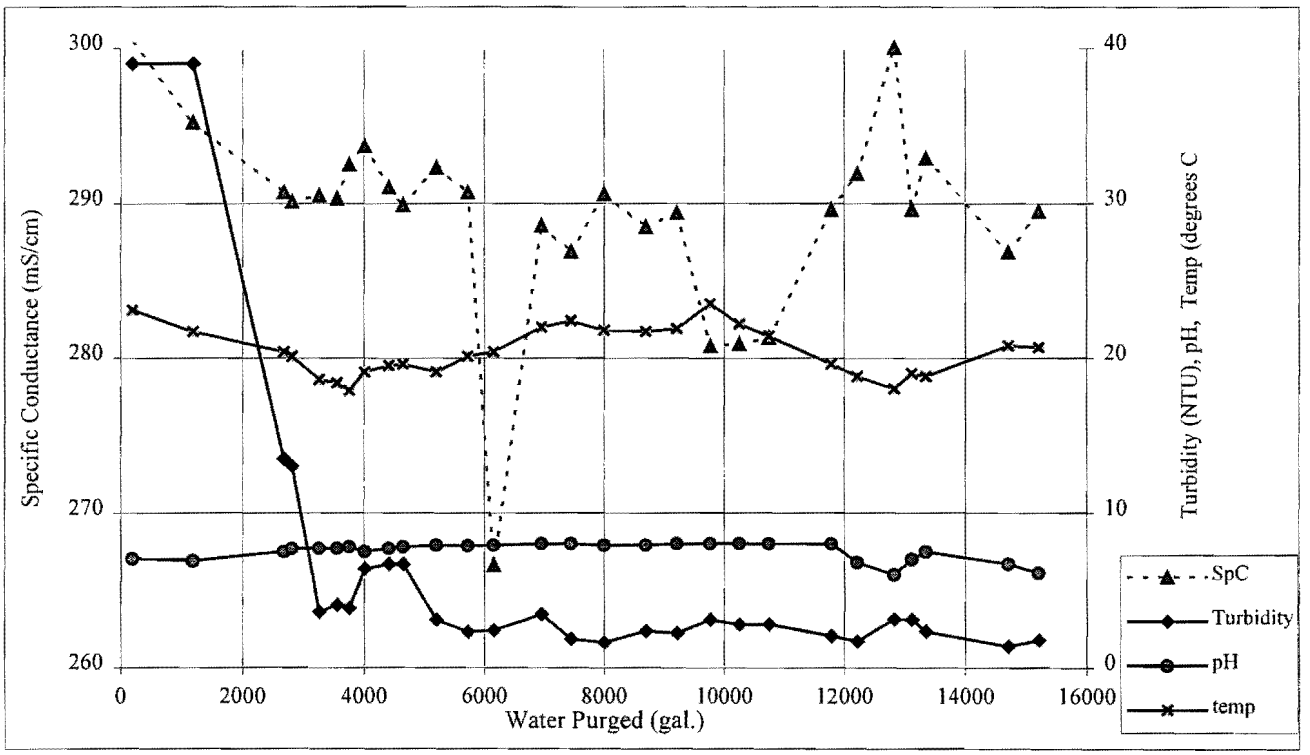


Figure 8.1-1. Effects of Well Development on Water Quality Parameters at Well R-28

8.2 Hydrologic Testing

Two 24-hour constant-rate pumping tests were performed on R-28 in February and March, 2004. R-28 pumping tests were performed using an inflatable packer. The inflatable packer was implemented to eliminate the effects of casing storage. Packer implementation also largely eliminated water level fluctuation response to barometric pressure changes. The complete report is included in Appendix E.

R-28 was first test pumped in early February 2004. Results of that test were not entirely satisfactory because of leaks in the pumping string installed in the well. The result was a changing (decreasing) discharge rate during the test. Second, the check valve on the pump leaked following both the constant-rate pumping test and the step-drawdown test (prior to the constant-rate test), allowing water in the lower portion of the drop pipe to drain back into the well. This affected both the time-drawdown and recovery data sets.

Because of these occurrences, the test was rerun in early March to obtain additional hydraulic data, particularly early recovery data. During the second test, despite installing two additional check valves immediately above the pump, a very slow check valve leak occurred, affecting the time-drawdown data slightly, but having no effect on the recovery data.

Test 1 was started on February 5, 2004 at 9.8 gpm and continued for 24 hours until February 6. Following pump shutoff, recovery data were measured for an additional 24 hours. After collecting the recovery data set, water level monitoring continued until February 9. The late data served as a background data set. Test 2 was started on March 7 at 12.9 gpm and continued to March 8.

The following information was determined from the pumping and recovery tests on R-28:

1. Test 1 produced a screen interval hydraulic conductivity of 158 feet per day using very early recovery data.
2. Test 2 produced screen interval hydraulic conductivities of 144 and 149 feet per day using very early recovery data.
3. Test 2 produced a hydraulic conductivity of greater than 120 feet per day and a vertical anisotropy of approximately 10^{-3} using the entire recovery data set and partial penetration analysis.
4. The specific capacity of R-28 implied a lower-bound conductivity of 73 feet per day, fully consistent with the above calculations.
5. Late data suggested a transmissivity possibly well in excess of 100,000 gpd/ft at the location of R-28. The effective thickness of the corresponding permeable sediments is not known.

8.3 Dedicated Sampling System Installation

At the time of this report, installation of a dedicated sampling system has not been completed. It is anticipated that a dedicated submersible pump will be installed in Spring 2004.

8.4 Wellhead Completion

The surface completion for R-28 was completed on December 19, 2003 and involved placing a reinforced (2,500 psi) concrete pad, 6-ft wide by 6-ft long by 6-in. thick, around the well casing to ensure long-term structural integrity of the well. A brass survey pin was installed in the northwest corner of the pad. A 10.75-in. steel casing with locking lid protects the well riser. The pad was designed to be slightly elevated, with base course graded up around the pad to allow for drainage.

8.5 Geodetic Survey

The location of Well R-28 was determined by geodetic survey on March 8, 2004, using a Leica TCR303 electronic total station. Lynn Engineering and Surveying, Inc. conducted the survey. Coordinates and elevations were obtained from LANL Monument MCOBT-4.4 using a Static Global Positioning System (GPS).

This survey located the brass cap monument at Well R-28 in the concrete pad, the top of the stainless-steel well casing and the corehole. Table 8.5-1 summarizes the results of readings conducted for various components of the completed wellhead. The coordinates shown are in New Mexico State Plane Grid Coordinates, Central Zone (North American Datum, 1983 [NAD 83]), expressed in feet. Elevation is expressed in ft amsl relative to the National Geodetic Vertical Datum of 1929 (NGVD 29).

Table 8.5-1
Geodetic Data for Well R-28

Description	Northing	Easting	Elevation [a]
Brass cap in R-28 pad	1768359.0	1638988.5	6728.53
Top of stainless-steel casing	1768356.8	1638989.9	6730.70
Corehole	1768445.3	1638997.0	6728.22

[a] Measured in ft amsl relative to the National Geodetic Vertical Datum of 1929.

8.6 Site Restoration

Fluids and cuttings produced during drilling and development were sampled in accordance with the Notice of Intent (NOI) to Discharge, Hydrogeologic Workplan Wells and filed with the NMED. Approval to discharge drilling and development water is pending. A copy of the NMED discharge approval will be included in Appendix F of the final R-28 report. The sample analysis is included in Appendix F.

Silt fencing and straw bales have been left in place to minimize possible sediment impacts from future precipitation.

Future site restoration activities will include: (1) removal and land application of water from the borehole-cuttings containment area, (2) removal of the polyethylene liner and borehole cuttings from the borehole-cuttings containment, (3) removing the containment area berms and (4) backfilling and grading the containment area. The cuttings will be thin-spread on-site after NMED-approval has been obtained. Site re-seeding will be performed in the spring of 2004.

9.0 DEVIATIONS FROM THE R-28 SAP

Appendix G compares the actual characterization activities performed at R-28 with the planned activities described in the "Hydrogeologic Workplan" (LANL 1998, 59599) and the R-28 SAP (LANL 2003, 03-8324). For the most part, drilling, sampling, and well construction at R-28 was performed as specified in the SAP. The main deviations from planned activities are summarized as follows:

- Planned corehole depth – the SAP stated that continuous coring would extend from ground surface to a depth of 335 ft bgs and water samples for contaminant analysis would be collected at each of the two anticipated perched groundwater zones. The Phase I corehole was completed at 325 ft bgs TD, 10 feet above the planned depth. The top of the Cerros del Rio basalt was reached at 318 ft bgs; therefore, drilling stopped after penetrating 7 ft into the lavas. Both continuous and spot core sampling methods were used. No zones of perched moisture were identified and no water samples were collected in the vadose zone during Phase I.

- Planned borehole depth – the SAP anticipated that the deep borehole would be drilled to a TD of 967 ft bgs, or approximately 100 ft below the regional water table that was projected to occur at 867 ft bgs. The completed R-28 borehole was drilled to 1005 ft bgs TD, 116 ft below the measured depth to the regional aquifer that was determined to be at 888.8 ft bgs on January 8, 2003.

- Number of core and cuttings samples collected for contaminant and moisture analysis—up to 15 samples, from specified intervals between 10 and 336 ft bgs in the unsaturated zone, were planned in the R-28 SAP. A total of 16 were actually collected over the interval ranging from 10 to 325 ft bgs.

10.0 ACKNOWLEDGEMENTS

D. Schafer of Schafer and Associates contributed the hydrologic testing section of this report.

E. Tow, P. Schuh, and R. Lawrence of Tetra Tech EM, Inc., Albuquerque, NM, contributed to the preparation of this report.

EnviroWorks, Inc provided site preparation and restoration activities.

Lynn Engineering & Surveying, Inc. provided the final geodetic survey of finished well components.

N. Clayton of Schlumberger provided processing and interpretation of borehole geophysical data.

P. Longmire of LANL contributed the geochemistry section of this report.

Tetra Tech EM, Inc. provided support for well site geology, sample collection, and hydrologic testing.

WDC Exploration & Wells provided rotary drilling services.

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Appendix A

Groundwater Analytical Results

Groundwater Analytical Results

A water sample (Sample ID: GW28-04-52764) was collected during drilling at borehole R-28 from 707 to 725 ft bgs on December 7, 2003. The solution most likely consisted of municipal water containing drilling additives.

Concentrations of dissolved bromide, chloride, nitrate (as N), sodium, and sulfate were 54.5, 7.94, 0.53, 76.9, and 43.3 ppm, respectively. Bromide was added as a tracer during drilling to determine if native groundwater was encountered, and dilution of bromide is expected to take place if such conditions occurred. The low concentration of nitrate suggests that native groundwater was not encountered. Concentration of perchlorate was not decipherable in the water sample due to matrix interferences from chloride, sulfate, and organic acids (formate and acetate) derived from drilling fluids. These organic acids typically are not found in deep native groundwater.

A groundwater sample (Sample ID: GW28-04-52766) was collected after well development from the regional aquifer (934.3 to 958.1 ft bgs) within the Puye Formation using a submersible pump. Analytical results for this sample are provided in Tables A-1 and A-2. Both filtered (metals, trace elements, and major cations and anions) and non filtered (tritium, radionuclides, TOC, and stable isotopes) samples were collected for chemical analyses. Analytical results for stable isotopes (hydrogen and oxygen) and low-level perchlorate are pending. Aliquots of the samples were filtered through a 0.45-μm Gelman filter. An aliquot was acidified with analytical-grade HNO_3 to a pH of 2.0 or less for metal and major cation analyses at EES-6. Alkalinity was determined at EES-6 using standard titration techniques.

Groundwater samples were analyzed by EES-6 using techniques specified in the US Environmental Protection Agency (EPA) SW-846 manual. Ion chromatography (IC) was the analytical method for bromide, chloride, fluoride, nitrate, nitrite, oxalate, perchlorate, phosphate, and sulfate. The method detection limit (MDL) for perchlorate using IC is 0.002 ppm or mg/L (2 ppb or 2 μg/L). Perchlorate was also analyzed by General Engineering Laboratories (GEL) using the LC/MS/MS method. This method is more sensitive than the IC method, having an MDL of 0.00005 mg/L (0.050 μg/L) and a reporting limit (RL) or quantitation limit (QL) of 0.0002 mg/L (0.2 μg/L). Inductively coupled (argon) plasma emission spectroscopy (ICPES) was used for calcium, magnesium, potassium, silica, and sodium. Aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, iron, lead, manganese, mercury, nickel, selenium, silver, thallium, vanadium, uranium, and zinc were analyzed by inductively coupled (argon) plasma mass spectrometry (ICPMS). The precision limits (analytical error) for major ions and trace elements were generally less than ±10% using ICPES and ICPMS.

Radionuclide activity in groundwater was determined by alpha spectrometry for americium, plutonium, and uranium isotopes; by gas proportional counting for strontium-90; and by gamma spectrometry for cesium-137 and other gamma-emitting isotopes. General Engineering Laboratory performed the above radiometric analyses. Concentrations of tritium were determined by direct counting at the University of Miami. Stable isotopes of oxygen (oxygen-18 and oxygen-16, $\delta^{18}O$) and hydrogen (hydrogen and deuterium, δD) were analyzed by Geochron Laboratories (Cambridge, Massachusetts) using isotope ratio mass spectrometry (IRMS). Stable isotopes of nitrogen (nitrogen-15 and nitrogen-14, $\delta^{15}N$) were analyzed at EES-6 using IRMS.

Table A-1: Hydrochemistry of Regional Groundwater at Well R-28 (Filtered Samples)

Depth (ft)	**934.3 to 958.1**
Geologic Unit	**Puye Formation**
Date Sampled	**01/12/04**
Sample ID	**GW28-04-52766**
pH	7.45
Temperature (°C)	19.1
Specific Conductance (μS/cm)	293
Turbidity (NTU)	1.56
Alkalinity (ppm $CaCO_3$/L)	69.3
Al (ppm)	0.13
Sb (ppm)	[0.001], U
As (ppm)	0.0018
B (ppm)	0.024
Ba (ppm)	0.052
Be (ppm)	[0.001], U
HCO_3 (ppm)	84.6
Br (ppm)	1.14
Cd (ppm)	[0.001], U
Ca (ppm)	33.7
Cl (ppm)	19.3
ClO_4 (mg/L) (LC/MS/MS)	Results pending
ClO_4 (ppm) (IC)	[0.002], U
Cr (ppm)	0.27
Co (ppm)	[0.001], U
Cu (ppm)	0.0017
F (ppm)	0.31
Fe (ppm)	0.07
Pb (ppm)	0.0004
Mg (ppm)	7.31
Mn (ppm)	0.041
Hg (ppm)	[0.00005], U

Table A-1: Hydrochemistry of Regional Groundwater at Well R-28 (Filtered Samples)

Depth (ft)	**934.3 to 958.1**
Geologic Unit	**Puye Formation**
Date Sampled	**01/12/04**
Sample ID	**GW28-04-52766**
Mo (ppm)	0.0014
Ni (ppm)	0.0038
NO_3 (ppm) (as N)	7.2
NO_2 (ppm) (as N)	[0.01], U
C_2O_4 (ppm) (oxalate)	[0.01], U
PO_4 (ppm) (as P)	[0.01], U
K (ppm)	1.74
Se (ppm)	[0.001], U
Ag (ppm)	[0.0002], U
Na (ppm)	13.9
SiO_2 (ppm)	74.3
Sr (ppm)	0.13
SO_4 (ppm)	29.9
Tl (ppm)	[0.001], U
U (ppm)	0.0009
V (ppm)	[0.001], U
Zn (ppm)	0.014
TDS (ppm) (calculated)	300

Note: U = not detected. Silica concentrations were calculated from measured silicon (ICPES). Bicarbonate concentrations were calculated from measured alkalinity.

Table A-2: Hydrochemistry of the Regional Aquifer Samples at Well R-28 (Non Filtered Samples)

Depth (ft)	**934.3 to 958.1**
Geologic Unit	**Puye Formation**
Date Sampled	**01/12/04**
Sample ID	**GW-28-04-52766**
Tritium (pCi/L)	114.3
Am-241 (pCi/L)	[0.017], U
Cs-137 (pCi/L)	[0.481], U
Pu-238 (pCi/L)	[-0.0117], U
Pu-239,240 (pCi/L)	[-0.0039], U
Sr-90 (pCi/L)	[0.0185], U
U-234 (pCi/L)	0.839
U-235 (pCi/L)	[0.024], U
U-238 (pCi/L)	0.360
TOC (ppm)	0.44
$\delta^{15}N$ (‰)	+9.2
δD (‰)	Results pending
$\delta^{18}O$ (‰)	Results pending

Note: U = not detected, ‰ = permil, and TOC = total organic carbon

Appendix B

Borehole Video
(DVD included)

TO VIEW THE VIDEO THAT ACCOMPANIES THIS DOCUMENT, PLEASE CALL THE HAZARDOUS WASTE BUREAU AT 505-476-6000 TO MAKE AN APPOINTMENT

Appendix C

Schlumberger Geophysical Report and Montages
(CD included)

Appendix C

Schlumberger Geophysical Report and Montages

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1.0 SUMMARY

This report describes the borehole geophysical logging measurements acquired in characterization well R-28 by Schlumberger, logged in December 2003 prior to well completion. The report (1) summarizes the technology, measurements, and procedures employed, and (2) presents the processed results from these measurements and discusses their interpretation. The logging suite was acquired from 27 ft to 998 ft below ground surface, when the borehole was open below 78 ft, drilled with 12.25 in diameter bit size, and contained 13.375-in. outer diameter freestanding steel casing above 78 ft (as measured by the logs).

The primary purpose of the geophysical logging was to characterize the geologic/hydrogeologic section intersected by the well with emphasis on determining regional aquifer groundwater level, perched groundwater zones, moisture content, capacity for flow, and the stratigraphy/mineralogy of geologic units. A secondary purpose of the geophysical logging was to evaluate the borehole conditions such as borehole diameter versus depth, deviation versus depth, and degree of drilling fluid invasion. These objectives were accomplished by measuring, nearly continuously, along the length of the well: (1) total and effective water-filled porosity and pore size distribution, from which an estimate of effective water hydraulic conductivity is made, (2) bulk density (sensitive to total water- plus air-filled porosity), (3) bulk electrical resistivity at multiple depths of investigation, (4) bulk concentrations of a number of important mineral-forming elements, (5) spectral natural gamma ray, including potassium, thorium, and uranium concentrations, (6) bedding and fracture orientation, fracture aperture, and geologic texture, (7) borehole inclination and azimuth, and (8) borehole diameter.

Preliminary results of these measurements were generated in the logging truck at the time the geophysical services were performed and are documented in field logs provided on-site. However, the measurements presented in the field results are not fully corrected for borehole conditions and are provided as separate, individual logs. The field results were reprocessed by Schlumberger to (1) correct/improve the measurements, as best as possible, for borehole/formation environmental conditions, (2) perform an integrated analysis of the log measurements so that they are all coherent, and (3) combine the logs in a single presentation, enabling integrated interpretation. The reprocessed log results provide better quantitative property estimates that are consistent for all applicable measurements, as well as estimates of properties that otherwise could not be reliably estimated from the single measurements alone (e.g. total porosity inclusive of all water and air present, water saturation, mineralogy).

The geophysical log measurements from Well R-28 provide good quality results that are consistent with each other through most of the borehole. The quality of some measurements was degraded across intervals where the borehole contains large washouts and/or rugose hole. The measurements most affected by the adverse borehole conditions were ones that have a shallow depth of investigation and require close contact to the borehole wall – bulk density, photoelectric effect, and porosity measurements. The greatest impact on the log processing was erroneously high estimated porosity in the problem zones. Through the integrated analysis and interpretation of all the logs, the individual shortcomings of the specific measurements are reduced. Thus, the integrated log analysis results (e.g. the optimized water-filled porosity log) are the most robust single representation of the geophysical log results—providing a wealth of valuable high resolution information on the geologic and hydrogeologic environment of the R-28 locale.

Important results from the processed geophysical logs in R-28 include the following:

1. The well water level was stable throughout the logging acquisition, remaining between 888 ft and 890 ft below ground surface for all four logging runs.

2. The processed logs strongly indicate that the intersected geologic section from 890 ft to the bottom of the log interval (1,002 ft below ground surface) is fully saturated with water throughout. The porosity across this interval is mostly in the range of 30–40% of the total rock volume, although it is higher in borehole washouts. The most porous zone appears to be at the bottom of the well (932–1000 ft, with porosity reaching 40%. Moveable water content (effective porosity) ranges 12–20% of total rock volume, reaching a maximum in the same porous zone.
3. The processed logs do not indicate any significant fully water saturated (perched) zones above 890 ft. Estimated water saturation decreases steadily above this depth and generally averages 30–60%. Zones with higher water content include 70–96 ft (18% of total rock volume), 205–235 ft (40%), 292 – 296 ft (22%), 318–320 ft (30%), 323–333 ft (22%), 340–348 ft (30%), 594–614 ft (25%), 624–630 ft (23%), and 656–687 ft (23%).
4. The geophysical log response in the zone 298–315 ft is characteristic of the Guaje Pumice Bed, with extremely high total porosity (over 60%) and the presence of moveable water (8%). The logs indicate another possible pumice bed at 340–346 ft, with total porosity of over 60% and water-filled porosity of 30%.
5. The processed logs indicate that varying amounts of highest clay content are present in the following zones: 315–320 ft, and 675–689 ft.
6. The processed logs clearly delineate an extensive basalt lava flow sequence in the interval 320–675 ft, with less competent, high porosity "broken-up" zones at 320–332 ft, 346–384ft, 541–564 ft, 541–614 ft, and 618–633 ft.
7. Interpreted bed boundaries across the imaged interval 900–1,000 ft have dip azimuths (direction beds are dipping to) predominantly to the south-southeast and dip angles (angle from horizontal) mostly less than 10 degrees, and no more than 20 degrees. No fractures were identified across this interval.

2.0 INTRODUCTION

Geophysical logging services were performed in characterization well R-28 by Schlumberger in December 2003, prior to initial well completion. The purpose of these services was to acquire in situ measurements that help characterize the borehole, near-borehole, and abutting geologic formation environment. The primary objective of the geophysical logging was to provide in situ evaluation of formation properties (hydrogeology and geology) intersected by the well. This information was (and is) used by scientists, engineers, and project managers in the Los Alamos Characterization and Monitoring Well Project to design the well completion, better understand subsurface site conditions, and assist in overall decision-making.

The primary geophysical logging services performed by Schlumberger in well R-28 were the:

- Combinable Magnetic Resonance (CMR™) tool to measure the nuclear magnetic resonance response of the formation, which is used to evaluate total and effective water-filled porosity of the shallow formation and to estimate pore size distribution and in-situ hydraulic conductivity;
- Compensated Neutron Tool (CNT™) to measure volumetric water content of the formation, which is used to evaluate moist/porous zones;
- Triple detector Litho-Density (TLD™) tool to measure formation bulk density and photoelectric factor, which are used to estimate total porosity and lithology;
- Array Induction Tool, (AIT™) to measure formation electrical resistivity at five depths of investigation and borehole fluid resistivity, which is used to evaluate drilling fluid

invasion into the formation (an indicator of relative permeability and water saturation), presence of moist zones far from the borehole wall, and presence of clay-rich zones;

- Formation Micro-Imager (FMI™) tool to measure electrical conductivity images of the borehole wall in fluid-filled open hole and borehole diameter with a two-axis caliper – used for evaluating geologic bedding and fracturing, including strike and dip of these features and fracture apertures, and rock texture;
- General Purpose Inclinometry Tool (GPIT™) to measure borehole deviation and azimuth in OH – used to evaluate borehole position versus depth and to orient FMI images;
- Natural Gamma Spectroscopy (NGS) tool to measure gross natural gamma and spectral natural gamma ray activity, including potassium, thorium, and uranium concentrations, which is used to evaluate geology/lithology, particularly the amount of clay and potassium-bearing minerals;
- Elemental Capture Spectroscopy (ECS™) tool to measure elemental weight percent concentrations of a number of elements – used to characterize mineralogy and lithology of the formation

In addition, calibrated gross gamma ray (GR) data were recorded with every service except the NGS, for the purpose of depth matching the logging runs to each other. Table 2.1 summarizes the geophysical logging runs performed in R-28.

Table 2.1
Geophysical logging services, their combined tool runs and intervals logged, as performed by Schlumberger in borehole R-28

Date of Logging	Borehole Status	Run #	Tool 1	Tool 2	Tool 3	Depth Interval (ft)
10-Dec-2003	Open hole below 80 ft. Bit size of 12.25 in. Steel casing above 80 ft. Casing OD of 13.375 in.	1	TLD	CNT	GR	32–990 ft
Same	Same	2	AITH	NGS		27–986 ft
Same	Same	3	FMI	GPIT	GR	890–992 ft
Same	Same	4	ECS	CMR	GR	50–998 ft

A description of these geophysical logging tools can be found on the Schlumberger website (http://www.hub.slb.com/index.cfm?id=id11618).

3.0 METHODOLOGY

This section describes the methods employed by Schlumberger for performed geophysical logging services in Well R-28, including the following stages/tasks:

- Measurement acquisition at the well site
- Quality assessment of logs
- Reprocessing of field data

3.1 Acquisition procedure

Once the well drilling project team notified Schlumberger that R-28 was ready for geophysical well logging, the Schlumberger district in Farmington, NM, mobilized a wireline logging truck, the appropriate wireline logging tools and associated equipment, and crew to the job site. Upon arriving at the LANL site, the crew completed site entry paperwork and received a site-specific safety briefing.

After arriving at the well site, the crew proceeded to rig up the wireline logging system, including:

- Parking and stabilizing the logging truck in a position relative to the borehole that is best for performing the surveys;
- Setting up a lower and an upper sheave wheel (the latter attached to, and hanging above, the borehole from the drilling rig/mast truck);
- Threading the wireline cable through the sheaves; and
- Attaching the appropriate sonde(s) for the first run to the end of the cable.

Next, pre-logging checks and any required calibrations were performed on the logging sondes and the tool string was lowered into the borehole. If any of the tools required active radioactive sources (in this case a neutron and gamma source for the CNT/ECS and TLD, respectively), just prior to lowering the tool string the sources were taken out of their carrying shields and placed in the appropriate tool source-holding locations using special source handling tools. The tool string was lowered to the bottom of the borehole and brought up at the appropriate logging speed as measurements were made. At least two logging runs (one main and one repeat) were made with each tool string.

Upon reaching the surface any radioactive sources were removed from the tools and returned to their appropriate storage shields, thus eliminating any radiation hazards. Any post-logging measurement checks were performed as part of log quality control and assurance. The tool string was cleaned as it was pulled out of the hole, separated and disconnected.

The second tool string was attached to the cable for another logging run, followed by subsequent tool strings and logging runs. After the final logging run was completed the cable and sheave wheels were rigged down.

Before departure, the logging engineer printed field logs for on site distribution and sent the data via satellite to the Schlumberger data archiving center. The Schlumberger data processing center was alerted that the data were ready for post-acquisition processing.

3.2 Log Quality Control and Assessment

Schlumberger has a thorough set of procedures and protocols for ensuring that the geophysical logging measurements are of very high quality. This includes full calibration of tools when they are first built, regular recalibrations and tool measurement/maintenance checks, and real-time monitoring of log quality as measurements are made. Indeed, one of the primary responsibilities of the logging engineer is to ensure, before and during acquisition, that the log measurements meet prescribed quality criteria.

A tool specific base calibration that directly relates the tool response to the physical measurement using the designed measurement principle is performed on all Schlumberger

logging tools when first assembled in the engineering production centers. This is accomplished through a combination of computer modeling and controlled measurements in calibration models with known physical parameters.

The base calibration is augmented through regular "master calibrations" for most Schlumberger tools – typically performed every one to six months in local Schlumberger shops (such as Farmington, NM), depending on tool design. Master calibrations consist of controlled measurements using specially designed calibration tanks/jigs and internal calibration devices that are built into the tools. The measurements are used to fine-tune the tool's calibration parameters and to verify that the measurements are valid.

In addition, on every logging job, on-site before and after "calibrations" are executed for most Schlumberger tools directly before/after lowering/removing the tool string from the borehole. For most tools these represent a measurement verification instead of an actual calibration – used to confirm the validity of the measurements directly before acquisition and to ensure that they have not drifted or been corrupted during the logging job.

All Schlumberger logging measurements have a number of associated depth-dependent quality control (QC) logs and flags to assist with identifying and determining the magnitude of log quality problems. These QC logs are monitored in real-time by the logging engineer during acquisition and are used in the post-acquisition processing of the logs to determine the best processing approach for optimizing the overall validity of the property estimates derived from the logs.

Additional information on specific tool calibration procedures can be found on the Schlumberger web page (http://www.hub.slb.com/index.cfm?id=id11618).

3.3 Processing Procedure

After the geophysical logging job was completed in the field and the data archived, the data were downloaded to the Schlumberger processing center. There the data were processed, in the order below, to (1) correct the measurements for near-wellbore environmental conditions and redo the raw measurement field processing for certain tools using better processing algorithms, (2) depth match the log curves from different logging runs, and (3) model the near-wellbore substrate lithology/mineralogy and pore fluids through integrated log analysis. Separately, the FMI electrical image was processed to produce scaled and normalized high-resolution images that were interpreted to identify geologic features and compute fracture apertures. Afterwards an integrated log montage was built to combine and compile all the processed log results.

Environmental Corrections and Raw Measurement Reprocessing

If required, the field log measurements were processed to correct for conditions in the well, including fluid type (drilling mud or air), presence of steel casing, and (to a much lesser extent) pressure, temperature, and water salinity. Basically these environmental corrections entail subtracting from the measurement response the known influences of the set of prescribed borehole conditions. In R-28 the log measurements requiring these corrections are the CNT porosity, TLD density, and NGS spectral gamma ray logs.

Two CNT neutron porosity measurements are available – one that measures thermal ("slow") neutrons and one that measures epithermal ("fast") neutrons. Measurement of epithermal neutrons is required to make neutron porosity measurements in air-filled hole. In water/mud

filled hole both the CNT epithermal and thermal neutron measurements are valid, but the thermal neutron porosity has better statistical precision. Both epithermal and thermal neutron porosity measurements were made in R-28 since the borehole was partly water-filled (below 890 ft) and partly air-filled (above 890 ft). Epithermal neutron porosity was processed at the field site for borehole fluid type (air versus water), and other environmental conditions, and didn't require any further processing. The thermal neutron porosity measurement was reprocessed for borehole conditions, although the results were very similar to the field logs. Thus, for further processing and analysis (e.g. ELAN analysis), the reprocessed thermal neutron porosity log was used, in addition to the field processed epithermal neutron porosity log.

The standard open hole processing algorithm used for the TLD density measurement is influenced by the steel density in cased hole. A cased hole density algorithm was applied to the raw TLD field measurements obtained in the short cased hole section of the log interval (32–80 ft.) to try to eliminate the casing response.

The raw ECS elemental yield measurements include the contribution of iron from steel casing and hydrogen from fluid in the borehole. The processing consists of subtracting these unwanted contributions from the raw normalized yields, then performing the normal elemental yields-to-weight fraction processing. The contribution to subtract is a constant baseline amount (or zoned constant values if there are bit/casing size changes), usually determined by comparing the normalized raw yields in zones directly below/above the borehole fluid/casing change. The ECS log from R-28 has a short cased hole section (50–78 ft), for which casing corrections were applied. At the time of the ECS logging in R-28 the borehole water level was 887 ft; no hydrogen correction was required in the air-filled section above 887 ft and the difference between the hydrogen yield above and below this depth was used to determine the baseline borehole hydrogen correction to apply below.

The NGS spectral gamma ray are affected by the material (fluid, air, casing) in the borehole because different types and amounts of these materials have different gamma ray shielding properties; the NGS measures incoming gamma rays emitted by radioactive elements in the formation surrounding the borehole. The processing algorithms try to correct for the damping influence of the borehole material. The NGS logs from R-28 were reprocessed to fully account for the environmental effects of the borehole fluid (drilling mud and air), hole size, and casing (the latter above 80 ft). There is a very large, likely erroneous, aberration in both the raw and processed NGS results across the interval 52–85.5 ft. The cause of the aberration is unknown, but the gross gamma ray logs from the other tool runs do not exhibit the same unusual response – indicating the NGS response is in error.

The measurements cannot be fully corrected for borehole washouts or rugosity between casing and the formation, since the specific characteristics of these features (e.g., geometry) are unknown and their effects on the measurements often too significant to account for. Thus, the compromising effects of these conditions on the measurements, especially borehole washouts, should be accounted for in the interpretation of the log results.

Depth-Matching

Once the logs were environmentally corrected for the conditions in the borehole and the raw measurement reprocessing was completed, the logs from different tool runs were depth-matched to each other using the AIT-NGS tool run as the base reference. The gross gamma ray tool (GR) was used as the common correlation log measurement for depth-matching the different runs.

Integrated Log Analysis

An integrated log analysis, using as many of the processed logs as possible, was performed to model the near-wellbore substrate lithology/mineralogy and pore fluids. This analysis was performed using the Elemental Log Analysis (ELAN*) program (Mayer and Sibbit, 1980; Quieren et al, 1986) – a petrophysical interpretation program designed for depth-by-depth quantitative formation evaluation from borehole geophysical logs. ELAN estimates the volumetric fractions of user-defined rock matrix and pore constituents at each depth based on the known log measurement responses to each individual constituent by itself[1]. ELAN requires an a priori specification of the volume components present within the formation; fluids, minerals, and rocks. For each component, the relevant response parameters for each measurement are also required. For example, if one assumes that quartz is a volume component within the formation and the bulk density tool is used, the bulk density parameter for this mineral is well known to be 2.64 g/cc.

The logging tool measurements, volume components, and measurement response parameters used in the ELAN analysis for R-28 are provided in Table 3.1. The final results of the analysis – an optimized mineral-fluid volume model – are shown on the integrated log montage (see Appendix C), 3rd track from the right (inclusive of the depth track). To make best use of all the measurement data and to perform the analysis across as much of the well interval as possible (63–1163 ft.), as many as possible of the processed logs were included in the analysis, with less weighting applied to less robust logs. Not all the tool measurements shown in Table 3.1 are used for the entire interval analyzed, as not all the measurements are available, or of good quality, across certain sections of the borehole. To accommodate fewer tool measurements certain model constituents are removed from the analysis in some intervals. Most notably, within the cased interval (above 80 ft) many of the minerals had to be removed from the model due to the absence of many of the logs.

The ELAN analysis was performed with as few constraints or prior assumptions as possible. A considerable effort was made to choose a set of minerals or mineral types for the model that is representative of Los Alamos area geology and it's volcanic origins. No prior assumption is made about water saturation—where the boundary between saturated and unsaturated zones lies (e.g. the depth to the top of the regional aquifer or perched zones). Thus, the presence and amount of air in the pore space is unconstrained. Total porosity and water-filled porosity are also left unconstrained throughout the analysis interval. Thus, interpretations should be made from the ELAN results with the understanding that the mineral-fluid model represents a mathematically optimized solution that is not necessarily a physically accurate representation of the native geologic formation. Within this context, the ELAN model is a robust estimate of the bulk mineral-fluid composition that accounts for the combined response from all the geophysical measurements.

*Mark of Schlumberger

[1]Mathematically this corresponds to an inverse problem – solving for constituent volume fractions from an (over)determined system of equations relating the measured log results to combinations of the tool measurement response to individual constituents

Table 3.1
Tool measurements, volumes, and respective parameters used in the R-28 ELAN analysis.

Volume / Tool Measurement	Air	apillary Bound ater	Water	Hornblende	Hypersthene	Labradorite	Silica Glass	eavy Mafic inerals	Augite	Montmorillinite	Pyrite	rthoclase / anidine	Calcite	Quartz
Bulk density (g/cc)	–0.14	1.0 0	1.00	3.11	3.55	2.65	2.33	4.0	3.08	2.1	4.99	2.58 2.56		2.64
Epithermal neutron porosity (ft^3/ft^3)	-0.02	1.0 0	1.00	0.05	0.01	-0.01	0.0	0.02	-0.01	0.6	0.17	-0.01	0.0	-0.047
Thermal neutron porosity (ft^3/ft^3)	–0.05	1.0 0	1.00	0.06	0.04	-0.01	0.0	0.07	0.02	0.65	0.01	-0.01	0.0	-0.073
Volumetric photoelectric effect	0	0	0.40	12	20.2	7	4.2	65	23.8	4.4	82.1	7.3 7.0	14.1	4.8
Total CMR water-filled porosity (ft^3/ft^3)	0	1.0	1.0	0	0	0	0	0	0	0.425	0	0	0	0
CMR bound fluid volume (ft^3/ft^3)	0	1.0	0	0	0	0	0	0	0	0.425	0	0	0	0
Resistivity (ohm-m)	Very high	30	30	Very high	Very high	Very high	Very high	Very high	Very high	1.06	Very high	Very high	Very high	Very high
Dry weight silicon (lbf / lbf)	0.0	0.0	0.0	0.21	0.24	0.24	0.47	0.18	0.23	0.26	0	0.3 0.38	0	0.47
Dry weight calcium (lbf / lbf)	0.0	0.0	0.0	0.09	0.0	0.09	0.0	0.0	0.10	0.01	0.0	0.0	0.405	0.0
Dry weight iron (lbf / lbf)	0.0	0.0	0.0	0.08	0.20	0.02	0.0	0.22	0.11	0.04	0.47	0.02	0.0	0.0
Dry weight sulfur (lbf / lbf)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.53	0.0	0.0	0.0
Dry weight titanium (lbf / lbf)	0.0	0.0	0.0	0.005	0.01	0.0	0.0	0.0	0.048	0.0	0.0	0.0	0.0	0.0
Dry weight aluminum (lbf / lbf)	0.0	0.0	0.0	0.07	0.0	0.16	0.0	0.0	0.02	0.11	0.0	0.10	0.0	0.0
Wet weight potassium (lbf / lbf)	0.0	0.0	0.0	0.01	0.0	0.0	0.0	0.0	0.003	0.005	0.0	0.102	0.0	0.0
Weight water (lbf / lbf)	0.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.18	0.0	0.0	0.0	0.0
Wet weight thorium(ppm)	0.0	0.0	0.0	50	25	3	2	4	20	24	0	5.5	0.0	2
Clay bound water volume (ft^3/ft^3)	0	0	0	0	0	0	0	0	0	0.425	0	0		0

4.0 RESULTS

Preliminary results from the wireline geophysical logging measurements acquired by Schlumberger in R-28 were generated in the logging truck at the time the geophysical services were performed and are documented in field logs provided on-site. However, the measurements presented in the field results are not fully corrected for undesirable (from a measurement standpoint) borehole and geologic conditions and are provided as separate, individual logs. The field log results have been processed (1) to correct/improve the measurements, as best as possible, for borehole/formation environmental conditions and (2) to depth-match the logs from different tool runs in the well. Additional logs were generated from integrated analysis of processed measured logs, providing valuable estimates of key geologic and hydrologic properties.

The processed log results are presented as continuous curves of the processed measurement versus depth and are displayed as (1) one page, compressed summary log displays for selected directly related sets of measurements (see Figures 4.1, 4.2, and 4.3) and (2) an integrated log montage that contains all the key processed log curves, on depth and side by side (see attached CD). The summary log displays address specific characterization needs, such as moisture content, water saturation, and lithologic changes. The purpose of the integrated log montage is to present, side by side, all the most salient reprocessed logs and log-derived models, depth-matched to each other, so that correlations and relationships between the logs can be identified.

Important results from the processed geophysical logs in R-28 are described below.

Well Water Level

The standing water level in R-28 was stable during the December 10, 2004 logging, remaining between 888–890 ft below ground surface for all four logging runs.

Regional Aquifer

The processed log results strongly suggest that R-28 penetrates a fully water-saturated zone at the bottom of the well – possibly the regional aquifer – below approximately 890 ft. The estimated pore volume water saturation[2] computed from the ELAN integrated log analysis is high (mostly over 80%) from 890 ft to the bottom of the log interval (1002 ft). There is a sharp increase in the estimated water saturation from 42% at 887 ft to 100% at 890 ft – coinciding with the well water level at the time of logging. It is quite possible that the standing water in the well is influencing the response of the shallow-reading porosity logs by saturating the pore space surrounding the borehole – thus altering the natural conditions within the measurement volume of investigation. However, additional evidence that this zone is fully saturated with water is provided by the AIT resistivity logs. The five resistivity logs with different depths of investigation, varying from 10 in to 90 in, all overlap – indicative of consistent water saturation conditions from the near borehole to deep (90 in) into the surrounding formation. Directly above this interval the different resistivity logs are also generally trending together, although not as consistently; by 815 ft the resistivity curves start to separate significantly. Based on the resistivity response, it is possible the interval 815–890 ft is also saturated with water, but the

[2] Water saturation is defined in this report as the volumetric fraction of the total pore space occupied by water – the rest being occupied by air.

other logs that are sensitive to water exhibit low water content and, thus, low water saturation (the ELAN water saturation estimate is less than 40%).

Water-filled and total porosity[3] mostly ranges 25–40% across this interpreted saturated interval below 890 ft, reaching values as high as 50–60% in severe borehole washouts. Moveable water content (effective porosity) is high as well, ranging 12–20% of total rock volume, reaching 30–45% in the severe washouts. The highest total and effective porosity, besides erroneously high values across obvious washouts, occurs at the bottom of the well in the zone 932–1000 ft, reaching 40% and 20%, respectively, of total rock volume. Hydraulic conductivity, estimated from the ELAN analysis, varies mostly between about one to10 gal/day/ft^2 across this interval.

Vadose Zone Perched Water

The processed logs indicate a significant decrease in water content, from 40% of total rock volume at 893 ft to 18% at 887 ft and 10% at 879 ft, likely corresponding to a transition from fully water-saturated conditions below to a vadose zone above. Unsaturated conditions in the interval above 890 ft are corroborated by a sharp almost 60% decrease in the ELAN water saturation estimate from 890 ft to 887 ft. The estimated water saturation stays mostly below 40% up to 737 ft. In the remainder of the section above 737 ft the processed logs indicate some zones of higher water saturation, but no significant fully water saturated zones. The ELAN water saturation estimate rises above 60% in the zone 465–516 ft, but this zone has low porosity (less than 10% of total rock volume) and water content – likely corresponding to a dense, competent section of a basalt lava bed.

ELAN estimated water-filled porosity averages 8–13% of total rock volume in the interval 687–879 ft, with a sharp peak of over 30% at 832 ft that is coincident with a sharp borehole washout. The total porosity (air plus water) ranges 20–30%. Moveable water content generally ranges only 2–5% of total rock volume across this interval, except over 30% at 832 ft (an artifact of the washout).

In the depth interval 545–687 ft the ELAN water-filled porosity varies significantly, with zones of higher water content at:

- 545–563 ft: Water-filled porosity increases from 10% at 545 ft to 15% at 687 ft. Moveable water content ranges 5–12%, reaching 12% at 687 ft. This zone also has much higher total porosity than the surrounding section (generally 30–40% of total rock volume) – likely corresponding to a "broken-up" rubble zone within a basalt lava sequence;
- 594–614 ft: Water-filled porosity reaches 27% (mostly 15–20%) and moveable water content reaches 13%. The zone is characterized by high total porosity (20–44%) – likely a rubble zone within a basalt lava sequence;
- 624–630 ft: Water-filled porosity reaches 23% and moveable water content 10% – coinciding with an increase in total porosity to 34%;
- 656–687 ft: Water-filled porosity reaches 23% (mostly 12–18%) and moveable water content reaches 10% at 660 ft. The ELAN analysis identifies this zone as the bottom of a basalt lava sequence with a clay-rich bed lying below (673–688 ft).

[3] Water-filled porosity is defined in this report as the fraction of the total rock volume occupied by water. Total porosity is defined as fraction of the total rock volume occupied by water plus air, plus any other fluid or gas (non-solid).

In the interval 348–545 ft the water-filled porosity is consistently low, ranging 5–8% of total rock volume, except a little higher (reaching 11%) in the zone 365–378 ft. The ELAN estimated moveable water content is about 5% of total rock volume. This interval is fully within a basalt lava sequence (as identified from the ELAN analysis).

The interval 318–348 ft, corresponding to the top of the above-mentioned basalt lava sequence, contains several peaks of higher water-filled porosity:

- 318–320 ft: Water-filled porosity of 30% corresponds with a clay bed lying between the basalt below and the bottom of the Guaje Pumice Bed above – as inferred from the ELAN analysis;
- 323–333 ft: Water-filled porosity of 20–23% and negligible moveable water content, with a low porosity zone (10%) directly below – possibly acting as a vertical flow barrier. The zone is entirely basalt (as identified from the ELAN analysis);
- 340–348 ft: Water-filled porosity reaches 30%, with negligible moveable water content. The ELAN analysis identifies this zone as a silica-rich, non-basalt zone within the top of the basalt lava sequence.

The pumice/tuff sequence lying above the above-mentioned basalt – that extends up through most of the remainder of the logged interval (32–318 ft) – is characterized by considerably higher water-filled porosity, but generally low moveable water content. The zone 298–318 ft, likely corresponding to the Guaje Pumice Bed, has extremely high estimated total porosity (60%), but low estimated water-filled porosity (8%) – all of which is moveable water. Likely the very large borehole washout across this zone is contributing to a lower water content than is normally seen in the bottom of the Guaje Pumice Bed. Above this washed out zone the water-filled porosity jumps to 20% at 296 ft, then slowly decreases to 14% at 244 ft. Moveable water content is very low (2%) across this interval. There is an anomalous, high water-filled porosity zone at 205–235 ft, with estimated water-filled porosity of 32–42% and no moveable water. The zone has higher total porosity than the surrounding section, but is less washed out (the latter suggesting it is a true formation response). The nature of an anomalous zone is uncertain and requires further investigation. Above 200 ft the water-filled porosity is generally about 12%, with moveable water content of 3–4%, except it increases to 18% at 70–96 ft.

Geology

The processed geophysical log results delineate the geologic material and many of the formation contacts intersected by R-28. The generalized geologic stratigraphy observed from the logs – independent of any other information – across the logged interval is as follows (depth below ground surface):

- 32–204 ft: Porous volcanic tuff – characterized by high total porosity (40–50% of total rock volume), high sanidine and silica mineral/glass content;
- 204–235 ft: Very porous volcanic tuff/pumice – characterized by very high total porosity (52–57% of total rock volume), high water-filled porosity (32–42%), high sanidine content, and moderate silica mineral/glass and augite content;
- 235–298 ft: Porous volcanic tuff – characterized by high total porosity (46–52% of total rock volume), high sanidine and silica mineral/glass content;

- 298–315 ft: Very porous volcanic pumice/tuff – characterized by very high total porosity (60–64% of total rock volume), high sanidine and silica mineral/glass content;
- 315–320 ft: Clay-rich zone – characterized by relatively high total porosity (40% of total rock volume), and high clay content;
- 320–332 ft: Basalt lava, rubbly – characterized by moderate total porosity (30–40% of total rock volume), high plagioclase content, and relatively high heavy mafic mineral content;
- 332–340 ft: Basalt lava, competent – characterized by low total porosity (8% of total rock volume), high plagioclase content, and relatively high heavy mafic mineral content;
- 340–346 ft: Likely very porous interflow zone – characterized by very high total porosity (53% of total rock volume), high silica mineral/glass and potassium feldspar ;
- 346–384ft: Basalt lava, rubbly – characterized by high total porosity (30–50% of total rock volume), high plagioclase content, relatively high heavy mafic mineral content, and minor amounts of clay;
- 384–470 ft: Basalt lava, competent – characterized by relatively low total porosity (15–20% of total rock volume), high plagioclase content, and relatively high heavy mafic mineral content;
- 470–541 ft: Basalt lava, very competent – characterized by very low total porosity (6–12% of total rock volume), high plagioclase content, and relatively high heavy mafic mineral content;
- 541–564 ft: Basalt lava, rubbly – characterized by high total porosity (30–50% of total rock volume), high plagioclase content, and relatively high heavy mafic mineral content;
- 564–594 ft: Basalt lava, competent – characterized by relatively low total porosity (12–18% of total rock volume), high plagioclase content, and relatively high heavy mafic mineral content;
- 541–614 ft: Basalt lava, rubbly – characterized by high total porosity (30–45% of total rock volume), high plagioclase content, relatively high heavy mafic mineral content, and minor amounts of clay;
- 614–618 ft: Basalt lava, competent – characterized by relatively low total porosity (15–20% of total rock volume), high plagioclase content, and relatively high heavy mafic mineral content;
- 618–633 ft: Basalt lava, rubbly – characterized by relatively high total porosity (30–35% of total rock volume), high plagioclase content, relatively high heavy mafic mineral content, and minor amounts of clay;
- 633–675 ft: Basalt lava, relatively competent – characterized by relatively low total porosity (15–25% of total rock volume), high plagioclase content, and relatively high heavy mafic mineral content;
- 675–689 ft: Clay-rich, heterogeneous material, possibly fanglomerate – characterized by moderate total porosity (20–30% of total rock volume), moderate to high clay content, moderate silica mineral/glass and potassium feldspar content;
- 689–890 ft: Variably clay-rich, heterogeneous material, possibly fanglomerate – characterized by moderate total porosity (25–35% of total rock volume), minor to moderate clay content, high silica mineral/glass and potassium feldspar content;
- 890–1000 ft: Porous, heterogeneous, silica-rich material, possibly fanglomerate – characterized by high total porosity (30–45% of total rock volume), high silica mineral/glass content and potassium feldspar content, and minor amounts of clay in some zones.

4.1 Summary Logs

Three summary log displays have been generated for R-28 to highlight the key hydrogeologic and geologic information provided by the processed geophysical log results:

- Porosity summary log showing continuous hydrogeologic property logs, including total and moveable water content and water saturation – to highlight hydrologic information obtained from the integrated log results (Figure 4.1);
- Density and clay content summary showing continuous logs of formation bulk density and estimated grain density, as well as photoelectric factor (sensitive to mineralogy) and estimated clay volume – to highlight key geologic rock matrix information obtained from the log results (Figure 4.2);
- Spectral natural gamma ray and lithology summary showing a high vertical resolution, continuous volumetric analysis of formation mineral and pore fluid composition (based on an integrated analysis of the logs) and key lithologic/stratigraphic correlation logs from the spectral gamma ray measurement (concentrations of gamma-emitting elements) – to highlight the geologic lithology, stratigraphy and correlation information obtained from the log results (Figure 4.3).

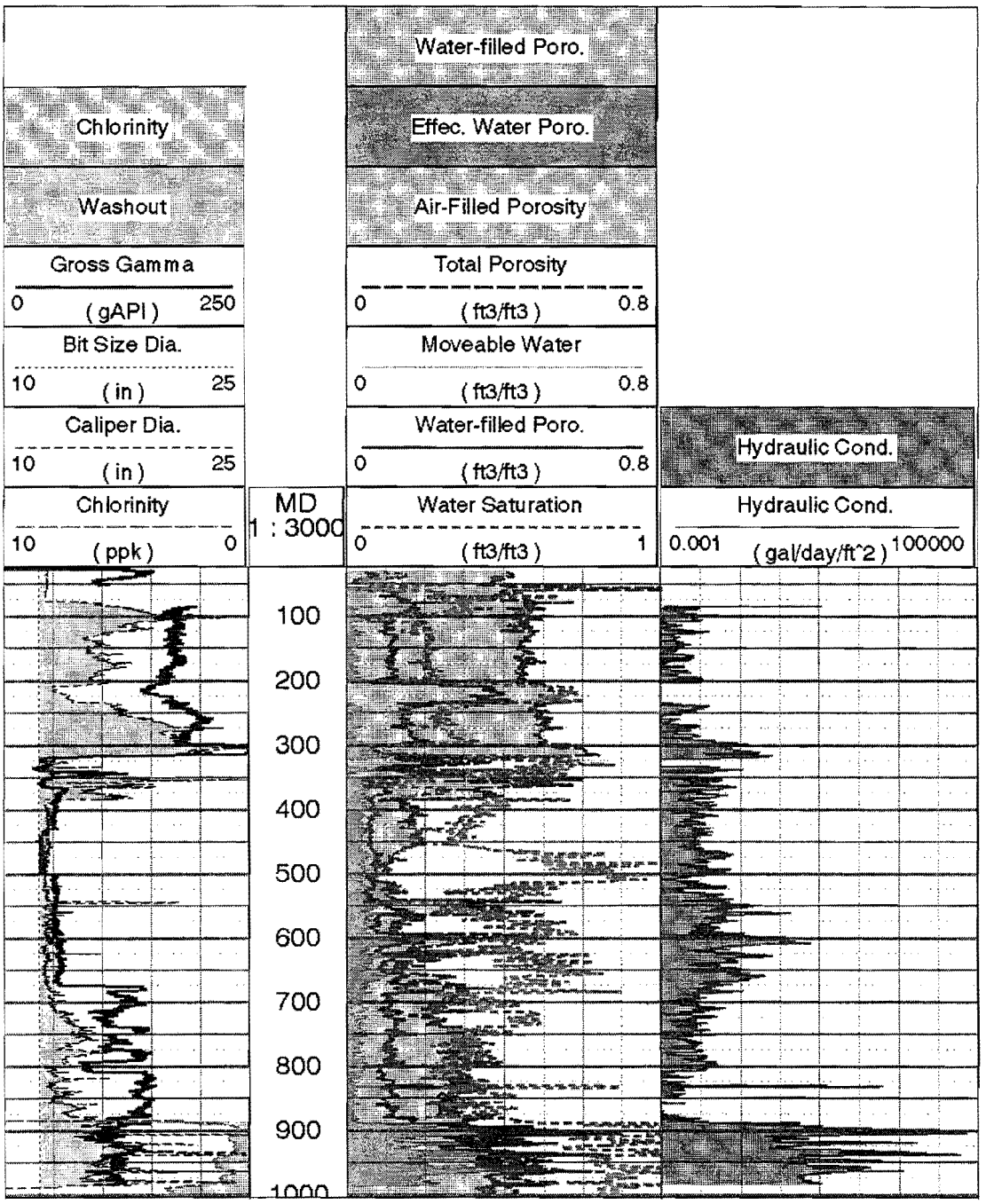

Figure 4.1. Summary porosity logs in R-28 borehole from processed geophysical logs, interval 31–1002 ft, with caliper, gross gamma, apparent chlorinity, water saturation, and water hydraulic conductivity logs. Porosity, water saturation, and hydraulic conductivity logs are derived from the ELAN integrated log analysis.

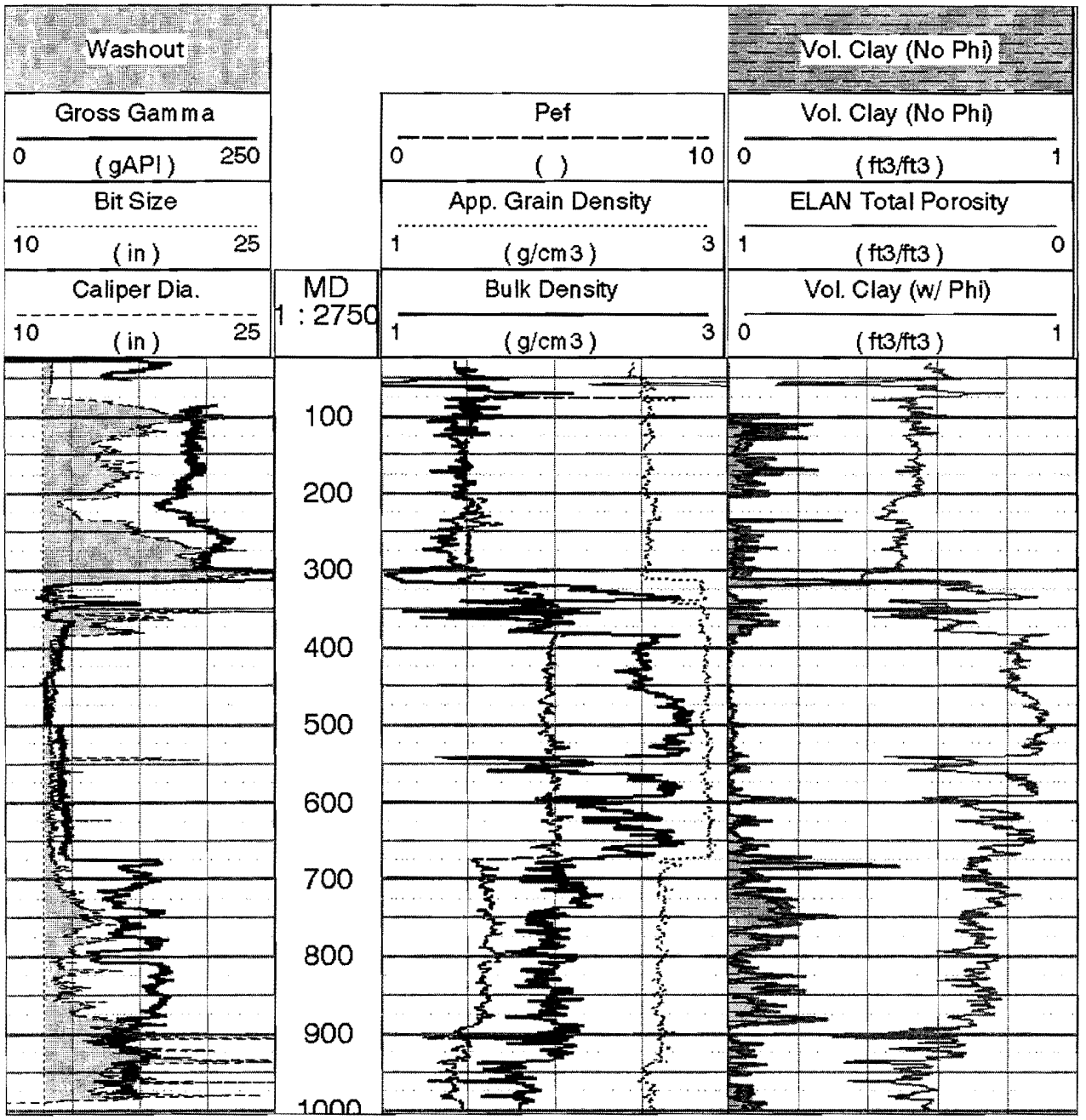

Figure 4.2. Summary bulk density and volume clay logs in R-28 borehole from processed geophysical logs, interval 38–992 ft. Also shown – caliper, gross gamma, apparent grain density, and total porosity logs (the latter two derived from the ELAN analysis).

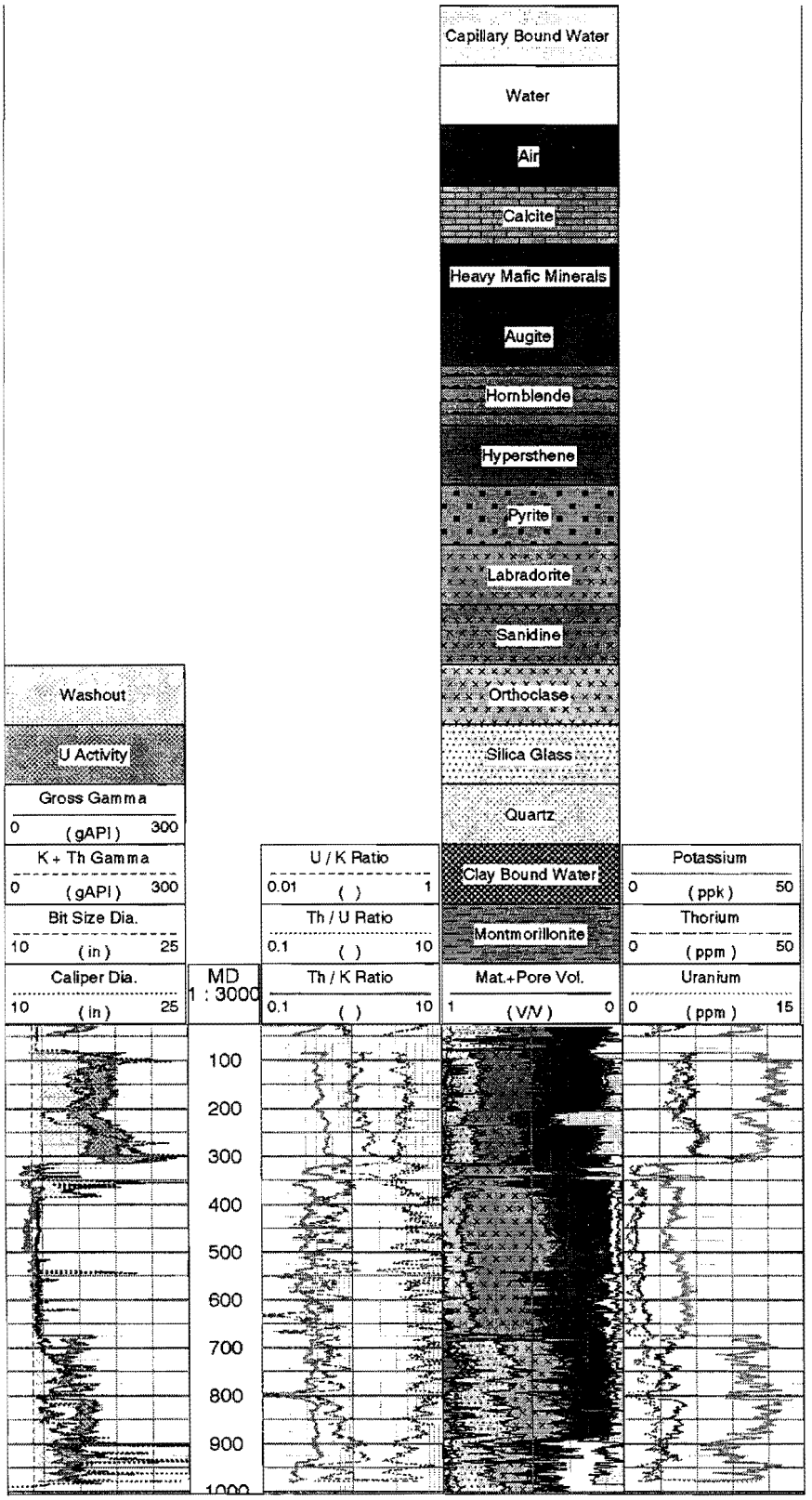

Figure 4.3. Summary spectral natural gamma ray logs and ELAN mineralogy/lithology and pore fluid model from R-28 borehole, interval 30–1002 ft. Caliper log is also shown.

4.2 Integrated Log Montage

This section summarizes the integrated geophysical log montage for R-28. The montage is provided on the CD included in Appendix C. A description of each log curve in the montage follows—organized under the heading of each track, starting from track 1 on the left-hand side of the montage. Note that the descriptions in this section focus on what the curves are and how they are displayed; the specific characteristics and interpretations of the R-28 geophysical logs are provided in the previous section.

Track 1–Depth

The first track on the left contains the depth below ground surface in units of feet, as measured by the geophysical logging system during the AIT logging run. All the geophysical logs are depth-matched to the spectral gross gamma measurement run with the AIT.

Track 2–Basic Logs

The second track on the left (inclusive of the depth track) presents basic curves:

- gamma ray (thick black), recorded in API units and displayed on a scale of 0 to 300 API units;
- two calipers from the FMI (thin dotted and dashed pink) and one from the TLD (thin solid pink) with bit size as a reference (dashed-dotted black) to show washout (pink shading), recorded as hole diameter in inches and displayed on a scale of 10 to 25 in.;
- spontaneous potential or SP (dashed red – valid only below the borehole water level), recorded in millivolts and displayed on a relative scale;
- bulk chlorinity (dashed green with green shading), recorded in parts per thousand (ppk) and displayed on a scale of 10 to 0 ppk (left to right);
- borehole deviation displayed as a tadpole every ten feet (light blue dots and connected line segments) – the "head" marks the angular deviation from vertical at that particular depth, on a scale of zero to 5 degrees, and the "tail" shows the azimuth of the deviation, true north represented by the tail facing straight towards the top of the page.

Two gamma ray curves from the NGS are presented:

- total gross gamma (thick solid black curve) and
- gross gamma minus the contribution of uranium (dashed black).

Track 3–Resistivity

The third track displays the resistivity measurements from the AIT, spanning most of the open hole section. All the resistivity logs are recorded in units of ohmmeters and displayed on a logarithmic scale of 2 to 2000 ohm-m.

Six electrical resistivity logs from the AIT are displayed:

- Borehole fluid resistivity (solid orange curve)–only valid in water-filled hole
- Bulk electrical resistivity at five median depths of investigation–10 in. (black solid), 20 in. (long-dashed blue), 30 in. (short-dashed red), 60 in. (dashed-dotted green), and 90 in. (solid purple)–each having a two-foot vertical resolution.

The area between the 10 in. and 90 in. resistivity curves, representing radial variations in bulk resistivity (potentially from invasion of drilling fluids), is shaded:

- blue when the 10 in. resistivity is greater than the 90 in. resistivity (labeled "resistive invasive") and
- yellow when the 90 in. resistivity is greater than the 10 in. resistivity (labeled "conductive invasive").

A high vertical resolution (~8 in.), shallow-reading (~2 in.) micro-resistivity log from the MCFL is also displayed in this track (solid pink curve).

Track 4–Porosity

The fourth track displays the primary porosity log results. All the porosity logs are recorded in units of volumetric fraction and displayed on a linear scale of 0.75 (left side) to negative 0.1 (right side). Specifically, these logs consist of

- CNT water-filled borehole thermal neutron porosity (solid sky blue curve)–thermal neutron porosity valid only in the water-filled borehole;
- CNT epithermal neutron porosity (solid light blue curve)–epithermal neutron porosity processed for both air-filled and water-filled hole;
- CMR total water-filled porosity (solid black);
- CMR effective water-filled porosity (dashed green);
- CMR bound water porosity (light blue area shading)–representing by the area between the CMR total and effective water-filled porosities;
- Total porosity derived from bulk density and neutron water-filled porosity using a grain density of 2.65/3.05 g/cc (dotted red curve), 2.45/2.85 g/cc (long-dashed red curve), and 2.25/2.65 g/cc (dashed red curve)–with red shading between the 2.25/2.65 and 2.65/3.05 g/cc saturation curves to show the range (the higher grain density used across the basalt interval); and
- ELAN water-filled porosity (dashed-dotted cyan)–derived from the ELAN integrated analysis of all log curves to estimate optimized matrix and pore volume constituents.

Track 5–Density

The fifth track displays the:

- bulk density (thick solid maroon curve) on a scale of 1 to 3 grams per cubic centimeter (g/cc);
- Pe (long-dashed black curve) on a scale of 0 to 10 non-dimensional units;
- density correction (dashed orange curve) on a scale of -0.75 to 0.25 g/cc; and
- apparent grain density (dashed-dotted brown curve), derived from the ELAN analysis, on a scale of 2 to 3 g/cc.

Grey area shading is shown where the Pe increases above 3 (indicating the presence of heavy, possibly mafic, minerals) and orange shading is shown where the density correction is greater than the absolute value of 0.25 (indicating the density processing algorithm had to perform a major correction to the bulk density calculation).

Track 6–NGS Spectral Gamma

The sixth track from the left displays the spectral components of the NGS measurement results as wet weight concentrations:

- potassium (solid green curve) in units of parts per thousand (ppk) and on a scale of -50 to 50 ppk;
- thorium (dashed brown) in units of parts per million (ppm) and on a scale of 50 to -50 ppm; and
- uranium (dotted blue) in units of parts per million (ppm) and on a scale of 20 to 0 ppm.

Track 7–CMR Porosity

Track 7 displays various CMR water-filled porosities along with measurement quality flags–valid only in the open hole section. The porosity and measurement quality logs are presented on a scale of 0.5 to zero volume fraction and discrete blocks originating from the left side, respectively. Specifically, the CMR logs shown in this track are:

- Total water-filled porosity (solid black curve)–representing the total water volume fraction measured by the CMR;
- Three millisecond (ms) porosity (short-dashed brown)–representing the water volume fraction corresponding to the portion of the CMR measured T2 distribution that is above 3 ms, a cutoff that is considered to be representative of the break between clay-bound water (less than 3 ms) and all other types of water (greater than 3 ms);
- Effective water-filled, or free fluid, porosity (solid pink)–representing the water volume fraction that is moveable (can flow), based on a 33 ms T2 distribution cutoff that is considered representative of the break between bound water (less than 33 ms) and moveable water (greater than 33 ms) in clastic rocks;
- Clay-bound water (brown area shading between total and 3 ms porosity logs)–representing the water volume fraction that is bound within clays;
- Capillary-bound water (pink area shading between 3 ms and effective porosity logs)–representing the water volume fraction that is bound within matrix pores by capillary forces;
- CMR wait-time flag (red area shading)–activates when there is significant measurement response at late T2 times, corresponding to large amounts of completely free ("bathtub") water and often associated with washouts or very large pores;
- CMR measurement noise flag (yellow and orange area shading)–activates when there is potentially detrimental amounts of measurement noise detected by the tool, at moderate (yellow) and high (orange) levels.

Track 8 –Pore Size Distribution

Track 8 displays the water-filled pore size distribution as determined by the CMR–shown as binned water-filled porosities and valid only in the open hole section. The binned porosity logs are presented on a scale of 0.5 to zero volume fraction with colored area shading corresponding to the different bins:

- Clay-bound water–brown area shading;
- Micro pore and small pore water (the sum comprising capillary-bound water)–gray and blue area shading, respectively;

- Medium pore, large pore, and late decay (the sum comprising effective water-filled porosity)–yellow, red, and green area shading, respectively.

Track 9–CMR T2 Distribution (Waveforms)

The CMR T2 distribution is displayed in Track 9 as green waveform traces at discrete depths. The horizontal axis, corresponding to relaxation time in milliseconds, is on a logarithmic scale from 0.3 to 3000 ms. Also plotted are the:

- T2 logarithmic mean (solid blue curve) and
- T2 cutoff time used for differentiating between bound and free water (solid red line)–a constant 33 ms in this case.

Track 10–CMR T2 Distribution (Heated Amplitude)

Track 10 displays the T2 distribution in another way–on a heated color scale where progressively "hotter" color (green to yellow to red) corresponds to increasing T2 amplitude. The remaining aspects of the display are the same as in Track 9, except that the T2 logarithmic mean is shown as a solid white curve and the T2 cutoff is not displayed.

Track 11–CMR Hydraulic Conductivity

Track 11 displays several estimates of hydraulic conductivity (K) derived from the CMR measurement and the ELAN integrated log analysis (the latter primarily sensitive to the CMR measurement of moveable water), presented on a logarithmic scale of 10^{-4} to 106 gallons per day per feet squared (gal/day/ft^2):

- A K versus depth estimate derived from using the SDR permeability equation applied to the processed CMR results, converted to hydraulic conductivity (dashed purple curve);
- A K versus depth estimate derived from using the Timur-Coates permeability equation with total and moveable water content derived from the ELAN analysis, converted to hydraulic conductivity (solid blue curve); and
- An intrinsic K versus depth estimate (assuming full saturation) using the Timur-Coates permeability equation with total and effective porosity values derived from the ELAN analysis, converted to hydraulic conductivity (dotted cyan).

Track 12– FMI Image (Dynamic Normalization)

Track 12 displays the FMI image, processed with dynamic normalization so that small-scale electrical resistivity features are amplified in the image. (With dynamic normalization the range of electrical resistivity amplitudes – colors in the image – is normalized across a small moving depth window.) The image is fully oriented and corresponds to the inside of the borehole wall unwrapped, such that the left-hand side represents true north, half-way across the image is south, and the right-hand side is north again. The four color tracks in the image correspond to portions of the borehole wall contacted by the four FMI caliper pads; the blank space in between is the portion of the borehole wall not covered by the pads.

Also displayed are the interpreted bed boundaries (thin blue sinusoids).

Track 13– FMI Bedding and Fractures

Track 13 displays the interpreted bed boundaries and fractures (no fractures were identified) picked from the FMI image, shown in two ways:

- Individually as tadpoles at the depths the bedding plane or fracture crosses the midpoint of the borehole – where the "heads" (circles/triangles) represent the dip angle and the "tails" (line segments) represent the true dip azimuth (direction the bed is dipping towards). Bed boundaries are shown as circular headed blue and black tadpoles and electrically conductive fractures are shown as red circular headed and black triangular headed tadpoles.
- Summed as dip azimuth rose histograms (green colored fan plots for bed boundaries) – where the number of bed boundaries having a dip direction within a particular sector are summed, thus highlighting the predominant dip directions.

Track 14– FMI Image (Static Normalization)

Track 14 displays the FMI image again, but in a different way – processed with static normalization to highlight larger scale features and trends. (With static normalization the range of electrical resistivity amplitudes – colors in the image – is normalized across the entire length of the log interval.)

Track 15– High Resolution Porosity

Track 15 displays the high resolution thermal neutron porosity log (solid blue) – spliced with standard resolution epithermal neutron porosity above the well water level – and the density porosity (solid red), the latter computed assuming a matrix grain density of 2.45/2.85 g/cc (the higher grain density across the basalt zone) and pore fluid density of 1.0 g/cc. Where the density porosity is greater than the neutron porosity the area between the two logs is shaded red. The red shading is an indication of air in the pore space (less than 100% water saturation).

Tracks 16 to 22 – Geochemical Elemental Measurements

The narrow tracks 16 to 22 present the geochemical measurements iron (Fe) and silicon (Si), sulfur (S) and calcium (Ca), potassium (K) and estimated aluminum (Al), titanium (Ti) and gadolinium (Gd), and hydrogen (H) and bulk chlorinity (Cl) —from left to right respectively, in units of dry matrix weight fraction (except H wet weight fraction, Cl and K in ppk).

Track 23–ELAN Mineralogy Model Results (Dry Weight Fraction)

Track 23 displays the results from the ELAN integrated log analysis (the matrix portion)– presented as dry weight fraction of mineral types chosen in the model:

- Montmorillonite clay (brown/tan)
- Quartz (yellow with small black dots)
- Silica glass (orange)
- Orthoclase or other potassium feldspar (lavender)
- Sanidine (violet)
- Labradorite or other plagioclase feldspar (pink)
- Hypersthene (purple)
- Hornblende (forest green)
- Augite (maroon)
- Heavy mafic/ultramafic minerals, such as magnetite or olivine (dark green)
- Pyrite (cross-hatched red).

Track 24–ELAN Mineralogy-Pore Space Model Results (Wet Volume Fraction)

Track 24 displays the results from the ELAN integrated log analysis–presented as wet mineral and pore fluid volume fractions:

- Montmorillonite clay (brown/tan)
- Clay-bound water (checkered gray-black)
- Quartz (yellow with small black dots)
- Silica glass (yellow with large black dots)
- Orthoclase or other potassium feldspar (lavender)
- Sanidine (violet)
- Labradorite or other plagioclase feldspar (pink)
- Pyrite (tan with large black squares).
- Hypersthene (purple)
- Hornblende (forest green)
- Augite (maroon)
- Heavy mafic minerals, such as magnetite (dark army green)
- Air (red)
- Moveable water (white)
- Capillary-bound water (light blue).

Track 25–Summary Logs

Track 24, the second track from the right, displays several summary logs that describe the fluid and air-filled volume measured by the geophysical tools, including water saturation:

- Optimized estimate of total volume fraction water from the ELAN analysis (solid dark blue curve and area shading);
- Optimized estimate of moveable volume fraction water (effective porosity in fully saturated conditions) from the ELAN analysis (dashed cyan curve and green area shading);
- Optimized estimate of total volume fraction of air-filled porosity from the ELAN analysis (solid red curve and dotted red area shading);
- Optimized estimate of water saturation (percentage of pore space filled with water) from the ELAN analysis (dashed-dotted purple curve);
- Water saturation as calculated directly from the bulk density and geochemical estimated porosity using a grain density of 2.65/3.05 g/cc (dotted light blue curve), 2.45/2.85 g/cc (long-dashed light blue curve), and 2.25/2.65 g/cc (dashed light blue curve)–with light blue shading between the 2.25/2.65 and 2.65/3.05 g/cc saturation curves to show the range;
- Integrated estimated relative water flow from the CMR log that mimics a flow meter (spinner) acquired under flowing conditions (solid green line coming from left-hand side at bottom of logged interval);
- Potential for water flow indicator from the CMR log (block cyan coming from the right-hand side of the track).

The porosity curves scale from 0 to 1 total volume fraction, left to right; the water saturation scales from 0 to 1 volume fraction of pore space, from left to right. The relative water flow is on a scale of 0 to 1 relative volumetric flow rate from left to right. The flow indicator is a binary-valued flag that rises to halfway through the first division from the right on the x-axis when the CMR measurement indicates a potential for flow.

Track 26–Depth

The final track on the right, same as the first track on the left, displays the depth below ground surface in units of feet, as measured by the geophysical logging system during the AIT-NGT logging run.

5.0 REFERENCES

Kenyon, B., R. Kleinberg, C. Straley, G. Gubelin, and C. Morris: 1995. "Nuclear Magnetic Resonance Imaging— Technology for the 21st Century." Oilfield Review, v. 7, n. 3, p. 19–33.

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Quirein, J., S. Kimminau, J. LaVigne, J. Singer, and F. Wendel. 1986. "A Coherent Framework for Developing and Applying Multiple Formation Evaluation Models." Paper DD in 27th Annual Logging Symposium Transactions: Society of Professional Well Log Analysts.

Schlumberger, Log Interpretation Charts 1998 (SMP-7006).

Schlumberger, Log Interpretation Principles/Applications 1989 (SMP 7017)

Schlumberger, Log Quality Control Manual. 1997

Schlumberger

GEOFRAME PROCESSED INTERPRETATION

Integrated Wireline Log Well Montage

Processed Results

* A Mark of Schlumberger

Using the following logs: CMR*, TLD*, CNT*
ECS*, NGT*
FMI*, AIT*

COMPANY:	Kleinfelder
WELL:	R-28
FIELD:	LANL Characterization and Monitoring Wells
COUNTY:	Los Alamos
STATE:	New Mexico
COUNTRY:	U.S.
Date Logged:	10-Dec-2003 Date Processed: Dec-2003
Well Location:	Easting: 1,038,357 ft.; Northing: 1,768,450 ft.
	Mortendad Canyon, LANL TA-5
Elevations:	KB: 6761.00 ft DF: 6760.00 ft GL: 6756.00 ft
API Number:	Job Number:

FOLD HERE — The well name, location, borehole reference data were furnished by the customer.

All interpretations are opinions based on inferences from electrical or other measurements and we cannot, and do not guarantee the accuracy or correctness of any interpretation, and we shall not, except in the case of gross or willful negligence on our part, be liable or responsible for any loss, costs, damages or expenses incurred or sustained by anyone resulting from any interpretations made by any of our officers, agents or employees. These interpretations are also subject to Clause 4 of our General Terms and Conditions as set out in our current Price Schedule.

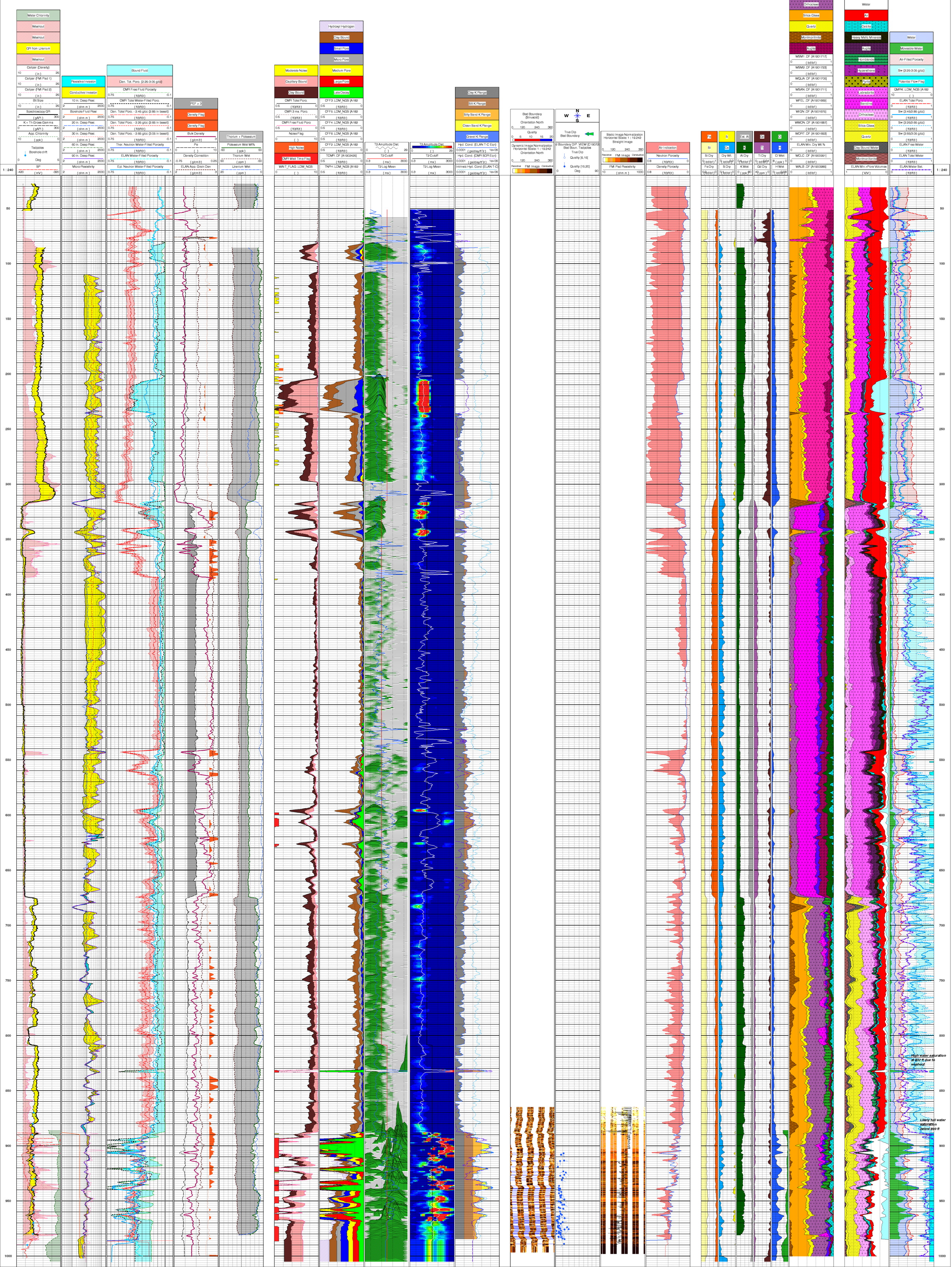
Field Recording:	Location:	Farmington	Software Version: 11C0-305	Engineer:	M. Sobkowicz & A.
Office Recording:	ICS Center:	SWS Sacramento	Baseline:	Log Analyst:	N. Clayton

Mud and Borehole Measurements:

Rm @ Measured temperature: 36.071 ohm.m@ 70 degF	BHT: 70.0 degF	Bitsize: 12.2 in
Rmf @ Measured temperature: 27.050 ohm.m@ 70 degF	Type Fluid in Hole	Air & Produced Water
Rmc @ Measured temperature: 54.110 ohm.m@ 70 degF	Mud Density: 8.34 lbm/gal	

Remarks:

AIT-NGT tool run is primary depth reference. Gross gamma ray log used as depth correlation.
Borehole filled with water/mud below 890 ft. at time of logging.
ELAN* integrated log analysis performed without porosity or water saturation constraints.
Summary hydrogeology results and interpretation shown in furthest right track.



```
~VERSION INFORMATION
VERS.           2.0   :CWLS Log ASCII Standard - VERSION 2.0
WRAP.           NO    :One Line per depth step
PROD.  Schlumberger   :LAS Producer
PROG.  DLIS to ASCII 11C0-305                          :LAS Program name and
version
CREA.        2004/02/27 17:20                          :LAS Creation date
{YYYY/MM/DD hh:mm}
SOURCE.     10605245_TLD_CNL_Main_004LUP.DLIS          :DLIS File Name
FILE-ID.     TLD_MCFL_CNL_004LUP                       :File Identification
Number
#-------------------------------------------------
~WELL INFORMATION
#MNEM.UNIT      DATA             DESCRIPTION
#---- ------ --------------   ----------------------------
STRT .F         1005.5       :START DEPTH
STOP .F           30.5       :STOP DEPTH
STEP .F           -0.5       :STEP
NULL .          -999.25      :NULL VALUE
COMP .        Kleinfelder                              :COMPANY
WELL .        R-28                                     :WELL
FLD  .        Mortendad Canyon, LANL TA-5              :FIELD
LOC  .        Easting: 1,038,357 ft.                   :LOCATION
CNTY .        Los Alamos                               :COUNTY
STAT .        New Mexico                               :STATE
CTRY .                                                 :COUNTRY
API  .                                                 :API NUMBER
UWI  .                                                 :UNIQUE WELL ID
DATE .        10-Dec-2003                              :LOG DATE {DD-MMM-YYYY}
SRVC .        Schlumberger                             :SERVICE COMPANY
LATI .DEG                                              :LATITUDE
LONG .DEG                                              :LONGITUDE
GDAT .                                                 :GeoDetic Datum
#-------------------------------------------------------------------------------
~PARAMETER INFORMATION
#MNEM.UNIT    VALUE                      DESCRIPTION
#---- -----   --------------------       ------------------------
RUN  .          1                        :RUN NUMBER
PDAT .        GROUND LEVEL               :Permanent Datum
EPD  .F         6756.000000              :Elevation of Permanent Datum above
Mean Sea Level
EPD  .F         6756.000000              :Elevation of tool zero above Mean Sea
Level
LMF  .          GROUND LEVEL             :Logging Measured From (Name of Logging
Elevation Reference)
APD  .F           0.000000               :Elevation of Depth Reference (LMF)
above Permanent Datum
#-------------------------------------------------------------------------------
~CURVE INFORMATION
#MNEM.UNIT   API CODE                                  DESCRIPTION
#---- -----  --------                                  ----------------------
DEPT .F                                                :DEPTH (BOREHOLE) {F10.1}
DPHZ .CFCF                                             :HRDD Standard Resolution
Density Porosity {F13.4}
ENPH .CFCF                                             :Epithermal Neutron
Porosity {F13.4}
GR   .GAPI                                             :Gamma Ray {F13.4}
```

```
HCAL .IN                                                    :HRCC Cal. Caliper
{F13.4}
HDRA .G/C3                                                  :HRDD Density Correction
{F13.4}
NPOR .CFCF                                                  :Enhanced Thermal Neutron
Porosity {F13.4}
PEFZ .                                                      :HRDD Standard Resolution
Formation Photoelectric Factor {F13.4}
RHOZ .G/C3                                                  :HRDD Standard Resolution
Formation Density {F13.4}
TENS .LBF                                                   :Cable Tension {F13.4}
#-------------------------------------------------------------------------------
#
#     DEPT        DPHZ         ENPH         GR           HCAL         HDRA
NPOR         PEFZ         RHOZ         TENS
#
~A
    1005.5     607.2121       0.6884      77.8859       4.8604    -999.2500
1.0619    -999.2500    -999.2500     112.0000
    1005.0     607.2121       0.6884      77.8859       4.8604    -999.2500
1.0619    -999.2500    -999.2500     112.0000
    1004.5     607.2121       0.6884      77.8859       4.8604    -999.2500
1.0619    -999.2500    -999.2500     113.0000
    1004.0     607.2121       0.6884      77.8859       4.8604    -999.2500
1.0619    -999.2500    -999.2500     114.0000
    1003.5     607.2121       0.6884      77.8859       4.8604    -999.2500
1.0619    -999.2500    -999.2500     113.0000
    1003.0     607.2121       0.6883      77.8859       4.8844    -999.2500
1.0619    -999.2500    -999.2500     121.0000
    1002.5     607.2121       0.6880      77.8859       4.9624    -999.2500
1.0619    -999.2500    -999.2500     128.0000
    1002.0     607.2121       0.6877      77.8859       5.0284    -999.2500
1.0619    -999.2500    -999.2500     133.0000
    1001.5     607.2121       0.6874      77.8859       5.0824    -999.2500
1.0619    -999.2500    -999.2500     134.0000
    1001.0     607.2121       0.6872      77.8859       5.1364    -999.2500
1.0619    -999.2500    -999.2500     135.0000
    1000.5     607.2121       0.6869      77.8859       5.1904       1.7615
1.0619       2.3714       1.7987     134.0000
    1000.0       0.5149       0.6867      77.8859       5.2324       1.3132
1.0619       2.3618       1.8003     139.0000
     999.5       0.5131       0.6865      77.8859       5.2844       0.6414
1.0619       2.3513       1.8034     135.0000
     999.0       0.5118       0.6862      77.8859       5.3344      -0.0314
1.0619       2.3451       1.8055     135.0000
     998.5       0.5123       0.6860      77.8859       5.3884      -0.0309
1.0619       2.3505       1.8047     128.0000
     998.0       0.5121       0.6856      77.8859       5.4604      -0.0310
1.0619       2.3499       1.8051     146.0000
     997.5       0.5124       0.6854      77.8859       5.5084      -0.0298
1.0619       2.3561       1.8045     149.0000
     997.0       0.5130       0.6850      77.8859       5.5804      -0.0289
1.0619       2.3562       1.8036     144.0000
     996.5       0.5120       0.6848      77.8859       5.6284      -0.0279
1.0619       2.3461       1.8052     149.0000
     996.0       0.5104       0.6844      77.8859       5.6943      -0.0278
1.0619       2.3326       1.8079     151.0000
```

995.5	0.5098	0.6842	77.8859	5.7483	-0.0290	1.0619	2.3310	1.8089	150.0000
995.0	0.5115	0.6839	77.8859	5.7883	-0.0313	1.0619	2.3477	1.8061	393.0000
994.5	0.5126	0.6836	77.8859	5.8443	-0.0315	1.0619	2.3717	1.8042	772.0000
994.0	0.5122	0.6833	77.8859	5.9083	-0.0303	1.0619	2.3831	1.8048	1193.0000
993.5	0.5127	0.6830	77.8859	5.9643	-0.0277	1.0619	2.3901	1.8040	1384.0000
993.0	0.5116	0.6827	77.8859	6.0123	-0.0282	1.0619	2.3731	1.8059	1283.0000
992.5	0.5110	0.6823	77.8859	6.0923	-0.0279	1.0619	2.3705	1.8069	1334.0000
992.0	0.5099	0.6820	77.8859	6.1443	-0.0274	1.0619	2.3649	1.8087	1213.0000
991.5	0.5098	0.6811	77.8859	6.3003	-0.0251	1.0619	2.3573	1.8089	1118.0000
991.0	0.5087	0.6759	77.8859	7.0562	-0.0241	1.0619	2.3310	1.8106	1120.0000
990.5	0.5052	0.6741	77.8859	7.2662	-0.0231	1.0619	2.3125	1.8164	1044.0000
990.0	0.4966	0.6662	77.8859	7.8842	-0.0206	1.0619	2.3116	1.8306	1049.0000
989.5	0.4827	0.6295	77.8859	12.4018	-0.0174	1.0621	2.3107	1.8536	1046.0000
989.0	0.4709	0.6282	77.8859	12.7798	-0.0156	1.0627	2.3047	1.8731	1014.0000
988.5	0.4651	0.5010	77.8859	13.1697	-0.0158	1.0632	2.2720	1.8826	929.0000
988.0	0.4742	0.4487	77.8859	13.1217	-0.0174	1.0631	2.2592	1.8677	953.0000
987.5	0.4847	0.3982	77.8859	13.3237	-0.0157	1.0634	2.2510	1.8503	1060.0000
987.0	0.4894	0.4480	77.8859	13.4277	-0.0137	1.3872	2.2606	1.8425	1067.0000
986.5	0.4795	0.4583	77.8859	14.1077	-0.0096	1.7484	2.2417	1.8588	1020.0000
986.0	0.4774	0.4608	77.8859	16.2535	-0.0071	0.6175	2.1268	1.8623	1058.0000
985.5	0.4945	0.4628	77.8859	17.1714	0.0072	0.4241	1.9549	1.8341	1045.0000
985.0	0.5239	0.4617	77.8859	17.6274	0.0408	0.3396	1.8141	1.7856	974.0000
984.5	0.5307	0.4812	77.8859	17.4754	0.0790	0.3430	1.8382	1.7744	1000.0000
984.0	0.5192	0.4707	77.8859	15.7955	0.0843	0.3644	1.9918	1.7934	1001.0000
983.5	0.5002	0.4709	77.8859	16.8674	0.0587	0.3334	2.0976	1.8247	980.0000
983.0	0.5133	0.4632	77.8859	15.6435	0.0310	0.3647	2.0104	1.8030	1058.0000
982.5	0.5740	0.4553	77.8859	16.8115	0.0262	0.3348	1.7960	1.7028	1042.0000
982.0	0.6435	0.4562	77.8859	16.8475	0.0413	0.3343	1.7094	1.5882	989.0000

981.5	0.6444	0.4437	77.8859	20.6511	0.0545	0.3453	1.7828	1.5868	995.0000
981.0	0.5783	0.4586	77.8859	22.1230	0.0547	0.3325	1.9266	1.6959	1024.0000
980.5	0.5091	0.4552	77.8859	22.2830	0.0415	0.3335	1.9605	1.8101	974.0000
980.0	0.4998	0.4697	77.8859	18.3793	0.0293	0.3622	1.9832	1.8253	992.0000
979.5	0.5196	0.4553	77.8859	15.3476	0.0218	0.3725	1.9926	1.7926	915.0000
979.0	0.5299	0.4507	77.8859	15.0836	0.0230	0.3995	2.0218	1.7757	993.0000
978.5	0.5276	0.4363	77.8859	14.9636	0.0255	0.3929	2.0186	1.7794	1019.0000
978.0	0.5245	0.4346	77.8859	15.6475	0.0327	0.3648	1.9993	1.7845	1000.0000
977.5	0.5260	0.4134	77.8859	18.2033	0.0410	0.3813	1.9734	1.7821	973.0000
977.0	0.5255	0.4175	77.8859	16.1515	0.0499	0.3822	1.9828	1.7829	966.0000
976.5	0.5135	0.4210	77.8859	15.8995	0.0506	0.3746	2.0469	1.8028	1000.0000
976.0	0.4799	0.4342	77.8859	15.3476	0.0439	0.3843	2.1357	1.8582	988.0000
975.5	0.4540	0.4577	77.8859	14.9236	0.0275	0.3569	2.2005	1.9009	989.0000
975.0	0.4377	0.4455	77.2230	14.8916	0.0198	0.3643	2.2352	1.9277	986.0000
974.5	0.4475	0.4172	79.3355	14.8796	0.0123	0.3654	2.2298	1.9116	1014.0000
974.0	0.4585	0.4049	80.3036	14.8356	0.0103	0.3571	2.1918	1.8934	985.0000
973.5	0.4689	0.4170	82.1428	14.7556	0.0116	0.3518	2.1418	1.8764	995.0000
973.0	0.4746	0.4261	84.4320	14.9636	0.0144	0.3780	2.1056	1.8668	1002.0000
972.5	0.4794	0.4122	86.3564	14.9636	0.0146	0.3360	2.0928	1.8591	988.0000
972.0	0.4780	0.3892	89.4931	15.1076	0.0163	0.3500	2.1106	1.8613	1042.0000
971.5	0.4755	0.3911	86.0305	15.1676	0.0202	0.3717	2.1493	1.8654	1052.0000
971.0	0.4751	0.4281	83.5351	15.3476	0.0262	0.3489	2.1844	1.8662	981.0000
970.5	0.4875	0.4528	79.4323	15.3236	0.0264	0.3830	2.1929	1.8456	937.0000
970.0	0.4941	0.4788	80.1227	15.5396	0.0250	0.3908	2.1812	1.8348	910.0000
969.5	0.4849	0.5184	81.3336	15.6595	0.0230	0.3423	2.1753	1.8499	970.0000
969.0	0.4691	0.5433	80.5260	15.7555	0.0218	0.3537	2.1784	1.8760	941.0000
968.5	0.4654	0.5624	82.2898	15.7075	0.0192	0.3445	2.1689	1.8821	947.0000
968.0	0.4831	0.5119	79.9957	15.7475	0.0182	0.3315	2.1241	1.8529	986.0000

967.5	0.5002	0.5053	81.5630	15.9475	0.0311	0.4075	2.0832	1.8246	979.0000
967.0	0.5061	0.5123	78.6965	16.4355	0.0528	0.3736	2.0863	1.8149	900.0000
966.5	0.4989	0.5291	84.8819	16.4995	0.0706	0.3854	2.0939	1.8268	869.0000
966.0	0.4963	0.6513	85.3751	20.4592	0.0769	0.3872	2.0586	1.8312	1047.0000
965.5	0.5166	0.6358	85.0207	20.0032	0.0815	0.4129	2.0517	1.7975	1029.0000
965.0	0.5277	0.6660	81.2198	19.3433	0.0890	0.3922	2.0682	1.7793	1058.0000
964.5	0.5277	0.6184	77.5545	18.1234	0.0878	0.3491	2.0588	1.7792	919.0000
964.0	0.5560	0.5983	79.1721	17.7874	0.0628	0.3824	1.8240	1.7326	898.0000
963.5	0.6340	0.6077	77.8902	24.6948	0.0417	0.4537	1.5070	1.6039	960.0000
963.0	0.7244	0.5651	81.4401	20.2792	0.0390	0.5541	1.3919	1.4547	966.0000
962.5	0.7130	0.5583	83.4025	18.4593	0.0547	0.4583	1.5009	1.4735	969.0000
962.0	0.6385	0.4992	91.8531	16.7795	0.0504	0.3596	1.7766	1.5965	968.0000
961.5	0.5542	0.4573	103.8148	17.3154	0.0320	0.3560	1.9449	1.7355	1007.0000
961.0	0.5256	0.4786	113.4723	17.6274	0.0152	0.3590	2.0808	1.7827	981.0000
960.5	0.5144	0.4812	116.7874	17.1834	0.0198	0.3667	2.1646	1.8013	979.0000
960.0	0.5022	0.4685	115.8661	16.7235	0.0277	0.3574	2.2173	1.8214	971.0000
959.5	0.4809	0.4336	114.8750	17.5474	0.0388	0.3258	2.2231	1.8565	1008.0000
959.0	0.4576	0.3821	117.1621	18.3233	0.0560	0.3223	2.1432	1.8950	1024.0000
958.5	0.4662	0.4173	118.7443	18.0714	0.0685	0.3694	2.0519	1.8808	910.0000
958.0	0.4849	0.4315	122.0057	16.8435	0.0788	0.3642	1.9893	1.8499	919.0000
957.5	0.5334	0.4617	123.9895	16.1235	0.0625	0.4139	2.0098	1.7698	938.0000
957.0	0.5500	0.4496	122.5108	15.8635	0.0447	0.3833	2.0412	1.7425	960.0000
956.5	0.5633	0.4433	121.3026	15.7435	0.0198	0.4252	2.0733	1.7205	998.0000
956.0	0.5436	0.4375	119.7203	15.7075	0.0116	0.3708	2.0955	1.7531	1027.0000
955.5	0.5230	0.4216	121.9251	16.0035	0.0085	0.3307	2.1348	1.7871	1031.0000
955.0	0.5062	0.4130	122.4513	15.6835	0.0063	0.3104	2.1566	1.8147	1018.0000
954.5	0.5068	0.3904	127.0356	15.5516	0.0039	0.3196	2.1704	1.8137	963.0000
954.0	0.5116	0.4150	125.7255	15.4196	0.0051	0.3649	2.1784	1.8059	861.0000

953.5	0.5136	0.3919	127.4430	15.4316	0.0086	0.3621	2.1969	1.8026	882.0000
953.0	0.5055	0.3888	119.1023	15.5156	0.0143	0.3398	2.2045	1.8159	915.0000
952.5	0.5054	0.3735	119.4876	15.4676	0.0144	0.3299	2.1729	1.8161	910.0000
952.0	0.5103	0.4057	116.9024	16.1795	0.0190	0.3658	2.1392	1.8081	898.0000
951.5	0.5317	0.4494	121.8836	15.3476	0.0177	0.3714	2.0853	1.7726	897.0000
951.0	0.5590	0.5104	121.3381	15.4516	0.0169	0.3633	2.0524	1.7276	920.0000
950.5	0.5933	0.5226	118.3590	15.6955	0.0087	0.3886	2.0296	1.6710	940.0000
950.0	0.6067	0.4981	117.8837	15.5156	0.0058	0.3855	2.0394	1.6489	979.0000
949.5	0.5934	0.4612	115.3600	15.7915	0.0075	0.3541	2.0441	1.6708	973.0000
949.0	0.5749	0.3873	120.5947	15.6116	0.0103	0.3508	2.0074	1.7015	1003.0000
948.5	0.5819	0.4096	120.0153	15.8835	0.0120	0.3784	1.9475	1.6899	987.0000
948.0	0.6151	0.4155	122.4169	16.0275	0.0139	0.3888	1.9114	1.6352	926.0000
947.5	0.6412	0.5463	119.5358	15.8835	0.0183	0.3929	1.9284	1.5920	971.0000
947.0	0.6347	0.4996	119.5978	15.6475	0.0226	0.3357	1.9706	1.6028	991.0000
946.5	0.5977	0.5013	121.3071	15.7315	0.0251	0.3393	2.0090	1.6638	998.0000
946.0	0.5569	0.4841	119.7365	16.4635	0.0256	0.4050	2.0471	1.7310	1013.0000
945.5	0.5256	0.5195	117.9334	15.9715	0.0243	0.3427	2.0886	1.7827	952.0000
945.0	0.5074	0.4772	118.0165	16.1875	0.0206	0.3221	2.1298	1.8127	905.0000
944.5	0.4953	0.4574	122.8768	16.1635	0.0180	0.3191	2.1605	1.8328	930.0000
944.0	0.4951	0.4155	125.0940	16.1635	0.0149	0.3274	2.1730	1.8332	905.0000
943.5	0.5029	0.4430	129.1922	16.2355	0.0131	0.3616	2.1723	1.8203	943.0000
943.0	0.5119	0.4528	127.2934	16.3555	0.0135	0.3740	2.1675	1.8053	937.0000
942.5	0.5123	0.4902	125.8031	16.0315	0.0189	0.3741	2.1671	1.8047	915.0000
942.0	0.5110	0.4655	120.7699	17.2434	0.0255	0.3459	2.1691	1.8069	936.0000
941.5	0.5108	0.4368	123.2319	16.3955	0.0276	0.2858	2.1609	1.8072	963.0000
941.0	0.5133	0.4135	120.2327	16.4915	0.0257	0.3365	2.1469	1.8031	982.0000
940.5	0.5226	0.4441	114.8786	16.6555	0.0194	0.3604	2.0496	1.7877	938.0000
940.0	0.5599	0.4957	107.0230	17.0394	0.0175	0.3732	1.8724	1.7262	876.0000

939.5	0.6223	0.6143	103.2992	22.1150	0.0218	0.4578	1.7002	1.6232	885.0000
939.0	0.6618	0.6504	96.9068	22.8230	0.0370	0.4735	1.6759	1.5581	936.0000
938.5	0.6191	0.7055	96.7098	24.9108	0.0587	0.4504	1.7446	1.6284	908.0000
938.0	0.5360	0.6299	96.0892	23.6349	0.0762	0.4037	1.8621	1.7656	943.0000
937.5	0.4590	0.6847	102.2782	22.3670	0.0916	0.4382	1.9833	1.8926	1002.0000
937.0	0.4244	0.6387	101.4659	21.6191	0.1010	0.4197	2.1695	1.9498	995.0000
936.5	0.4128	0.6796	105.7731	21.6591	0.0975	0.3253	2.3647	1.9690	1020.0000
936.0	0.4104	0.6270	107.6158	20.8671	0.0839	0.2853	2.4947	1.9729	921.0000
935.5	0.4109	0.5694	114.4611	24.7428	0.0745	0.2629	2.5184	1.9720	876.0000
935.0	0.4055	0.5383	124.0561	23.7109	0.0814	0.2401	2.4741	1.9809	877.0000
934.5	0.3967	0.4514	129.2643	20.2912	0.0944	0.3492	2.3961	1.9954	862.0000
934.0	0.3840	0.4506	128.4291	19.4192	0.1113	0.3607	2.3167	2.0165	894.0000
933.5	0.3757	0.4088	118.8900	18.6593	0.1331	0.2690	2.2487	2.0301	919.0000
933.0	0.3632	0.4512	122.3055	19.6912	0.1587	0.2778	2.2028	2.0507	984.0000
932.5	0.3666	0.4275	121.1883	20.7471	0.1614	0.2283	2.2118	2.0450	980.0000
932.0	0.3692	0.3987	125.1417	18.8273	0.1469	0.2400	2.2750	2.0408	985.0000
931.5	0.3740	0.3694	125.9791	18.2913	0.1231	0.2407	2.4024	2.0329	958.0000
931.0	0.3722	0.3536	128.8161	17.6994	0.1017	0.2383	2.5283	2.0359	1011.0000
930.5	0.3663	0.3812	125.5595	17.9074	0.0793	0.2493	2.5915	2.0456	929.0000
930.0	0.3706	0.3950	121.6378	17.6514	0.0580	0.2716	2.5935	2.0384	968.0000
929.5	0.3817	0.3988	119.3577	17.6514	0.0444	0.2570	2.5628	2.0202	899.0000
929.0	0.3919	0.3463	119.4249	17.7234	0.0446	0.2181	2.5413	2.0034	943.0000
928.5	0.4056	0.3275	120.5654	18.0994	0.0419	0.2653	2.5117	1.9807	1058.0000
928.0	0.4112	0.3276	121.0219	17.5314	0.0404	0.1975	2.4957	1.9715	985.0000
927.5	0.4124	0.3181	128.6797	17.5794	0.0309	0.2363	2.4712	1.9696	998.0000
927.0	0.3979	0.3287	128.8633	17.0154	0.0305	0.2496	2.4640	1.9934	989.0000
926.5	0.3735	0.3048	131.5474	16.8755	0.0449	0.2460	2.4661	2.0337	877.0000
926.0	0.3439	0.3116	131.2537	17.2594	0.0763	0.2312	2.4685	2.0825	900.0000

925.5	0.3309	0.2916	131.9984	17.8754	0.1023	0.2156	2.4528	2.1041	932.0000
925.0	0.3336	0.3198	130.5143	17.1954	0.1238	0.2111	2.4216	2.0996	871.0000
924.5	0.3589	0.3712	121.3744	18.0434	0.1281	0.3554	2.4011	2.0578	887.0000
924.0	0.3827	0.4521	114.7864	17.7834	0.1255	0.3952	2.4123	2.0185	946.0000
923.5	0.4007	0.4309	110.8163	17.8074	0.1125	0.2964	2.4361	1.9888	979.0000
923.0	0.4137	0.4176	113.0122	17.6994	0.1009	0.2596	2.3998	1.9674	978.0000
922.5	0.4210	0.4285	114.2241	17.8554	0.1143	0.2949	2.2641	1.9553	915.0000
922.0	0.4417	0.4542	119.6829	20.8111	0.1330	0.2434	2.1283	1.9212	975.0000
921.5	0.4411	0.4436	120.1984	21.0671	0.1466	0.2248	2.0618	1.9222	970.0000
921.0	0.4189	0.4441	118.4993	20.6032	0.1385	0.3368	2.0952	1.9589	962.0000
920.5	0.3901	0.4733	109.5839	19.5552	0.1251	0.3352	2.1317	2.0063	896.0000
920.0	0.3801	0.4476	106.2598	18.7393	0.1251	0.2838	2.1672	2.0228	950.0000
919.5	0.3792	0.4185	107.0045	18.0594	0.1371	0.2926	2.2127	2.0242	914.0000
919.0	0.3650	0.3941	112.3618	17.5194	0.1487	0.2820	2.2868	2.0477	903.0000
918.5	0.3433	0.3998	116.5743	17.2434	0.1474	0.2564	2.3912	2.0836	894.0000
918.0	0.3365	0.3771	119.1810	15.6715	0.1275	0.2821	2.5069	2.0948	936.0000
917.5	0.3321	0.3955	112.7065	16.1395	0.1012	0.3458	2.5874	2.1020	936.0000
917.0	0.3279	0.4269	112.2100	16.0075	0.0763	0.3398	2.6070	2.1090	949.0000
916.5	0.3162	0.4439	108.2676	16.2355	0.0668	0.3521	2.5650	2.1283	936.0000
916.0	0.3152	0.4093	108.4586	16.4675	0.0712	0.3217	2.5187	2.1299	985.0000
915.5	0.3230	0.3933	108.1643	16.1875	0.0810	0.3132	2.5076	2.1171	1014.0000
915.0	0.3335	0.3596	106.2348	16.0275	0.0831	0.2860	2.5274	2.0997	1128.0000
914.5	0.3583	0.3749	111.9365	15.8395	0.0695	0.2888	2.5267	2.0588	1095.0000
914.0	0.4041	0.3837	102.7177	15.5156	0.0566	0.3608	2.4898	1.9832	1052.0000
913.5	0.4855	0.4431	102.6164	15.7555	0.0478	0.4053	2.4782	1.8490	958.0000
913.0	0.5482	0.4039	92.6567	15.8515	0.0508	0.3795	2.5233	1.7455	1084.0000
912.5	0.5530	0.3904	95.8558	15.8515	0.0507	0.2756	2.5711	1.7375	1037.0000
912.0	0.4961	0.3413	100.1106	16.0075	0.0512	0.2661	2.5615	1.8314	936.0000

911.5	0.4347	0.3302	112.2665	16.0075	0.0571	0.2595	2.5130	1.9327	966.0000
911.0	0.4017	0.3000	118.7243	14.7156	0.0704	0.2340	2.4840	1.9872	1020.0000
910.5	0.4011	0.2970	120.7114	15.2196	0.0782	0.2389	2.4853	1.9882	1033.0000
910.0	0.3962	0.3008	117.0910	15.4756	0.0840	0.2336	2.4788	1.9963	1036.0000
909.5	0.4008	0.3428	114.8184	15.8515	0.0831	0.2473	2.4762	1.9887	981.0000
909.0	0.3886	0.3528	114.2638	15.7315	0.0953	0.2864	2.4797	2.0088	929.0000
908.5	0.3797	0.3674	116.0015	15.0356	0.0995	0.2464	2.5152	2.0236	1163.0000
908.0	0.3675	0.3756	120.6741	14.5236	0.1028	0.2462	2.5305	2.0437	1261.0000
907.5	0.3478	0.4254	118.1918	15.3356	0.1266	0.3081	2.3045	2.0762	898.0000
907.0	0.4097	0.5019	113.2095	15.9235	0.1394	0.4582	1.8320	1.9740	1055.0000
906.5	0.5741	0.6599	102.4578	24.8868	0.1367	0.5745	1.3803	1.7027	1097.0000
906.0	0.7168	0.8263	97.5304	24.1709	0.1244	0.5166	1.2432	1.4673	1057.0000
905.5	0.6961	0.7553	97.1752	20.5392	0.1431	0.4062	1.4000	1.5015	1009.0000
905.0	0.5406	0.4518	100.1700	16.2595	0.1608	0.3254	1.7404	1.7580	969.0000
904.5	0.4072	0.3038	106.7683	15.7635	0.1446	0.2251	2.1394	1.9781	986.0000
904.0	0.3409	0.2682	112.9948	15.5996	0.1071	0.1771	2.4664	2.0876	1028.0000
903.5	0.3268	0.3039	118.1034	14.9156	0.0806	0.2716	2.5595	2.1108	1117.0000
903.0	0.3446	0.4238	110.4037	15.3836	0.0806	0.3827	2.4944	2.0814	1051.0000
902.5	0.3808	0.4949	102.2279	16.2755	0.0949	0.3461	2.4173	2.0216	955.0000
902.0	0.3899	0.5093	97.5731	16.4755	0.1173	0.2995	2.3393	2.0067	1007.0000
901.5	0.4020	0.4884	95.9860	17.6034	0.1240	0.2959	2.2749	1.9867	1062.0000
901.0	0.4422	0.4692	96.9754	22.0670	0.1104	0.2527	2.2884	1.9204	1079.0000
900.5	0.4498	0.4536	98.1530	20.6111	0.1079	0.2293	2.3234	1.9078	1112.0000
900.0	0.4124	0.4643	99.6316	19.4152	0.1164	0.2766	2.3269	1.9696	1047.0000
899.5	0.3614	0.5152	97.4105	19.1873	0.1359	0.3306	2.2519	2.0537	1110.0000
899.0	0.3605	0.5533	93.6086	18.3873	0.1458	0.3904	2.1523	2.0552	1208.0000
898.5	0.4033	0.5627	95.2238	18.3593	0.1473	0.3811	2.1298	1.9845	1155.0000
898.0	0.4142	0.4800	100.3846	17.0514	0.1518	0.3243	2.1737	1.9666	1104.0000

897.5	0.3957	0.4519	104.2044	16.2675	0.1421	0.2829	2.2935	1.9970	1112.0000
897.0	0.3370	0.4084	110.3973	16.6195	0.1503	0.2444	2.3449	2.0939	1191.0000
896.5	0.3108	0.4456	109.6588	16.7875	0.1565	0.2729	2.3532	2.1372	1121.0000
896.0	0.3101	0.4328	115.8503	16.8834	0.1679	0.2878	2.3759	2.1383	1139.0000
895.5	0.3312	0.4513	112.9758	16.3315	0.1606	0.2681	2.4211	2.1035	1127.0000
895.0	0.3405	0.4358	118.3336	16.0435	0.1583	0.2891	2.3875	2.0881	1153.0000
894.5	0.3652	0.4360	111.2548	15.9595	0.1613	0.3201	2.3135	2.0475	1158.0000
894.0	0.3859	0.4497	111.0246	16.8115	0.1673	0.3329	2.2819	2.0133	1183.0000
893.5	0.3826	0.4368	108.4167	17.0194	0.1638	0.2936	2.3460	2.0188	1188.0000
893.0	0.3541	0.3831	111.8288	15.0596	0.1559	0.2165	2.4289	2.0658	1159.0000
892.5	0.3426	0.3497	116.8382	14.8596	0.1428	0.2231	2.5100	2.0847	1211.0000
892.0	0.3531	0.3143	121.3288	14.9476	0.1314	0.2217	2.5969	2.0674	1245.0000
891.5	0.3559	0.3281	123.4647	15.1556	0.1259	0.2124	2.6684	2.0628	1188.0000
891.0	0.3301	0.3313	124.1945	15.1556	0.1358	0.2075	2.6675	2.1053	1178.0000
890.5	0.3089	2207.9541	126.2859	14.8996	0.1525	-999.2500	2.6335	2.1403	1131.0000
890.0	0.2889	1586.8469	125.3328	15.5476	0.1815	-999.2500	2.6174	2.1732	1202.0000
889.5	0.3035	68.9613	127.9366	15.9315	0.1911	-999.2500	2.6697	2.1493	1121.0000
889.0	0.3288	2.5921	133.0283	17.6994	0.1877	-999.2500	2.7529	2.1074	1118.0000
888.5	0.3751	0.2193	146.5914	17.9314	0.1553	-999.2500	2.8229	2.0310	1120.0000
888.0	0.3940	0.1739	157.8779	17.3874	0.1278	-999.2500	2.8392	1.9999	1132.0000
887.5	0.4021	0.1737	164.8609	16.9314	0.1062	-999.2500	2.8332	1.9865	1153.0000
887.0	0.3909	0.1842	167.1662	16.5155	0.1092	-999.2500	2.8225	2.0050	1111.0000
886.5	0.3979	0.1772	166.6619	16.2595	0.1102	-999.2500	2.8476	1.9934	1121.0000
886.0	0.3957	0.1712	166.4808	16.3435	0.1152	-999.2500	2.8864	1.9970	1107.0000
885.5	0.3999	0.1621	163.3478	16.3955	0.1073	-999.2500	2.9232	1.9901	1142.0000
885.0	0.3916	0.1571	165.1821	16.4875	0.1035	-999.2500	2.9286	2.0038	1156.0000
884.5	0.3899	0.1538	162.5484	16.3315	0.0987	-999.2500	2.9246	2.0067	1124.0000
884.0	0.3880	0.1619	163.5979	16.4035	0.0984	-999.2500	2.9189	2.0098	1177.0000

883.5	0.3984	0.1703	164.5541	16.2515	0.0934	-999.2500	2.9184	1.9926	1169.0000
883.0	0.4117	0.1957	161.6788	16.1795	0.0834	-999.2500	2.8873	1.9707	1156.0000
882.5	0.4348	0.2031	156.3943	15.3236	0.0663	-999.2500	2.8417	1.9326	1140.0000
882.0	0.4509	0.1911	144.6624	15.2156	0.0549	-999.2500	2.8042	1.9059	1153.0000
881.5	0.4652	0.1805	140.9092	15.6675	0.0504	-999.2500	2.8170	1.8824	1166.0000
881.0	0.4605	0.1645	143.5858	15.4556	0.0597	-999.2500	2.8451	1.8902	1118.0000
880.5	0.4600	0.1504	148.5405	15.3796	0.0737	-999.2500	2.8952	1.8910	1069.0000
880.0	0.4631	0.1261	160.4984	15.3156	0.0907	-999.2500	2.9263	1.8858	1085.0000
879.5	0.5092	0.1119	171.3336	15.7435	0.0908	-999.2500	3.0324	1.8098	1128.0000
879.0	0.5588	0.1043	186.6217	15.3316	0.0829	-999.2500	3.1856	1.7280	1118.0000
878.5	0.5579	0.1166	199.6536	14.8516	0.0756	-999.2500	3.2941	1.7294	1122.0000
878.0	0.5158	0.1300	225.6932	14.1477	0.0588	-999.2500	3.2932	1.7989	1088.0000
877.5	0.4575	0.1376	262.1529	13.9957	0.0364	-999.2500	3.1360	1.8952	1124.0000
877.0	0.4212	0.1408	282.1735	14.4756	0.0081	-999.2500	2.9600	1.9551	1148.0000
876.5	0.3908	0.1337	282.5553	14.0757	-0.0059	-999.2500	2.8200	2.0052	1167.0000
876.0	0.3605	0.1296	265.8697	14.0637	0.0060	-999.2500	2.8210	2.0552	1203.0000
875.5	0.3545	0.1251	254.8633	13.9797	0.0296	-999.2500	2.9086	2.0650	1204.0000
875.0	0.3501	0.1216	249.2335	13.7557	0.0685	-999.2500	2.9960	2.0724	1205.0000
874.5	0.3601	0.1272	244.6935	13.7877	0.0948	-999.2500	3.0342	2.0559	1195.0000
874.0	0.3844	0.1352	241.6986	13.8037	0.1028	-999.2500	3.0598	2.0158	1181.0000
873.5	0.3954	0.1360	237.4325	13.9317	0.1042	-999.2500	3.0471	1.9975	1160.0000
873.0	0.4031	0.1347	238.1333	13.9397	0.1015	-999.2500	3.0216	1.9849	1090.0000
872.5	0.4144	0.1367	232.9338	13.9477	0.1033	-999.2500	3.0082	1.9663	1106.0000
872.0	0.4274	0.1411	232.2417	13.7797	0.1078	-999.2500	3.0262	1.9447	1077.0000
871.5	0.4457	0.1432	223.0129	13.6317	0.0952	-999.2500	3.0389	1.9145	1083.0000
871.0	0.4377	0.1475	221.8931	13.9077	0.0744	-999.2500	2.9654	1.9279	1114.0000
870.5	0.4390	0.1387	217.5024	13.8677	0.0438	-999.2500	2.8833	1.9256	1090.0000
870.0	0.4265	0.1406	220.6839	14.1957	0.0290	-999.2500	2.8294	1.9464	1100.0000

869.5	0.4171	0.1394	225.4416	14.1877	0.0189	-999.2500	2.8237	1.9618	1121.0000
869.0	0.3990	0.1341	229.0172	14.2797	0.0095	-999.2500	2.7940	1.9917	1140.0000
868.5	0.3778	0.1336	226.1713	14.2677	0.0021	-999.2500	2.7490	2.0266	1155.0000
868.0	0.3584	0.1355	229.4894	14.1877	-0.0034	-999.2500	2.7228	2.0586	1176.0000
867.5	0.3494	0.1427	228.1499	14.4996	0.0017	-999.2500	2.7452	2.0736	1177.0000
867.0	0.3474	0.1461	225.8410	14.7596	0.0123	-999.2500	2.7792	2.0767	1143.0000
866.5	0.3508	0.1409	218.3133	14.3716	0.0283	-999.2500	2.8294	2.0711	1104.0000
866.0	0.3456	0.1429	224.5165	14.5876	0.0435	-999.2500	2.8906	2.0797	1100.0000
865.5	0.3444	0.1384	228.1917	15.0116	0.0580	-999.2500	2.9525	2.0818	1111.0000
865.0	0.3573	0.1341	233.8531	15.0916	0.0666	-999.2500	2.9854	2.0604	1143.0000
864.5	0.3989	0.1253	228.8814	14.7476	0.0589	-999.2500	2.9843	1.9918	1154.0000
864.0	0.4336	0.1211	236.2866	14.8076	0.0427	-999.2500	2.9560	1.9345	1167.0000
863.5	0.4417	0.1134	245.5163	14.5916	0.0254	-999.2500	2.9297	1.9211	1156.0000
863.0	0.4284	0.1107	245.7648	14.4756	0.0146	-999.2500	2.9122	1.9431	1159.0000
862.5	0.4193	0.1124	241.3858	14.4356	0.0043	-999.2500	2.8999	1.9582	1153.0000
862.0	0.4022	0.1150	239.5262	14.2357	0.0156	-999.2500	2.9098	1.9863	1120.0000
861.5	0.3877	0.1201	243.8871	14.2837	0.0365	-999.2500	2.9417	2.0104	1162.0000
861.0	0.3704	0.1178	245.7810	14.3637	0.0631	-999.2500	2.9947	2.0388	1247.0000
860.5	0.3804	0.1208	241.6807	14.4116	0.0727	-999.2500	3.0527	2.0223	1287.0000
860.0	0.3844	0.1141	247.6764	14.4996	0.0866	-999.2500	3.0817	2.0157	1213.0000
859.5	0.3897	0.1017	244.6473	14.5676	0.1126	-999.2500	3.0859	2.0070	1205.0000
859.0	0.4166	0.0936	244.8558	15.4756	0.1286	-999.2500	3.0972	1.9627	1194.0000
858.5	0.4772	0.0952	241.2276	15.6276	0.1206	-999.2500	3.1501	1.8626	1180.0000
858.0	0.4805	0.1116	246.5918	15.3396	0.1314	-999.2500	3.1526	1.8572	1139.0000
857.5	0.4368	0.1211	251.7704	13.7397	0.1481	-999.2500	3.1658	1.9293	1128.0000
857.0	0.3611	0.1215	256.3336	13.0998	0.1503	-999.2500	3.1838	2.0542	1112.0000
856.5	0.3141	0.1156	257.9542	12.7638	0.1120	-999.2500	3.2167	2.1318	1121.0000
856.0	0.2968	0.1214	255.3131	12.8758	0.0757	-999.2500	3.1911	2.1602	1128.0000

855.5 0.3022 0.1140 246.7505 12.9478 0.0710 -
999.2500 3.1169 2.1514 1111.0000
855.0 0.3571 0.1112 244.6255 13.0598 0.0669 -
999.2500 3.0860 2.0608 1128.0000
854.5 0.4023 0.1086 242.5607 13.2717 0.0573 -
999.2500 3.0475 1.9862 1158.0000
854.0 0.4227 0.1096 249.7057 13.5797 0.0486 -
999.2500 3.0329 1.9526 1151.0000
853.5 0.4098 0.1084 245.6384 13.4277 0.0600 -
999.2500 3.0508 1.9739 1133.0000
853.0 0.3906 0.1150 249.0945 13.1997 0.0783 -
999.2500 3.1125 2.0055 1144.0000
852.5 0.3830 0.1149 242.1075 13.0438 0.0787 -
999.2500 3.1447 2.0180 1129.0000
852.0 0.3886 0.1084 243.5538 13.1078 0.0586 -
999.2500 3.1030 2.0088 1164.0000
851.5 0.4024 0.1070 235.0414 12.9958 0.0386 -
999.2500 3.0386 1.9860 1243.0000
851.0 0.3990 0.1120 235.3871 13.0838 0.0317 -
999.2500 2.9709 1.9917 1197.0000
850.5 0.3907 0.1148 238.1237 13.0918 0.0298 -
999.2500 2.9303 2.0053 1213.0000
850.0 0.3772 0.1162 237.2804 13.1397 0.0333 -
999.2500 2.9031 2.0277 1176.0000
849.5 0.3717 0.1147 240.1178 13.1277 0.0545 -
999.2500 2.9279 2.0368 1291.0000
849.0 0.3689 0.1138 230.8754 13.1078 0.0947 -
999.2500 2.9993 2.0414 1191.0000
848.5 0.3646 0.1160 227.3598 13.2117 0.1371 -
999.2500 3.0795 2.0484 1172.0000
848.0 0.3502 0.1235 218.1687 13.2677 0.1670 -
999.2500 3.0992 2.0722 1128.0000
847.5 0.3317 0.1243 215.5726 13.1957 0.1977 -
999.2500 3.0507 2.1027 1093.0000
847.0 0.3319 0.1335 211.5641 13.7157 0.2372 -
999.2500 2.9431 2.1024 1162.0000
846.5 0.3821 0.1460 205.2818 13.8357 0.2619 -
999.2500 2.9087 2.0195 1132.0000
846.0 0.4066 0.1555 205.5650 13.5637 0.2757 -
999.2500 2.9018 1.9790 1164.0000
845.5 0.3870 0.1500 206.9841 13.4597 0.2575 -
999.2500 2.9479 2.0114 1156.0000
845.0 0.3392 0.1369 215.3702 13.0798 0.2241 -
999.2500 2.9810 2.0903 1114.0000
844.5 0.3312 0.1476 222.1979 14.0157 0.1738 -
999.2500 3.0497 2.1036 1098.0000
844.0 0.3427 0.1485 226.7181 13.8837 0.1361 -
999.2500 3.1043 2.0845 1101.0000
843.5 0.3415 0.1548 228.5661 14.2917 0.1078 -
999.2500 3.0991 2.0865 1051.0000
843.0 0.3322 0.1554 228.6024 14.2037 0.0774 -
999.2500 3.0398 2.1018 1046.0000
842.5 0.3260 0.1534 229.1554 14.0597 0.0613 -
999.2500 2.9782 2.1121 1111.0000
842.0 0.3388 0.1437 230.1267 13.8717 0.0875 -
999.2500 2.9686 2.0911 1149.0000

841.5	0.3738	0.1386	224.7751	13.9317	0.1559	-999.2500	3.0571	2.0333	1112.0000
841.0	0.4014	0.1290	221.7946	13.3717	0.2343	-999.2500	3.0894	1.9877	1149.0000
840.5	0.4133	0.1275	216.6733	13.6197	0.2834	-999.2500	3.0645	1.9681	1121.0000
840.0	0.4423	0.1333	217.9874	13.9437	0.2737	-999.2500	3.0579	1.9203	1093.0000
839.5	0.4495	0.1347	216.6091	13.8037	0.2612	-999.2500	3.0324	1.9084	1138.0000
839.0	0.4632	0.1177	220.5107	13.9317	0.2464	-999.2500	3.0331	1.8857	1100.0000
838.5	0.5102	0.1169	223.1331	14.7716	0.2188	-999.2500	3.0754	1.8082	1102.0000
838.0	0.5293	0.1314	231.5009	14.5156	0.1882	-999.2500	3.1387	1.7766	1113.0000
837.5	0.5175	0.1580	240.0225	13.9437	0.1445	-999.2500	3.1869	1.7961	1102.0000
837.0	0.4344	0.1514	244.7679	13.2837	0.1278	-999.2500	3.0974	1.9333	1085.0000
836.5	0.4104	0.1402	243.4938	13.0918	0.0913	-999.2500	3.0563	1.9729	1112.0000
836.0	0.4150	0.1313	239.4841	13.0798	0.0663	-999.2500	3.0341	1.9653	1140.0000
835.5	0.4279	0.1235	234.3631	12.9238	0.0425	-999.2500	2.9875	1.9440	1138.0000
835.0	0.4354	0.1206	233.7075	12.9238	0.0196	-999.2500	2.8957	1.9317	1159.0000
834.5	0.4430	0.1172	230.8497	12.9838	0.0038	-999.2500	2.7951	1.9190	1113.0000
834.0	0.4515	0.1089	230.6168	13.0198	-0.0012	-999.2500	2.7718	1.9050	1105.0000
833.5	0.4717	0.1052	232.0142	13.4757	-0.0017	-999.2500	2.8057	1.8718	1072.0000
833.0	0.4895	0.1035	230.6085	13.4357	0.0024	-999.2500	2.8741	1.8423	1085.0000
832.5	0.4920	0.1114	233.9855	13.4597	0.0146	-999.2500	2.9226	1.8381	1078.0000
832.0	0.4882	0.1145	236.0436	13.1397	0.0221	-999.2500	2.9630	1.8444	1112.0000
831.5	0.4749	0.1166	237.9064	12.8518	0.0200	-999.2500	2.9551	1.8664	1137.0000
831.0	0.4470	0.1236	240.0430	12.7078	0.0102	-999.2500	2.8998	1.9125	1181.0000
830.5	0.4153	0.1279	239.6967	12.6998	0.0074	-999.2500	2.8524	1.9647	1136.0000
830.0	0.3820	0.1272	233.2318	12.9478	0.0213	-999.2500	2.8485	2.0196	1187.0000
829.5	0.3727	0.1207	225.9151	12.9718	0.0441	-999.2500	2.8837	2.0351	1177.0000
829.0	0.3961	0.1221	222.0713	12.8398	0.0530	-999.2500	2.9470	1.9964	1149.0000
828.5	0.4192	0.1325	225.8040	13.0118	0.0539	-999.2500	3.0052	1.9583	1142.0000
828.0	0.4202	0.1444	222.7996	13.1957	0.0523	-999.2500	3.0316	1.9567	1048.0000

827.5	0.4151	0.1433	216.4309	12.7798	0.0515	-999.2500	3.0195	1.9651	1083.0000
827.0	0.4314	0.1548	210.5941	13.0438	0.0475	-999.2500	2.9915	1.9382	1115.0000
826.5	0.4621	0.1577	204.6021	12.7918	0.0405	-999.2500	2.9789	1.8875	1098.0000
826.0	0.4551	0.1531	203.9689	12.8678	0.0473	-999.2500	2.9697	1.8991	1057.0000
825.5	0.4313	0.1434	202.0505	12.8598	0.0523	-999.2500	2.9511	1.9383	1067.0000
825.0	0.4265	0.1451	205.8145	13.2357	0.0533	-999.2500	2.9462	1.9462	1115.0000
824.5	0.4495	0.1526	205.1993	13.6037	0.0484	-999.2500	2.9615	1.9083	1137.0000
824.0	0.4594	0.1617	208.5779	14.1597	0.0436	-999.2500	2.9699	1.8921	1129.0000
823.5	0.4338	0.1553	216.7308	13.8477	0.0419	-999.2500	2.9668	1.9343	1100.0000
823.0	0.3999	0.1480	225.5118	13.7317	0.0374	-999.2500	2.9495	1.9902	1090.0000
822.5	0.3936	0.1390	226.8752	13.7997	0.0280	-999.2500	2.9423	2.0006	1083.0000
822.0	0.4035	0.1355	225.7292	13.7997	0.0219	-999.2500	2.9475	1.9842	1087.0000
821.5	0.4065	0.1273	226.3907	13.6917	0.0280	-999.2500	2.9642	1.9793	1118.0000
821.0	0.4138	0.1201	223.3467	13.7877	0.0432	-999.2500	3.0079	1.9672	1166.0000
820.5	0.4338	0.1100	223.3954	14.1157	0.0599	-999.2500	3.0564	1.9342	1121.0000
820.0	0.4778	0.1097	212.8085	14.4996	0.0613	-999.2500	3.1075	1.8616	1100.0000
819.5	0.4884	0.1047	217.9938	15.1396	0.0663	-999.2500	3.0930	1.8441	1116.0000
819.0	0.4885	0.1045	219.5596	16.6115	0.0772	-999.2500	3.0674	1.8439	1088.0000
818.5	0.5100	0.1009	233.5586	16.2755	0.0828	-999.2500	3.1001	1.8084	1116.0000
818.0	0.4984	0.1161	240.0733	15.3556	0.1012	-999.2500	3.1455	1.8276	1121.0000
817.5	0.4913	0.1309	248.8915	13.8117	0.0863	-999.2500	3.2123	1.8394	1146.0000
817.0	0.4308	0.1397	252.2059	13.6357	0.0696	-999.2500	3.1471	1.9391	1121.0000
816.5	0.4132	0.1336	250.4176	13.4517	0.0262	-999.2500	3.0473	1.9683	1120.0000
816.0	0.3921	0.1297	245.7575	13.3437	0.0028	-999.2500	2.9350	2.0031	1112.0000
815.5	0.3825	0.1259	241.8629	13.3157	-0.0024	-999.2500	2.8576	2.0188	1132.0000
815.0	0.3871	0.1216	243.1861	13.2837	0.0024	-999.2500	2.8665	2.0113	1135.0000
814.5	0.3898	0.1189	238.2824	13.1797	0.0102	-999.2500	2.8623	2.0068	1111.0000
814.0	0.3884	0.1200	235.4504	13.1557	0.0114	-999.2500	2.8708	2.0091	1135.0000

813.5	0.3791	0.1182	231.3420	13.2837	0.0072	-999.2500	2.8579	2.0244	1139.0000
813.0	0.3777	0.1137	228.2548	13.3477	0.0004	-999.2500	2.8509	2.0269	1142.0000
812.5	0.3810	0.1094	232.5363	13.2917	0.0027	-999.2500	2.8634	2.0213	1100.0000
812.0	0.3890	0.1073	230.0841	13.0318	0.0154	-999.2500	2.9135	2.0081	1083.0000
811.5	0.3808	0.1149	230.1049	13.2277	0.0393	-999.2500	2.9792	2.0217	1093.0000
811.0	0.3876	0.1188	226.2099	13.0918	0.0439	-999.2500	3.0188	2.0104	1142.0000
810.5	0.3883	0.1133	226.9444	13.0518	0.0435	-999.2500	3.0037	2.0093	1161.0000
810.0	0.4168	0.1085	234.0631	13.0918	0.0275	-999.2500	2.9622	1.9623	1062.0000
809.5	0.4313	0.1022	230.0592	13.2357	0.0296	-999.2500	2.9657	1.9383	1087.0000
809.0	0.4368	0.0984	224.0340	13.4517	0.0429	-999.2500	3.0293	1.9292	1044.0000
808.5	0.4446	0.1005	205.8952	13.9637	0.0616	-999.2500	3.1726	1.9165	1052.0000
808.0	0.4458	0.1093	191.7822	13.8357	0.0824	-999.2500	3.3264	1.9144	1053.0000
807.5	0.4273	0.1154	180.2495	12.9798	0.1024	-999.2500	3.4253	1.9450	1062.0000
807.0	0.3794	0.1235	170.6540	12.8518	0.1247	-999.2500	3.4432	2.0240	1079.0000
806.5	0.3333	0.1307	160.3703	12.8438	0.1388	-999.2500	3.4062	2.1000	1091.0000
806.0	0.3247	0.1361	151.4122	13.1158	0.1352	-999.2500	3.3881	2.1142	1117.0000
805.5	0.3257	0.1324	150.5429	12.9598	0.1271	-999.2500	3.3785	2.1126	1113.0000
805.0	0.3275	0.1340	149.4021	13.2437	0.1189	-999.2500	3.3815	2.1096	1167.0000
804.5	0.3158	0.1324	149.4951	13.0758	0.1223	-999.2500	3.3854	2.1289	1160.0000
804.0	0.3161	0.1298	150.9892	13.2717	0.1177	-999.2500	3.4041	2.1285	1100.0000
803.5	0.3293	0.1241	154.1497	13.2277	0.1052	-999.2500	3.4284	2.1066	1109.0000
803.0	0.3417	0.1137	154.4291	13.1877	0.0894	-999.2500	3.4044	2.0862	1079.0000
802.5	0.3552	0.1029	157.5020	13.2277	0.0875	-999.2500	3.3659	2.0638	1085.0000
802.0	0.3772	0.0938	158.8324	12.7158	0.0986	-999.2500	3.3481	2.0276	1064.0000
801.5	0.4095	0.1069	162.2078	12.7798	0.1171	-999.2500	3.4033	1.9744	1172.0000
801.0	0.4077	0.1259	158.6082	13.4037	0.1407	-999.2500	3.4558	1.9773	1165.0000
800.5	0.3749	0.1386	153.9777	14.0037	0.1549	-999.2500	3.4912	2.0313	1189.0000
800.0	0.3269	0.1325	156.2674	14.4676	0.1657	-999.2500	3.4500	2.1107	1142.0000

799.5	0.3182	0.1087	159.0856	14.4676	0.1830	-999.2500	3.3914	2.1250	1094.0000
799.0	0.3868	0.0999	163.6116	16.4995	0.1855	-999.2500	3.4336	2.0118	1102.0000
798.5	0.5000	0.0991	158.5304	16.1755	0.1560	-999.2500	3.5831	1.8250	1072.0000
798.0	0.5175	0.1271	159.9937	15.7235	0.1290	-999.2500	3.6029	1.7961	1034.0000
797.5	0.4823	0.1543	162.6478	14.2757	0.1038	-999.2500	3.5201	1.8541	1088.0000
797.0	0.4168	0.1701	162.1107	14.0277	0.1000	-999.2500	3.3591	1.9623	1102.0000
796.5	0.4506	0.1672	152.6030	13.9437	0.0649	-999.2500	3.3332	1.9065	1111.0000
796.0	0.4844	0.1631	140.7486	13.8277	0.0452	-999.2500	3.2902	1.8507	1033.0000
795.5	0.5323	0.1649	142.6804	13.7397	0.0281	-999.2500	3.2784	1.7717	1062.0000
795.0	0.5581	0.1755	151.0087	13.7157	0.0254	-999.2500	3.2759	1.7291	1087.0000
794.5	0.5591	0.1792	154.2137	13.6757	0.0294	-999.2500	3.2587	1.7275	1106.0000
794.0	0.5433	0.1715	161.7235	13.6437	0.0418	-999.2500	3.2226	1.7536	1076.0000
793.5	0.5245	0.1633	163.0293	13.8357	0.0652	-999.2500	3.1995	1.7846	1079.0000
793.0	0.5080	0.1583	167.9944	13.9237	0.0931	-999.2500	3.2142	1.8118	1090.0000
792.5	0.4875	0.1575	168.9813	13.9077	0.1084	-999.2500	3.2474	1.8456	1115.0000
792.0	0.4645	0.1518	179.8526	13.9237	0.1033	-999.2500	3.2569	1.8835	1132.0000
791.5	0.4573	0.1414	197.9062	13.8117	0.0827	-999.2500	3.2323	1.8955	1160.0000
791.0	0.4657	0.1322	215.0090	13.7757	0.0576	-999.2500	3.1588	1.8816	1175.0000
790.5	0.4805	0.1309	217.2333	13.6677	0.0302	-999.2500	3.0234	1.8571	1145.0000
790.0	0.4689	0.1335	228.4315	13.6277	0.0148	-999.2500	2.9051	1.8763	1154.0000
789.5	0.4329	0.1396	223.9200	13.6437	0.0195	-999.2500	2.8453	1.9358	1128.0000
789.0	0.3971	0.1418	229.0332	13.6117	0.0450	-999.2500	2.9006	1.9947	1116.0000
788.5	0.3823	0.1544	229.6130	13.6757	0.0709	-999.2500	2.9785	2.0192	1064.0000
788.0	0.3762	0.1609	233.5055	13.7157	0.0959	-999.2500	3.0338	2.0293	1082.0000
787.5	0.3645	0.1677	233.3184	13.8837	0.1227	-999.2500	3.0484	2.0486	1111.0000
787.0	0.3567	0.1638	222.7985	13.8357	0.1426	-999.2500	3.0282	2.0614	1079.0000
786.5	0.3671	0.1631	210.9151	13.8957	0.1472	-999.2500	3.0247	2.0443	1069.0000
786.0	0.3980	0.1510	209.5990	13.8117	0.1284	-999.2500	3.0430	1.9933	1073.0000

785.5	0.4286	0.1462	213.3747	13.8597	0.0975	-999.2500	3.0630	1.9428	1099.0000
785.0	0.4438	0.1406	220.8453	13.8597	0.0597	-999.2500	3.0282	1.9177	1087.0000
784.5	0.4255	0.1478	224.3465	13.8837	0.0437	-999.2500	2.9772	1.9479	1115.0000
784.0	0.3936	0.1479	220.4985	14.0197	0.0614	-999.2500	2.9570	2.0005	1097.0000
783.5	0.3767	0.1477	223.2096	14.2317	0.0994	-999.2500	2.9950	2.0285	1132.0000
783.0	0.3761	0.1449	214.5175	14.3397	0.1342	-999.2500	3.0257	2.0295	1104.0000
782.5	0.3947	0.1473	209.9713	15.0356	0.1431	-999.2500	3.0608	1.9987	1079.0000
782.0	0.4032	0.1442	206.9789	14.9876	0.1347	-999.2500	3.0626	1.9848	1065.0000
781.5	0.4061	0.1411	205.1829	14.7716	0.1094	-999.2500	3.0363	1.9799	1114.0000
781.0	0.4015	0.1388	208.9316	14.8676	0.0826	-999.2500	2.9918	1.9875	1077.0000
780.5	0.4026	0.1314	205.0044	15.0116	0.0610	-999.2500	2.9767	1.9857	1100.0000
780.0	0.4164	0.1235	216.6861	15.3796	0.0510	-999.2500	3.0047	1.9630	1147.0000
779.5	0.4325	0.1087	218.5354	15.5396	0.0580	-999.2500	3.0490	1.9364	1093.0000
779.0	0.4460	0.1090	222.9486	16.1795	0.0752	-999.2500	3.0971	1.9141	1065.0000
778.5	0.4241	0.1178	220.5734	16.2355	0.1035	-999.2500	3.1063	1.9503	1062.0000
778.0	0.3866	0.1312	223.1486	15.7955	0.1220	-999.2500	3.0955	2.0122	1118.0000
777.5	0.3514	0.1318	232.8325	15.3236	0.1404	-999.2500	3.0661	2.0701	1077.0000
777.0	0.3392	0.1201	240.5668	15.5396	0.1650	-999.2500	3.0528	2.0904	1106.0000
776.5	0.3700	0.1126	240.6153	16.3435	0.1720	-999.2500	3.0856	2.0395	1156.0000
776.0	0.3980	0.1159	228.4659	16.6595	0.1557	-999.2500	3.1066	1.9933	1121.0000
775.5	0.4147	0.1339	219.2271	15.9955	0.1171	-999.2500	3.0941	1.9658	1055.0000
775.0	0.4043	0.1573	217.3633	14.9476	0.0970	-999.2500	3.0457	1.9828	1050.0000
774.5	0.4107	0.1686	219.6582	14.3517	0.0869	-999.2500	3.0627	1.9723	1056.0000
774.0	0.4205	0.1532	213.3380	13.8957	0.0784	-999.2500	3.1310	1.9562	1062.0000
773.5	0.4137	0.1318	208.7061	13.2597	0.0688	-999.2500	3.2118	1.9674	1105.0000
773.0	0.3798	0.1207	205.6798	13.4357	0.0814	-999.2500	3.2888	2.0234	1122.0000
772.5	0.3713	0.1137	199.4235	13.4517	0.0949	-999.2500	3.4031	2.0373	1129.0000
772.0	0.3846	0.1145	190.3879	13.5957	0.0964	-999.2500	3.4942	2.0155	1107.0000

771.5	0.4097	0.1165	187.3928	13.5637	0.0737	-999.2500	3.4909	1.9741	1134.0000
771.0	0.4346	0.1263	185.5296	13.6077	0.0479	-999.2500	3.4195	1.9328	1113.0000
770.5	0.4486	0.1358	184.3524	13.7317	0.0353	-999.2500	3.3162	1.9099	1087.0000
770.0	0.4580	0.1400	178.9097	13.7877	0.0296	-999.2500	3.2264	1.8943	1087.0000
769.5	0.4634	0.1364	182.3436	14.1157	0.0322	-999.2500	3.1950	1.8854	1100.0000
769.0	0.4821	0.1300	185.6951	14.1637	0.0276	-999.2500	3.2054	1.8545	1080.0000
768.5	0.5095	0.1175	192.6196	14.0117	0.0178	-999.2500	3.2837	1.8094	1100.0000
768.0	0.5271	0.1164	196.5220	14.0117	0.0039	-999.2500	3.3220	1.7803	1090.0000
767.5	0.5238	0.1196	193.7863	13.9797	0.0007	-999.2500	3.3488	1.7858	1113.0000
767.0	0.4972	0.1310	183.8853	13.9077	0.0116	-999.2500	3.3388	1.8297	1124.0000
766.5	0.4502	0.1427	179.7822	14.0677	0.0342	-999.2500	3.3286	1.9072	1088.0000
766.0	0.3868	0.1452	183.1719	14.0757	0.0677	-999.2500	3.3014	2.0117	1026.0000
765.5	0.3452	0.1397	190.2854	14.1317	0.0922	-999.2500	3.2654	2.0805	1017.0000
765.0	0.3430	0.1306	191.6544	14.0277	0.0971	-999.2500	3.2248	2.0840	1052.0000
764.5	0.3795	0.1270	198.0556	14.1237	0.0805	-999.2500	3.1959	2.0239	1089.0000
764.0	0.4075	0.1285	194.2662	14.1117	0.0709	-999.2500	3.1923	1.9776	1107.0000
763.5	0.4268	0.1362	195.1372	14.1357	0.0717	-999.2500	3.2323	1.9458	1127.0000
763.0	0.4223	0.1476	191.0050	14.6196	0.0894	-999.2500	3.2580	1.9533	1115.0000
762.5	0.4204	0.1463	199.3784	14.6116	0.1047	-999.2500	3.2677	1.9564	1090.0000
762.0	0.4126	0.1495	196.7870	14.7956	0.1165	-999.2500	3.2492	1.9692	1030.0000
761.5	0.4000	0.1497	199.8220	14.6996	0.1270	-999.2500	3.2195	1.9900	1132.0000
761.0	0.4085	0.1464	190.2270	14.8196	0.1319	-999.2500	3.2241	1.9760	1173.0000
760.5	0.4359	0.1467	193.1677	14.7956	0.1283	-999.2500	3.2707	1.9308	1128.0000
760.0	0.4483	0.1530	193.0095	14.6116	0.1166	-999.2500	3.3064	1.9102	1111.0000
759.5	0.4372	0.1329	199.4338	14.8196	0.1031	-999.2500	3.2989	1.9286	1087.0000
759.0	0.4213	0.1235	204.4910	17.1394	0.1081	-999.2500	3.2707	1.9549	1061.0000
758.5	0.4814	0.1105	200.3969	16.5555	0.1075	-999.2500	3.4242	1.8557	1109.0000
758.0	0.4901	0.1177	199.4431	15.1076	0.1263	-999.2500	3.5344	1.8413	1077.0000

757.5	0.4707	0.1425	193.5708	14.9636	0.1082	-999.2500	3.5958	1.8733	1085.0000
757.0	0.4053	0.1471	195.0338	15.2756	0.0808	-999.2500	3.4664	1.9813	1089.0000
756.5	0.4015	0.1319	202.1680	15.0756	0.0407	-999.2500	3.3424	1.9875	1079.0000
756.0	0.4163	0.1309	209.2713	15.4676	0.0384	-999.2500	3.2408	1.9632	1107.0000
755.5	0.4472	0.1293	208.6501	15.3316	0.0490	-999.2500	3.2337	1.9122	1135.0000
755.0	0.4554	0.1357	203.7065	15.0596	0.0585	-999.2500	3.2803	1.8986	1078.0000
754.5	0.4460	0.1404	202.8754	14.8436	0.0475	-999.2500	3.2991	1.9140	1121.0000
754.0	0.4308	0.1384	201.3903	14.5156	0.0280	-999.2500	3.2445	1.9391	1053.0000
753.5	0.4452	0.1276	203.7484	14.4356	0.0089	-999.2500	3.1562	1.9154	1037.0000
753.0	0.4771	0.1352	201.2672	15.3236	-0.0018	-999.2500	3.1097	1.8627	1036.0000
752.5	0.4930	0.1389	205.2710	15.3836	-0.0020	-999.2500	3.0932	1.8365	1031.0000
752.0	0.4777	0.1479	201.2500	14.9316	-0.0019	-999.2500	3.0671	1.8618	1020.0000
751.5	0.4461	0.1547	199.9044	14.4916	-0.0005	-999.2500	3.0124	1.9139	1078.0000
751.0	0.4161	0.1679	200.1220	14.4956	0.0061	-999.2500	2.9687	1.9634	1074.0000
750.5	0.3942	0.1803	202.0142	14.5916	0.0195	-999.2500	2.9695	1.9995	1171.0000
750.0	0.3790	0.1791	205.9400	14.7236	0.0458	-999.2500	3.0078	2.0247	1173.0000
749.5	0.3558	0.1797	214.4539	14.3477	0.0867	-999.2500	3.0237	2.0630	1149.0000
749.0	0.3419	0.1712	217.5245	14.7836	0.1403	-999.2500	3.0113	2.0858	1104.0000
748.5	0.3550	0.1444	222.4131	14.8836	0.1858	-999.2500	2.9945	2.0643	1069.0000
748.0	0.4325	0.1274	230.1713	15.5996	0.1794	-999.2500	3.0918	1.9364	1063.0000
747.5	0.4840	0.1348	243.3409	15.6195	0.1432	-999.2500	3.1749	1.8514	1068.0000
747.0	0.4753	0.1504	245.9016	14.7556	0.0959	-999.2500	3.1854	1.8657	1095.0000
746.5	0.4040	0.1656	242.0201	14.5676	0.0783	-999.2500	3.0937	1.9834	1101.0000
746.0	0.3563	0.1522	239.5717	14.1717	0.0788	-999.2500	3.0356	2.0621	1096.0000
745.5	0.3541	0.1306	240.3074	14.3397	0.0978	-999.2500	3.0343	2.0658	1109.0000
745.0	0.3758	0.1156	242.8293	14.6396	0.1228	-999.2500	3.0502	2.0299	1100.0000
744.5	0.3972	0.1112	240.4685	14.8436	0.1465	-999.2500	3.0477	1.9947	1086.0000
744.0	0.4399	0.1135	243.4184	15.1716	0.1431	-999.2500	3.1044	1.9241	1074.0000

743.5	0.4761	0.1204	240.1143	15.2276	0.1190	-999.2500	3.1470	1.8645	1107.0000
743.0	0.4817	0.1362	242.1841	15.3596	0.0770	-999.2500	3.1399	1.8553	1087.0000
742.5	0.4550	0.1508	241.2124	15.2036	0.0359	-999.2500	3.0139	1.8992	1067.0000
742.0	0.4165	0.1484	241.9534	14.9636	0.0120	-999.2500	2.8741	1.9627	1073.0000
741.5	0.4117	0.1485	242.2854	14.9036	-0.0033	-999.2500	2.8121	1.9708	1063.0000
741.0	0.4124	0.1455	240.4612	14.7876	-0.0044	-999.2500	2.8124	1.9695	1091.0000
740.5	0.4140	0.1470	237.0380	14.8036	-0.0024	-999.2500	2.8298	1.9669	1139.0000
740.0	0.4041	0.1466	234.5119	14.8276	0.0108	-999.2500	2.8682	1.9833	1138.0000
739.5	0.3873	0.1428	232.1017	15.0476	0.0420	-999.2500	2.9234	2.0110	1149.0000
739.0	0.3743	0.1312	232.7288	15.3396	0.0960	-999.2500	2.9898	2.0325	1111.0000
738.5	0.4118	0.1281	231.3462	15.6755	0.1340	-999.2500	3.1226	1.9705	1116.0000
738.0	0.4260	0.1275	231.4687	15.0996	0.1625	-999.2500	3.2058	1.9471	1075.0000
737.5	0.4067	0.1323	227.5684	14.8196	0.1596	-999.2500	3.2371	1.9790	1062.0000
737.0	0.3421	0.1296	213.2156	14.7156	0.1494	-999.2500	3.1853	2.0855	1080.0000
736.5	0.3155	0.1255	208.2453	14.2997	0.1157	-999.2500	3.1772	2.1295	1094.0000
736.0	0.3007	0.1323	201.6289	14.5796	0.0888	-999.2500	3.1861	2.1538	1131.0000
735.5	0.2851	0.1344	199.9129	14.3876	0.0659	-999.2500	3.1718	2.1796	1113.0000
735.0	0.2592	0.1387	192.2281	14.3756	0.0535	-999.2500	3.1411	2.2224	1069.0000
734.5	0.2608	0.1456	195.0228	14.2557	0.0415	-999.2500	3.1365	2.2196	1071.0000
734.0	0.2683	0.1474	199.5521	14.0357	0.0508	-999.2500	3.1621	2.2073	1036.0000
733.5	0.2812	0.1548	201.1824	14.2197	0.0669	-999.2500	3.1958	2.1861	1077.0000
733.0	0.2985	0.1490	202.1140	14.0877	0.0772	-999.2500	3.2473	2.1575	1084.0000
732.5	0.3120	0.1525	201.7205	14.2797	0.0745	-999.2500	3.2831	2.1352	1115.0000
732.0	0.3000	0.1507	194.4649	13.9877	0.0745	-999.2500	3.2870	2.1550	1064.0000
731.5	0.2842	0.1535	189.4331	13.9197	0.0763	-999.2500	3.2568	2.1811	1066.0000
731.0	0.2904	0.1510	188.1516	14.0277	0.0726	-999.2500	3.2042	2.1709	1082.0000
730.5	0.3115	0.1468	198.4675	14.0037	0.0747	-999.2500	3.1570	2.1360	1064.0000
730.0	0.3358	0.1478	198.9340	14.2837	0.0836	-999.2500	3.1328	2.0960	1094.0000

729.5	0.3364	0.1474	202.5757	13.9917	0.1048	-999.2500	3.1469	2.0950	1111.0000
729.0	0.3357	0.1467	202.0255	13.7317	0.1034	-999.2500	3.1795	2.0961	1093.0000
728.5	0.3111	0.1482	201.6449	13.7397	0.0866	-999.2500	3.1546	2.1367	1089.0000
728.0	0.3023	0.1473	195.2072	14.1237	0.0611	-999.2500	3.0933	2.1512	1082.0000
727.5	0.3067	0.1466	192.4325	14.6356	0.0493	-999.2500	3.0270	2.1439	1096.0000
727.0	0.3276	0.1413	188.0033	14.5156	0.0444	-999.2500	3.0143	2.1094	1107.0000
726.5	0.3300	0.1413	188.3528	14.3037	0.0400	-999.2500	3.0379	2.1056	1044.0000
726.0	0.3237	0.1384	182.4738	14.0997	0.0249	-999.2500	3.0753	2.1159	1077.0000
725.5	0.3139	0.1384	178.3409	14.0037	0.0127	-999.2500	3.1138	2.1321	1076.0000
725.0	0.3053	0.1355	174.3861	13.8997	0.0028	-999.2500	3.1348	2.1462	1115.0000
724.5	0.2911	0.1386	175.2894	14.0157	0.0003	-999.2500	3.1414	2.1696	1132.0000
724.0	0.2798	0.1326	184.0231	13.8277	0.0075	-999.2500	3.1556	2.1883	1128.0000
723.5	0.2727	0.1329	189.1131	13.9877	0.0327	-999.2500	3.1923	2.2001	1080.0000
723.0	0.2680	0.1307	184.8896	13.5837	0.0673	-999.2500	3.2362	2.2078	1079.0000
722.5	0.2519	0.1300	183.4058	13.5797	0.0865	-999.2500	3.2296	2.2344	1050.0000
722.0	0.2303	0.1258	184.2512	13.5077	0.0823	-999.2500	3.1540	2.2701	1048.0000
721.5	0.2235	0.1235	189.0685	13.5957	0.0642	-999.2500	3.0535	2.2812	1076.0000
721.0	0.2333	0.1243	186.4765	13.7397	0.0584	-999.2500	2.9857	2.2650	1082.0000
720.5	0.2630	0.1247	186.7957	13.9637	0.0589	-999.2500	2.9691	2.2161	1114.0000
720.0	0.2866	0.1287	189.5242	13.8237	0.0668	-999.2500	2.9883	2.1771	1137.0000
719.5	0.3030	0.1295	192.6937	13.9637	0.0719	-999.2500	3.0281	2.1500	1131.0000
719.0	0.3022	0.1358	191.1207	13.8997	0.0752	-999.2500	3.0680	2.1514	1120.0000
718.5	0.2892	0.1387	191.4335	13.8957	0.0716	-999.2500	3.0809	2.1728	1063.0000
718.0	0.2767	0.1425	190.5930	13.8597	0.0608	-999.2500	3.0592	2.1934	1035.0000
717.5	0.2757	0.1521	189.4586	14.2917	0.0525	-999.2500	3.0278	2.1951	1073.0000
717.0	0.2866	0.1639	190.5979	14.3716	0.0547	-999.2500	3.0399	2.1772	1106.0000
716.5	0.2980	0.1734	188.9792	13.7277	0.0602	-999.2500	3.0945	2.1583	1110.0000
716.0	0.3184	0.1795	186.5908	13.3317	0.0560	-999.2500	3.1797	2.1246	1093.0000

715.5	0.3530	0.1731	175.5539	13.6357	0.0429	-999.2500	3.2532	2.0675	1034.0000
715.0	0.4013	0.1551	170.8923	13.9317	0.0265	-999.2500	3.2842	1.9879	1046.0000
714.5	0.4361	0.1469	173.8342	13.7797	0.0155	-999.2500	3.2435	1.9304	1055.0000
714.0	0.4324	0.1426	181.9895	13.7477	0.0116	-999.2500	3.1614	1.9366	1077.0000
713.5	0.3957	0.1336	187.4888	13.3157	0.0110	-999.2500	3.0760	1.9972	1122.0000
713.0	0.3463	0.1264	195.6980	13.2117	0.0145	-999.2500	3.0379	2.0786	1090.0000
712.5	0.3177	0.1240	198.2919	13.2197	0.0107	-999.2500	2.9975	2.1258	1077.0000
712.0	0.2976	0.1249	204.1052	13.2237	0.0068	-999.2500	2.9583	2.1589	1055.0000
711.5	0.2840	0.1232	201.2896	13.0558	0.0031	-999.2500	2.9141	2.1813	1044.0000
711.0	0.2743	0.1250	203.1545	13.1078	0.0021	-999.2500	2.9004	2.1974	1083.0000
710.5	0.2822	0.1283	202.4086	13.1997	0.0024	-999.2500	2.8926	2.1843	1093.0000
710.0	0.3050	0.1318	203.8080	13.0998	0.0015	-999.2500	2.8852	2.1467	1097.0000
709.5	0.3300	0.1327	210.8016	13.1397	0.0009	-999.2500	2.8835	2.1055	1104.0000
709.0	0.3542	0.1367	210.0402	13.0438	-0.0022	-999.2500	2.9178	2.0656	1064.0000
708.5	0.3718	0.1331	213.1871	13.0438	-0.0055	-999.2500	2.9606	2.0365	1036.0000
708.0	0.3741	0.1333	204.4998	12.9878	-0.0075	-999.2500	2.9658	2.0327	1046.0000
707.5	0.3531	0.1349	206.9136	12.9478	-0.0032	-999.2500	2.9268	2.0674	1069.0000
707.0	0.3208	0.1399	200.1757	13.1757	0.0058	-999.2500	2.9148	2.1206	1069.0000
706.5	0.2970	0.1381	199.0288	12.9798	0.0245	-999.2500	2.9475	2.1600	1090.0000
706.0	0.3008	0.1403	197.4509	13.0758	0.0476	-999.2500	3.0165	2.1537	1096.0000
705.5	0.3223	0.1245	205.9169	12.9358	0.0806	-999.2500	3.0553	2.1182	1073.0000
705.0	0.4128	0.1183	216.9641	13.0678	0.0839	-999.2500	3.1757	1.9689	1076.0000
704.5	0.4895	0.1230	221.6039	13.1877	0.0794	-999.2500	3.2849	1.8424	1090.0000
704.0	0.5133	0.1363	221.7552	13.1877	0.0576	-999.2500	3.2975	1.8030	1093.0000
703.5	0.4607	0.1401	219.1911	13.0038	0.0373	-999.2500	3.1188	1.8898	1076.0000
703.0	0.4021	0.1419	218.4548	12.8998	0.0151	-999.2500	2.9399	1.9865	1079.0000
702.5	0.3805	0.1429	220.4344	12.8998	-0.0029	-999.2500	2.8555	2.0221	1076.0000
702.0	0.3606	0.1510	215.8889	13.0118	0.0002	-999.2500	2.8722	2.0550	1048.0000

701.5	0.3519	0.1569	215.7908	12.8998	0.0037	-999.2500	2.8622	2.0694	1076.0000
701.0	0.3447	0.1593	211.4484	12.9158	0.0107	-999.2500	2.8600	2.0813	1074.0000
700.5	0.3421	0.1574	217.1057	12.8838	0.0228	-999.2500	2.8695	2.0856	1094.0000
700.0	0.3441	0.1540	214.9109	12.9358	0.0377	-999.2500	2.9168	2.0822	1113.0000
699.5	0.3481	0.1491	210.0854	13.0998	0.0544	-999.2500	2.9764	2.0756	1093.0000
699.0	0.3612	0.1304	202.9279	13.0998	0.0670	-999.2500	3.0458	2.0540	1100.0000
698.5	0.3720	0.1144	194.3731	13.3197	0.0859	-999.2500	3.1122	2.0363	1091.0000
698.0	0.4374	0.1096	194.0864	13.8037	0.0814	-999.2500	3.2557	1.9283	1053.0000
697.5	0.4793	0.1165	194.6698	13.4637	0.0700	-999.2500	3.3345	1.8591	1060.0000
697.0	0.5009	0.1324	199.7606	13.1517	0.0338	-999.2500	3.3093	1.8235	1037.0000
696.5	0.4467	0.1502	203.1550	13.0438	0.0142	-999.2500	3.1204	1.9130	1064.0000
696.0	0.3963	0.1582	201.8092	12.9598	-0.0013	-999.2500	2.9749	1.9961	1112.0000
695.5	0.3605	0.1599	207.3702	12.9638	-0.0001	-999.2500	2.9200	2.0551	1123.0000
695.0	0.3555	0.1575	209.8200	12.9958	-0.0022	-999.2500	2.9539	2.0634	1086.0000
694.5	0.3585	0.1512	215.5314	12.9358	-0.0036	-999.2500	2.9695	2.0584	1051.0000
694.0	0.3658	0.1490	217.1625	12.9318	-0.0053	-999.2500	2.9841	2.0465	1052.0000
693.5	0.3586	0.1456	211.9228	12.9358	0.0006	-999.2500	2.9433	2.0583	1055.0000
693.0	0.3620	0.1429	203.6072	12.9158	0.0041	-999.2500	2.9201	2.0527	1104.0000
692.5	0.3753	0.1390	189.5381	12.9398	0.0040	-999.2500	2.9134	2.0307	1089.0000
692.0	0.3956	0.1427	189.0287	12.8158	-0.0029	-999.2500	2.9431	1.9973	1089.0000
691.5	0.4012	0.1483	190.2592	12.7878	-0.0083	-999.2500	2.9500	1.9880	1074.0000
691.0	0.3868	0.1468	199.8038	12.6958	-0.0087	-999.2500	2.9325	2.0119	1049.0000
690.5	0.3675	0.1432	192.4274	12.7398	-0.0070	-999.2500	2.9186	2.0437	1023.0000
690.0	0.3609	0.1369	188.1237	12.8678	-0.0079	-999.2500	2.9598	2.0546	1055.0000
689.5	0.3705	0.1232	181.2016	12.9118	-0.0036	-999.2500	3.0401	2.0386	1038.0000
689.0	0.4047	0.1129	181.9559	12.9238	0.0112	-999.2500	3.1658	1.9822	1074.0000
688.5	0.4610	0.1078	188.4744	13.1078	0.0313	-999.2500	3.3328	1.8894	1098.0000
688.0	0.4885	0.1220	190.3375	13.1757	0.0403	-999.2500	3.4172	1.8440	1096.0000

687.5	0.4802	0.1389	193.3583	13.3237	0.0286	-999.2500	3.3385	1.8577	1080.0000
687.0	0.4401	0.1504	183.9812	12.9878	0.0109	-999.2500	3.1439	1.9238	1077.0000
686.5	0.4156	0.1593	180.8942	13.0998	-0.0012	-999.2500	3.0070	1.9642	996.0000
686.0	0.3968	0.1630	178.0750	12.9878	-0.0015	-999.2500	2.9554	1.9953	985.0000
685.5	0.3742	0.1736	178.6932	12.9478	0.0003	-999.2500	2.9427	2.0326	1013.0000
685.0	0.3483	0.1895	174.5603	13.0678	0.0058	-999.2500	2.9139	2.0752	1031.0000
684.5	0.3340	0.1931	172.6678	13.2117	0.0125	-999.2500	2.8996	2.0989	1074.0000
684.0	0.3220	0.1799	173.5084	13.2837	0.0235	-999.2500	2.8687	2.1187	1088.0000
683.5	0.3200	0.1847	177.2318	13.3717	0.0327	-999.2500	2.8289	2.1221	1049.0000
683.0	0.3287	0.1812	183.5535	13.3637	0.0399	-999.2500	2.7940	2.1077	1044.0000
682.5	0.3528	0.1780	192.5680	13.3237	0.0404	-999.2500	2.7791	2.0679	1089.0000
682.0	0.3844	0.1632	203.1180	13.0438	0.0250	-999.2500	2.7970	2.0157	1089.0000
681.5	0.3924	0.1553	209.6118	12.8518	0.0090	-999.2500	2.8374	2.0025	1118.0000
681.0	0.3881	0.1526	216.3772	12.7798	-0.0084	-999.2500	2.8690	2.0096	1045.0000
680.5	0.3757	0.1586	222.6350	12.9238	-0.0129	-999.2500	2.8795	2.0302	1072.0000
680.0	0.3875	0.1533	226.1301	12.7438	-0.0168	-999.2500	2.8714	2.0106	1048.0000
679.5	0.4138	0.1480	228.2312	12.7718	-0.0124	-999.2500	2.8327	1.9672	1057.0000
679.0	0.4491	0.1371	224.8583	12.7798	-0.0068	-999.2500	2.8100	1.9090	1105.0000
678.5	0.4564	0.1380	227.0356	12.8358	0.0007	-999.2500	2.7665	1.8969	1118.0000
678.0	0.4359	0.1446	228.7468	12.9478	0.0019	-999.2500	2.7507	1.9307	1090.0000
677.5	0.3924	0.1470	230.4176	12.9478	0.0012	-999.2500	2.7146	2.0026	1076.0000
677.0	0.3519	0.1485	223.5317	12.9318	0.0012	-999.2500	2.6749	2.0693	1077.0000
676.5	0.3357	0.1623	213.1897	12.8998	0.0005	-999.2500	2.6431	2.0961	1084.0000
676.0	0.3374	0.1702	205.2749	12.7798	-0.0008	-999.2500	2.6579	2.0932	1091.0000
675.5	0.3497	0.1825	197.1098	12.7718	-0.0006	-999.2500	2.7581	2.0730	1049.0000
675.0	0.3501	0.1965	180.2545	12.7558	0.0173	-999.2500	2.9836	2.0723	1051.0000
674.5	0.3551	0.2022	160.3511	12.7158	0.0369	-999.2500	3.3273	2.0641	1068.0000
674.0	0.3417	0.1934	141.3991	12.7158	0.0633	-999.2500	3.7429	2.0861	1111.0000

673.5	0.3139	0.1784	130.4705	12.6718	0.0953	-999.2500	4.1358	2.1321	1143.0000
673.0	0.2280	0.1552	124.8066	12.6918	0.2030	-999.2500	4.3974	2.2738	1128.0000
672.5	0.2316	0.1386	126.6908	12.6758	0.2870	-999.2500	4.7037	2.2678	1110.0000
672.0	0.2315	0.1244	124.7425	12.6478	0.3510	-999.2500	4.9583	2.2679	1091.0000
671.5	0.2338	0.1180	119.6336	12.5958	0.3017	-999.2500	5.1880	2.2643	1071.0000
671.0	0.1480	0.1193	114.0414	12.6198	0.2115	-999.2500	5.2051	2.4057	1058.0000
670.5	0.0829	0.1238	114.0414	12.8118	0.1032	-999.2500	5.1555	2.5132	1071.0000
670.0	0.0656	0.1236	117.3239	12.7078	0.0353	-999.2500	5.1152	2.5417	1116.0000
669.5	0.0677	0.1278	119.9823	12.7078	0.0235	-999.2500	5.1084	2.5384	1132.0000
669.0	0.0695	0.1312	122.6175	12.6358	0.0386	-999.2500	5.1239	2.5354	1044.0000
668.5	0.0562	0.1343	118.6356	12.8038	0.0636	-999.2500	5.1292	2.5572	1017.0000
668.0	0.0423	0.1350	114.2426	12.6278	0.0875	-999.2500	5.1231	2.5801	1068.0000
667.5	0.0502	0.1339	105.9475	12.5638	0.0938	-999.2500	5.0879	2.5673	1104.0000
667.0	0.0880	0.1349	109.5422	12.5478	0.0812	-999.2500	5.0307	2.5048	1102.0000
666.5	0.1193	0.1424	111.7400	12.6038	0.0753	-999.2500	4.9859	2.4532	1099.0000
666.0	0.1387	0.1497	116.6808	12.7318	0.0710	-999.2500	4.9683	2.4212	1062.0000
665.5	0.1307	0.1476	114.8635	12.6678	0.0719	-999.2500	4.9643	2.4343	1049.0000
665.0	0.1338	0.1408	113.8615	12.6478	0.0607	-999.2500	4.9620	2.4293	1035.0000
664.5	0.1330	0.1388	116.0122	12.6358	0.0539	-999.2500	4.9399	2.4305	1048.0000
664.0	0.1451	0.1393	117.3267	12.6598	0.0407	-999.2500	4.9193	2.4106	1083.0000
663.5	0.1564	0.1414	119.0304	12.7238	0.0264	-999.2500	4.8832	2.3919	1063.0000
663.0	0.1678	0.1376	117.1686	12.5758	0.0182	-999.2500	4.8586	2.3731	1058.0000
662.5	0.1926	0.1391	116.2734	12.6118	0.0191	-999.2500	4.8574	2.3322	1061.0000
662.0	0.2065	0.1452	111.8462	12.6198	0.0359	-999.2500	4.8903	2.3093	1053.0000
661.5	0.2307	0.1561	112.7739	12.7478	0.0363	-999.2500	4.9104	2.2694	996.0000
661.0	0.2186	0.1587	110.4607	12.6838	0.0368	-999.2500	4.8378	2.2893	1107.0000
660.5	0.2162	0.1589	113.8393	12.7558	0.0243	-999.2500	4.6385	2.2934	1099.0000
660.0	0.1933	0.1486	112.4718	12.7558	0.0348	-999.2500	4.4490	2.3311	1153.0000

659.5	0.1961	0.1433	115.6189	12.7318	0.0409	-999.2500	4.3708	2.3265	1167.0000
659.0	0.1948	0.1369	111.8244	12.6038	0.0436	-999.2500	4.4575	2.3286	1136.0000
658.5	0.1890	0.1305	114.9733	12.6238	0.0279	-999.2500	4.5574	2.3381	1075.0000
658.0	0.1572	0.1156	113.2425	12.5638	0.0096	-999.2500	4.6174	2.3906	1020.0000
657.5	0.1255	0.1062	119.6001	12.5878	0.0000	-999.2500	4.6247	2.4429	1006.0000
657.0	0.1098	0.0920	116.8051	12.4678	-0.0006	-999.2500	4.6905	2.4688	1055.0000
656.5	0.0697	0.0885	115.7043	12.6118	0.0282	-999.2500	4.8602	2.5350	1063.0000
656.0	0.0187	0.0872	108.6271	12.6358	0.0477	-999.2500	5.0561	2.6192	1098.0000
655.5	-0.0330	0.0837	114.4740	12.6198	0.0515	-999.2500	5.1686	2.7044	1107.0000
655.0	-0.0295	0.0789	114.8496	12.4758	0.0212	-999.2500	5.1166	2.6987	1100.0000
654.5	-0.0271	0.0801	121.0726	12.4918	-0.0020	-999.2500	5.0460	2.6947	1066.0000
654.0	-0.0344	0.0796	118.5715	12.5398	-0.0119	-999.2500	4.9815	2.7068	1023.0000
653.5	-0.0552	0.0764	121.7529	12.5638	-0.0060	-999.2500	4.9821	2.7411	1012.0000
653.0	-0.0528	0.0752	118.5472	12.5278	-0.0058	-999.2500	4.9751	2.7371	1049.0000
652.5	-0.0304	0.0753	115.3257	12.5558	-0.0146	-999.2500	4.9908	2.7001	1107.0000
652.0	0.0079	0.0766	114.6002	12.5158	-0.0164	-999.2500	4.9769	2.6369	1098.0000
651.5	0.0285	0.0784	117.7281	12.4798	-0.0142	-999.2500	4.9990	2.6030	1158.0000
651.0	0.0184	0.0832	119.5918	12.6358	0.0130	-999.2500	5.0064	2.6196	1121.0000
650.5	-0.0046	0.0841	114.9619	12.6758	0.0288	-999.2500	5.0464	2.6576	1055.0000
650.0	0.0026	0.0814	109.1698	12.6358	0.0388	-999.2500	5.0694	2.6457	1044.0000
649.5	0.0290	0.0849	106.5981	12.7798	0.0375	-999.2500	5.1181	2.6022	1037.0000
649.0	0.0488	0.0874	108.7803	12.6198	0.0332	-999.2500	5.1483	2.5695	1096.0000
648.5	0.0403	0.0874	108.3977	12.5318	0.0297	-999.2500	5.1104	2.5836	1122.0000
648.0	0.0245	0.0897	108.8571	12.6718	0.0225	-999.2500	5.0704	2.6096	1121.0000
647.5	0.0106	0.0899	110.2201	12.6678	0.0193	-999.2500	5.0866	2.6325	1068.0000
647.0	-0.0026	0.0905	114.2411	12.5518	0.0283	-999.2500	5.1709	2.6543	1045.0000
646.5	-0.0122	0.0901	117.5752	12.5758	0.0371	-999.2500	5.2161	2.6701	1041.0000
646.0	-0.0165	0.0924	118.6416	12.5398	0.0373	-999.2500	5.1987	2.6772	1039.0000

645.5	-0.0009	0.0935	121.9947	12.5558	0.0259	-999.2500	5.1324	2.6515	1083.0000
645.0	0.0095	0.0956	119.1637	12.5518	0.0446	-999.2500	5.0882	2.6344	1071.0000
644.5	-0.0041	0.1012	116.6656	12.6838	0.1300	-999.2500	5.0529	2.6568	1111.0000
644.0	-0.0109	0.1055	110.6864	12.7878	0.2319	-999.2500	5.0652	2.6680	1088.0000
643.5	0.0174	0.1076	112.1988	13.0078	0.2678	-999.2500	5.1193	2.6212	1050.0000
643.0	0.0806	0.1047	112.4315	12.8998	0.2007	-999.2500	5.1730	2.5170	1038.0000
642.5	0.1269	0.0986	116.2794	12.4678	0.0997	-999.2500	5.1603	2.4406	1041.0000
642.0	0.1161	0.1004	112.6899	12.6238	0.0452	-999.2500	5.1245	2.4584	1089.0000
641.5	0.0848	0.0968	118.7597	12.5158	0.0322	-999.2500	5.1009	2.5101	1064.0000
641.0	0.0448	0.0966	115.1783	12.6478	0.0321	-999.2500	5.0994	2.5760	1063.0000
640.5	0.0294	0.0936	118.2787	12.5718	0.0108	-999.2500	5.0425	2.6015	1060.0000
640.0	0.0193	0.0936	117.5234	12.5878	-0.0026	-999.2500	4.9972	2.6181	1042.0000
639.5	0.0076	0.0950	123.2996	12.6438	-0.0037	-999.2500	4.9496	2.6375	1067.0000
639.0	0.0078	0.0972	123.2996	12.5158	0.0048	-999.2500	4.8881	2.6372	1072.0000
638.5	-0.0044	0.1041	119.6862	12.6598	0.0133	-999.2500	4.8600	2.6573	1055.0000
638.0	-0.0113	0.1138	115.3141	12.6678	0.0168	-999.2500	4.8939	2.6686	1077.0000
637.5	-0.0238	0.1204	115.3935	12.6358	0.0259	-999.2500	5.0022	2.6892	1067.0000
637.0	-0.0183	0.1252	115.9362	12.5398	0.0372	-999.2500	5.0755	2.6802	1053.0000
636.5	-0.0011	0.1256	114.7348	12.6198	0.0600	-999.2500	5.1115	2.6519	1023.0000
636.0	0.0319	0.1182	112.9340	12.5638	0.0819	-999.2500	5.1256	2.5974	1069.0000
635.5	0.1125	0.1171	113.8313	12.8278	0.0679	-999.2500	5.1337	2.4645	1088.0000
635.0	0.1663	0.1154	116.9618	12.9718	0.0515	-999.2500	5.1537	2.3757	1042.0000
634.5	0.1844	0.1165	121.8681	12.7558	0.0397	-999.2500	5.1757	2.3457	1071.0000
634.0	0.1469	0.1220	123.0624	12.8278	0.0572	-999.2500	5.1901	2.4077	1104.0000
633.5	0.1229	0.1299	124.3397	12.8438	0.0683	-999.2500	5.2000	2.4472	1114.0000
633.0	0.1017	0.1357	119.3525	12.8838	0.0810	-999.2500	5.1958	2.4822	1055.0000
632.5	0.0870	0.1354	118.0864	12.7918	0.0960	-999.2500	5.1955	2.5065	1058.0000
632.0	0.0888	0.1282	117.5019	12.6838	0.1103	-999.2500	5.1828	2.5034	1033.0000

631.5	0.1181	0.1340	120.7229	13.0038	0.1119	-999.2500	5.1630	2.4551	1057.0000
631.0	0.1491	0.1302	120.8273	12.6358	0.1049	-999.2500	5.1212	2.4041	1094.0000
630.5	0.1647	0.1356	118.0880	12.6958	0.0960	-999.2500	5.0482	2.3783	1047.0000
630.0	0.1648	0.1398	114.0865	12.7638	0.0923	-999.2500	4.9779	2.3782	1062.0000
629.5	0.1630	0.1447	113.6442	12.6478	0.0920	-999.2500	4.9407	2.3811	1057.0000
629.0	0.1642	0.1547	115.7307	12.7158	0.0894	-999.2500	4.9380	2.3790	1087.0000
628.5	0.1743	0.1604	117.2901	12.5558	0.0769	-999.2500	4.9284	2.3625	1096.0000
628.0	0.1732	0.1676	118.7699	12.6238	0.0663	-999.2500	4.9042	2.3642	1104.0000
627.5	0.1671	0.1903	116.0306	12.8678	0.0620	-999.2500	4.8828	2.3742	1087.0000
627.0	0.1675	0.1936	119.6067	12.6758	0.0627	-999.2500	4.8540	2.3737	1067.0000
626.5	0.1989	0.1888	119.2728	12.7798	0.0605	-999.2500	4.8076	2.3218	1044.0000
626.0	0.2571	0.1706	121.0552	12.6838	0.0461	-999.2500	4.7303	2.2257	1004.0000
625.5	0.2918	0.1498	121.4179	12.6838	0.0292	-999.2500	4.6778	2.1686	1018.0000
625.0	0.2623	0.1277	117.8149	12.5958	0.0309	-999.2500	4.7004	2.2172	1122.0000
624.5	0.2176	0.1093	118.6305	12.5798	0.0477	-999.2500	4.8252	2.2910	1011.0000
624.0	0.2159	0.0914	112.4159	12.4678	0.0709	-999.2500	5.0502	2.2937	986.0000
623.5	0.2089	0.0866	114.5096	12.7558	0.1098	-999.2500	5.2114	2.3054	1018.0000
623.0	0.1470	0.1149	114.7426	15.7195	0.1541	-999.2500	5.2709	2.4075	1067.0000
622.5	0.0619	0.1070	118.3168	14.3956	0.1964	-999.2500	5.2214	2.5478	1091.0000
622.0	0.0287	0.0850	116.3966	12.3238	0.2615	-999.2500	5.1618	2.6027	1050.0000
621.5	0.1670	0.0852	112.3991	12.5958	0.2768	-999.2500	5.3092	2.3745	1058.0000
621.0	0.2787	0.0838	112.5155	12.5398	0.2955	-999.2500	5.4592	2.1902	1023.0000
620.5	0.2746	0.0898	113.6710	12.5558	0.2667	-999.2500	5.5322	2.1969	1019.0000
620.0	0.1458	0.0926	110.4452	12.6038	0.2100	-999.2500	5.3941	2.4095	1072.0000
619.5	0.0309	0.0922	108.1526	12.5998	0.1319	-999.2500	5.1944	2.5991	1105.0000
619.0	0.0353	0.0915	106.8168	12.5718	0.0423	-999.2500	5.0740	2.5918	1093.0000
618.5	0.0566	0.0947	112.7252	12.4678	0.0135	-999.2500	4.9694	2.5566	1062.0000
618.0	0.0559	0.1011	114.1233	12.5638	0.0083	-999.2500	4.9322	2.5577	1058.0000

617.5	0.0611	0.1054	113.7739	12.5718	-0.0032	-	999.2500	4.8765	2.5492	1077.0000
617.0	0.0648	0.1074	113.8788	12.6198	-0.0072	-	999.2500	4.8277	2.5430	1079.0000
616.5	0.0850	0.1132	113.8172	12.6358	0.0018	-	999.2500	4.8254	2.5097	1060.0000
616.0	0.0911	0.1191	118.2810	12.5238	0.0276	-	999.2500	4.8925	2.4996	1055.0000
615.5	0.0686	0.1232	120.0408	12.6518	0.0665	-	999.2500	4.9793	2.5369	1077.0000
615.0	0.0730	0.1265	116.3908	12.7078	0.0786	-	999.2500	5.0120	2.5296	1073.0000
614.5	0.0934	0.1185	115.1087	12.4918	0.0702	-	999.2500	4.9934	2.4959	1058.0000
614.0	0.1438	0.1135	114.5964	12.3718	0.0345	-	999.2500	4.9353	2.4127	1057.0000
613.5	0.1554	0.1188	120.3077	12.5318	0.0127	-	999.2500	4.8682	2.3935	1049.0000
613.0	0.1409	0.1233	119.3752	12.4918	0.0059	-	999.2500	4.8432	2.4175	1083.0000
612.5	0.1171	0.1304	116.4424	12.5078	0.0155	-	999.2500	4.8672	2.4567	1068.0000
612.0	0.1246	0.1258	110.9343	12.5038	0.0258	-	999.2500	4.9216	2.4445	1053.0000
611.5	0.1470	0.1360	113.3625	12.5758	0.0447	-	999.2500	4.9645	2.4075	1042.0000
611.0	0.1639	0.1376	115.6937	12.6718	0.0658	-	999.2500	4.9766	2.3796	992.0000
610.5	0.1841	0.1438	121.7820	12.6838	0.0778	-	999.2500	4.9719	2.3462	1040.0000
610.0	0.2077	0.1463	119.4335	12.7638	0.0761	-	999.2500	4.9538	2.3074	1094.0000
609.5	0.2286	0.1532	116.0364	12.6518	0.0712	-	999.2500	4.9353	2.2728	1100.0000
609.0	0.2248	0.1579	112.9109	12.9638	0.0829	-	999.2500	4.8845	2.2791	1038.0000
608.5	0.2193	0.1624	108.1687	13.1038	0.0973	-	999.2500	4.8214	2.2881	1001.0000
608.0	0.2219	0.1629	109.1008	12.8838	0.1041	-	999.2500	4.7712	2.2839	1030.0000
607.5	0.2351	0.1672	111.6270	13.0038	0.0988	-	999.2500	4.7650	2.2620	1055.0000
607.0	0.2606	0.1605	117.5680	12.8998	0.0891	-	999.2500	4.8135	2.2200	1001.0000
606.5	0.2908	0.1575	120.2710	13.0118	0.0782	-	999.2500	4.8685	2.1701	1024.0000
606.0	0.3158	0.1460	120.8079	12.7318	0.0686	-	999.2500	4.9242	2.1289	1084.0000
605.5	0.3085	0.1454	120.5219	13.1038	0.0688	-	999.2500	4.9380	2.1409	1093.0000
605.0	0.2875	0.1473	120.7127	13.0558	0.0720	-	999.2500	4.9397	2.1756	1087.0000
604.5	0.2719	0.1312	118.1659	12.6118	0.0731	-	999.2500	4.9296	2.2014	1056.0000
604.0	0.3071	0.1186	119.9118	12.7718	0.0466	-	999.2500	4.8911	2.1434	1006.0000

603.5	0.3084	0.1124	121.4450	12.9478	0.0273	-999.2500	4.8559	2.1411	1027.0000
603.0	0.2869	0.1116	124.9496	12.9238	0.0107	-999.2500	4.8182	2.1765	1020.0000
602.5	0.2221	0.1124	121.7713	12.9238	0.0161	-999.2500	4.8270	2.2836	1065.0000
602.0	0.1919	0.1138	122.9763	12.9318	0.0208	-999.2500	4.8528	2.3334	1106.0000
601.5	0.1788	0.1172	121.1074	12.9718	0.0315	-999.2500	4.8924	2.3550	1085.0000
601.0	0.1682	0.1237	122.0134	12.9078	0.0443	-999.2500	4.9068	2.3725	1083.0000
600.5	0.1564	0.1365	119.1773	12.6958	0.0489	-999.2500	4.8824	2.3919	1051.0000
600.0	0.1633	0.1486	113.9384	12.6838	0.0396	-999.2500	4.8289	2.3806	1068.0000
599.5	0.1883	0.1656	111.3568	12.6278	0.0251	-999.2500	4.7638	2.3393	1028.0000
599.0	0.2330	0.1848	110.0309	12.6118	0.0152	-999.2500	4.6867	2.2655	1067.0000
598.5	0.2872	0.2027	109.8520	12.8118	0.0146	-999.2500	4.6081	2.1761	1041.0000
598.0	0.3386	0.1933	107.2153	12.7078	0.0196	-999.2500	4.5493	2.0913	1076.0000
597.5	0.3803	0.1971	106.3100	12.9838	0.0182	-999.2500	4.5085	2.0225	1087.0000
597.0	0.3906	0.1956	112.7015	12.7918	0.0158	-999.2500	4.4883	2.0054	1058.0000
596.5	0.4036	0.1894	119.0472	12.5878	0.0126	-999.2500	4.4805	1.9841	1017.0000
596.0	0.4116	0.1812	121.2597	12.7398	0.0233	-999.2500	4.4843	1.9708	1058.0000
595.5	0.4358	0.1745	115.0295	12.7638	0.0292	-999.2500	4.4950	1.9310	1085.0000
595.0	0.4177	0.1538	113.8465	12.6758	0.0412	-999.2500	4.5412	1.9609	1055.0000
594.5	0.3456	0.1327	110.9352	12.6438	0.0463	-999.2500	4.6288	2.0797	1068.0000
594.0	0.2168	0.1230	115.8861	12.6718	0.0454	-999.2500	4.7266	2.2923	1052.0000
593.5	0.0987	0.1152	115.1793	12.7398	0.0311	-999.2500	4.7683	2.4871	948.0000
593.0	0.0381	0.1078	117.1771	12.7318	0.0168	-999.2500	4.7877	2.5872	1000.0000
592.5	0.0267	0.0970	115.9748	12.5318	0.0126	-999.2500	4.8270	2.6060	1034.0000
592.0	0.0227	0.0910	116.0990	12.6518	0.0160	-999.2500	4.8974	2.6126	1061.0000
591.5	0.0063	0.0844	113.4025	12.5558	0.0173	-999.2500	4.9368	2.6396	1049.0000
591.0	-0.0114	0.0837	112.9367	12.5878	0.0168	-999.2500	4.9169	2.6689	1085.0000
590.5	-0.0176	0.0879	110.5064	12.6838	0.0103	-999.2500	4.8511	2.6791	1064.0000
590.0	-0.0205	0.0862	109.3911	12.6598	0.0046	-999.2500	4.8192	2.6838	1009.0000

589.5	-0.0196	0.0856	105.8141	12.5398	0.0001	-999.2500	4.8468	2.6823	981.0000
589.0	-0.0145	0.0846	103.9547	12.6358	0.0026	-999.2500	4.9110	2.6739	1023.0000
588.5	0.0031	0.0820	105.5727	12.6118	0.0025	-999.2500	4.9413	2.6449	1028.0000
588.0	0.0108	0.0776	109.9648	12.5718	0.0080	-999.2500	4.9258	2.6323	1093.0000
587.5	0.0047	0.0764	109.6401	12.6038	0.0173	-999.2500	4.9134	2.6422	1085.0000
587.0	-0.0127	0.0717	110.6512	12.6478	0.0356	-999.2500	4.9281	2.6709	1062.0000
586.5	-0.0264	0.0725	104.2156	12.7158	0.0496	-999.2500	4.9620	2.6935	1044.0000
586.0	-0.0213	0.0741	107.5327	12.6198	0.0488	-999.2500	4.9946	2.6851	975.0000
585.5	0.0054	0.0730	103.0626	12.6238	0.0297	-999.2500	5.0038	2.6411	1022.0000
585.0	0.0146	0.0706	106.1382	12.8438	0.0284	-999.2500	5.0365	2.6258	1041.0000
584.5	0.0147	0.0634	105.0090	12.6598	0.0339	-999.2500	5.0696	2.6258	1045.0000
584.0	0.0048	0.0615	104.7606	12.8758	0.0368	-999.2500	5.1042	2.6421	1074.0000
583.5	0.0065	0.0613	105.4424	13.0118	0.0214	-999.2500	5.1193	2.6392	1057.0000
583.0	0.0172	0.0605	105.3259	13.0078	0.0009	-999.2500	5.1199	2.6216	1095.0000
582.5	0.0320	0.0588	110.3128	12.8158	-0.0044	-999.2500	5.0842	2.5971	1094.0000
582.0	0.0262	0.0629	114.5434	13.0038	-0.0045	-999.2500	5.0499	2.6068	1068.0000
581.5	-0.0007	0.0641	115.3760	12.7558	0.0088	-999.2500	5.0328	2.6512	1100.0000
581.0	-0.0458	0.0673	111.2753	12.7558	0.0306	-999.2500	5.0671	2.7256	996.0000
580.5	-0.0516	0.0683	106.9972	12.7798	0.0420	-999.2500	5.0907	2.7352	1052.0000
580.0	-0.0335	0.0645	109.2663	12.4438	0.0391	-999.2500	5.1020	2.7053	1041.0000
579.5	-0.0173	0.0616	113.2682	12.4358	0.0343	-999.2500	5.1193	2.6786	1072.0000
579.0	0.0013	0.0612	112.3045	12.5558	0.0361	-999.2500	5.1405	2.6479	1077.0000
578.5	0.0276	0.0616	112.8503	12.7798	0.0459	-999.2500	5.1632	2.6045	1040.0000
578.0	0.0320	0.0636	110.4847	12.7638	0.0594	-999.2500	5.1769	2.5973	1030.0000
577.5	0.0139	0.0658	114.9600	12.8878	0.0572	-999.2500	5.1579	2.6271	1085.0000
577.0	-0.0167	0.0712	113.7762	13.0038	0.0394	-999.2500	5.1029	2.6775	1048.0000
576.5	-0.0310	0.0738	113.6597	12.7318	0.0185	-999.2500	5.0431	2.7011	1044.0000
576.0	-0.0248	0.0781	113.2468	12.5958	0.0010	-999.2500	4.9736	2.6909	1033.0000

575.5	-0.0145	0.0813	112.8613	12.5398	0.0001	-999.2500	4.9328	2.6738	1034.0000
575.0	0.0018	0.0860	114.9057	12.6718	0.0059	-999.2500	4.9192	2.6471	1061.0000
574.5	0.0115	0.0875	112.4900	12.7318	0.0201	-999.2500	4.9545	2.6311	1051.0000
574.0	0.0059	0.0865	115.7099	12.6758	0.0376	-999.2500	5.0193	2.6402	1020.0000
573.5	0.0130	0.0884	115.7099	12.5478	0.0434	-999.2500	5.0658	2.6285	995.0000
573.0	0.0157	0.0887	117.1322	12.6918	0.0590	-999.2500	5.1032	2.6241	1013.0000
572.5	0.0329	0.0862	114.3960	12.6358	0.0734	-999.2500	5.1290	2.5957	1042.0000
572.0	0.0900	0.0804	114.8969	12.8278	0.0650	-999.2500	5.1612	2.5014	1039.0000
571.5	0.1326	0.0794	115.1865	12.7798	0.0516	-999.2500	5.1862	2.4313	1038.0000
571.0	0.1310	0.0745	112.7008	12.6518	0.0383	-999.2500	5.1907	2.4339	1028.0000
570.5	0.0801	0.0750	114.1166	12.9478	0.0374	-999.2500	5.1530	2.5179	1064.0000
570.0	0.0419	0.0724	111.8038	12.9798	0.0337	-999.2500	5.1023	2.5809	1094.0000
569.5	0.0414	0.0733	113.4199	12.9478	0.0248	-999.2500	5.0409	2.5817	1126.0000
569.0	0.0472	0.0749	114.1565	12.7878	0.0230	-999.2500	5.0013	2.5722	1048.0000
568.5	0.0654	0.0774	117.7483	12.6038	0.0203	-999.2500	4.9764	2.5420	1082.0000
568.0	0.0877	0.0818	114.4265	12.6598	0.0234	-999.2500	4.9718	2.5053	1044.0000
567.5	0.1143	0.0825	111.9776	12.6358	0.0302	-999.2500	4.9842	2.4614	997.0000
567.0	0.1330	0.0854	109.8026	12.6518	0.0369	-999.2500	5.0070	2.4306	1023.0000
566.5	0.1128	0.0888	114.0304	12.7158	0.0451	-999.2500	5.0228	2.4640	1050.0000
566.0	0.0688	0.0942	115.1269	12.8518	0.0403	-999.2500	5.0064	2.5365	1049.0000
565.5	0.0238	0.0939	114.0599	12.5518	0.0266	-999.2500	4.9597	2.6107	1065.0000
565.0	0.0205	0.1027	111.8922	12.6358	0.0219	-999.2500	4.9455	2.6162	1174.0000
564.5	0.0400	0.1043	107.9481	12.7198	0.0794	-999.2500	4.9739	2.5841	1101.0000
564.0	0.0591	0.1148	106.6323	12.8438	0.2383	-999.2500	4.9751	2.5525	1041.0000
563.5	0.1512	0.1221	109.8628	12.7318	0.3785	-999.2500	4.9455	2.4006	962.0000
563.0	0.2525	0.1337	112.9892	12.6238	0.4697	-999.2500	4.8392	2.2334	924.0000
562.5	0.3403	0.1600	115.1092	13.6437	0.4311	-999.2500	4.8417	2.0885	965.0000
562.0	0.3192	0.1665	110.7159	12.6358	0.3550	-999.2500	4.8152	2.1233	992.0000

561.5	0.2998	0.1891	112.5410	12.8758	0.2343	-999.2500	4.7831	2.1553	1053.0000
561.0	0.3374	0.1901	113.9754	12.9158	0.1257	-999.2500	4.6413	2.0933	971.0000
560.5	0.4502	0.1842	118.3687	12.8878	0.0461	-999.2500	4.5735	1.9072	1039.0000
560.0	0.5636	0.1748	119.9384	13.2997	0.0080	-999.2500	4.5997	1.7201	1096.0000
559.5	0.6249	0.1524	116.9077	13.7397	-0.0006	-999.2500	4.5940	1.6189	1023.0000
559.0	0.6225	0.1385	120.4663	13.6797	0.0176	-999.2500	4.5765	1.6228	1034.0000
558.5	0.5741	0.1421	118.6216	13.3197	0.0569	-999.2500	4.5420	1.7027	1069.0000
558.0	0.5065	0.1623	125.0827	13.3157	0.1040	-999.2500	4.6015	1.8143	1041.0000
557.5	0.4614	0.1669	120.1737	12.9638	0.1165	-999.2500	4.7090	1.8888	1055.0000
557.0	0.4283	0.1687	117.8262	12.9078	0.0902	-999.2500	4.7511	1.9433	1049.0000
556.5	0.4180	0.1677	118.8202	12.9958	0.0431	-999.2500	4.7462	1.9603	1046.0000
556.0	0.4045	0.1576	121.0701	12.7958	0.0187	-999.2500	4.6779	1.9826	1022.0000
555.5	0.4207	0.1452	125.4409	12.7078	0.0199	-999.2500	4.7025	1.9558	1007.0000
555.0	0.4584	0.1375	118.8128	12.7318	0.0324	-999.2500	4.8135	1.8936	1091.0000
554.5	0.4893	0.1401	115.8728	12.8678	0.0335	-999.2500	4.8915	1.8427	1090.0000
554.0	0.4742	0.1391	109.8382	12.8678	0.0224	-999.2500	4.8715	1.8675	1065.0000
553.5	0.4212	0.1284	108.4214	12.7798	0.0094	-999.2500	4.7642	1.9550	1008.0000
553.0	0.3426	0.1198	110.4820	12.7238	0.0172	-999.2500	4.6769	2.0847	1023.0000
552.5	0.2943	0.1170	112.7633	12.7078	0.0351	-999.2500	4.6892	2.1643	1052.0000
552.0	0.2870	0.1158	117.0404	12.6758	0.0513	-999.2500	4.7757	2.1765	1065.0000
551.5	0.3219	0.1083	112.2988	12.5318	0.0454	-999.2500	4.8516	2.1188	1051.0000
551.0	0.3303	0.1053	113.6792	12.5158	0.0380	-999.2500	4.8621	2.1050	1013.0000
550.5	0.3001	0.1044	109.6015	12.8038	0.0279	-999.2500	4.8107	2.1549	1064.0000
550.0	0.2598	0.0976	111.4096	12.7158	0.0206	-999.2500	4.7477	2.2214	1080.0000
549.5	0.2636	0.0958	108.4801	12.7198	0.0099	-999.2500	4.7109	2.2151	1014.0000
549.0	0.2827	0.0989	110.9086	12.6598	0.0108	-999.2500	4.6976	2.1836	1024.0000
548.5	0.2925	0.1023	110.3248	12.5518	0.0138	-999.2500	4.6691	2.1673	1000.0000
548.0	0.2800	0.1087	115.3514	12.6518	0.0165	-999.2500	4.6347	2.1879	1016.0000

547.5	0.2802	0.1134	109.6301	12.6598	0.0116	-999.2500	4.6159	2.1876	1006.0000
547.0	0.2909	0.1242	109.0973	12.6838	0.0204	-999.2500	4.6446	2.1701	1082.0000
546.5	0.3049	0.1344	97.5219	12.7158	0.0502	-999.2500	4.7131	2.1469	1061.0000
546.0	0.3207	0.1439	100.4485	12.8038	0.0984	-999.2500	4.8371	2.1208	1049.0000
545.5	0.3521	0.1328	99.3667	12.9118	0.1547	-999.2500	4.9949	2.0690	971.0000
545.0	0.3843	0.1147	104.1849	15.3796	0.2298	-999.2500	5.0233	2.0160	1058.0000
544.5	0.4709	0.1104	101.3198	20.1952	0.2706	-999.2500	4.8614	1.8731	1180.0000
544.0	0.5509	0.0747	101.4073	17.9954	0.2859	-999.2500	4.5687	1.7410	1035.0000
543.5	0.6197	0.0706	106.0241	18.1393	0.2757	-999.2500	4.1819	1.6275	1062.0000
543.0	0.7346	0.0705	106.8217	17.9514	0.2049	-999.2500	4.0450	1.4380	1038.0000
542.5	0.8050	0.0859	114.0468	18.5633	0.1743	-999.2500	4.0708	1.3218	1055.0000
542.0	0.7571	0.0961	117.1192	16.6435	0.1714	-999.2500	4.3798	1.4009	1033.0000
541.5	0.4941	0.0887	126.3016	13.4757	0.2153	-999.2500	4.7161	1.8348	986.0000
541.0	0.2625	0.0776	128.9614	12.5878	0.1528	-999.2500	4.9188	2.2169	1058.0000
540.5	0.1220	0.0702	126.7291	12.8198	0.0541	-999.2500	5.0324	2.4486	1042.0000
540.0	0.0614	0.0641	127.2423	12.8638	-0.0165	-999.2500	4.9847	2.5487	1139.0000
539.5	-0.0095	0.0592	122.1206	12.7958	-0.0144	-999.2500	4.9831	2.6656	1095.0000
539.0	-0.0419	0.0574	121.2689	12.8638	-0.0150	-999.2500	4.9724	2.7191	1020.0000
538.5	-0.0321	0.0572	116.0989	12.7558	-0.0210	-999.2500	4.9398	2.7030	992.0000
538.0	-0.0146	0.0568	117.5896	12.6918	-0.0137	-999.2500	4.9157	2.6741	1014.0000
537.5	-0.0011	0.0555	119.7067	12.6998	-0.0223	-999.2500	4.9073	2.6518	1057.0000
537.0	-0.0110	0.0559	120.6146	12.6598	-0.0264	-999.2500	4.9067	2.6681	1068.0000
536.5	-0.0254	0.0550	118.8679	12.6518	-0.0449	-999.2500	4.8705	2.6918	1049.0000
536.0	-0.0422	0.0546	114.9416	12.6198	-0.0369	-999.2500	4.8226	2.7196	984.0000
535.5	-0.0503	0.0538	115.1243	12.6598	-0.0247	-999.2500	4.7863	2.7330	1037.0000
535.0	-0.0510	0.0538	112.2356	12.7478	-0.0056	-999.2500	4.8321	2.7342	1096.0000
534.5	-0.0443	0.0523	116.2161	12.7558	-0.0042	-999.2500	4.8782	2.7232	1034.0000
534.0	-0.0518	0.0526	118.0009	12.6438	-0.0094	-999.2500	4.9265	2.7355	986.0000

533.5	-0.0615	0.0536	125.5267	12.5958	-0.0170	-999.2500	4.8854	2.7515	1044.0000
533.0	-0.0679	0.0554	127.3570	12.7478	-0.0298	-999.2500	4.8137	2.7620	995.0000
532.5	-0.0639	0.0553	122.7223	12.7078	-0.0401	-999.2500	4.7541	2.7555	1017.0000
532.0	-0.0660	0.0547	112.7453	12.6478	-0.0408	-999.2500	4.8048	2.7588	1009.0000
531.5	-0.0747	0.0536	107.9831	12.7078	-0.0111	-999.2500	4.9446	2.7733	1036.0000
531.0	-0.0625	0.0516	104.5359	12.6118	0.0337	-999.2500	5.1359	2.7532	1041.0000
530.5	-0.0093	0.0493	99.9719	12.4918	0.0629	-999.2500	5.2971	2.6653	1030.0000
530.0	0.0233	0.0515	95.4996	12.8118	0.0852	-999.2500	5.4002	2.6116	1038.0000
529.5	0.0365	0.0514	99.8318	12.7918	0.0899	-999.2500	5.4392	2.5898	1034.0000
529.0	0.0205	0.0515	108.9053	12.7238	0.0923	-999.2500	5.4428	2.6162	1061.0000
528.5	0.0306	0.0511	113.2611	12.7478	0.0692	-999.2500	5.4134	2.5994	1055.0000
528.0	0.0444	0.0498	112.2766	12.7078	0.0307	-999.2500	5.2787	2.5767	1072.0000
527.5	0.0518	0.0492	115.2030	12.6758	0.0038	-999.2500	5.0933	2.5646	1051.0000
527.0	0.0603	0.0487	115.4843	12.7078	-0.0163	-999.2500	4.9785	2.5506	1020.0000
526.5	0.0438	0.0507	116.0151	12.7678	-0.0106	-999.2500	4.8930	2.5777	1045.0000
526.0	0.0241	0.0531	113.4166	12.7558	-0.0061	-999.2500	4.9243	2.6103	1051.0000
525.5	-0.0060	0.0546	116.8538	12.6118	0.0068	-999.2500	4.9566	2.6599	1044.0000
525.0	-0.0268	0.0571	119.1008	12.7878	0.0087	-999.2500	5.0621	2.6942	1027.0000
524.5	-0.0441	0.0549	116.8898	12.6478	-0.0014	-999.2500	5.0542	2.7228	1020.0000
524.0	-0.0390	0.0542	115.3061	12.5398	-0.0145	-999.2500	5.0325	2.7143	1019.0000
523.5	-0.0026	0.0549	114.7962	12.4438	-0.0165	-999.2500	5.2511	2.6543	1013.0000
523.0	-0.0000	0.0580	112.1138	12.5638	-0.0160	-999.2500	5.2570	2.6500	964.0000
522.5	-0.0223	0.0610	109.4493	12.7398	-0.0179	-999.2500	5.2372	2.6868	1012.0000
522.0	-0.0573	0.0617	109.5478	12.8158	-0.0260	-999.2500	4.9786	2.7446	1009.0000
521.5	-0.0563	0.0630	113.8455	12.9318	-0.0326	-999.2500	4.9482	2.7429	999.0000
521.0	-0.0424	0.0638	114.1243	13.0318	-0.0391	-999.2500	4.8947	2.7199	1042.0000
520.5	-0.0377	0.0609	113.9034	12.5158	-0.0408	-999.2500	4.8491	2.7123	1177.0000
520.0	-0.0406	0.0627	112.2887	12.5478	-0.0247	-999.2500	4.8640	2.7169	1174.0000

519.5	-0.0150	0.0596	112.9922	12.5958	-0.0102	-999.2500	4.9167	2.6747	1078.0000
519.0	0.0038	0.0565	112.0931	12.5158	0.0098	-999.2500	4.9593	2.6437	965.0000
518.5	0.0124	0.0567	114.5546	12.7158	0.0216	-999.2500	4.9907	2.6296	941.0000
518.0	-0.0004	0.0679	115.7700	13.5477	0.0270	-999.2500	4.9753	2.6507	1016.0000
517.5	-0.0119	0.0706	119.3003	13.4217	0.0251	-999.2500	4.9502	2.6696	1058.0000
517.0	-0.0159	0.0664	118.5397	12.7238	0.0183	-999.2500	4.9083	2.6763	1030.0000
516.5	-0.0243	0.0635	115.6620	12.5958	0.0176	-999.2500	4.8923	2.6900	1042.0000
516.0	-0.0348	0.0618	109.2380	12.5758	0.0265	-999.2500	4.9131	2.7075	1019.0000
515.5	-0.0206	0.0616	110.0020	12.7918	0.0346	-999.2500	4.9483	2.6839	1037.0000
515.0	-0.0086	0.0596	112.0454	12.6198	0.0467	-999.2500	4.9916	2.6642	1045.0000
514.5	0.0042	0.0584	117.4020	12.5878	0.0410	-999.2500	4.9823	2.6430	1023.0000
514.0	-0.0060	0.0579	119.2997	12.5038	0.0273	-999.2500	4.9162	2.6600	1011.0000
513.5	-0.0196	0.0594	114.9994	12.5958	0.0000	-999.2500	4.8071	2.6824	1051.0000
513.0	-0.0332	0.0594	114.8787	12.5718	-0.0233	-999.2500	4.7260	2.7047	1024.0000
512.5	-0.0516	0.0592	110.5378	12.5958	-0.0280	-999.2500	4.6792	2.7351	1044.0000
512.0	-0.0734	0.0589	112.8501	12.5958	-0.0158	-999.2500	4.6370	2.7712	1006.0000
511.5	-0.0882	0.0591	109.5116	12.6038	-0.0024	-999.2500	4.5891	2.7956	1056.0000
511.0	-0.0919	0.0596	111.1432	12.5638	0.0019	-999.2500	4.5894	2.8016	1046.0000
510.5	-0.0873	0.0594	110.7656	12.5958	-0.0136	-999.2500	4.6674	2.7941	1030.0000
510.0	-0.0815	0.0587	108.9847	12.6038	-0.0179	-999.2500	4.7447	2.7845	1013.0000
509.5	-0.0779	0.0578	106.1949	12.5518	-0.0213	-999.2500	4.8104	2.7786	1023.0000
509.0	-0.0799	0.0579	108.8916	12.5958	-0.0065	-999.2500	4.7787	2.7819	1036.0000
508.5	-0.0817	0.0590	109.9564	12.5478	-0.0040	-999.2500	4.7625	2.7847	1025.0000
508.0	-0.0812	0.0607	111.4653	12.5878	-0.0033	-999.2500	4.7333	2.7840	1055.0000
507.5	-0.0812	0.0599	110.4973	12.5878	-0.0043	-999.2500	4.7606	2.7840	1033.0000
507.0	-0.0816	0.0591	107.4222	12.5478	-0.0031	-999.2500	4.7639	2.7847	1045.0000
506.5	-0.0824	0.0606	104.9920	12.6118	-0.0010	-999.2500	4.7489	2.7859	1027.0000
506.0	-0.0821	0.0593	99.5061	12.5878	-0.0001	-999.2500	4.7507	2.7854	1033.0000

505.5	-0.0836	0.0588	103.5590	12.5558	0.0001	-999.2500	4.7520	2.7880	1044.0000
505.0	-0.0831	0.0605	104.0048	12.6198	-0.0008	-999.2500	4.7872	2.7872	1038.0000
504.5	-0.0826	0.0603	108.1112	12.5878	-0.0017	-999.2500	4.8292	2.7862	1007.0000
504.0	-0.0803	0.0590	108.4838	12.5718	-0.0029	-999.2500	4.8875	2.7825	1033.0000
503.5	-0.0808	0.0589	106.5674	12.6118	-0.0028	-999.2500	4.8982	2.7833	1037.0000
503.0	-0.0847	0.0575	107.3234	12.5518	-0.0007	-999.2500	4.8599	2.7897	1018.0000
502.5	-0.0832	0.0577	107.7558	12.5878	-0.0058	-999.2500	4.8304	2.7873	1008.0000
502.0	-0.0784	0.0599	115.5290	12.5638	-0.0039	-999.2500	4.7906	2.7793	1035.0000
501.5	-0.0654	0.0640	113.4257	12.5478	-0.0084	-999.2500	4.7801	2.7578	1030.0000
501.0	-0.0563	0.0709	112.8426	12.6118	-0.0149	-999.2500	4.7760	2.7429	1034.0000
500.5	-0.0412	0.0757	106.8351	12.6358	-0.0295	-999.2500	4.7984	2.7180	1007.0000
500.0	-0.0280	0.0779	103.4658	12.6238	-0.0415	-999.2500	4.8194	2.6962	1062.0000
499.5	-0.0199	0.0780	99.2677	12.6518	-0.0403	-999.2500	4.8263	2.6829	1011.0000
499.0	-0.0261	0.0822	99.5845	12.7638	-0.0393	-999.2500	4.8025	2.6930	1020.0000
498.5	-0.0444	0.0813	104.7896	12.6838	-0.0265	-999.2500	4.7605	2.7233	1014.0000
498.0	-0.0521	0.0805	102.9238	12.6838	-0.0145	-999.2500	4.6681	2.7360	1008.0000
497.5	-0.0501	0.0786	101.1389	12.6678	0.0000	-999.2500	4.6691	2.7327	1052.0000
497.0	-0.0359	0.0772	97.4056	12.5758	0.0004	-999.2500	4.6904	2.7092	1034.0000
496.5	-0.0337	0.0771	99.0842	12.6438	-0.0105	-999.2500	4.7427	2.7056	1009.0000
496.0	-0.0470	0.0766	103.1297	12.6518	-0.0111	-999.2500	4.7172	2.7276	1025.0000
495.5	-0.0652	0.0772	102.8654	12.7078	-0.0089	-999.2500	4.6778	2.7576	1017.0000
495.0	-0.0792	0.0742	102.4338	12.6278	0.0016	-999.2500	4.6612	2.7808	1062.0000
494.5	-0.0785	0.0726	97.6946	12.5398	-0.0077	-999.2500	4.7018	2.7795	1033.0000
494.0	-0.0700	0.0715	98.6915	12.5638	-0.0244	-999.2500	4.7164	2.7655	1015.0000
493.5	-0.0539	0.0712	100.1108	12.5398	-0.0303	-999.2500	4.7221	2.7390	1030.0000
493.0	-0.0316	0.0718	98.2107	12.5278	-0.0240	-999.2500	4.7076	2.7022	1042.0000
492.5	-0.0234	0.0724	96.3284	12.5398	-0.0096	-999.2500	4.7092	2.6885	1008.0000
492.0	-0.0297	0.0733	95.4385	12.5798	-0.0037	-999.2500	4.7361	2.6990	1018.0000

491.5	-0.0424	0.0706	96.1021	12.5518	-0.0027	-999.2500	4.7174	2.7200	1013.0000
491.0	-0.0527	0.0691	99.0494	12.5878	0.0004	-999.2500	4.6737	2.7370	1023.0000
490.5	-0.0500	0.0669	101.1376	12.5998	0.0003	-999.2500	4.6228	2.7325	999.0000
490.0	-0.0523	0.0632	101.7206	12.4798	-0.0021	-999.2500	4.6160	2.7363	982.0000
489.5	-0.0567	0.0644	98.0740	12.6838	-0.0055	-999.2500	4.6480	2.7435	1017.0000
489.0	-0.0703	0.0634	97.1047	12.6118	-0.0052	-999.2500	4.6372	2.7659	999.0000
488.5	-0.0820	0.0598	98.6048	12.5158	-0.0022	-999.2500	4.6071	2.7853	1029.0000
488.0	-0.0814	0.0577	95.8437	12.5798	0.0008	-999.2500	4.5925	2.7842	1041.0000
487.5	-0.0668	0.0583	93.1959	12.5758	-0.0002	-999.2500	4.6409	2.7603	1016.0000
487.0	-0.0347	0.0558	91.0387	12.4998	-0.0051	-999.2500	4.8480	2.7073	1024.0000
486.5	-0.0199	0.0571	92.1419	12.5718	-0.0076	-999.2500	4.9780	2.6828	1031.0000
486.0	-0.0279	0.0580	90.4535	12.5998	-0.0061	-999.2500	4.9998	2.6960	1020.0000
485.5	-0.0608	0.0593	91.3134	12.6198	0.0010	-999.2500	4.8670	2.7504	992.0000
485.0	-0.0830	0.0596	93.4408	12.6838	0.0056	-999.2500	4.7892	2.7869	971.0000
484.5	-0.0900	0.0582	95.2168	12.5998	0.0066	-999.2500	4.7917	2.7985	998.0000
484.0	-0.0821	0.0561	94.1829	12.5718	0.0046	-999.2500	4.7556	2.7855	1041.0000
483.5	-0.0661	0.0568	92.5984	12.5238	0.0015	-999.2500	4.7791	2.7591	1007.0000
483.0	-0.0456	0.0585	96.4283	12.5398	-0.0044	-999.2500	4.8446	2.7253	1000.0000
482.5	-0.0421	0.0602	98.7753	12.5318	-0.0053	-999.2500	4.8788	2.7195	1012.0000
482.0	-0.0495	0.0644	104.0208	12.6518	-0.0105	-999.2500	4.8663	2.7317	1023.0000
481.5	-0.0591	0.0684	101.9136	12.9118	-0.0208	-999.2500	4.8062	2.7475	1006.0000
481.0	-0.0631	0.0670	101.1985	12.7558	-0.0281	-999.2500	4.8127	2.7541	1030.0000
480.5	-0.0606	0.0683	100.2318	12.6998	-0.0371	-999.2500	4.8010	2.7500	1034.0000
480.0	-0.0606	0.0727	97.6787	12.8278	-0.0312	-999.2500	4.8036	2.7499	1006.0000
479.5	-0.0463	0.0725	96.8905	12.7078	-0.0269	-999.2500	4.8173	2.7264	985.0000
479.0	-0.0231	0.0715	92.4305	12.6598	-0.0132	-999.2500	4.8717	2.6881	991.0000
478.5	0.0186	0.0734	93.3188	12.5278	-0.0055	-999.2500	4.9271	2.6194	1039.0000
478.0	0.0320	0.0740	97.3197	12.5398	0.0017	-999.2500	4.9856	2.5972	1027.0000

477.5	0.0091	0.0774	97.0583	12.6518	0.0147	-999.2500	5.0374	2.6350	1016.0000
477.0	-0.0251	0.0787	97.0427	12.6918	0.0157	-999.2500	5.0632	2.6914	999.0000
476.5	-0.0387	0.0775	93.2169	12.6598	0.0083	-999.2500	5.0623	2.7138	1013.0000
476.0	-0.0120	0.0755	99.3687	12.5798	-0.0087	-999.2500	5.0389	2.6698	1027.0000
475.5	-0.0037	0.0754	98.7324	12.5638	-0.0135	-999.2500	4.9845	2.6561	1023.0000
475.0	-0.0027	0.0788	100.6799	12.6598	-0.0254	-999.2500	4.8948	2.6544	1001.0000
474.5	-0.0221	0.0820	98.3691	12.6198	-0.0277	-999.2500	4.7954	2.6865	1020.0000
474.0	-0.0337	0.0835	100.3877	12.6678	-0.0217	-999.2500	4.7072	2.7055	992.0000
473.5	-0.0370	0.0835	96.8244	12.6358	-0.0050	-999.2500	4.6420	2.7111	1041.0000
473.0	-0.0337	0.0843	96.5069	12.5718	0.0043	-999.2500	4.6247	2.7055	999.0000
472.5	-0.0273	0.0833	97.0205	12.6438	0.0040	-999.2500	4.6289	2.6951	992.0000
472.0	-0.0255	0.0825	98.3321	12.6358	0.0036	-999.2500	4.6418	2.6921	992.0000
471.5	-0.0272	0.0831	97.9444	12.6518	0.0020	-999.2500	4.6455	2.6949	1039.0000
471.0	-0.0360	0.0846	100.5023	12.8198	0.0009	-999.2500	4.6359	2.7093	989.0000
470.5	-0.0474	0.0839	100.1498	12.8278	0.0009	-999.2500	4.6134	2.7283	1025.0000
470.0	-0.0552	0.0837	98.2517	12.7958	-0.0028	-999.2500	4.5853	2.7410	1002.0000
469.5	-0.0548	0.0852	95.5037	12.8278	-0.0068	-999.2500	4.6222	2.7404	985.0000
469.0	-0.0420	0.0836	96.2179	12.6598	-0.0208	-999.2500	4.6858	2.7194	992.0000
468.5	-0.0374	0.0837	98.9858	12.5958	-0.0220	-999.2500	4.7535	2.7117	998.0000
468.0	-0.0311	0.0843	97.6683	12.6518	-0.0237	-999.2500	4.7686	2.7012	1051.0000
467.5	-0.0169	0.0844	98.2086	12.5878	-0.0252	-999.2500	4.7572	2.6778	1028.0000
467.0	-0.0033	0.0853	98.3090	12.6278	-0.0303	-999.2500	4.7424	2.6555	986.0000
466.5	-0.0028	0.0862	101.7880	12.8158	-0.0264	-999.2500	4.7600	2.6546	1001.0000
466.0	-0.0176	0.0819	101.9899	12.7678	-0.0122	-999.2500	4.7926	2.6790	1000.0000
465.5	-0.0153	0.0763	98.2187	12.8038	-0.0026	-999.2500	4.8044	2.6752	997.0000
465.0	0.0056	0.0683	92.5979	12.6838	0.0017	-999.2500	4.8065	2.6407	1006.0000
464.5	0.0214	0.0662	90.8373	12.7918	0.0110	-999.2500	4.8389	2.6147	1003.0000
464.0	0.0348	0.0633	90.3872	12.7558	0.0112	-999.2500	4.8729	2.5925	1006.0000

463.5	0.0383	0.0615	95.5623	12.7718	0.0074	-999.2500	4.8902	2.5869	1034.0000
463.0	0.0378	0.0600	91.5160	12.8638	0.0021	-999.2500	4.8970	2.5876	1011.0000
462.5	0.0256	0.0561	89.5582	12.6998	0.0060	-999.2500	4.9253	2.6077	1007.0000
462.0	0.0117	0.0572	86.0940	12.7958	0.0144	-999.2500	4.9848	2.6307	995.0000
461.5	0.0124	0.0564	87.6490	12.8118	0.0206	-999.2500	5.0283	2.6295	1028.0000
461.0	0.0221	0.0539	89.2844	12.7718	0.0257	-999.2500	5.0266	2.6136	1002.0000
460.5	0.0315	0.0539	86.9668	12.8638	0.0270	-999.2500	4.9895	2.5980	985.0000
460.0	0.0344	0.0525	92.3584	12.7558	0.0224	-999.2500	4.9549	2.5933	1006.0000
459.5	0.0336	0.0525	98.0172	12.7078	0.0169	-999.2500	4.9388	2.5946	1004.0000
459.0	0.0514	0.0527	100.6845	12.8878	0.0046	-999.2500	4.9027	2.5652	992.0000
458.5	0.0677	0.0527	96.7941	12.9958	-0.0000	-999.2500	4.8784	2.5383	1008.0000
458.0	0.0721	0.0545	93.0106	12.9878	-0.0030	-999.2500	4.8835	2.5310	1000.0000
457.5	0.0680	0.0559	96.0411	12.9598	-0.0044	-999.2500	4.9026	2.5377	993.0000
457.0	0.0670	0.0569	97.6767	12.9158	-0.0105	-999.2500	4.8748	2.5395	961.0000
456.5	0.0761	0.0579	97.3307	12.9118	-0.0103	-999.2500	4.8164	2.5245	975.0000
456.0	0.0797	0.0585	94.1688	12.8878	-0.0002	-999.2500	4.7980	2.5185	968.0000
455.5	0.0839	0.0582	96.0141	12.8838	0.0117	-999.2500	4.8389	2.5116	1004.0000
455.0	0.0845	0.0575	99.3999	12.8158	0.0219	-999.2500	4.9038	2.5106	1000.0000
454.5	0.0854	0.0587	98.7452	12.9598	0.0304	-999.2500	4.9461	2.5091	989.0000
454.0	0.1039	0.0589	95.2074	12.7558	0.0305	-999.2500	4.9595	2.4785	985.0000
453.5	0.1278	0.0602	95.1006	12.7078	0.0281	-999.2500	4.9635	2.4391	984.0000
453.0	0.1354	0.0631	97.0215	12.8358	0.0280	-999.2500	4.9551	2.4267	999.0000
452.5	0.1146	0.0607	97.4709	12.8438	0.0277	-999.2500	4.9255	2.4609	975.0000
452.0	0.0886	0.0624	93.8277	12.8758	0.0241	-999.2500	4.8773	2.5038	965.0000
451.5	0.0803	0.0635	90.9304	12.8838	0.0182	-999.2500	4.8436	2.5175	992.0000
451.0	0.0784	0.0619	90.2907	12.7958	0.0257	-999.2500	4.8625	2.5206	1011.0000
450.5	0.0869	0.0594	90.9851	12.7438	0.0299	-999.2500	4.9057	2.5066	992.0000
450.0	0.0944	0.0639	95.8620	12.8638	0.0307	-999.2500	4.9490	2.4942	975.0000

449.5	0.0968	0.0642	101.3711	12.8838	0.0243	-999.2500	4.9600	2.4902	981.0000
449.0	0.0910	0.0645	103.8745	12.8998	0.0162	-999.2500	4.9485	2.4998	995.0000
448.5	0.0824	0.0613	101.8090	12.8838	0.0097	-999.2500	4.9309	2.5141	1013.0000
448.0	0.0817	0.0608	101.6924	12.8278	0.0082	-999.2500	4.9142	2.5152	1002.0000
447.5	0.0855	0.0579	101.8340	12.7718	0.0137	-999.2500	4.8878	2.5089	1011.0000
447.0	0.0926	0.0590	99.4004	12.7718	0.0142	-999.2500	4.8401	2.4971	970.0000
446.5	0.1036	0.0575	95.4355	12.7078	0.0083	-999.2500	4.8047	2.4790	1009.0000
446.0	0.1097	0.0588	94.9039	12.7198	-0.0001	-999.2500	4.7859	2.4689	981.0000
445.5	0.1139	0.0584	99.2024	12.7318	-0.0097	-999.2500	4.7832	2.4620	1026.0000
445.0	0.1140	0.0584	98.9545	12.7798	-0.0132	-999.2500	4.7888	2.4620	975.0000
444.5	0.1135	0.0580	95.0982	12.7798	-0.0087	-999.2500	4.8091	2.4627	975.0000
444.0	0.1108	0.0581	92.2655	12.7798	0.0030	-999.2500	4.8339	2.4672	996.0000
443.5	0.1018	0.0584	90.6804	12.7718	0.0141	-999.2500	4.8614	2.4820	992.0000
443.0	0.0854	0.0571	91.4384	12.7678	0.0267	-999.2500	4.9034	2.5090	1002.0000
442.5	0.0628	0.0554	92.5239	12.7318	0.0385	-999.2500	4.9458	2.5463	1030.0000
442.0	0.0517	0.0538	94.0795	12.7558	0.0336	-999.2500	4.9426	2.5647	995.0000
441.5	0.0518	0.0555	95.4214	12.7958	0.0144	-999.2500	4.8704	2.5645	982.0000
441.0	0.0644	0.0556	92.5948	12.8038	-0.0073	-999.2500	4.7796	2.5437	1002.0000
440.5	0.0768	0.0580	95.9881	12.7478	-0.0089	-999.2500	4.7310	2.5232	1030.0000
440.0	0.0873	0.0581	99.1475	12.7078	0.0009	-999.2500	4.7409	2.5059	974.0000
439.5	0.0866	0.0581	100.4228	12.6678	0.0152	-999.2500	4.7875	2.5072	969.0000
439.0	0.0769	0.0566	97.5251	12.6478	0.0242	-999.2500	4.8498	2.5230	1006.0000
438.5	0.0709	0.0545	97.1865	12.7318	0.0290	-999.2500	4.9211	2.5330	970.0000
438.0	0.0922	0.0519	100.2841	12.7238	0.0218	-999.2500	4.9890	2.4979	1011.0000
437.5	0.1081	0.0514	103.9308	12.7158	0.0179	-999.2500	5.0210	2.4716	985.0000
437.0	0.1160	0.0526	100.2715	12.8038	0.0126	-999.2500	5.0030	2.4586	981.0000
436.5	0.1106	0.0534	99.8737	12.6918	0.0128	-999.2500	4.9542	2.4675	992.0000
436.0	0.1049	0.0577	97.8589	12.8438	0.0189	-999.2500	4.9230	2.4769	997.0000

435.5	0.0991	0.0580	104.3045	12.9238	0.0275	-999.2500	4.9014	2.4865	1007.0000
435.0	0.0916	0.0556	105.9400	12.7558	0.0349	-999.2500	4.8662	2.4988	998.0000
434.5	0.1025	0.0570	105.4583	12.9158	0.0258	-999.2500	4.8092	2.4809	1015.0000
434.0	0.1210	0.0566	102.5848	12.8118	0.0173	-999.2500	4.8049	2.4503	1023.0000
433.5	0.1383	0.0579	96.6247	12.8638	0.0151	-999.2500	4.8495	2.4217	1001.0000
433.0	0.1527	0.0580	97.4403	12.8278	0.0130	-999.2500	4.8557	2.3981	999.0000
432.5	0.1578	0.0556	98.4343	12.7558	0.0080	-999.2500	4.8363	2.3896	973.0000
432.0	0.1672	0.0513	101.9976	12.7238	0.0020	-999.2500	4.7643	2.3742	993.0000
431.5	0.1750	0.0513	104.6088	12.7078	0.0011	-999.2500	4.7313	2.3613	1029.0000
431.0	0.1815	0.0538	109.5585	12.7238	0.0005	-999.2500	4.6760	2.3506	1020.0000
430.5	0.1542	0.0571	111.5847	12.7238	0.0047	-999.2500	4.6820	2.3955	995.0000
430.0	0.1105	0.0599	112.1018	12.7558	0.0157	-999.2500	4.7352	2.4677	1031.0000
429.5	0.0726	0.0611	111.7494	12.8518	0.0284	-999.2500	4.8202	2.5302	1006.0000
429.0	0.0563	0.0622	113.7465	12.8198	0.0370	-999.2500	4.9091	2.5571	1004.0000
428.5	0.0547	0.0634	109.8674	12.8518	0.0344	-999.2500	4.9600	2.5597	1025.0000
428.0	0.0552	0.0641	108.7630	12.7718	0.0253	-999.2500	4.9624	2.5589	996.0000
427.5	0.0708	0.0609	110.8601	12.7078	0.0096	-999.2500	4.9063	2.5331	1011.0000
427.0	0.0819	0.0608	116.3072	12.7678	0.0018	-999.2500	4.8664	2.5148	1004.0000
426.5	0.0823	0.0592	113.6147	12.7718	0.0029	-999.2500	4.8591	2.5143	1023.0000
426.0	0.0719	0.0602	113.8662	12.7798	0.0090	-999.2500	4.8624	2.5314	1014.0000
425.5	0.0628	0.0595	110.7976	12.8638	0.0201	-999.2500	4.8516	2.5465	996.0000
425.0	0.0740	0.0589	108.2794	12.8118	0.0320	-999.2500	4.8561	2.5278	1031.0000
424.5	0.0862	0.0578	110.1833	12.7678	0.0541	-999.2500	4.9050	2.5078	1006.0000
424.0	0.0917	0.0590	112.3343	13.0198	0.0749	-999.2500	4.9742	2.4986	1051.0000
423.5	0.0914	0.0585	110.0020	12.7638	0.0819	-999.2500	5.0394	2.4992	975.0000
423.0	0.0818	0.0590	106.5829	12.7558	0.0735	-999.2500	5.0742	2.5150	964.0000
422.5	0.0870	0.0592	106.9182	12.7078	0.0448	-999.2500	5.0449	2.5065	987.0000
422.0	0.0857	0.0597	112.2650	12.7318	0.0248	-999.2500	4.9757	2.5086	979.0000

421.5	0.0905	0.0610	111.6510	12.8038	0.0131	-999.2500	4.9074	2.5008	982.0000
421.0	0.0887	0.0618	110.9331	12.6958	0.0185	-999.2500	4.8916	2.5036	974.0000
420.5	0.0829	0.0657	113.4788	12.8198	0.0307	-999.2500	4.9109	2.5132	995.0000
420.0	0.0696	0.0656	114.3485	12.7878	0.0450	-999.2500	4.9402	2.5352	954.0000
419.5	0.0571	0.0673	113.9816	12.8118	0.0511	-999.2500	4.9621	2.5558	981.0000
419.0	0.0513	0.0671	109.8873	12.6678	0.0494	-999.2500	4.9645	2.5654	1001.0000
418.5	0.0602	0.0656	110.6984	12.7558	0.0413	-999.2500	4.9466	2.5507	988.0000
418.0	0.0817	0.0619	108.6688	12.6918	0.0307	-999.2500	4.9175	2.5152	999.0000
417.5	0.0994	0.0644	112.2421	12.6118	0.0281	-999.2500	4.9090	2.4859	959.0000
417.0	0.1007	0.0697	112.1765	12.8358	0.0307	-999.2500	4.9096	2.4839	1013.0000
416.5	0.0887	0.0699	115.2546	12.8158	0.0336	-999.2500	4.9056	2.5036	1018.0000
416.0	0.0854	0.0686	117.0480	12.7638	0.0249	-999.2500	4.8709	2.5091	1006.0000
415.5	0.0893	0.0669	114.0314	12.8278	0.0164	-999.2500	4.8391	2.5026	982.0000
415.0	0.0915	0.0658	114.5778	12.7798	0.0173	-999.2500	4.8427	2.4990	984.0000
414.5	0.0849	0.0653	109.7296	12.7238	0.0272	-999.2500	4.8875	2.5099	976.0000
414.0	0.0929	0.0652	116.5238	12.6358	0.0227	-999.2500	4.9468	2.4967	1008.0000
413.5	0.0942	0.0673	115.2783	12.6118	0.0199	-999.2500	5.0003	2.4945	990.0000
413.0	0.0964	0.0706	115.0118	12.6678	0.0111	-999.2500	4.9750	2.4910	980.0000
412.5	0.0818	0.0728	111.7481	12.7238	0.0173	-999.2500	4.9096	2.5151	981.0000
412.0	0.0694	0.0722	115.1777	12.7198	0.0295	-999.2500	4.8487	2.5354	951.0000
411.5	0.0664	0.0752	121.9128	12.8918	0.0430	-999.2500	4.8452	2.5404	964.0000
411.0	0.0638	0.0773	122.1245	12.7478	0.0517	-999.2500	4.8647	2.5447	975.0000
410.5	0.0686	0.0790	120.6938	12.7478	0.0450	-999.2500	4.8642	2.5367	970.0000
410.0	0.0845	0.0780	117.2370	12.7078	0.0284	-999.2500	4.8595	2.5105	922.0000
409.5	0.1094	0.0783	113.2281	12.8118	0.0086	-999.2500	4.8545	2.4695	947.0000
409.0	0.1194	0.0740	109.3148	12.6998	0.0003	-999.2500	4.8675	2.4530	970.0000
408.5	0.1084	0.0737	104.7009	12.8678	0.0035	-999.2500	4.8910	2.4711	971.0000
408.0	0.0947	0.0695	105.3681	12.8118	0.0101	-999.2500	4.9146	2.4937	1000.0000

407.5	0.0945	0.0676	109.7186	12.8118	0.0141	-999.2500	4.9261	2.4940	964.0000
407.0	0.0995	0.0644	109.9872	12.8678	0.0211	-999.2500	4.9346	2.4858	988.0000
406.5	0.1000	0.0635	113.7000	12.7318	0.0304	-999.2500	4.9528	2.4851	975.0000
406.0	0.1041	0.0614	112.2945	12.7238	0.0304	-999.2500	4.9677	2.4783	988.0000
405.5	0.1095	0.0621	111.5710	12.7198	0.0260	-999.2500	4.9845	2.4693	962.0000
405.0	0.1037	0.0639	108.4537	12.8158	0.0252	-999.2500	4.9831	2.4788	974.0000
404.5	0.0934	0.0682	107.3534	12.8678	0.0220	-999.2500	4.9466	2.4960	962.0000
404.0	0.0754	0.0696	111.0942	12.8518	0.0178	-999.2500	4.8779	2.5256	965.0000
403.5	0.0740	0.0675	111.6120	12.8398	0.0158	-999.2500	4.8350	2.5279	938.0000
403.0	0.0612	0.0625	112.8467	12.6678	0.0380	-999.2500	4.8656	2.5490	940.0000
402.5	0.0579	0.0612	112.0593	12.6918	0.0551	-999.2500	4.9387	2.5544	963.0000
402.0	0.0510	0.0621	109.8522	12.8398	0.0521	-999.2500	4.9768	2.5659	934.0000
401.5	0.0650	0.0625	109.1551	12.7558	0.0217	-999.2500	4.9391	2.5427	952.0000
401.0	0.0744	0.0604	105.7764	12.6518	0.0016	-999.2500	4.8997	2.5273	946.0000
400.5	0.0902	0.0583	106.7891	12.6718	-0.0040	-999.2500	4.9019	2.5011	992.0000
400.0	0.0932	0.0589	102.9426	12.6278	0.0064	-999.2500	4.9486	2.4962	1002.0000
399.5	0.0983	0.0605	106.4194	12.7078	0.0133	-999.2500	4.9859	2.4878	964.0000
399.0	0.0988	0.0607	107.9309	12.6918	0.0195	-999.2500	5.0040	2.4869	971.0000
398.5	0.0956	0.0613	112.3132	12.6758	0.0231	-999.2500	5.0033	2.4923	973.0000
398.0	0.0885	0.0627	106.7506	12.6918	0.0210	-999.2500	4.9882	2.5039	975.0000
397.5	0.0736	0.0648	107.0185	12.7398	0.0200	-999.2500	4.9740	2.5285	953.0000
397.0	0.0586	0.0655	106.7692	12.6598	0.0163	-999.2500	4.9562	2.5534	988.0000
396.5	0.0414	0.0661	111.9185	12.6518	0.0137	-999.2500	4.9399	2.5817	975.0000
396.0	0.0312	0.0663	110.8668	12.6838	0.0079	-999.2500	4.9368	2.5986	962.0000
395.5	0.0264	0.0674	112.4796	12.6438	0.0058	-999.2500	4.9590	2.6065	946.0000
395.0	0.0344	0.0678	116.5388	12.5998	0.0035	-999.2500	4.9717	2.5933	940.0000
394.5	0.0411	0.0670	116.0416	12.5878	0.0036	-999.2500	4.9738	2.5822	985.0000
394.0	0.0490	0.0672	114.9739	12.5798	0.0046	-999.2500	4.9724	2.5691	973.0000

393.5	0.0488	0.0672	112.4577	12.6678	0.0126	-999.2500	4.9839	2.5694	930.0000
393.0	0.0538	0.0670	114.4081	12.9638	0.0158	-999.2500	4.9755	2.5613	945.0000
392.5	0.0555	0.0661	113.8629	13.0318	0.0180	-999.2500	4.9729	2.5585	927.0000
392.0	0.0534	0.0641	113.0021	12.7318	0.0178	-999.2500	4.9748	2.5619	997.0000
391.5	0.0456	0.0675	107.5361	12.8038	0.0252	-999.2500	5.0134	2.5747	966.0000
391.0	0.0492	0.0710	110.1683	13.1158	0.0364	-999.2500	5.0511	2.5689	964.0000
390.5	0.0523	0.0758	113.4129	13.3317	0.0508	-999.2500	5.0774	2.5637	900.0000
390.0	0.0474	0.0781	120.6378	13.2677	0.0612	-999.2500	5.0618	2.5718	945.0000
389.5	0.0275	0.0786	118.4454	13.3397	0.0764	-999.2500	5.0540	2.6046	926.0000
389.0	0.0343	0.0715	115.7302	13.0838	0.0870	-999.2500	5.1014	2.5935	974.0000
388.5	0.0395	0.0730	109.4837	13.1637	0.1047	-999.2500	5.1936	2.5848	1022.0000
388.0	0.0297	0.0788	110.0851	12.9478	0.1170	-999.2500	5.2872	2.6010	1041.0000
387.5	-0.0303	0.0867	109.1713	12.9358	0.1503	-999.2500	5.3359	2.6999	894.0000
387.0	-0.0479	0.0792	109.6850	12.7798	0.1917	-999.2500	5.3553	2.7291	957.0000
386.5	0.0472	0.0700	110.3360	13.8437	0.2001	-999.2500	5.4355	2.5722	971.0000
386.0	0.2556	0.0713	108.8177	16.1395	0.1453	-999.2500	5.5837	2.2282	1023.0000
385.5	0.3327	0.0745	104.8742	16.8595	0.1398	-999.2500	5.5133	2.1011	1025.0000
385.0	0.3326	0.0799	98.8160	16.6435	0.1753	-999.2500	5.2269	2.1012	935.0000
384.5	0.3112	0.0859	97.5735	16.2715	0.2604	-999.2500	4.8251	2.1365	982.0000
384.0	0.4146	0.0982	106.0268	16.9074	0.2838	-999.2500	4.7280	1.9659	954.0000
383.5	0.4636	0.1146	116.5453	17.9154	0.3011	-999.2500	4.6754	1.8851	909.0000
383.0	0.4469	0.1068	123.0516	17.1074	0.2857	-999.2500	4.6602	1.9126	984.0000
382.5	0.4661	0.1054	129.3354	16.8834	0.2316	-999.2500	4.6472	1.8810	964.0000
382.0	0.5230	0.1160	128.0046	17.6354	0.1636	-999.2500	4.6919	1.7870	907.0000
381.5	0.5426	0.1143	133.3945	16.9394	0.1341	-999.2500	4.6451	1.7547	948.0000
381.0	0.4866	0.1130	138.5163	16.9914	0.1629	-999.2500	4.4420	1.8472	960.0000
380.5	0.4494	0.1054	145.1030	17.1394	0.2149	-999.2500	4.2167	1.9085	948.0000
380.0	0.4391	0.0874	146.9224	16.2515	0.2766	-999.2500	4.0359	1.9255	971.0000

379.5	0.4514	0.0860	147.4254	17.0154	0.3048	-999.2500	3.9483	1.9052	997.0000
379.0	0.4595	0.0867	145.1876	16.6195	0.2804	-999.2500	4.0262	1.8919	981.0000
378.5	0.4755	0.0981	150.1096	16.4915	0.2013	-999.2500	4.2235	1.8655	1007.0000
378.0	0.4659	0.1115	151.1757	15.9635	0.1264	-999.2500	4.4160	1.8813	947.0000
377.5	0.4354	0.1213	159.8389	15.8195	0.0910	-999.2500	4.5186	1.9316	957.0000
377.0	0.4117	0.1220	161.8270	15.7635	0.0872	-999.2500	4.6275	1.9707	981.0000
376.5	0.4076	0.1206	166.8934	14.8676	0.0771	-999.2500	4.7517	1.9775	941.0000
376.0	0.4132	0.1263	168.9970	15.7475	0.0537	-999.2500	4.8275	1.9683	940.0000
375.5	0.4316	0.1120	179.5842	14.8196	0.0291	-999.2500	4.8373	1.9378	947.0000
375.0	0.4512	0.1176	188.6350	15.1196	0.0257	-999.2500	4.8111	1.9056	902.0000
374.5	0.4491	0.1218	195.7265	15.1436	0.0488	-999.2500	4.7299	1.9091	971.0000
374.0	0.4148	0.1237	190.7306	14.9636	0.1097	-999.2500	4.5553	1.9656	957.0000
373.5	0.3856	0.1231	180.3931	15.0916	0.1890	-999.2500	4.3488	2.0138	952.0000
373.0	0.4101	0.1222	171.2504	15.0716	0.2323	-999.2500	4.3122	1.9733	904.0000
372.5	0.4325	0.1273	163.6976	15.3796	0.2234	-999.2500	4.3950	1.9364	1027.0000
372.0	0.4138	0.1359	160.1205	15.7235	0.1757	-999.2500	4.4749	1.9673	986.0000
371.5	0.3591	0.1372	154.7159	15.6475	0.1390	-999.2500	4.4659	2.0576	971.0000
371.0	0.3231	0.1335	153.9323	15.2676	0.1252	-999.2500	4.4412	2.1170	1020.0000
370.5	0.3284	0.1287	150.0026	15.0956	0.1199	-999.2500	4.4772	2.1081	949.0000
370.0	0.3420	0.1242	145.1079	15.2276	0.1197	-999.2500	4.5511	2.0858	966.0000
369.5	0.3617	0.1254	140.4189	15.6116	0.1117	-999.2500	4.6239	2.0532	929.0000
369.0	0.3779	0.1277	145.3430	15.6036	0.1143	-999.2500	4.6329	2.0264	1044.0000
368.5	0.3992	0.1251	157.0403	15.7475	0.1269	-999.2500	4.5927	1.9913	1001.0000
368.0	0.4168	0.1198	158.3862	15.7795	0.1464	-999.2500	4.5254	1.9622	954.0000
367.5	0.4012	0.1143	154.5700	16.0675	0.1899	-999.2500	4.3957	1.9880	989.0000
367.0	0.4230	0.1088	143.4021	17.1354	0.2254	-999.2500	4.2946	1.9521	930.0000
366.5	0.4591	0.1041	141.5452	17.5474	0.2661	-999.2500	4.1703	1.8924	1044.0000
366.0	0.5135	0.1175	133.2003	19.1073	0.2707	-999.2500	4.3176	1.8027	938.0000

365.5	0.5288	0.1023	128.9800	17.0874	0.2366	-999.2500	4.6848	1.7774	937.0000
365.0	0.5148	0.1012	124.8827	16.0515	0.1709	-999.2500	5.1004	1.8005	864.0000
364.5	0.5120	0.0767	126.2499	14.3876	0.1342	-999.2500	5.2860	1.8053	958.0000
364.0	0.5664	0.0740	122.1996	18.0594	0.1529	-999.2500	5.1997	1.7155	1008.0000
363.5	0.7304	0.0526	118.6060	16.5635	0.1303	-999.2500	5.2470	1.4448	1124.0000
363.0	0.8504	0.0641	117.5903	16.9674	0.1266	-999.2500	5.1129	1.2468	938.0000
362.5	0.8189	0.0869	124.7536	17.6594	0.1365	-999.2500	5.0446	1.2988	1062.0000
362.0	0.6581	0.0966	128.6884	18.3073	0.2170	-999.2500	4.7524	1.5642	998.0000
361.5	0.5495	0.0866	133.3482	18.2273	0.2372	-999.2500	4.7071	1.7434	942.0000
361.0	0.5833	0.0690	133.8016	16.2355	0.2039	-999.2500	4.7023	1.6876	973.0000
360.5	0.6755	0.0748	138.9901	15.7555	0.1514	-999.2500	4.9478	1.5354	991.0000
360.0	0.7662	0.0900	133.8741	16.1155	0.0956	-999.2500	5.3509	1.3857	985.0000
359.5	0.6791	0.0861	129.7542	14.0677	0.0623	-999.2500	5.4980	1.5295	1029.0000
359.0	0.4879	0.0968	121.9715	14.1597	0.0289	-999.2500	5.4347	1.8449	909.0000
358.5	0.2734	0.1002	122.4692	16.5355	0.0450	-999.2500	5.2070	2.1989	1002.0000
358.0	0.2419	0.0938	118.1501	20.2032	0.0949	-999.2500	5.1824	2.2509	971.0000
357.5	0.3673	0.0574	110.3778	18.8753	0.1755	-999.2500	5.0994	2.0439	1014.0000
357.0	0.6427	0.0612	100.7960	21.1311	0.1521	-999.2500	5.0380	1.5895	982.0000
356.5	0.8602	0.0547	100.4528	20.1312	0.0927	-999.2500	4.7406	1.2307	911.0000
356.0	0.9259	0.0916	106.4920	24.9388	0.0717	-999.2500	4.3615	1.1222	1017.0000
355.5	0.8416	0.0833	116.4053	23.6749	0.1332	-999.2500	4.0792	1.2613	896.0000
355.0	0.7295	0.0743	125.0306	21.8671	0.2096	-999.2500	3.9860	1.4463	989.0000
354.5	0.7004	0.0706	133.2848	19.8712	0.2177	-999.2500	4.0729	1.4943	977.0000
354.0	0.7217	0.0921	148.9573	20.9711	0.1981	-999.2500	4.1730	1.4591	962.0000
353.5	0.7170	0.0895	160.3900	19.2953	0.2019	-999.2500	4.1595	1.4670	964.0000
353.0	0.6670	0.0898	180.5894	17.1394	0.2126	-999.2500	4.1981	1.5495	975.0000
352.5	0.5901	0.1211	196.7587	17.5554	0.2041	-999.2500	4.2244	1.6764	985.0000
352.0	0.5408	0.1369	205.1935	15.5996	0.1324	-999.2500	4.3751	1.7577	978.0000

351.5	0.5199	0.1499	192.3054	14.3876	0.0368	-999.2500	4.5709	1.7922	935.0000
351.0	0.4736	0.1515	175.4769	14.4356	-0.0273	-999.2500	4.7557	1.8685	961.0000
350.5	0.4504	0.1392	164.4728	14.0037	-0.0666	-999.2500	5.0192	1.9069	955.0000
350.0	0.4355	0.1356	162.3259	13.9797	-0.0741	-999.2500	5.1728	1.9313	936.0000
349.5	0.4328	0.1420	158.7317	13.5837	-0.0671	-999.2500	5.1073	1.9358	953.0000
349.0	0.4294	0.1520	159.6204	13.3157	-0.0545	-999.2500	4.9689	1.9415	969.0000
348.5	0.4093	0.1681	171.7703	13.1517	-0.0410	-999.2500	4.6470	1.9746	968.0000
348.0	0.3973	0.1761	184.8649	13.0918	-0.0271	-999.2500	4.2895	1.9945	957.0000
347.5	0.3955	0.1787	207.1707	12.9558	-0.0107	-999.2500	3.8872	1.9974	948.0000
347.0	0.4209	0.1847	219.8891	12.8838	-0.0005	-999.2500	3.6420	1.9555	947.0000
346.5	0.4586	0.1970	229.6379	12.8198	0.0002	-999.2500	3.5100	1.8933	931.0000
346.0	0.4912	0.2032	233.0599	12.7798	-0.0027	-999.2500	3.3674	1.8396	929.0000
345.5	0.5328	0.2061	227.1231	12.9078	-0.0124	-999.2500	3.2040	1.7709	1002.0000
345.0	0.5803	0.2140	221.8611	13.3957	-0.0230	-999.2500	2.9535	1.6925	965.0000
344.5	0.6327	0.2249	209.0503	13.3797	-0.0258	-999.2500	2.6568	1.6060	963.0000
344.0	0.6663	0.2275	209.9489	14.0357	-0.0126	-999.2500	2.4163	1.5507	992.0000
343.5	0.6906	0.2164	211.8658	14.1557	0.0038	-999.2500	2.3167	1.5106	997.0000
343.0	0.7069	0.2288	210.1824	16.1275	0.0089	-999.2500	2.3326	1.4835	979.0000
342.5	0.7041	0.1952	200.6291	14.3237	0.0053	-999.2500	2.3738	1.4883	964.0000
342.0	0.6569	0.1882	182.9578	13.6517	0.0027	-999.2500	2.4465	1.5661	963.0000
341.5	0.5468	0.1826	165.1414	13.5357	0.0160	-999.2500	2.6566	1.7478	966.0000
341.0	0.3862	0.1632	146.1243	13.4877	0.0398	-999.2500	3.0383	2.0128	973.0000
340.5	0.2286	0.1360	128.0211	13.2997	0.0479	-999.2500	3.5758	2.2727	955.0000
340.0	0.1150	0.1139	113.4080	13.1997	0.0294	-999.2500	4.1398	2.4603	960.0000
339.5	0.0626	0.0946	104.2741	13.0558	-0.0119	-999.2500	4.5168	2.5467	957.0000
339.0	0.0263	0.0803	97.7845	12.9478	-0.0199	-999.2500	4.7245	2.6066	948.0000
338.5	0.0043	0.0751	94.5693	13.0678	-0.0153	-999.2500	4.7211	2.6429	932.0000
338.0	-0.0214	0.0709	87.6655	12.9398	0.0026	-999.2500	4.7245	2.6853	943.0000

337.5	-0.0352	0.0706	88.0722	12.8278	-0.0012	-999.2500	4.7054	2.7080	1035.0000
337.0	-0.0441	0.0709	87.8545	12.7558	-0.0042	-999.2500	4.7042	2.7228	934.0000
336.5	-0.0384	0.0724	89.9088	12.7078	-0.0051	-999.2500	4.6644	2.7134	990.0000
336.0	-0.0177	0.0729	89.3116	12.6438	-0.0031	-999.2500	4.5921	2.6793	997.0000
335.5	0.0163	0.0755	92.8981	12.7078	0.0001	-999.2500	4.5376	2.6231	935.0000
335.0	0.0456	0.0859	94.7798	14.0997	0.0085	-999.2500	4.5465	2.5748	935.0000
334.5	0.0609	0.0803	96.5118	13.7557	0.0173	-999.2500	4.6059	2.5495	954.0000
334.0	0.0494	0.0940	94.0629	15.6715	0.0272	-999.2500	4.6818	2.5685	984.0000
333.5	0.0462	0.0836	96.9579	14.4116	0.0260	-999.2500	4.6593	2.5738	923.0000
333.0	0.0600	0.0741	96.1738	12.8998	0.0308	-999.2500	4.5485	2.5510	905.0000
332.5	0.0984	0.0799	97.4163	12.6358	0.0580	-999.2500	4.3955	2.4876	937.0000
332.0	0.1173	0.0863	95.8764	12.5478	0.1148	-999.2500	4.2609	2.4565	942.0000
331.5	0.1155	0.0975	98.4285	13.0838	0.1745	-999.2500	4.1399	2.4595	889.0000
331.0	0.1208	0.0990	94.8694	12.9238	0.1977	-999.2500	4.0215	2.4507	945.0000
330.5	0.1602	0.1018	99.4098	12.6718	0.1841	-999.2500	3.9691	2.3856	908.0000
330.0	0.1990	0.1026	98.5161	12.6358	0.1599	-999.2500	4.0139	2.3216	951.0000
329.5	0.2046	0.0982	104.2462	12.6438	0.1433	-999.2500	4.1482	2.3124	882.0000
329.0	0.1768	0.0897	99.2053	12.7558	0.1414	-999.2500	4.2076	2.3583	954.0000
328.5	0.1684	0.0823	97.5323	13.0678	0.1477	-999.2500	4.1043	2.3721	937.0000
328.0	0.2085	0.0810	98.5803	13.2357	0.1587	-999.2500	3.8906	2.3059	979.0000
327.5	0.2714	0.0818	97.6327	13.3717	0.1674	-999.2500	3.6990	2.2021	887.0000
327.0	0.3157	0.0863	99.8492	13.5237	0.1781	-999.2500	3.6095	2.1290	936.0000
326.5	0.3191	0.0848	95.3064	13.7797	0.2143	-999.2500	3.5780	2.1235	933.0000
326.0	0.3256	0.0860	94.9955	13.6437	0.2581	-999.2500	3.7015	2.1128	954.0000
325.5	0.3399	0.0848	93.6522	13.1038	0.2766	-999.2500	3.9452	2.0891	886.0000
325.0	0.3270	0.0877	96.1359	12.9478	0.2507	-999.2500	4.1465	2.1104	933.0000
324.5	0.2960	0.0901	99.2640	13.1637	0.1892	-999.2500	4.1338	2.1617	934.0000
324.0	0.2674	0.0872	103.8790	12.7678	0.1433	-999.2500	3.9855	2.2088	887.0000

323.5	0.2706	0.0884	100.3246	12.7078	0.1169	-999.2500	3.9110	2.2035	948.0000
323.0	0.2584	0.0866	96.4964	12.6358	0.1172	-999.2500	4.0007	2.2237	915.0000
322.5	0.2482	0.0858	89.9562	12.7078	0.1040	-999.2500	4.1949	2.2405	916.0000
322.0	0.2430	0.0879	87.7263	12.8518	0.0808	-999.2500	4.4215	2.2490	931.0000
321.5	0.2525	0.0874	88.2087	12.7958	0.0505	-999.2500	4.6149	2.2333	909.0000
321.0	0.2493	0.0991	89.4374	12.9478	0.0293	-999.2500	4.7157	2.2386	918.0000
320.5	0.2486	0.1201	92.3673	13.0798	0.0154	-999.2500	4.6708	2.2398	897.0000
320.0	0.2667	0.1576	97.5731	13.1158	0.0169	-999.2500	4.4868	2.2100	924.0000
319.5	0.3213	0.1874	112.8480	13.3677	0.0209	-999.2500	4.2023	2.1198	904.0000
319.0	0.3879	0.2061	124.1621	13.4157	0.0196	-999.2500	3.8819	2.0100	881.0000
318.5	0.4381	0.2116	136.0243	13.6437	0.0100	-999.2500	3.6205	1.9271	897.0000
318.0	0.4569	0.2214	138.0133	13.5957	0.0043	-999.2500	3.4589	1.8960	891.0000
317.5	0.4605	0.2388	144.1312	13.5877	0.0062	-999.2500	3.4008	1.8902	880.0000
317.0	0.4605	0.2637	154.7991	13.7157	0.0130	-999.2500	3.3572	1.8901	911.0000
316.5	0.4874	0.2756	162.6309	14.0757	0.0173	-999.2500	3.1959	1.8458	904.0000
316.0	0.5873	0.2503	187.8308	15.1556	0.0215	-999.2500	3.0058	1.6809	918.0000
315.5	0.7513	0.2228	212.9622	16.2595	0.0343	-999.2500	2.8321	1.4103	897.0000
315.0	0.8825	0.1941	241.2666	17.4914	0.0372	-999.2500	2.6187	1.1938	903.0000
314.5	0.9277	0.1821	262.3126	20.3872	0.0455	-999.2500	2.3893	1.1193	908.0000
314.0	0.9209	0.1466	282.5938	20.6871	0.0289	-999.2500	2.2329	1.1304	912.0000
313.5	0.9222	0.1459	307.6614	21.2991	0.0205	-999.2500	2.2771	1.1284	927.0000
313.0	0.9324	0.1434	322.9937	20.7951	0.0072	-999.2500	2.3956	1.1115	859.0000
312.5	0.9319	0.1653	337.7921	21.1871	0.0057	-999.2500	2.4515	1.1123	923.0000
312.0	0.9326	0.1807	351.4251	21.0471	0.0068	-999.2500	2.4883	1.1113	931.0000
311.5	0.9393	0.1918	365.9836	20.8671	0.0077	-999.2500	2.5340	1.1002	921.0000
311.0	0.9490	0.1791	370.1997	20.8431	0.0070	-999.2500	2.5846	1.0841	934.0000
310.5	0.9545	0.1577	377.5855	21.4671	0.0069	-999.2500	2.6106	1.0751	920.0000
310.0	0.9469	0.1454	376.9081	22.6310	0.0249	-999.2500	2.5401	1.0876	911.0000

309.5	0.9581	0.1340	386.1009	22.5390	0.0286	-999.2500	2.5726	1.0691	898.0000
309.0	0.9606	0.1330	398.1082	21.8511	0.0407	-999.2500	2.5954	1.0649	886.0000
308.5	0.9738	0.1400	410.7199	21.7311	0.0233	-999.2500	2.7416	1.0433	915.0000
308.0	0.9675	0.1549	415.7059	21.5151	0.0218	-999.2500	2.7781	1.0537	905.0000
307.5	0.9714	0.1563	418.2338	21.4351	0.0093	-999.2500	2.8627	1.0472	916.0000
307.0	0.9747	0.1481	416.7889	21.5391	0.0169	-999.2500	2.8982	1.0418	938.0000
306.5	0.9799	0.1375	417.9378	22.7230	0.0169	-999.2500	2.9626	1.0332	937.0000
306.0	0.9813	0.1364	407.9187	23.2109	0.0161	-999.2500	2.9958	1.0308	888.0000
305.5	0.9807	0.1382	408.6412	23.8429	0.0073	-999.2500	3.0212	1.0318	912.0000
305.0	0.9697	0.1372	421.6229	23.9869	0.0033	-999.2500	3.0169	1.0500	912.0000
304.5	0.9501	0.1259	451.5327	23.5469	0.0018	-999.2500	2.9759	1.0823	891.0000
304.0	0.9198	0.1214	486.2704	23.1309	0.0002	-999.2500	2.9179	1.1323	875.0000
303.5	0.8900	0.1230	515.6108	23.0510	-0.0005	-999.2500	2.8543	1.1815	886.0000
303.0	0.8709	0.1234	532.6590	23.0910	-0.0013	-999.2500	2.8229	1.2131	891.0000
302.5	0.8604	0.1212	523.4509	23.0670	0.0003	-999.2500	2.7871	1.2304	862.0000
302.0	0.8513	0.1268	500.0497	23.4829	0.0066	-999.2500	2.7429	1.2454	836.0000
301.5	0.8445	0.1355	471.1534	23.6989	0.0153	-999.2500	2.7022	1.2565	844.0000
301.0	0.8346	0.1483	460.4139	24.1149	0.0359	-999.2500	2.6508	1.2729	931.0000
300.5	0.8213	0.1698	455.5657	24.4588	0.0792	-999.2500	2.5203	1.2949	888.0000
300.0	0.8301	0.1787	451.9079	24.7468	0.1122	-999.2500	2.4385	1.2803	893.0000
299.5	0.8868	0.1683	458.2174	24.9708	0.0962	-999.2500	2.5754	1.1868	898.0000
299.0	0.9255	0.1469	450.4816	24.9588	0.0722	-999.2500	2.7145	1.1230	892.0000
298.5	0.9192	0.1426	451.6205	24.4348	0.0491	-999.2500	2.7406	1.1333	900.0000
298.0	0.8583	0.1470	444.4892	23.1949	0.0565	-999.2500	2.5764	1.2338	898.0000
297.5	0.8286	0.1722	443.7402	22.1390	0.0347	-999.2500	2.5502	1.2829	901.0000
297.0	0.8034	0.1961	441.7801	21.7551	0.0154	-999.2500	2.5555	1.3243	916.0000
296.5	0.7632	0.1960	445.2281	21.4671	0.0019	-999.2500	2.4853	1.3907	918.0000
296.0	0.7269	0.1811	461.2961	21.6031	-0.0037	-999.2500	2.3893	1.4506	919.0000

295.5	0.7117	0.1788	474.7502	21.4911	-0.0034	-999.2500	2.3581	1.4756	927.0000
295.0	0.7207	0.2022	482.0304	21.3231	-0.0037	-999.2500	2.4037	1.4609	918.0000
294.5	0.7195	0.2124	482.6020	21.1431	-0.0022	-999.2500	2.4254	1.4629	869.0000
294.0	0.7198	0.1991	467.0310	20.8831	-0.0035	-999.2500	2.4289	1.4623	908.0000
293.5	0.7283	0.1820	449.6292	20.8431	-0.0058	-999.2500	2.4582	1.4483	849.0000
293.0	0.7385	0.1879	428.1073	20.6192	-0.0073	-999.2500	2.4762	1.4315	892.0000
292.5	0.7419	0.1902	422.0368	20.5792	-0.0061	-999.2500	2.4934	1.4259	897.0000
292.0	0.7459	0.1876	418.7276	20.5072	-0.0056	-999.2500	2.5038	1.4193	888.0000
291.5	0.7472	0.1876	415.5530	20.7831	-0.0019	-999.2500	2.5427	1.4170	897.0000
291.0	0.7531	0.1833	412.0549	20.7231	0.0027	-999.2500	2.5856	1.4074	893.0000
290.5	0.7505	0.1780	418.2856	21.0671	0.0106	-999.2500	2.6036	1.4116	905.0000
290.0	0.7546	0.1648	421.9530	21.0831	0.0151	-999.2500	2.6094	1.4049	878.0000
289.5	0.7580	0.1627	418.0065	21.1671	0.0173	-999.2500	2.6174	1.3994	892.0000
289.0	0.7618	0.1575	416.0919	20.9711	0.0162	-999.2500	2.6435	1.3930	910.0000
288.5	0.7625	0.1687	425.1874	20.5952	0.0128	-999.2500	2.6644	1.3918	904.0000
288.0	0.7607	0.1747	431.6104	20.4112	0.0084	-999.2500	2.6505	1.3949	874.0000
287.5	0.7531	0.1845	425.7159	20.6431	0.0067	-999.2500	2.6053	1.4074	911.0000
287.0	0.7487	0.1777	406.4375	20.7471	0.0085	-999.2500	2.5682	1.4146	885.0000
286.5	0.7425	0.1869	396.0588	20.7111	0.0146	-999.2500	2.5596	1.4249	878.0000
286.0	0.7487	0.1922	376.2282	20.7591	0.0199	-999.2500	2.5949	1.4147	886.0000
285.5	0.7465	0.1806	365.5318	20.4832	0.0255	-999.2500	2.6301	1.4182	908.0000
285.0	0.7443	0.1759	352.6592	20.6032	0.0263	-999.2500	2.6551	1.4219	898.0000
284.5	0.7357	0.1774	354.0237	20.8671	0.0213	-999.2500	2.6367	1.4360	893.0000
284.0	0.7330	0.1783	364.4172	20.4912	0.0113	-999.2500	2.5860	1.4406	954.0000
283.5	0.7375	0.1738	374.3824	20.3552	-0.0007	-999.2500	2.5558	1.4331	891.0000
283.0	0.7460	0.1648	387.6926	20.0032	-0.0096	-999.2500	2.5664	1.4192	907.0000
282.5	0.7562	0.1585	389.4365	19.8232	-0.0170	-999.2500	2.6024	1.4023	911.0000
282.0	0.7597	0.1609	398.6982	19.7872	-0.0188	-999.2500	2.6083	1.3964	880.0000

281.5	0.7578	0.1629	401.4880	19.8112	-0.0176	-999.2500	2.5763	1.3997	883.0000
281.0	0.7530	0.1718	406.9435	19.8352	-0.0160	-999.2500	2.5379	1.4076	888.0000
280.5	0.7528	0.1727	404.8862	19.8352	-0.0190	-999.2500	2.5150	1.4078	905.0000
280.0	0.7564	0.1666	402.6630	19.7632	-0.0211	-999.2500	2.5228	1.4019	880.0000
279.5	0.7562	0.1621	398.1029	19.7992	-0.0167	-999.2500	2.5243	1.4022	929.0000
279.0	0.7523	0.1604	405.7750	19.9312	-0.0088	-999.2500	2.5095	1.4086	899.0000
278.5	0.7489	0.1665	408.9415	19.9432	-0.0020	-999.2500	2.4853	1.4144	876.0000
278.0	0.7525	0.1808	406.7129	20.9511	-0.0014	-999.2500	2.4924	1.4084	887.0000
277.5	0.7587	0.1812	396.9274	20.7351	-0.0002	-999.2500	2.5308	1.3982	840.0000
277.0	0.7636	0.1865	390.6429	21.5711	-0.0002	-999.2500	2.5612	1.3900	844.0000
276.5	0.7673	0.1825	387.3214	21.3311	0.0009	-999.2500	2.5861	1.3840	904.0000
276.0	0.7750	0.1894	385.4505	21.8870	-0.0027	-999.2500	2.6010	1.3713	937.0000
275.5	0.7834	0.1927	391.5419	22.2230	-0.0040	-999.2500	2.6204	1.3573	881.0000
275.0	0.7958	0.1910	404.2628	22.1950	-0.0054	-999.2500	2.6155	1.3369	898.0000
274.5	0.8075	0.1702	406.5698	22.0910	-0.0038	-999.2500	2.5614	1.3176	903.0000
274.0	0.8263	0.1643	408.0067	23.1829	-0.0025	-999.2500	2.4968	1.2866	899.0000
273.5	0.8477	0.1579	403.0342	22.9070	0.0017	-999.2500	2.5124	1.2512	889.0000
273.0	0.8439	0.1642	410.3756	22.3790	0.0025	-999.2500	2.5383	1.2575	889.0000
272.5	0.8238	0.1765	414.7861	22.0990	0.0020	-999.2500	2.5881	1.2908	878.0000
272.0	0.7947	0.1815	425.3220	21.7071	-0.0056	-999.2500	2.5888	1.3388	886.0000
271.5	0.7839	0.1732	422.7233	21.0111	-0.0105	-999.2500	2.6068	1.3566	914.0000
271.0	0.7832	0.1691	425.9220	20.0872	-0.0153	-999.2500	2.6163	1.3578	885.0000
270.5	0.7837	0.1751	422.6928	20.4112	-0.0154	-999.2500	2.6193	1.3570	870.0000
270.0	0.7832	0.1723	429.2192	20.3872	-0.0124	-999.2500	2.6229	1.3577	908.0000
269.5	0.7837	0.1695	427.0304	20.2552	-0.0090	-999.2500	2.6254	1.3569	900.0000
269.0	0.7790	0.1665	429.5483	20.1472	-0.0052	-999.2500	2.6145	1.3646	872.0000
268.5	0.7638	0.1666	433.2815	20.1312	-0.0024	-999.2500	2.5819	1.3898	886.0000
268.0	0.7396	0.1667	436.8636	19.9552	-0.0023	-999.2500	2.5250	1.4296	887.0000

267.5	0.7249	0.1607	439.3148	20.0632	-0.0026	-999.2500	2.4703	1.4540	905.0000
267.0	0.7339	0.1505	434.0352	20.0672	-0.0029	-999.2500	2.4817	1.4391	858.0000
266.5	0.7547	0.1416	433.7391	19.9232	-0.0004	-999.2500	2.5345	1.4047	892.0000
266.0	0.7723	0.1414	428.6534	19.6912	0.0011	-999.2500	2.5782	1.3757	915.0000
265.5	0.7808	0.1441	436.6442	19.9712	0.0013	-999.2500	2.5910	1.3617	914.0000
265.0	0.7849	0.1427	437.7890	19.6832	0.0011	-999.2500	2.5813	1.3550	893.0000
264.5	0.7903	0.1424	438.6877	19.7872	0.0001	-999.2500	2.5814	1.3461	892.0000
264.0	0.7933	0.1399	432.1317	19.6672	-0.0008	-999.2500	2.5703	1.3411	885.0000
263.5	0.7933	0.1430	431.5848	19.5952	-0.0012	-999.2500	2.5622	1.3411	901.0000
263.0	0.7882	0.1450	427.0321	19.4392	-0.0009	-999.2500	2.5637	1.3495	922.0000
262.5	0.7802	0.1509	424.8495	19.1553	-0.0017	-999.2500	2.5838	1.3627	891.0000
262.0	0.7637	0.1529	417.7840	19.2113	-0.0017	-999.2500	2.5769	1.3898	887.0000
261.5	0.7470	0.1527	413.6935	19.1513	-0.0023	-999.2500	2.5696	1.4175	897.0000
261.0	0.7355	0.1454	407.6501	18.6673	-0.0009	-999.2500	2.5738	1.4364	894.0000
260.5	0.7392	0.1458	393.8952	18.5953	-0.0021	-999.2500	2.6127	1.4303	905.0000
260.0	0.7574	0.1364	397.1290	18.5753	-0.0040	-999.2500	2.6153	1.4003	896.0000
259.5	0.7853	0.1278	390.5885	18.3833	-0.0041	-999.2500	2.5629	1.3543	909.0000
259.0	0.8168	0.1303	402.9908	18.9953	-0.0006	-999.2500	2.5221	1.3023	908.0000
258.5	0.8267	0.1426	406.3653	18.7873	0.0030	-999.2500	2.5191	1.2859	921.0000
258.0	0.8103	0.1487	419.6256	18.5273	0.0026	-999.2500	2.5557	1.3129	936.0000
257.5	0.7841	0.1546	414.6331	18.2633	-0.0045	-999.2500	2.5962	1.3563	912.0000
257.0	0.7627	0.1553	412.5717	18.1313	-0.0110	-999.2500	2.6109	1.3916	896.0000
256.5	0.7535	0.1498	403.8516	17.9034	-0.0117	-999.2500	2.6064	1.4067	914.0000
256.0	0.7467	0.1399	404.0453	17.6674	-0.0059	-999.2500	2.5636	1.4179	922.0000
255.5	0.7457	0.1407	394.2927	17.6114	-0.0007	-999.2500	2.5271	1.4195	919.0000
255.0	0.7506	0.1489	394.7327	17.6154	0.0007	-999.2500	2.5351	1.4115	878.0000
254.5	0.7546	0.1491	384.1554	17.4474	-0.0015	-999.2500	2.5705	1.4049	898.0000
254.0	0.7516	0.1438	378.8500	17.3554	-0.0030	-999.2500	2.5797	1.4098	935.0000

253.5	0.7436	0.1427	372.1974	17.2114	-0.0051	-999.2500	2.5573	1.4231	925.0000
253.0	0.7367	0.1420	373.5033	17.1474	-0.0057	-999.2500	2.5415	1.4344	918.0000
252.5	0.7380	0.1477	373.8506	17.3794	-0.0055	-999.2500	2.5772	1.4323	936.0000
252.0	0.7405	0.1523	362.2862	17.3874	-0.0029	-999.2500	2.5878	1.4281	916.0000
251.5	0.7464	0.1653	348.8658	17.3394	-0.0000	-999.2500	2.5821	1.4184	940.0000
251.0	0.7492	0.1717	347.9342	17.6034	0.0020	-999.2500	2.5565	1.4137	919.0000
250.5	0.7511	0.1859	356.8225	17.9154	0.0016	-999.2500	2.5657	1.4106	918.0000
250.0	0.7498	0.1784	364.5947	17.1954	-0.0008	-999.2500	2.5883	1.4128	908.0000
249.5	0.7495	0.1760	359.2861	16.7955	-0.0026	-999.2500	2.5913	1.4133	885.0000
249.0	0.7532	0.1787	352.3853	16.8674	-0.0025	-999.2500	2.5682	1.4073	931.0000
248.5	0.7663	0.1786	349.0861	16.7755	-0.0018	-999.2500	2.5719	1.3856	882.0000
248.0	0.7862	0.1764	351.2514	16.8595	-0.0033	-999.2500	2.6436	1.3528	884.0000
247.5	0.7969	0.1751	342.7300	16.9874	-0.0096	-999.2500	2.7041	1.3351	937.0000
247.0	0.7932	0.1854	340.4639	17.3154	-0.0134	-999.2500	2.7046	1.3412	910.0000
246.5	0.7769	0.1946	330.6980	17.6114	-0.0118	-999.2500	2.6623	1.3681	930.0000
246.0	0.7560	0.1914	332.1352	17.0994	-0.0055	-999.2500	2.6221	1.4025	919.0000
245.5	0.7292	0.1839	332.9586	16.9674	-0.0009	-999.2500	2.5717	1.4469	927.0000
245.0	0.7124	0.1806	331.0930	17.5954	-0.0030	-999.2500	2.5279	1.4745	921.0000
244.5	0.7116	0.1645	330.5816	17.4474	-0.0056	-999.2500	2.5176	1.4759	913.0000
244.0	0.7218	0.1600	331.3743	17.4594	-0.0052	-999.2500	2.5363	1.4591	908.0000
243.5	0.7280	0.1677	338.3876	17.1634	-0.0020	-999.2500	2.5783	1.4487	941.0000
243.0	0.7271	0.1879	331.5435	17.1354	-0.0037	-999.2500	2.6718	1.4503	925.0000
242.5	0.7278	0.2025	329.8454	17.0834	-0.0183	-999.2500	2.8382	1.4492	942.0000
242.0	0.7310	0.2051	323.1189	17.1634	-0.0466	-999.2500	3.1278	1.4438	926.0000
241.5	0.7320	0.2131	318.1906	17.1594	-0.0724	-999.2500	3.3321	1.4422	914.0000
241.0	0.7320	0.2149	310.9129	16.9234	-0.0876	-999.2500	3.5310	1.4422	932.0000
240.5	0.7287	0.2226	306.2003	16.8035	-0.0876	-999.2500	3.4511	1.4477	948.0000
240.0	0.7321	0.2254	307.6444	16.6795	-0.0847	-999.2500	3.3094	1.4421	908.0000

239.5	0.7342	0.2366	304.8246	16.7635	-0.0779	-999.2500	3.0684	1.4385	918.0000
239.0	0.7389	0.2484	299.7463	16.9314	-0.0666	-999.2500	2.9208	1.4309	915.0000
238.5	0.7460	0.2445	298.0305	16.9554	-0.0511	-999.2500	2.8195	1.4192	968.0000
238.0	0.7454	0.2075	293.3042	17.0274	-0.0293	-999.2500	2.6822	1.4201	945.0000
237.5	0.7462	0.1742	296.7363	17.1554	-0.0124	-999.2500	2.5605	1.4188	989.0000
237.0	0.7441	0.1440	302.9971	17.0754	-0.0005	-999.2500	2.4972	1.4222	970.0000
236.5	0.7493	0.1238	307.8879	16.7475	-0.0011	-999.2500	2.4845	1.4137	957.0000
236.0	0.7589	0.1246	309.3789	16.5835	-0.0027	-999.2500	2.4646	1.3978	973.0000
235.5	0.7778	0.1380	314.7488	16.4395	-0.0017	-999.2500	2.4643	1.3666	950.0000
235.0	0.7892	0.1778	316.0955	16.4435	0.0012	-999.2500	2.4826	1.3479	957.0000
234.5	0.7837	0.2171	314.8780	15.9795	0.0011	-999.2500	2.5671	1.3568	992.0000
234.0	0.7648	0.2393	312.2515	15.7315	-0.0081	-999.2500	2.6264	1.3880	963.0000
233.5	0.7518	0.2446	306.6358	15.2996	-0.0238	-999.2500	2.6930	1.4096	958.0000
233.0	0.7440	0.2201	302.9325	14.5556	-0.0403	-999.2500	2.7232	1.4224	973.0000
232.5	0.7419	0.2108	292.8958	14.3397	-0.0521	-999.2500	2.7872	1.4258	958.0000
232.0	0.7336	0.2058	280.6702	14.3037	-0.0567	-999.2500	2.8604	1.4396	982.0000
231.5	0.7226	0.2095	273.8000	14.2517	-0.0576	-999.2500	2.9719	1.4577	971.0000
231.0	0.7076	0.2068	263.6043	14.2197	-0.0594	-999.2500	3.0647	1.4825	958.0000
230.5	0.7049	0.2135	270.2330	14.2197	-0.0661	-999.2500	3.1472	1.4869	968.0000
230.0	0.7070	0.2201	270.4687	14.3077	-0.0722	-999.2500	3.1855	1.4835	954.0000
229.5	0.7122	0.2172	278.8853	14.2277	-0.0726	-999.2500	3.1071	1.4748	985.0000
229.0	0.7121	0.2159	279.8387	14.1477	-0.0666	-999.2500	3.0075	1.4750	966.0000
228.5	0.7154	0.2198	280.7085	14.2077	-0.0598	-999.2500	2.9125	1.4696	952.0000
228.0	0.7153	0.2199	278.7962	14.2517	-0.0549	-999.2500	2.9211	1.4698	966.0000
227.5	0.7178	0.2278	278.4912	14.0277	-0.0538	-999.2500	2.9582	1.4656	982.0000
227.0	0.7197	0.2253	275.8475	13.9637	-0.0558	-999.2500	2.9942	1.4625	968.0000
226.5	0.7080	0.2357	277.0906	13.9197	-0.0546	-999.2500	2.9838	1.4817	938.0000
226.0	0.6902	0.2381	270.2311	13.9077	-0.0500	-999.2500	2.9401	1.5112	938.0000

225.5	0.6693	0.2436	271.2925	13.9077	-0.0465	-999.2500	2.8506	1.5456	980.0000
225.0	0.6625	0.2352	263.1792	14.0277	-0.0466	-999.2500	2.7844	1.5569	940.0000
224.5	0.6641	0.2378	259.8981	14.0037	-0.0478	-999.2500	2.7634	1.5542	950.0000
224.0	0.6716	0.2431	255.0606	13.9677	-0.0476	-999.2500	2.7908	1.5419	975.0000
223.5	0.6827	0.2442	251.1978	13.9957	-0.0468	-999.2500	2.8139	1.5235	982.0000
223.0	0.6895	0.2552	251.4708	13.9917	-0.0423	-999.2500	2.8053	1.5124	988.0000
222.5	0.6904	0.2560	249.3173	14.0277	-0.0370	-999.2500	2.7828	1.5109	981.0000
222.0	0.6933	0.2644	243.6408	14.0757	-0.0373	-999.2500	2.7903	1.5061	966.0000
221.5	0.6926	0.2625	239.7194	14.0517	-0.0429	-999.2500	2.7867	1.5071	981.0000
221.0	0.6951	0.2676	231.1040	13.9077	-0.0481	-999.2500	2.7922	1.5030	964.0000
220.5	0.7002	0.2707	234.7858	13.8837	-0.0513	-999.2500	2.8350	1.4946	961.0000
220.0	0.7028	0.2712	228.3636	13.7757	-0.0558	-999.2500	2.8884	1.4904	953.0000
219.5	0.7047	0.2692	230.0119	13.6437	-0.0615	-999.2500	2.9120	1.4873	961.0000
219.0	0.6968	0.2705	229.4779	13.6677	-0.0616	-999.2500	2.8654	1.5002	974.0000
218.5	0.6910	0.2593	233.2911	13.4677	-0.0580	-999.2500	2.8272	1.5099	952.0000
218.0	0.6850	0.2380	231.1383	13.2957	-0.0535	-999.2500	2.8216	1.5197	934.0000
217.5	0.6796	0.2336	232.1333	13.2677	-0.0520	-999.2500	2.8346	1.5287	964.0000
217.0	0.6769	0.2351	227.1533	13.2117	-0.0527	-999.2500	2.8426	1.5332	953.0000
216.5	0.6763	0.2353	230.9632	13.1877	-0.0553	-999.2500	2.8396	1.5341	936.0000
216.0	0.6764	0.2361	228.0171	13.1397	-0.0587	-999.2500	2.8211	1.5340	952.0000
215.5	0.6782	0.2339	232.8805	13.0918	-0.0598	-999.2500	2.8243	1.5310	936.0000
215.0	0.6780	0.2390	227.1685	13.1038	-0.0577	-999.2500	2.8296	1.5314	937.0000
214.5	0.6804	0.2412	223.1126	13.2357	-0.0531	-999.2500	2.8644	1.5274	936.0000
214.0	0.6829	0.2399	222.6461	13.2757	-0.0485	-999.2500	2.8890	1.5231	950.0000
213.5	0.6823	0.2499	226.0026	13.2597	-0.0454	-999.2500	2.9059	1.5243	938.0000
213.0	0.6812	0.2425	225.0959	13.3317	-0.0448	-999.2500	2.9186	1.5260	935.0000
212.5	0.6819	0.2469	221.8774	13.2917	-0.0475	-999.2500	2.9506	1.5248	941.0000
212.0	0.6841	0.2363	222.2886	13.1517	-0.0541	-999.2500	2.9781	1.5212	937.0000

211.5	0.6825	0.2311	228.3316	13.1397	-0.0598	-999.2500	3.0093	1.5238	911.0000
211.0	0.6754	0.2262	226.1032	13.0558	-0.0629	-999.2500	3.0195	1.5356	898.0000
210.5	0.6702	0.2241	224.6107	13.0438	-0.0604	-999.2500	3.0149	1.5441	903.0000
210.0	0.6702	0.2259	224.0281	13.0678	-0.0549	-999.2500	3.0231	1.5441	908.0000
209.5	0.6738	0.2269	224.4947	13.1397	-0.0489	-999.2500	3.0358	1.5382	908.0000
209.0	0.6793	0.2275	225.3972	13.1477	-0.0479	-999.2500	3.0645	1.5291	919.0000
208.5	0.6803	0.2294	227.0149	13.2597	-0.0483	-999.2500	3.0340	1.5274	907.0000
208.0	0.6837	0.2327	230.9058	13.4757	-0.0478	-999.2500	2.9258	1.5218	924.0000
207.5	0.6834	0.2166	233.5190	13.9957	-0.0359	-999.2500	2.7803	1.5224	907.0000
207.0	0.6920	0.2108	227.1140	14.7356	-0.0232	-999.2500	2.6588	1.5082	899.0000
206.5	0.7039	0.1995	230.8948	14.9236	-0.0112	-999.2500	2.5849	1.4886	887.0000
206.0	0.7187	0.1843	228.7952	15.2636	-0.0065	-999.2500	2.5044	1.4641	882.0000
205.5	0.7276	0.1470	229.7063	15.3716	-0.0055	-999.2500	2.3834	1.4494	888.0000
205.0	0.7395	0.1208	221.7940	15.9075	-0.0049	-999.2500	2.2954	1.4299	866.0000
204.5	0.7494	0.1018	230.1884	16.2115	-0.0036	-999.2500	2.3109	1.4135	905.0000
204.0	0.7456	0.0966	231.5000	16.4275	-0.0029	-999.2500	2.3746	1.4198	887.0000
203.5	0.7281	0.0977	238.7449	16.4195	-0.0023	-999.2500	2.4215	1.4486	854.0000
203.0	0.7103	0.1027	240.3338	16.3435	-0.0027	-999.2500	2.4219	1.4780	863.0000
202.5	0.7069	0.1071	247.0050	16.2595	-0.0029	-999.2500	2.4213	1.4835	899.0000
202.0	0.7104	0.1047	248.0480	16.2755	-0.0039	-999.2500	2.4302	1.4779	907.0000
201.5	0.7153	0.1022	241.6196	16.2915	-0.0050	-999.2500	2.4341	1.4697	932.0000
201.0	0.7193	0.1019	242.8856	16.4035	-0.0042	-999.2500	2.4385	1.4632	902.0000
200.5	0.7209	0.1033	252.2163	16.3315	-0.0030	-999.2500	2.4395	1.4605	902.0000
200.0	0.7221	0.1027	259.1140	16.4155	-0.0034	-999.2500	2.4449	1.4585	929.0000
199.5	0.7229	0.1038	262.9060	16.4035	-0.0048	-999.2500	2.4214	1.4572	896.0000
199.0	0.7308	0.1033	265.3913	16.6075	-0.0068	-999.2500	2.3809	1.4442	907.0000
198.5	0.7391	0.1094	265.2576	16.4395	-0.0059	-999.2500	2.3562	1.4305	932.0000
198.0	0.7421	0.1160	270.4349	16.1475	-0.0054	-999.2500	2.3676	1.4256	884.0000

197.5	0.7337	0.1293	265.2308	15.8755	-0.0059	-999.2500	2.3952	1.4395	891.0000
197.0	0.7222	0.1328	273.0705	15.5156	-0.0058	-999.2500	2.4205	1.4584	898.0000
196.5	0.7125	0.1418	278.0934	15.4196	-0.0048	-999.2500	2.4431	1.4744	893.0000
196.0	0.7045	0.1410	289.1497	15.3476	-0.0025	-999.2500	2.4596	1.4876	898.0000
195.5	0.6987	0.1442	290.7423	15.2756	-0.0014	-999.2500	2.4596	1.4972	887.0000
195.0	0.6968	0.1456	291.1605	15.3236	-0.0015	-999.2500	2.4552	1.5002	905.0000
194.5	0.6969	0.1495	289.4275	15.3836	-0.0030	-999.2500	2.4510	1.5000	915.0000
194.0	0.6982	0.1503	288.7253	15.4756	-0.0055	-999.2500	2.4406	1.4979	949.0000
193.5	0.7017	0.1481	289.4961	15.5636	-0.0061	-999.2500	2.4122	1.4921	922.0000
193.0	0.7095	0.1420	294.4645	15.5276	-0.0051	-999.2500	2.3802	1.4794	908.0000
192.5	0.7165	0.1407	293.4497	15.5076	-0.0053	-999.2500	2.3591	1.4677	912.0000
192.0	0.7207	0.1390	285.3378	15.4196	-0.0059	-999.2500	2.3821	1.4608	908.0000
191.5	0.7189	0.1400	284.3656	15.4676	-0.0046	-999.2500	2.4177	1.4637	933.0000
191.0	0.7137	0.1419	283.5159	15.3796	-0.0022	-999.2500	2.4563	1.4724	887.0000
190.5	0.7116	0.1432	286.0075	15.6116	-0.0007	-999.2500	2.4577	1.4758	887.0000
190.0	0.7159	0.1402	276.2323	15.7155	-0.0027	-999.2500	2.4260	1.4687	885.0000
189.5	0.7266	0.1373	275.7908	15.8875	-0.0040	-999.2500	2.3708	1.4511	907.0000
189.0	0.7373	0.1344	278.9847	16.0915	-0.0034	-999.2500	2.3355	1.4335	919.0000
188.5	0.7412	0.1318	282.0470	16.1875	-0.0030	-999.2500	2.3149	1.4270	922.0000
188.0	0.7391	0.1383	281.0057	16.0315	-0.0026	-999.2500	2.3332	1.4305	887.0000
187.5	0.7260	0.1462	278.2343	15.9875	-0.0050	-999.2500	2.3514	1.4521	900.0000
187.0	0.7110	0.1557	269.5750	15.7915	-0.0068	-999.2500	2.4028	1.4768	914.0000
186.5	0.6898	0.1548	268.2692	15.7795	-0.0078	-999.2500	2.4273	1.5118	912.0000
186.0	0.6765	0.1517	271.3195	15.7075	-0.0067	-999.2500	2.4614	1.5338	903.0000
185.5	0.6690	0.1529	276.1815	15.6475	-0.0079	-999.2500	2.4619	1.5461	898.0000
185.0	0.6684	0.1551	280.9876	15.7395	-0.0087	-999.2500	2.4594	1.5472	850.0000
184.5	0.6672	0.1504	279.2641	15.8195	-0.0076	-999.2500	2.4389	1.5490	873.0000
184.0	0.6681	0.1475	283.1385	16.1155	-0.0033	-999.2500	2.4324	1.5477	908.0000

183.5	0.6756	0.1472	272.8009	16.2595	-0.0008	-999.2500	2.4459	1.5352	915.0000
183.0	0.6842	0.1465	269.6523	16.3195	-0.0018	-999.2500	2.4448	1.5211	905.0000
182.5	0.6954	0.1464	274.0999	16.4995	-0.0011	-999.2500	2.4515	1.5026	888.0000
182.0	0.6995	0.1417	281.5595	16.4035	-0.0004	-999.2500	2.4262	1.4958	907.0000
181.5	0.7040	0.1416	290.2999	16.1035	0.0016	-999.2500	2.4185	1.4884	873.0000
181.0	0.7011	0.1408	283.8332	16.1235	-0.0007	-999.2500	2.4124	1.4932	882.0000
180.5	0.6989	0.1364	285.1699	16.2595	-0.0012	-999.2500	2.4275	1.4968	901.0000
180.0	0.6980	0.1348	283.3033	16.5355	-0.0030	-999.2500	2.4237	1.4982	891.0000
179.5	0.7020	0.1359	286.5415	16.8435	-0.0039	-999.2500	2.3862	1.4917	891.0000
179.0	0.7140	0.1441	289.6475	17.4594	-0.0049	-999.2500	2.3569	1.4719	894.0000
178.5	0.7309	0.1402	287.8510	17.5554	-0.0036	-999.2500	2.3759	1.4440	909.0000
178.0	0.7359	0.1255	289.6933	17.0594	-0.0035	-999.2500	2.3722	1.4357	926.0000
177.5	0.7368	0.1100	294.6540	16.8115	-0.0051	-999.2500	2.3659	1.4342	888.0000
177.0	0.7295	0.1144	300.4218	16.9394	-0.0067	-999.2500	2.3425	1.4463	892.0000
176.5	0.7248	0.1161	309.3417	16.9394	-0.0062	-999.2500	2.3669	1.4541	896.0000
176.0	0.7145	0.1229	312.8662	16.9914	-0.0066	-999.2500	2.3861	1.4710	927.0000
175.5	0.7041	0.1230	310.7671	16.8914	-0.0078	-999.2500	2.3937	1.4883	896.0000
175.0	0.6999	0.1243	307.0377	16.8515	-0.0091	-999.2500	2.3872	1.4952	884.0000
174.5	0.7014	0.1260	303.7407	16.6435	-0.0091	-999.2500	2.3910	1.4927	920.0000
174.0	0.7024	0.1336	301.4458	16.7555	-0.0094	-999.2500	2.3918	1.4911	882.0000
173.5	0.7041	0.1418	295.0777	16.7035	-0.0096	-999.2500	2.4098	1.4882	865.0000
173.0	0.7055	0.1369	298.3564	16.6195	-0.0108	-999.2500	2.4126	1.4859	889.0000
172.5	0.7205	0.1266	294.8445	16.6315	-0.0121	-999.2500	2.3977	1.4612	888.0000
172.0	0.7544	0.1183	305.5116	17.4914	-0.0103	-999.2500	2.3673	1.4052	887.0000
171.5	0.8069	0.1175	302.1814	17.6034	-0.0004	-999.2500	2.4324	1.3186	896.0000
171.0	0.8241	0.1253	305.9165	17.0034	0.0058	-999.2500	2.4699	1.2903	927.0000
170.5	0.7982	0.1388	303.3903	16.4995	0.0062	-999.2500	2.4988	1.3330	886.0000
170.0	0.7413	0.1409	303.8371	16.3395	-0.0036	-999.2500	2.4140	1.4268	889.0000

169.5	0.7065	0.1434	307.9878	16.4835	-0.0097	-999.2500	2.3794	1.4843	894.0000
169.0	0.6975	0.1493	309.9265	16.1715	-0.0114	-999.2500	2.3925	1.4991	891.0000
168.5	0.6968	0.1501	314.9943	16.2115	-0.0111	-999.2500	2.4272	1.5002	869.0000
168.0	0.6940	0.1476	323.6114	15.8595	-0.0098	-999.2500	2.4443	1.5049	880.0000
167.5	0.6885	0.1431	319.3294	15.8435	-0.0093	-999.2500	2.4216	1.5139	883.0000
167.0	0.6942	0.1388	312.2818	16.2715	-0.0093	-999.2500	2.3773	1.5046	950.0000
166.5	0.7179	0.1268	302.2758	16.2675	-0.0096	-999.2500	2.3510	1.4654	901.0000
166.0	0.7521	0.1310	305.5689	16.4675	-0.0082	-999.2500	2.3991	1.4091	912.0000
165.5	0.7617	0.1446	309.5084	16.4755	-0.0080	-999.2500	2.4963	1.3932	893.0000
165.0	0.7389	0.1566	314.7857	16.0755	-0.0060	-999.2500	2.5867	1.4308	882.0000
164.5	0.6981	0.1558	312.9676	15.9315	-0.0058	-999.2500	2.5878	1.4982	852.0000
164.0	0.6739	0.1546	311.4543	15.8195	-0.0021	-999.2500	2.5434	1.5381	844.0000
163.5	0.6751	0.1519	310.7843	15.5556	-0.0007	-999.2500	2.5074	1.5361	866.0000
163.0	0.6867	0.1513	311.7770	15.5876	0.0005	-999.2500	2.4859	1.5169	873.0000
162.5	0.7023	0.1496	317.7531	15.6355	0.0000	-999.2500	2.4990	1.4911	843.0000
162.0	0.7053	0.1541	311.7333	15.8395	-0.0005	-999.2500	2.4817	1.4862	861.0000
161.5	0.7072	0.1523	305.7572	15.8035	-0.0017	-999.2500	2.4948	1.4831	902.0000
161.0	0.7097	0.1454	292.5600	15.7715	-0.0040	-999.2500	2.5255	1.4790	903.0000
160.5	0.7122	0.1444	295.2447	16.1715	-0.0042	-999.2500	2.5533	1.4749	894.0000
160.0	0.7120	0.1432	297.0117	16.5475	-0.0039	-999.2500	2.5328	1.4753	912.0000
159.5	0.7082	0.1397	297.6086	17.0274	-0.0026	-999.2500	2.4784	1.4815	907.0000
159.0	0.7105	0.1394	291.1608	17.3714	-0.0048	-999.2500	2.4277	1.4777	907.0000
158.5	0.7194	0.1345	290.1284	17.3994	-0.0070	-999.2500	2.4129	1.4630	887.0000
158.0	0.7296	0.1286	298.9408	16.6755	-0.0083	-999.2500	2.4170	1.4462	911.0000
157.5	0.7367	0.1350	307.5271	16.2955	-0.0077	-999.2500	2.4519	1.4344	900.0000
157.0	0.7391	0.1487	316.5614	15.7235	-0.0051	-999.2500	2.5007	1.4305	889.0000
156.5	0.7317	0.1542	312.7773	15.4276	-0.0032	-999.2500	2.5090	1.4428	926.0000
156.0	0.7242	0.1533	307.6507	15.2156	-0.0024	-999.2500	2.5097	1.4550	918.0000

155.5	0.7119	0.1552	301.6168	15.3076	-0.0053	-999.2500	2.4687	1.4754	908.0000
155.0	0.7090	0.1535	304.9176	15.2636	-0.0075	-999.2500	2.4592	1.4802	913.0000
154.5	0.7083	0.1512	304.2451	15.1876	-0.0092	-999.2500	2.4505	1.4813	884.0000
154.0	0.7117	0.1467	304.9581	15.2036	-0.0082	-999.2500	2.4582	1.4757	894.0000
153.5	0.7132	0.1442	298.5223	15.2116	-0.0069	-999.2500	2.4506	1.4733	915.0000
153.0	0.7157	0.1434	298.2238	15.2756	-0.0054	-999.2500	2.4419	1.4691	897.0000
152.5	0.7193	0.1458	292.9937	15.4196	-0.0045	-999.2500	2.4537	1.4632	901.0000
152.0	0.7167	0.1434	287.2979	15.2916	-0.0037	-999.2500	2.4719	1.4674	877.0000
151.5	0.7104	0.1474	292.1716	15.2756	-0.0022	-999.2500	2.4973	1.4778	892.0000
151.0	0.7021	0.1440	294.8550	15.2516	-0.0030	-999.2500	2.5115	1.4915	907.0000
150.5	0.6982	0.1455	301.3971	15.2356	-0.0051	-999.2500	2.5073	1.4980	894.0000
150.0	0.6978	0.1459	293.0392	15.2036	-0.0070	-999.2500	2.4876	1.4987	882.0000
149.5	0.6996	0.1508	292.3329	15.1956	-0.0061	-999.2500	2.4522	1.4956	888.0000
149.0	0.7041	0.1513	287.9529	15.3156	-0.0036	-999.2500	2.4423	1.4883	852.0000
148.5	0.7087	0.1512	284.8043	15.1236	-0.0012	-999.2500	2.4369	1.4807	833.0000
148.0	0.7140	0.1548	281.4444	15.2276	-0.0015	-999.2500	2.4409	1.4719	860.0000
147.5	0.7186	0.1559	286.1731	15.2876	-0.0017	-999.2500	2.4448	1.4644	877.0000
147.0	0.7226	0.1505	295.5976	15.2996	-0.0021	-999.2500	2.4753	1.4577	844.0000
146.5	0.7220	0.1472	286.0215	15.9155	-0.0008	-999.2500	2.5150	1.4587	855.0000
146.0	0.7152	0.1485	274.2880	16.3955	-0.0003	-999.2500	2.5401	1.4699	853.0000
145.5	0.7066	0.1460	263.8995	16.4995	-0.0002	-999.2500	2.5353	1.4841	885.0000
145.0	0.7034	0.1418	267.5025	15.7795	-0.0040	-999.2500	2.5111	1.4893	874.0000
144.5	0.7068	0.1449	275.0716	15.6595	-0.0060	-999.2500	2.4947	1.4838	877.0000
144.0	0.7123	0.1500	275.4967	16.3075	-0.0096	-999.2500	2.4644	1.4748	872.0000
143.5	0.7161	0.1469	286.5645	16.2675	-0.0086	-999.2500	2.4455	1.4685	871.0000
143.0	0.7136	0.1472	284.3357	16.1515	-0.0080	-999.2500	2.4245	1.4725	866.0000
142.5	0.7113	0.1481	288.9704	16.2035	-0.0054	-999.2500	2.4391	1.4763	866.0000
142.0	0.7076	0.1504	283.7681	16.1235	-0.0026	-999.2500	2.4449	1.4825	903.0000

141.5	0.7086	0.1521	285.9783	15.8395	-0.0023	-999.2500	2.4541	1.4807	889.0000
141.0	0.7103	0.1552	283.4908	15.7315	-0.0026	-999.2500	2.4573	1.4780	866.0000
140.5	0.7167	0.1534	281.3202	15.7315	-0.0027	-999.2500	2.4758	1.4675	864.0000
140.0	0.7269	0.1467	284.9806	15.5156	-0.0027	-999.2500	2.4717	1.4505	900.0000
139.5	0.7371	0.1415	289.4118	15.7475	-0.0011	-999.2500	2.4498	1.4338	884.0000
139.0	0.7484	0.1424	292.9343	16.0115	-0.0002	-999.2500	2.4587	1.4151	870.0000
138.5	0.7442	0.1485	296.5680	16.0675	0.0005	-999.2500	2.4872	1.4220	873.0000
138.0	0.7336	0.1544	301.4220	15.6116	-0.0022	-999.2500	2.5153	1.4396	905.0000
137.5	0.7163	0.1529	301.6708	15.4516	-0.0045	-999.2500	2.4959	1.4681	874.0000
137.0	0.7111	0.1536	300.1776	15.1796	-0.0044	-999.2500	2.4775	1.4768	897.0000
136.5	0.7087	0.1562	298.4275	15.0516	-0.0019	-999.2500	2.4627	1.4806	883.0000
136.0	0.7067	0.1557	300.7919	14.9956	-0.0006	-999.2500	2.4679	1.4839	874.0000
135.5	0.7081	0.1579	294.6148	14.9276	-0.0025	-999.2500	2.5002	1.4816	885.0000
135.0	0.7133	0.1621	294.4684	14.9396	-0.0059	-999.2500	2.5499	1.4730	885.0000
134.5	0.7184	0.1639	285.7247	15.0356	-0.0079	-999.2500	2.5565	1.4647	870.0000
134.0	0.7181	0.1625	283.5955	15.0236	-0.0051	-999.2500	2.5217	1.4652	852.0000
133.5	0.7185	0.1649	276.8459	15.0676	-0.0021	-999.2500	2.4795	1.4645	859.0000
133.0	0.7220	0.1629	284.6437	15.1316	-0.0021	-999.2500	2.4697	1.4587	856.0000
132.5	0.7301	0.1610	290.2027	15.2396	-0.0035	-999.2500	2.4819	1.4454	869.0000
132.0	0.7324	0.1585	288.7859	15.3236	-0.0051	-999.2500	2.4753	1.4415	867.0000
131.5	0.7308	0.1614	275.7066	15.5556	-0.0039	-999.2500	2.4871	1.4443	884.0000
131.0	0.7289	0.1598	264.9341	15.7915	-0.0052	-999.2500	2.5256	1.4474	850.0000
130.5	0.7357	0.1492	265.0120	15.7795	-0.0070	-999.2500	2.5867	1.4361	862.0000
130.0	0.7429	0.1439	275.0455	16.1155	-0.0101	-999.2500	2.5966	1.4242	876.0000
129.5	0.7500	0.1422	277.8181	16.3555	-0.0117	-999.2500	2.5884	1.4125	894.0000
129.0	0.7509	0.1493	277.9426	16.5155	-0.0119	-999.2500	2.5931	1.4110	912.0000
128.5	0.7561	0.1593	280.5093	16.2915	-0.0145	-999.2500	2.6382	1.4025	863.0000
128.0	0.7566	0.1644	288.3944	16.0675	-0.0176	-999.2500	2.6564	1.4016	880.0000

127.5	0.7595	0.1647	292.4215	16.0595	-0.0209	-	999.2500	2.6520	1.3968	903.0000
127.0	0.7575	0.1711	288.3710	16.2035	-0.0176	-	999.2500	2.6512	1.4002	826.0000
126.5	0.7511	0.1813	276.3438	16.1875	-0.0115	-	999.2500	2.6239	1.4106	839.0000
126.0	0.7483	0.1618	274.9887	16.0675	-0.0084	-	999.2500	2.5372	1.4154	905.0000
125.5	0.7645	0.1363	274.4608	16.9194	-0.0058	-	999.2500	2.4096	1.3886	884.0000
125.0	0.8052	0.1101	283.3794	17.3394	0.0266	-	999.2500	2.4849	1.3215	880.0000
124.5	0.8049	0.1117	277.6415	17.6114	0.0628	-	999.2500	2.6300	1.3220	845.0000
124.0	0.7460	0.1289	274.3291	17.7474	0.0829	-	999.2500	2.7335	1.4191	831.0000
123.5	0.6564	0.1408	276.7401	17.9274	0.0688	-	999.2500	2.6751	1.5669	861.0000
123.0	0.6160	0.1405	286.0778	17.8354	0.0495	-	999.2500	2.6407	1.6336	875.0000
122.5	0.6313	0.1414	289.5795	17.6994	0.0345	-	999.2500	2.6812	1.6084	860.0000
122.0	0.6585	0.1475	289.5304	17.9394	0.0167	-	999.2500	2.6763	1.5635	880.0000
121.5	0.6781	0.1437	284.7912	17.9474	-0.0021	-	999.2500	2.6476	1.5312	926.0000
121.0	0.6905	0.1331	295.7072	18.3233	-0.0145	-	999.2500	2.6382	1.5106	892.0000
120.5	0.7041	0.1282	296.1557	18.9833	-0.0203	-	999.2500	2.6473	1.4882	877.0000
120.0	0.7121	0.1315	298.2319	19.1793	-0.0144	-	999.2500	2.6303	1.4750	883.0000
119.5	0.7173	0.1237	297.5876	18.5753	0.0070	-	999.2500	2.6094	1.4664	884.0000
119.0	0.7341	0.1221	301.2456	18.6833	0.0360	-	999.2500	2.6380	1.4387	870.0000
118.5	0.7587	0.1181	306.0479	18.3793	0.0556	-	999.2500	2.7443	1.3982	880.0000
118.0	0.7698	0.1235	313.5822	18.2153	0.0447	-	999.2500	2.7977	1.3799	880.0000
117.5	0.7634	0.1249	312.8356	17.4114	0.0116	-	999.2500	2.8214	1.3905	877.0000
117.0	0.7388	0.1294	312.9328	17.2274	-0.0202	-	999.2500	2.7851	1.4310	869.0000
116.5	0.7071	0.1321	301.6874	17.2794	-0.0317	-	999.2500	2.7727	1.4833	856.0000
116.0	0.6771	0.1285	302.5585	17.3154	-0.0334	-	999.2500	2.7561	1.5328	899.0000
115.5	0.6652	0.1244	307.7212	17.3474	-0.0361	-	999.2500	2.7432	1.5524	909.0000
115.0	0.6839	0.1158	316.2695	17.3634	-0.0377	-	999.2500	2.7522	1.5216	875.0000
114.5	0.7118	0.1106	322.5458	18.0474	-0.0307	-	999.2500	2.7556	1.4756	880.0000
114.0	0.7363	0.1089	326.3518	18.1633	-0.0179	-	999.2500	2.7485	1.4351	882.0000

113.5	0.7468	0.1124	326.4822	18.2393	-0.0088	-999.2500	2.6920	1.4178	872.0000
113.0	0.7483	0.1090	321.3777	17.5914	-0.0035	-999.2500	2.6288	1.4154	852.0000
112.5	0.7436	0.1153	317.4444	18.0034	-0.0011	-999.2500	2.5615	1.4230	858.0000
112.0	0.7446	0.1198	311.5758	18.0954	-0.0009	-999.2500	2.5741	1.4214	891.0000
111.5	0.7452	0.1205	314.6884	18.1074	-0.0021	-999.2500	2.6134	1.4204	877.0000
111.0	0.7391	0.1263	323.6677	18.2273	-0.0039	-999.2500	2.6463	1.4304	877.0000
110.5	0.7314	0.1392	329.7478	18.2273	-0.0096	-999.2500	2.6463	1.4431	908.0000
110.0	0.7321	0.1418	328.0047	18.4073	-0.0197	-999.2500	2.6500	1.4420	852.0000
109.5	0.7332	0.1302	319.5264	18.2193	-0.0257	-999.2500	2.6657	1.4402	881.0000
109.0	0.7316	0.1178	314.3473	18.6673	-0.0212	-999.2500	2.6566	1.4429	856.0000
108.5	0.7324	0.1125	318.0736	19.3792	-0.0109	-999.2500	2.6084	1.4415	880.0000
108.0	0.7657	0.1114	319.9572	19.8192	-0.0027	-999.2500	2.5952	1.3867	859.0000
107.5	0.8060	0.1092	323.0363	19.7232	0.0014	-999.2500	2.6338	1.3201	852.0000
107.0	0.8351	0.1082	316.7175	19.7512	0.0014	-999.2500	2.7285	1.2721	835.0000
106.5	0.8330	0.1018	311.5343	19.6992	-0.0011	-999.2500	2.8090	1.2756	891.0000
106.0	0.8140	0.0982	306.8808	20.0992	-0.0034	-999.2500	2.7901	1.3069	856.0000
105.5	0.8004	0.0980	313.4727	20.1352	-0.0036	-999.2500	2.8004	1.3294	869.0000
105.0	0.7978	0.0981	318.3050	20.2192	-0.0068	-999.2500	2.8689	1.3337	931.0000
104.5	0.7972	0.0943	321.8215	20.8591	-0.0181	-999.2500	2.9700	1.3347	902.0000
104.0	0.7784	0.0996	322.6226	22.3950	-0.0249	-999.2500	2.9879	1.3656	900.0000
103.5	0.7099	0.0988	326.5786	22.6910	-0.0023	-999.2500	2.8693	1.4787	898.0000
103.0	0.6540	0.1018	321.1512	23.3869	0.0500	-999.2500	2.8564	1.5709	877.0000
102.5	0.6321	0.1022	314.9082	22.8110	0.0971	-999.2500	2.9136	1.6071	863.0000
102.0	0.6003	0.1128	313.8689	21.8191	0.1333	-999.2500	2.9441	1.6596	916.0000
101.5	0.5841	0.1221	325.6460	21.5311	0.1189	-999.2500	2.9280	1.6863	870.0000
101.0	0.5648	0.1120	341.5952	20.6751	0.1046	-999.2500	2.8832	1.7181	887.0000
100.5	0.6107	0.1064	343.2285	21.1191	0.0761	-999.2500	2.9001	1.6424	900.0000
100.0	0.6573	0.1096	355.4915	21.1391	0.0683	-999.2500	2.8823	1.5654	897.0000

99.5	0.6990	0.1220	362.3261	22.2350	0.0537	-999.2500	2.8066	1.4967	872.0000
99.0	0.7384	0.1225	383.3881	21.6991	0.0357	-999.2500	2.7471	1.4317	872.0000
98.5	0.7377	0.1304	391.4098	21.3351	0.0304	-999.2500	2.6957	1.4328	845.0000
98.0	0.7036	0.1212	397.4785	19.5712	0.0316	-999.2500	2.6932	1.4891	859.0000
97.5	0.6612	0.1240	410.5446	19.0913	0.0243	-999.2500	2.6827	1.5590	878.0000
97.0	0.6414	0.1295	420.3895	18.8513	0.0013	-999.2500	2.6664	1.5917	905.0000
96.5	0.6657	0.1322	429.7395	18.7313	-0.0258	-999.2500	2.7045	1.5516	892.0000
96.0	0.6919	0.1352	419.1751	18.7793	-0.0381	-999.2500	2.7523	1.5083	891.0000
95.5	0.7130	0.1365	419.8500	18.7953	-0.0360	-999.2500	2.7883	1.4736	938.0000
95.0	0.7092	0.1318	412.3667	18.6833	-0.0213	-999.2500	2.7355	1.4798	916.0000
94.5	0.7135	0.1236	414.3448	18.3633	-0.0097	-999.2500	2.6813	1.4728	915.0000
94.0	0.7131	0.1298	407.9850	18.5153	0.0003	-999.2500	2.6659	1.4733	891.0000
93.5	0.6925	0.1318	402.5577	18.3553	0.0021	-999.2500	2.6406	1.5074	912.0000
93.0	0.6408	0.1381	387.3141	18.3313	0.0034	-999.2500	2.6268	1.5927	921.0000
92.5	0.5885	0.1361	375.8792	17.6354	-0.0007	-999.2500	2.5838	1.6790	913.0000
92.0	0.5880	0.1409	379.9688	17.5794	-0.0120	-999.2500	2.6055	1.6799	884.0000
91.5	0.6462	0.1340	378.5356	17.4594	-0.0298	-999.2500	2.7346	1.5837	900.0000
91.0	0.7326	0.1346	381.3977	17.5314	-0.0449	-999.2500	2.8654	1.4412	874.0000
90.5	0.7713	0.1421	366.8128	17.4834	-0.0548	-999.2500	2.9111	1.3774	894.0000
90.0	0.7648	0.1522	365.3214	17.4354	-0.0642	-999.2500	2.8918	1.3881	882.0000
89.5	0.7332	0.1661	359.1010	17.7114	-0.0746	-999.2500	2.8406	1.4402	876.0000
89.0	0.7161	0.1634	367.0308	17.1594	-0.0768	-999.2500	2.7932	1.4684	898.0000
88.5	0.7044	0.1574	355.2090	16.6995	-0.0685	-999.2500	2.7134	1.4877	911.0000
88.0	0.6864	0.1630	340.7726	17.2554	-0.0591	-999.2500	2.6389	1.5175	911.0000
87.5	0.6704	0.1528	331.1410	16.6555	-0.0552	-999.2500	2.6078	1.5438	883.0000
87.0	0.6666	0.1483	334.6135	16.5475	-0.0594	-999.2500	2.6001	1.5501	905.0000
86.5	0.6804	0.1418	340.3274	16.0075	-0.0659	-999.2500	2.6250	1.5273	885.0000
86.0	0.7011	0.1477	333.3206	15.9835	-0.0684	-999.2500	2.6590	1.4932	888.0000

85.5	0.7145	0.1556	333.4452	16.1635	-0.0609	-999.2500	2.6655	1.4711	899.0000
85.0	0.7201	0.1582	331.1471	16.1395	-0.0438	-999.2500	2.6644	1.4619	900.0000
84.5	0.7172	0.1514	330.6288	15.8755	-0.0243	-999.2500	2.6137	1.4666	870.0000
84.0	0.7139	0.1413	328.9538	15.6195	-0.0130	-999.2500	2.5257	1.4720	891.0000
83.5	0.6983	0.1479	320.1872	16.0195	-0.0108	-999.2500	2.4097	1.4979	884.0000
83.0	0.6769	0.1683	317.4696	16.0115	-0.0155	-999.2500	2.3471	1.5331	929.0000
82.5	0.6483	0.1709	306.1648	15.3956	-0.0184	-999.2500	2.3090	1.5803	954.0000
82.0	0.6353	0.1695	309.7202	15.1716	-0.0232	-999.2500	2.2182	1.6017	894.0000
81.5	0.6337	0.1463	300.7914	15.1796	0.0040	-999.2500	1.9848	1.6043	902.0000
81.0	0.7078	0.1275	302.8173	14.9636	0.0482	-999.2500	2.0521	1.4822	907.0000
80.5	0.7429	0.1241	292.6665	14.3317	0.1528	-999.2500	3.0594	1.4242	900.0000
80.0	0.6862	0.1513	281.9018	13.2917	0.2164	-999.2500	5.2680	1.5178	888.0000
79.5	0.5332	0.1676	250.4686	12.6838	0.2225	-999.2500	7.7686	1.7702	887.0000
79.0	0.5191	0.1563	212.4192	12.6838	-0.1241	-999.2500	9.4148	1.7935	898.0000
78.5	0.3800	0.1360	185.4788	12.6598	-0.1834	-999.2500	10.0000	2.0230	898.0000
78.0	0.4358	0.1388	173.6491	12.6518	-0.4768	-999.2500	10.0000	1.9309	898.0000
77.5	0.3861	0.1452	170.8549	12.6238	-0.4742	-999.2500	10.0000	2.0129	882.0000
77.0	0.5523	0.1442	161.8702	12.6118	-0.7484	-999.2500	10.0000	1.7386	866.0000
76.5	0.5489	0.1451	158.3446	12.6198	-0.7470	-999.2500	10.0000	1.7444	876.0000
76.0	0.5455	0.1421	149.1636	12.6278	-0.7454	-999.2500	10.0000	1.7499	898.0000
75.5	0.5370	0.1354	151.5267	12.6358	-0.7408	-999.2500	10.0000	1.7640	889.0000
75.0	0.5312	0.1281	146.6754	12.6358	-0.7368	-999.2500	10.0000	1.7735	886.0000
74.5	0.5299	0.1254	152.1508	12.6358	-0.7336	-999.2500	10.0000	1.7757	876.0000
74.0	0.3430	0.1210	147.8458	12.6598	-0.4745	-999.2500	10.0000	2.0841	862.0000
73.5	-0.2241	0.1187	150.4137	12.6598	0.3474	-999.2500	10.0000	3.0198	887.0000
73.0	-0.7994	0.1203	148.2983	12.6598	1.2335	-999.2500	10.0000	3.9689	873.0000
72.5	-0.6079	0.1129	144.8122	12.6598	0.9767	-999.2500	10.0000	3.6530	870.0000
72.0	-0.2158	0.0947	134.8709	12.6598	0.4540	-999.2500	10.0000	3.0061	872.0000

71.5	0.3700	0.0789	128.0267	12.6358	-0.4316	-999.2500	10.0000	2.0395	874.0000
71.0	0.4093	0.0750	123.2557	12.6358	-0.4539	-999.2500	10.0000	1.9747	852.0000
70.5	0.6238	0.0852	128.2504	12.6358	-0.7728	-999.2500	10.0000	1.6207	859.0000
70.0	0.6494	0.1013	130.0949	12.6478	-0.7930	-999.2500	10.0000	1.5785	861.0000
69.5	0.6541	0.1139	129.6171	12.6518	-0.7971	-999.2500	10.0000	1.5707	866.0000
69.0	0.6674	0.1175	123.2415	12.6598	-0.8051	-999.2500	10.0000	1.5488	870.0000
68.5	0.6771	0.1204	121.6459	12.6598	-0.8118	-999.2500	10.0000	1.5328	869.0000
68.0	0.6715	0.1181	122.8268	12.6598	-0.8114	-999.2500	10.0000	1.5420	861.0000
67.5	0.6734	0.1165	126.2325	12.6598	-0.8131	-999.2500	10.0000	1.5388	851.0000
67.0	0.7045	0.1140	129.1173	12.6358	-0.8298	-999.2500	10.0000	1.4875	855.0000
66.5	0.7492	0.1177	134.4073	12.6358	-0.8531	-999.2500	10.0000	1.4138	858.0000
66.0	0.7610	0.1263	134.2698	12.6438	-0.8587	-999.2500	10.0000	1.3943	842.0000
65.5	0.7386	0.1333	136.2619	12.6358	-0.8455	-999.2500	10.0000	1.4312	849.0000
65.0	0.7015	0.1296	133.4180	12.6358	-0.8246	-999.2500	10.0000	1.4926	880.0000
64.5	0.6781	0.1225	137.7482	12.6358	-0.8128	-999.2500	10.0000	1.5311	859.0000
64.0	0.6694	0.1196	136.9545	12.6358	-0.8082	-999.2500	10.0000	1.5454	874.0000
63.5	0.6771	0.1157	139.8998	12.6358	-0.8116	-999.2500	10.0000	1.5328	859.0000
63.0	0.6901	0.1131	135.1989	12.6438	-0.8176	-999.2500	10.0000	1.5114	884.0000
62.5	0.6997	0.1067	132.3602	12.6478	-0.8223	-999.2500	10.0000	1.4955	887.0000
62.0	0.7259	0.1058	129.0649	12.6518	-0.8332	-999.2500	10.0000	1.4523	873.0000
61.5	0.7681	0.0992	127.5501	12.6358	-0.7879	-999.2500	10.0000	1.3826	849.0000
61.0	0.8213	0.0790	132.4218	12.6838	-0.6484	-999.2500	10.0000	1.2949	856.0000
60.5	0.9088	0.0499	132.7751	12.6998	-0.5010	-999.2500	10.0000	1.1505	860.0000
60.0	0.9806	0.0294	134.5814	12.7078	-0.3625	-999.2500	10.0000	1.0320	859.0000
59.5	1.0388	0.0225	129.2119	12.7078	-0.3030	-999.2500	9.6564	0.9359	854.0000
59.0	1.0388	0.0283	134.9254	12.7078	-0.2860	-999.2500	9.6564	0.9359	876.0000
58.5	1.0388	0.0370	134.7571	12.7078	-0.3615	-999.2500	9.6564	0.9359	875.0000
58.0	1.0388	0.0354	136.3748	12.7158	-0.4117	-999.2500	10.0000	0.9359	849.0000

57.5	1.0388	0.0328	132.3870	12.7078	-0.3648	-999.2500	9.9670	0.9359	859.0000
57.0	1.0388	0.0418	131.6623	12.7318	-0.3122	-999.2500	9.9670	0.9359	864.0000
56.5	1.0388	0.0618	129.5806	12.7078	-0.3515	-999.2500	9.9670	0.9359	851.0000
56.0	1.0388	0.0797	128.8509	12.7158	-0.4746	-999.2500	10.0000	0.9359	863.0000
55.5	1.0388	0.0787	125.9044	12.7078	-0.5626	-999.2500	10.0000	0.9359	839.0000
55.0	1.0388	0.0747	123.9402	12.7078	-0.5986	-999.2500	10.0000	0.9359	855.0000
54.5	1.0121	0.0762	123.6912	12.7198	-0.6315	-999.2500	10.0000	0.9800	851.0000
54.0	0.9427	0.0802	128.2777	12.7318	-0.6538	-999.2500	10.0000	1.0945	836.0000
53.5	0.8633	0.0894	127.8438	12.7238	-0.6701	-999.2500	10.0000	1.2255	853.0000
53.0	0.7986	0.1016	123.7287	12.7318	-0.6471	-999.2500	10.0000	1.3323	880.0000
52.5	0.7421	0.1175	117.6088	12.7238	-0.6206	-999.2500	10.0000	1.4255	866.0000
52.0	0.6632	0.1222	121.8174	12.7158	-0.5996	-999.2500	10.0000	1.5556	866.0000
51.5	0.5989	0.1189	117.4655	12.7318	-0.6063	-999.2500	10.0000	1.6619	875.0000
51.0	0.5878	0.1090	116.2025	12.7198	-0.6427	-999.2500	10.0000	1.6802	864.0000
50.5	0.6245	0.0995	110.7299	12.7198	-0.6982	-999.2500	10.0000	1.6195	859.0000
50.0	0.6608	0.0870	113.0799	12.7158	-0.7509	-999.2500	10.0000	1.5598	870.0000
49.5	0.6833	0.0705	116.3542	12.7078	-0.7907	-999.2500	10.0000	1.5225	851.0000
49.0	0.6987	0.0556	117.1404	12.7198	-0.8110	-999.2500	10.0000	1.4972	844.0000
48.5	0.7290	0.0417	117.2436	12.7238	-0.8254	-999.2500	10.0000	1.4472	843.0000
48.0	0.7573	0.0358	112.4132	12.7238	-0.8314	-999.2500	10.0000	1.4005	855.0000
47.5	0.7729	0.0315	107.5943	12.7318	-0.8361	-999.2500	10.0000	1.3747	840.0000
47.0	0.7656	0.0321	107.4382	12.7078	-0.8223	-999.2500	10.0000	1.3868	858.0000
46.5	0.7478	0.0334	106.0093	12.7318	-0.8013	-999.2500	10.0000	1.4161	862.0000
46.0	0.7445	0.0375	109.1904	12.7318	-0.7988	-999.2500	10.0000	1.4215	850.0000
45.5	0.7509	0.0413	107.9429	12.7078	-0.8131	-999.2500	10.0000	1.4110	853.0000
45.0	0.7662	0.0424	111.1767	12.7198	-0.8336	-999.2500	10.0000	1.3858	805.0000
44.5	0.7792	0.0393	111.0523	12.7078	-0.8409	-999.2500	10.0000	1.3643	834.0000
44.0	0.7886	0.0356	115.8527	12.7078	-0.8382	-999.2500	10.0000	1.3489	852.0000

43.5	0.7989	0.0359	115.8715	12.7078	-0.8378	-999.2500	10.0000	1.3319	861.0000
43.0	0.7941	0.0405	114.4600	12.7198	-0.8216	-999.2500	10.0000	1.3398	854.0000
42.5	0.7886	0.0486	117.2015	12.7238	-0.8082	-999.2500	10.0000	1.3488	847.0000
42.0	0.7786	0.0641	122.9474	12.7238	-0.7895	-999.2500	10.0000	1.3653	845.0000
41.5	0.7592	0.0750	131.7445	12.7078	-0.7633	-999.2500	10.0000	1.3973	852.0000
41.0	0.7340	0.0798	129.9402	12.7798	-0.7283	-999.2500	10.0000	1.4389	843.0000
40.5	0.7232	0.0746	130.2110	12.7558	-0.7091	-999.2500	10.0000	1.4567	859.0000
40.0	0.7308	0.0741	127.9708	12.7558	-0.7228	-999.2500	10.0000	1.4442	847.0000
39.5	0.7456	0.0773	132.4222	12.7558	-0.7567	-999.2500	10.0000	1.4197	849.0000
39.0	0.7490	0.0803	130.1594	12.7558	-0.7752	-999.2500	10.0000	1.4142	842.0000
38.5	0.7664	0.0892	135.2294	12.7438	-0.7927	-999.2500	10.0000	1.3854	837.0000
38.0	0.7810	0.0944	135.1735	12.7478	-0.8059	-999.2500	10.0000	1.3613	858.0000
37.5	0.7896	0.0963	145.8083	12.7318	-0.8225	-999.2500	10.0000	1.3471	851.0000
37.0	0.7896	0.0950	146.2499	12.7318	-0.8225	-999.2500	10.0000	1.3471	842.0000
36.5	0.7896	0.0954	148.1650	12.7318	-0.8225	-999.2500	10.0000	1.3471	834.0000
36.0	0.7896	0.0913	145.9963	12.7238	-0.8225	-999.2500	10.0000	1.3471	843.0000
35.5	0.7896	0.0894	147.5846	12.7318	-0.8225	-999.2500	10.0000	1.3471	849.0000
35.0	0.7896	0.0904	147.3113	12.7198	-0.8225	-999.2500	10.0000	1.3471	837.0000
34.5	0.7896	0.0854	146.0663	12.7318	-0.8225	-999.2500	10.0000	1.3471	833.0000
34.0	0.7896	0.0819	145.6678	12.7238	-0.8225	-999.2500	10.0000	1.3471	838.0000
33.5	0.7896	0.0744	144.4321	12.7318	-0.8225	-999.2500	10.0000	1.3471	833.0000
33.0	0.7896	0.0686	142.9145	12.7318	-0.8225	-999.2500	10.0000	1.3471	818.0000
32.5	0.7896	0.0649	140.6735	12.7318	-0.8225	-999.2500	10.0000	1.3471	806.0000
32.0	0.7896	0.0675	144.0585	12.7478	-0.8225	-999.2500	10.0000	1.3471	822.0000
31.5	0.7896	0.0676	151.5795	12.7438	-0.8225	-999.2500	10.0000	1.3471	859.0000
31.0	0.7896	0.0667	154.9924	12.7558	-0.8225	-999.2500	10.0000	1.3471	856.0000
30.5	0.7896	0.0667	154.3621	12.7398	-0.8225	-999.2500	10.0000	1.3471	810.0000

```
~VERSION INFORMATION
VERS.           2.0   :CWLS Log ASCII Standard - VERSION 2.0
WRAP.           NO    :One Line per depth step
PROD.  Schlumberger   :LAS Producer
PROG.  DLIS to ASCII 11C0-305                          :LAS Program name and
version
CREA.        2004/02/27 17:23                          :LAS Creation date
{YYYY/MM/DD hh:mm}
SOURCE.     10605245_FMI_Main_017_LUP.DLIS             :DLIS File Name
FILE-ID.     FMI_017LUP                                :File Identification
Number
#-------------------------------------------------
~WELL INFORMATION
#MNEM.UNIT      DATA             DESCRIPTION
#---- ------ --------------   ----------------------------
STRT .F          994.0       :START DEPTH
STOP .F          865.0       :STOP DEPTH
STEP .F           -0.5       :STEP
NULL .          -999.25      :NULL VALUE
COMP .        Kleinfelder                              :COMPANY
WELL .        R-28                                     :WELL
FLD  .        Mortendad Canyon, LANL TA-5              :FIELD
LOC  .        Easting: 1,038,357 ft.                   :LOCATION
CNTY .        Los Alamos                               :COUNTY
STAT .        New Mexico                               :STATE
CTRY .                                                 :COUNTRY
API  .                                                 :API NUMBER
UWI  .                                                 :UNIQUE WELL ID
DATE .        10-Dec-2003                              :LOG DATE {DD-MMM-YYYY}
SRVC .        Schlumberger                             :SERVICE COMPANY
LATI .DEG                                              :LATITUDE
LONG .DEG                                              :LONGITUDE
GDAT .                                                 :GeoDetic Datum
#-------------------------------------------------------------------------------
~PARAMETER INFORMATION
#MNEM.UNIT    VALUE                      DESCRIPTION
#---- -----   --------------------       ------------------------
RUN  .          2                        :RUN NUMBER
PDAT .        GROUND LEVEL               :Permanent Datum
EPD  .F         6756.000000              :Elevation of Permanent Datum above
Mean Sea Level
EPD  .F         6756.000000              :Elevation of tool zero above Mean Sea
Level
LMF  .          GROUND LEVEL             :Logging Measured From (Name of Logging
Elevation Reference)
APD  .F           0.000000               :Elevation of Depth Reference (LMF)
above Permanent Datum
#-------------------------------------------------------------------------------
~CURVE INFORMATION
#MNEM.UNIT   API CODE                                  DESCRIPTION
#---- -----  --------                                  ------------------------
DEPT .F                                                :DEPTH (BOREHOLE) {F10.1}
TENS .LBF                                              :Cable Tension {F13.4}
C1   .IN                                               :Caliper 1 {F13.4}
C2   .IN                                               :Caliper 2 {F13.4}
DCAL .IN                                               :Differential Caliper
{F13.4}
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GR   .GAPI                                                    :Gamma Ray {F13.4}
HAZI .DEG                                                     :Hole Azimuth {F13.4}
DEVI .DEG                                                     :Hole Deviation {F13.4}
P1AZ .DEG                                                     :Pad 1 Azimuth {F13.4}
#-------------------------------------------------------------------------------
#
#     DEPT        TENS         C1           C2           DCAL         GR
HAZI         DEVI         P1AZ
#
~A
     994.0     107.0000       5.1215       4.8713      -7.2552      56.0542
152.3829       1.2004     324.9004
     993.5     103.0000       5.1215       4.8713      -7.2552      56.0542
152.4075       1.2011     324.9004
     993.0     103.0000       5.1215       4.8713      -7.2552      56.0542
152.4535       1.2016     324.9013
     992.5     146.0000       5.1215       4.8713      -7.2552      56.0542
152.4768       1.2027     324.9008
     992.0     460.0000       5.1215       4.8713      -7.2552      56.0542
152.5777       1.2049     324.9016
     991.5     878.0000       5.1215       4.8713      -7.2552      56.0542
152.6771       1.2072     324.9024
     991.0    1135.0000       5.1215       4.8713      -7.2552      56.0542
152.8141       1.2126     324.9009
     990.5    1373.0000       5.1215       4.8825      -7.2494      56.0542
152.9613       1.2202     324.8975
     990.0    1487.0000       5.2177       5.0277      -7.1282      56.0542
153.0776       1.2313     324.8894
     989.5    1391.0000       5.2925       5.1395      -7.0346      56.0542
153.1960       1.2501     323.0530
     989.0     936.0000       5.2925       5.1395      -7.0346      56.0542
153.2733       1.2761     321.7335
     988.5     883.0000       5.2177       5.1618      -7.0603      56.0542
153.3278       1.3129     321.7498
     988.0     856.0000       5.2070       5.1618      -7.0656      56.0542
153.3267       1.3598     318.8115
     987.5     862.0000       5.2711       5.1618      -7.0338      56.0542
153.3150       1.4167     314.3164
     987.0     847.0000       5.2925       5.2289      -6.9894      56.0542
153.2442       1.4827     319.9113
     986.5     745.0000       5.4207       5.4077      -6.8358      56.0542
153.2320       1.5534     323.9669
     986.0     714.0000       5.6664       6.1004      -6.3706      56.0542
153.2132       1.6250     328.2675
     985.5     726.0000       7.3226       7.8212      -4.6822      56.0542
153.2708       1.6943     330.8262
     985.0     722.0000      10.8058      11.8773      -0.9211      56.0542
153.2830       1.7545     331.6062
     984.5     717.0000      13.4235      14.0562       1.4863      56.0542
153.2874       1.8094     332.1062
     984.0     697.0000      13.9257      13.7434       1.5843      56.0542
153.3832       1.8524     333.1461
     983.5     685.0000      13.9578      14.2797       1.8678      56.0542
153.4095       1.8836     332.7550
     983.0     734.0000      14.1394      14.8161       2.2238      56.0542
153.3810       1.9065     336.0465
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982.5	686.0000	14.6416	15.8664	2.9917	56.0542	153.3332	1.9203	340.4976
982.0	675.0000	15.8490	16.6039	3.9720	56.0542	153.2179	1.9288	340.0237
981.5	731.0000	15.3361	15.4418	3.1389	56.0542	153.0998	1.9328	337.9038
981.0	763.0000	15.9131	16.0899	3.7512	56.0542	152.9220	1.9336	336.4722
980.5	758.0000	17.6333	16.7603	4.9413	56.0542	152.7887	1.9326	336.8866
980.0	746.0000	15.5178	15.5647	3.2912	56.0542	152.6404	1.9309	337.9994
979.5	761.0000	13.6479	13.3858	1.2662	56.0542	152.5415	1.9312	339.8082
979.0	736.0000	13.6052	13.3635	1.2338	56.0542	152.4367	1.9329	341.9756
978.5	754.0000	13.8509	13.6987	1.5246	56.0542	152.4429	1.9365	345.5301
978.0	745.0000	13.6372	14.5032	1.8136	56.0542	152.4597	1.9419	348.4208
977.5	766.0000	14.1929	14.7267	2.2073	56.0542	152.4496	1.9483	350.1983
977.0	719.0000	14.1181	14.0562	1.8371	56.0542	152.3791	1.9545	351.7692
976.5	731.0000	13.8616	14.2909	1.8246	56.0542	152.3373	1.9640	350.6259
976.0	705.0000	13.4342	13.3299	1.1320	56.0542	152.3011	1.9711	349.4247
975.5	731.0000	13.5197	12.7712	0.8902	56.0542	152.2239	1.9774	346.9897
975.0	719.0000	13.4342	12.5813	0.7508	56.0542	152.0760	1.9841	346.9069
974.5	713.0000	13.4663	12.9500	0.9556	56.0542	151.9913	1.9907	346.4794
974.0	734.0000	13.3167	12.8718	0.8424	56.0542	151.9114	1.9954	345.0447
973.5	716.0000	13.3701	12.8606	0.8629	56.0542	151.8845	2.0000	343.6226
973.0	712.0000	13.6052	12.9165	1.0064	56.0542	151.8279	2.0057	343.3854
972.5	707.0000	13.5945	12.8718	0.9782	56.0542	151.8276	2.0093	343.7219
972.0	711.0000	13.7334	12.9165	1.0687	56.0542	151.7745	2.0110	343.1010
971.5	739.0000	13.8830	12.9389	1.1526	56.0542	151.7494	2.0126	341.3376
971.0	712.0000	13.9471	13.0282	1.2298	56.0542	151.6880	2.0143	342.2230
970.5	723.0000	14.0326	13.1065	1.3116	56.0542	151.5654	2.0123	343.7214
970.0	733.0000	14.2035	13.0618	1.3707	56.0542	151.4625	2.0089	344.1716
969.5	719.0000	14.2570	13.3635	1.5530	56.0542	151.3192	2.0101	343.7815
969.0	711.0000	14.2035	13.3635	1.5271	56.0542	151.1472	2.0054	343.3221

968.5	687.0000	14.2783	13.4752	1.6210	56.0542	150.9819	2.0028
343.3859							
968.0	793.0000	14.2783	13.4752	1.6210	56.0542	150.8203	1.9997
342.7599							
967.5	783.0000	14.4920	14.0562	2.0225	56.0542	150.6344	1.9968
343.3409							
967.0	750.0000	14.9728	14.8049	2.6386	56.0542	150.4640	1.9975
341.3986							
966.5	747.0000	15.0156	14.1121	2.3068	56.0542	150.3439	1.9983
339.5616							
966.0	779.0000	15.5284	14.7043	2.8608	53.5629	150.2739	1.9995
338.9341							
965.5	697.0000	16.5862	16.3357	4.2105	53.4286	150.1986	2.0037
339.0988							
965.0	708.0000	17.0243	16.9838	4.7540	53.7734	150.1985	2.0094
340.0096							
964.5	689.0000	15.9024	15.1066	3.2494	57.3858	150.2289	2.0154
337.0919							
964.0	874.0000	16.0306	15.0507	3.2829	59.3795	150.2989	2.0217
338.4227							
963.5	818.0000	16.9281	16.2687	4.3451	61.3305	150.4092	2.0273
339.5038							
963.0	765.0000	18.1142	18.6599	6.1350	61.5935	150.5061	2.0325
339.7041							
962.5	758.0000	15.9345	15.2072	3.3166	67.9932	150.5694	2.0351
340.1326							
962.0	762.0000	15.2400	14.5591	2.6456	70.8207	150.6440	2.0360
339.7722							
961.5	822.0000	15.6780	15.2742	3.2248	77.3033	150.6535	2.0384
339.0653							
961.0	790.0000	16.0627	16.0005	3.7816	76.6101	150.6209	2.0342
337.8911							
960.5	738.0000	15.5712	15.6765	3.3737	83.9233	150.5883	2.0354
337.5226							
960.0	772.0000	14.8980	14.5591	2.4776	90.5943	150.5327	2.0310
336.6167							
959.5	855.0000	15.4109	15.3524	3.1316	94.0195	150.4678	2.0278
337.0978							
959.0	829.0000	16.3405	16.1569	3.9985	95.0837	150.4507	2.0256
335.8937							
958.5	782.0000	16.1482	16.0117	3.8298	92.5307	150.3981	2.0234
336.1029							
958.0	767.0000	15.2293	14.3915	2.5544	90.2836	150.3946	2.0204
335.3752							
957.5	779.0000	14.4600	13.7769	1.8643	87.2654	150.3871	2.0187
334.9917							
957.0	744.0000	14.3959	13.7657	1.8273	88.3317	150.4131	2.0195
335.6494							
956.5	724.0000	14.3104	13.8551	1.8309	89.8097	150.4285	2.0183
336.4122							
956.0	768.0000	14.1501	13.8663	1.7575	88.8630	150.4151	2.0182
335.9832							
955.5	730.0000	14.2249	13.8551	1.7888	89.7705	150.4030	2.0166
335.5333							
955.0	727.0000	14.4386	13.7881	1.8596	91.6792	150.3963	2.0182
335.5443							

954.5	747.0000	14.2035	13.7210	1.7102	96.5926	150.4304	2.0188	335.0147
954.0	761.0000	14.1822	13.9110	1.7959	93.5854	150.4440	2.0168	334.3000
953.5	753.0000	14.1822	13.8551	1.7677	92.4322	150.4612	2.0160	333.4578
953.0	756.0000	14.1715	13.8104	1.7398	86.8979	150.4836	2.0173	333.1175
952.5	747.0000	14.0540	13.7881	1.6704	88.4272	150.4759	2.0161	332.7298
952.0	752.0000	14.2142	13.9110	1.8118	88.0630	150.4855	2.0132	332.8063
951.5	742.0000	14.2035	14.2127	1.9581	92.6382	150.4407	2.0113	333.2160
951.0	760.0000	14.4600	14.3021	2.1308	94.1093	150.3815	2.0072	333.7953
950.5	778.0000	14.3104	14.1903	2.0002	94.9407	150.3090	2.0033	333.7405
950.0	783.0000	14.2249	14.1456	1.9352	95.1747	150.2012	1.9962	332.6197
949.5	784.0000	14.2676	14.3468	2.0571	95.4932	150.1077	1.9921	331.6128
949.0	760.0000	14.4386	14.1680	2.0527	94.0376	150.0164	1.9878	331.4877
948.5	768.0000	14.6523	14.4808	2.3163	92.8972	149.9394	1.9836	331.3698
948.0	758.0000	14.5454	14.4808	2.2631	90.7282	149.8543	1.9820	331.3483
947.5	756.0000	14.5454	14.4585	2.2519	93.3795	149.7701	1.9796	331.2542
947.0	733.0000	14.4813	14.3915	2.1863	93.2154	149.7027	1.9791	331.4191
946.5	727.0000	14.5454	14.5032	2.2743	91.5828	149.6766	1.9784	330.5507
946.0	723.0000	14.6950	14.6373	2.4161	89.2057	149.6316	1.9769	330.3388
945.5	739.0000	14.8019	14.5702	2.4356	91.1399	149.6030	1.9739	330.7062
945.0	739.0000	14.8233	14.8384	2.5808	94.6693	149.6060	1.9706	331.7173
944.5	757.0000	14.5668	14.8384	2.4520	96.9890	149.6435	1.9673	332.4708
944.0	776.0000	14.8126	14.8384	2.5755	98.5103	149.7632	1.9612	333.5439
943.5	768.0000	14.8553	14.7937	2.5745	98.6660	149.8731	1.9583	333.9442
943.0	790.0000	14.8019	14.5479	2.4243	99.9494	149.9841	1.9557	334.8667
942.5	762.0000	14.7378	14.4808	2.3587	95.4377	150.1631	1.9500	334.2701
942.0	754.0000	14.9942	14.9278	2.7110	97.5834	150.3220	1.9474	334.9634
941.5	740.0000	14.8980	14.8384	2.6182	96.8683	150.4970	1.9437	335.7856
941.0	719.0000	14.7378	14.8384	2.5380	95.5069	150.5298	1.9437	335.9748

940.5	728.0000	14.7164	14.5479	2.3819	85.7795	150.6165	1.9417	337.8387
940.0	737.0000	15.0263	15.0395	2.7829	78.8713	150.6346	1.9417	341.5155
939.5	744.0000	16.0093	15.8664	3.6877	74.3348	150.6012	1.9437	342.3445
939.0	726.0000	17.5158	17.6319	5.3238	71.5844	150.4467	1.9491	339.6228
938.5	760.0000	19.4604	17.5648	6.2384	72.7786	150.3910	1.9537	343.0128
938.0	788.0000	19.6848	18.6822	6.9270	72.3475	150.2535	1.9602	345.0092
937.5	821.0000	19.3536	18.1459	6.4900	72.9415	150.1528	1.9681	346.9144
937.0	787.0000	18.2424	18.0118	5.8767	71.3300	150.0726	1.9721	344.1730
936.5	736.0000	17.0350	16.0340	4.2769	76.5308	149.9555	1.9823	347.5002
936.0	711.0000	16.5114	15.3971	3.6945	82.0277	150.0025	1.9834	347.2437
935.5	724.0000	16.5114	15.9893	3.9983	84.9464	150.0636	1.9945	345.6718
935.0	735.0000	16.4687	15.7994	3.8806	82.8728	150.1549	1.9969	339.7810
934.5	733.0000	16.8534	14.9837	3.6410	83.6919	150.2823	1.9984	337.8330
934.0	783.0000	16.0520	14.6149	3.0666	88.5653	150.3865	2.0032	338.3445
933.5	709.0000	16.2550	13.5981	2.6173	93.3360	150.4916	2.0055	339.4096
933.0	737.0000	16.8427	13.3411	2.7400	93.2524	150.5285	2.0092	337.5438
932.5	773.0000	15.6460	13.4193	2.2399	90.8459	150.6088	2.0083	339.0402
932.0	730.0000	15.9345	14.0451	2.7100	88.9046	150.6054	2.0117	336.9814
931.5	736.0000	15.9986	13.7099	2.5601	88.9046	150.5459	2.0138	335.8413
931.0	772.0000	15.2293	13.9669	2.3344	87.8400	150.4605	2.0154	337.3744
930.5	784.0000	15.4002	13.8551	2.3573	90.2960	150.4735	2.0184	337.4741
930.0	752.0000	15.4857	13.8663	2.4036	94.4312	150.4320	2.0206	337.3056
929.5	749.0000	15.4002	13.9557	2.4102	99.5190	150.4431	2.0228	333.6017
929.0	744.0000	15.4002	13.8551	2.3573	95.1541	150.5644	2.0207	333.4727
928.5	716.0000	15.3895	14.1680	2.5161	92.3372	150.5915	2.0245	333.5194
928.0	698.0000	15.4002	14.2685	2.5736	92.5865	150.7317	2.0206	333.7239
927.5	777.0000	15.2400	13.6540	2.1752	99.7240	150.9238	2.0246	336.0997
927.0	810.0000	15.0797	14.2127	2.3898	102.0589	151.1551	2.0234	338.5446

926.5	756.0000	15.2293	14.0339	2.3694	99.5950	151.3651	2.0261	342.4714
926.0	741.0000	14.7591	14.2685	2.2618	97.9781	151.6600	2.0263	341.2097
925.5	729.0000	14.6844	14.1345	2.1568	98.1260	151.8622	2.0325	335.9696
925.0	736.0000	15.0904	15.7100	3.1471	94.4491	152.2045	2.0305	331.1856
924.5	719.0000	15.6994	15.5871	3.3931	86.4903	152.4329	2.0331	328.1812
924.0	779.0000	15.5498	15.3524	3.2008	82.3039	152.7533	2.0286	326.4474
923.5	738.0000	15.4430	14.8496	2.8934	81.4005	152.8561	2.0267	324.4275
923.0	738.0000	15.7421	15.1960	3.2166	88.5053	153.0892	2.0176	323.7404
922.5	698.0000	15.7849	16.1458	3.7143	86.1457	153.1443	2.0115	323.8572
922.0	773.0000	17.3449	16.5145	4.6746	86.8895	153.2914	1.9971	322.5049
921.5	789.0000	17.3449	16.3692	4.6000	78.3614	153.4251	1.9896	321.8063
921.0	802.0000	18.7125	16.7156	5.4359	78.5819	153.7301	1.9793	320.8195
920.5	751.0000	17.9218	16.5592	4.9770	79.2713	153.9997	1.9723	319.8434
920.0	821.0000	17.0243	16.5145	4.5175	82.9038	154.3834	1.9664	319.4464
919.5	799.0000	15.7101	15.3301	3.2689	84.8990	154.9341	1.9678	322.8728
919.0	775.0000	15.3254	14.2350	2.5202	82.9166	155.3562	1.9681	330.6282
918.5	772.0000	15.1652	13.4082	2.0096	83.7691	155.6874	1.9703	336.1042
918.0	738.0000	14.6309	13.8551	1.9877	83.4597	155.8847	1.9733	336.8452
917.5	760.0000	14.5241	13.4193	1.7108	81.8236	155.8566	1.9797	335.8202
917.0	723.0000	14.6416	13.8104	1.9699	79.9166	155.7504	1.9770	331.9798
916.5	782.0000	14.6416	14.0339	2.0845	77.5563	155.3897	1.9780	331.0247
916.0	810.0000	14.7378	14.2574	2.2456	81.9377	155.0828	1.9738	328.0017
915.5	831.0000	14.5454	14.7490	2.3969	82.1332	154.6445	1.9740	325.0219
915.0	831.0000	14.5454	14.4808	2.2631	82.9371	154.4124	1.9678	324.2702
914.5	850.0000	14.3959	13.8663	1.8786	82.2400	154.2448	1.9661	325.4612
914.0	836.0000	14.6523	14.2127	2.1808	79.0944	154.2404	1.9614	325.5667
913.5	864.0000	14.6523	14.1680	2.1581	73.1570	154.3185	1.9618	324.9920
913.0	782.0000	14.3104	13.9222	1.8649	65.0600	154.4469	1.9608	323.4825

912.5	806.0000	14.3531	13.8775	1.8633	67.1813	154.6040	1.9601	325.0284
912.0	803.0000	14.5561	13.7322	1.8882	69.7592	154.7173	1.9627	328.6577
911.5	768.0000	14.8233	13.3411	1.8127	76.0515	154.6979	1.9671	331.0630
911.0	818.0000	13.5411	13.7210	1.3808	84.2625	154.7057	1.9601	332.2913
910.5	916.0000	13.4235	13.7322	1.3270	94.0674	154.5153	1.9679	329.4963
910.0	954.0000	14.2676	14.2239	1.9957	98.3400	154.3470	1.9666	330.1848
909.5	877.0000	14.6096	13.8775	1.9888	93.3805	154.1220	1.9666	329.4088
909.0	909.0000	14.1394	14.2574	1.9483	90.5214	153.9415	1.9626	332.9274
908.5	842.0000	13.5304	13.5981	1.3142	91.3979	153.7821	1.9580	334.3380
908.0	758.0000	13.1778	13.8663	1.2677	92.7726	153.6334	1.9532	332.9135
907.5	778.0000	13.8937	14.4697	1.9288	87.4372	153.3776	1.9484	328.5621
907.0	833.0000	14.9301	14.5032	2.4651	77.3128	153.1156	1.9441	328.3296
906.5	869.0000	16.4260	15.9781	3.9505	66.1744	152.8544	1.9405	328.9250
906.0	926.0000	18.1996	17.7101	5.7032	64.2249	152.4275	1.9404	328.0679
905.5	936.0000	17.0671	17.9783	5.2667	66.4201	152.0608	1.9371	330.0618
905.0	931.0000	14.6523	16.1793	3.1469	77.9323	151.5922	1.9417	330.9616
904.5	920.0000	13.5945	15.5200	2.2754	85.7125	151.2252	1.9415	332.8247
904.0	878.0000	13.6266	16.1346	2.5776	94.1498	150.8729	1.9464	335.3165
903.5	940.0000	13.5411	16.6039	2.7445	87.2841	150.6110	1.9458	331.8202
903.0	866.0000	14.3104	16.0564	2.9083	80.2873	150.4895	1.9394	331.4956
902.5	821.0000	15.1011	15.9558	3.2725	73.0573	150.2468	1.9456	327.7477
902.0	821.0000	14.4813	15.7212	2.8385	75.6228	150.1928	1.9377	325.6783
901.5	835.0000	15.2720	16.5145	3.6311	76.5322	150.0483	1.9369	323.0079
901.0	804.0000	16.8534	17.6095	4.9773	74.8389	149.9793	1.9347	324.1366
900.5	887.0000	16.6397	17.4084	4.7697	70.7679	149.8396	1.9330	324.5443
900.0	889.0000	16.4794	16.3357	4.1574	71.6322	149.7456	1.9335	320.4532
899.5	992.0000	16.9495	17.3078	4.8777	75.0937	149.5661	1.9329	320.1725
899.0	946.0000	16.1268	17.1849	4.3975	76.8438	149.4970	1.9292	321.0538

898.5	930.0000	16.4580	16.9503	4.4523	76.8192	149.3780	1.9249	320.4188
898.0	900.0000	14.9087	15.3748	2.8900	80.2272	149.2655	1.9181	318.8333
897.5	881.0000	14.4813	15.3077	2.6388	84.8262	149.2205	1.9042	317.9629
897.0	936.0000	14.9515	14.9278	2.6896	89.6365	149.1373	1.8906	316.4880
896.5	936.0000	15.1545	14.7825	2.7174	92.0193	149.0773	1.8707	317.2849
896.0	910.0000	15.3254	14.5255	2.6701	96.2716	149.0217	1.8545	313.2083
895.5	955.0000	14.8233	14.9725	2.6477	95.2071	148.9608	1.8353	309.9925
895.0	963.0000	14.9408	15.6876	3.0597	89.4163	148.8441	1.8198	313.9493
894.5	913.0000	15.3148	15.1960	3.0052	85.8428	148.7884	1.8127	315.8771
894.0	1016.0000	14.9301	14.3915	2.4083	83.2535	148.7599	1.8009	316.3766
893.5	943.0000	14.3745	13.9669	1.9192	86.4570	148.6226	1.7973	319.8304
893.0	945.0000	13.9685	14.1456	1.8068	87.5633	148.6764	1.7969	324.5198
892.5	926.0000	13.6372	14.1121	1.6226	90.0221	148.6035	1.7957	325.0730
892.0	941.0000	13.9792	14.1903	1.8343	93.0555	148.6030	1.7969	325.5130
891.5	915.0000	13.7120	14.0562	1.6331	93.3575	148.6109	1.7950	325.7874
891.0	946.0000	13.7868	14.1680	1.7261	95.9381	148.6575	1.7960	327.8335
890.5	934.0000	13.7334	14.0339	1.6328	92.9687	148.6206	1.7992	322.6006
890.0	942.0000	14.6309	14.2574	2.1929	95.3983	148.6423	1.8016	317.2033
889.5	742.0000	14.7164	14.7937	2.5050	100.9103	148.6661	1.8032	308.7864
889.0	937.0000	14.6950	15.1066	2.6494	113.8171	148.6711	1.8074	312.3535
888.5	954.0000	15.3148	14.5591	2.6821	129.6452	148.6860	1.8141	313.5531
888.0	964.0000	15.7421	15.9558	3.5986	140.7245	148.6805	1.8206	314.2764
887.5	971.0000	15.4109	15.3636	3.1372	143.8323	148.6226	1.8289	312.3903
887.0	1001.0000	14.8874	15.0172	2.7021	141.0443	148.5283	1.8382	313.5963
886.5	985.0000	14.3531	14.9278	2.3876	140.8575	148.4623	1.8484	314.6069
886.0	963.0000	14.5989	15.0172	2.5566	143.8237	148.2812	1.8545	316.4191
885.5	931.0000	14.7805	14.6373	2.4587	147.6376	148.1308	1.8663	320.1404
885.0	957.0000	14.4813	14.7490	2.3646	149.4722	148.0392	1.8725	322.5668

884.5	995.0000	14.5454	14.6596	2.3524	146.8054	147.8442	1.8782	323.2046
884.0	991.0000	14.8019	14.4808	2.3905	142.5360	147.8154	1.8805	322.4374
883.5	991.0000	14.8980	14.2574	2.3242	138.1211	147.7844	1.8814	321.5363
883.0	958.0000	14.4813	13.7545	1.8633	132.7493	147.7632	1.8833	320.5004
882.5	980.0000	14.1608	13.6763	1.6665	131.5988	147.7867	1.8831	319.4521
882.0	985.0000	13.9364	13.5646	1.4992	127.5351	147.8383	1.8827	319.3157
881.5	974.0000	14.0326	13.9669	1.7497	128.0946	147.8579	1.8840	320.6808
881.0	952.0000	13.9685	14.5702	2.0162	130.1810	147.8502	1.8864	321.7937
880.5	971.0000	13.9257	14.0227	1.7241	133.8372	147.8435	1.8885	322.3477
880.0	1006.0000	14.0112	14.1680	1.8394	140.3784	147.7331	1.8924	323.9760
879.5	1046.0000	14.4813	14.5032	2.2423	146.6377	147.5970	1.8961	325.0896
879.0	981.0000	14.1608	14.2239	1.9423	158.5922	147.4742	1.8969	325.6393
878.5	945.0000	13.4235	13.8663	1.3931	165.9928	147.2999	1.8975	327.3639
878.0	982.0000	12.8893	12.9947	0.6919	168.8311	147.1177	1.8975	327.3031
877.5	971.0000	12.8679	12.7154	0.5414	170.1060	147.0331	1.8955	327.1352
877.0	970.0000	12.8786	12.8048	0.5916	170.9126	146.9408	1.8921	330.5723
876.5	1009.0000	12.8573	12.9500	0.6536	175.3781	146.9437	1.8906	328.3011
876.0	1007.0000	12.9962	13.3188	0.9065	179.9600	147.0373	1.8875	327.8136
875.5	970.0000	12.9962	13.4529	0.9725	178.3282	147.1335	1.8895	327.7805
875.0	961.0000	12.6970	13.4975	0.8411	175.6951	147.2568	1.8930	326.8189
874.5	982.0000	12.8679	13.4082	0.8853	170.5457	147.3492	1.8993	325.1141
874.0	1022.0000	13.1137	13.2294	0.9214	169.9233	147.3966	1.9101	327.2833
873.5	959.0000	13.0282	12.8048	0.6660	167.6686	147.3188	1.9243	329.4056
873.0	971.0000	13.1992	12.8495	0.7731	161.4233	147.1972	1.9391	329.8741
872.5	1013.0000	13.0496	12.1120	0.3220	160.4530	146.9982	1.9567	330.0278
872.0	1025.0000	12.6115	12.7154	0.4133	159.3790	146.7164	1.9764	329.3995
871.5	993.0000	12.7290	12.4584	0.3430	159.1457	146.4477	1.9966	329.2725
871.0	919.0000	12.7397	12.9277	0.5834	156.6824	146.1841	2.0127	330.5670

870.5	913.0000	12.7718	13.0059	0.6383	151.9953	145.9169	2.0316	330.1403
870.0	977.0000	13.0175	12.9612	0.7393	151.0060	145.7682	2.0488	329.1693
869.5	984.0000	13.1137	12.7154	0.6630	157.7157	145.6353	2.0622	328.9416
869.0	991.0000	13.1351	12.7154	0.6735	168.2550	145.5570	2.0744	328.2904
868.5	968.0000	13.1778	12.5366	0.6032	174.2343	145.5570	2.0744	328.2904
868.0	978.0000	13.1137	12.7154	0.6630	169.2815	145.5570	2.0744	328.2904
867.5	947.0000	13.2526	12.8048	0.7768	163.9299	145.5570	2.0744	328.2904
867.0	953.0000	13.4983	13.1400	1.0680	163.1663	145.5570	2.0744	328.2904
866.5	992.0000	13.4129	12.8383	0.8724	165.3870	145.5570	2.0744	328.2904
866.0	992.0000	13.6266	13.2629	1.1935	161.5679	145.5570	2.0744	328.2904
865.5	935.0000	13.7975	13.6987	1.4980	160.0249	145.5570	2.0744	328.2904
865.0	992.0000	13.6693	13.6987	1.4340	163.0237	145.5570	2.0744	328.2904

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~VERSION INFORMATION
VERS.           2.0   :CWLS Log ASCII Standard - VERSION 2.0
WRAP.           NO    :One Line per depth step
PROD.  Schlumberger   :LAS Producer
PROG.  DLIS to ASCII 11C0-305                          :LAS Program name and
version
CREA.        2004/02/27 17:26                          :LAS Creation date
{YYYY/MM/DD hh:mm}
SOURCE.     10605245_ECS_CMR_MainLog_028.DLIS          :DLIS File Name
FILE-ID.     ECS_CMR_028PUP                            :File Identification
Number
#--------------------------------------------------
~WELL INFORMATION
#MNEM.UNIT      DATA             DESCRIPTION
#---- ------ --------------   ----------------------------
STRT .F         1002.5       :START DEPTH
STOP .F           51.0       :STOP DEPTH
STEP .F           -0.5       :STEP
NULL .          -999.25      :NULL VALUE
COMP .        Kleinfelder                              :COMPANY
WELL .        R-28                                     :WELL
FLD  .        Mortendad Canyon, LANL TA-5              :FIELD
LOC  .        Easting: 1,038,357 ft.                   :LOCATION
CNTY .        Los Alamos                               :COUNTY
STAT .        New Mexico                               :STATE
CTRY .                                                 :COUNTRY
API  .                                                 :API NUMBER
UWI  .                                                 :UNIQUE WELL ID
DATE .        10-Dec-2003                              :LOG DATE {DD-MMM-YYYY}
SRVC .        Schlumberger                             :SERVICE COMPANY
LATI .DEG                                              :LATITUDE
LONG .DEG                                              :LONGITUDE
GDAT .                                                 :GeoDetic Datum
#-------------------------------------------------------------------------------
~PARAMETER INFORMATION
#MNEM.UNIT    VALUE                      DESCRIPTION
#---- -----   --------------------       ------------------------
RUN  .          4                        :RUN NUMBER
PDAT .        GROUND LEVEL               :Permanent Datum
EPD  .F         6756.000000              :Elevation of Permanent Datum above
Mean Sea Level
EPD  .F         6756.000000              :Elevation of tool zero above Mean Sea
Level
LMF  .          GROUND LEVEL             :Logging Measured From (Name of Logging
Elevation Reference)
APD  .F           0.000000               :Elevation of Depth Reference (LMF)
above Permanent Datum
#-------------------------------------------------------------------------------
~CURVE INFORMATION
#MNEM.UNIT   API CODE                                  DESCRIPTION
#---- -----  --------                                  ------------------------
DEPT .F                                                :DEPTH (BOREHOLE) {F10.1}
CMFF .CFCF                                             :CMR Free Fluid {F13.4}
CMRP_3MS.CFCF                                          :CMR 3ms Porosity {F13.4}
GR   .GAPI                                             :Gamma Ray {F13.4}
KSDR .MD                                               :Permeability from CMR -
SDR Model {F13.4}
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KTIM .MD                                                    :Permeability from CMR -
Timur Model {F13.4}
SLAN .                                                      :ECS SpectroLith Dry
Weight Fraction Anhydrite {F13.4}
SLCA .                                                      :ECS SpectroLith Dry
Weight Fraction Calcium {F13.4}
SLCL .                                                      :ECS SpectroLith Dry
Weight Fraction Clay {F13.4}
SLCR .                                                      :ECS SpectroLith Dry
Weight Fraction Carbonate {F13.4}
SLFE .                                                      :ECS SpectroLith Dry
Weight Fraction Iron {F13.4}
SLGD .                                                      :ECS SpectroLith Dry
Weight Fraction Gadolinium {F13.4}
SLQF .                                                      :ECS SpectroLith Dry
Weight Fraction Quartz, Feldspar and Mica (QFM) {F13.4}
SLSI .                                                      :ECS SpectroLith Dry
Weight Fraction Silicon {F13.4}
SLSU .                                                      :ECS SpectroLith Dry
Weight Fraction Sulfur {F13.4}
SLTI .                                                      :ECS SpectroLith Dry
Weight Fraction Titanium {F13.4}
T2CUTOFF.MS                                                 :T2 Cutoff {F13.4}
T2LM .MS                                                    :T2 Logarithmic Mean
{F13.4}
TCMR .CFCF                                                  :Total CMR Porosity
{F13.4}
TENS .LBF                                                   :Cable Tension {F13.4}
#------------------------------------------------------------------------------
#
#     DEPT        CMFF       CMRP_3MS       GR           KSDR         KTIM
SLAN         SLCA         SLCL         SLCR         SLFE         SLGD
SLQF         SLSI         SLSU         SLTI       T2CUTOFF       T2LM
TCMR         TENS
#
~A
    1002.5       0.1790       0.3036     116.8288      71.8413    1471.3110
0.0000       0.1168       0.2079       0.2392       0.0277      15.7945
0.5529       0.2477       0.0001       0.0023      33.0000      34.6120
0.3499      94.0000
    1002.0       0.1790       0.3036     116.8288      71.8413    1471.3110
0.0000       0.1168       0.2079       0.2392       0.0277      15.7945
0.5529       0.2477       0.0001       0.0023      33.0000      34.6120
0.3499      93.0000
    1001.5       0.1790       0.3036     116.8288      71.8413    1471.3110
0.0000       0.1168       0.2079       0.2392       0.0277      15.7945
0.5529       0.2477       0.0001       0.0023      33.0000      34.6120
0.3499      96.0000
    1001.0       0.1790       0.3036     116.8288      71.8413    1471.3110
0.0000       0.1168       0.2080       0.2392       0.0277      15.7928
0.5528       0.2477       0.0001       0.0023      33.0000      34.6120
0.3499      94.0000
    1000.5       0.1790       0.3036     116.8288      71.8413    1471.3110
0.0000       0.1167       0.2086       0.2390       0.0278      15.7849
0.5524       0.2476       0.0001       0.0023      33.0000      34.6120
0.3499      96.0000
```

1000.0	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.1166	0.2097	0.2387	0.0279	15.7683
0.5516	0.2473	0.0001	0.0023	33.0000	34.6120
0.3499	103.0000				
999.5	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.1165	0.2112	0.2383	0.0281	15.7477
0.5505	0.2470	0.0001	0.0023	33.0000	34.6120
0.3499	103.0000				
999.0	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.1073	0.2136	0.2137	0.0283	15.2121
0.5728	0.2569	0.0001	0.0025	33.0000	34.6120
0.3499	107.0000				
998.5	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.0868	0.2111	0.1586	0.0279	12.8332
0.6303	0.2818	0.0001	0.0028	33.0000	34.6120
0.3499	107.0000				
998.0	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.0556	0.2022	0.0745	0.0263	9.8728
0.7233	0.3218	0.0029	0.0031	33.0000	34.6120
0.3499	112.0000				
997.5	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.0366	0.1833	0.0234	0.0240	7.1278
0.7933	0.3507	0.0042	0.0030	33.0000	34.6120
0.3499	113.0000				
997.0	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.0334	0.1676	0.0149	0.0227	7.3606
0.8175	0.3594	0.0001	0.0029	33.0000	34.6120
0.3499	111.0000				
996.5	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.0347	0.1731	0.0182	0.0234	7.2479
0.8087	0.3559	0.0001	0.0028	33.0000	34.6120
0.3499	107.0000				
996.0	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.0326	0.1835	0.0128	0.0247	7.1139
0.8037	0.3546	0.0001	0.0028	33.0000	34.6120
0.3499	114.0000				
995.5	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.0248	0.1877	0.0000	0.0251	6.4899
0.8123	0.3623	0.0001	0.0029	33.0000	34.6120
0.3499	113.0000				
995.0	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.0224	0.1833	0.0000	0.0246	6.0562
0.8167	0.3666	0.0001	0.0028	33.0000	34.6120
0.3499	119.0000				
994.5	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.0192	0.1784	0.0000	0.0239	5.8774
0.8216	0.3722	0.0001	0.0031	33.0000	34.6120
0.3499	117.0000				
994.0	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.0190	0.1832	0.0000	0.0245	5.2647
0.8168	0.3707	0.0001	0.0032	33.0000	34.6120
0.3499	121.0000				
993.5	0.1790	0.3036	116.8288	71.8413	1471.3110
0.0000	0.0165	0.1886	0.0000	0.0250	5.5556
0.8114	0.3719	0.0001	0.0035	33.0000	34.6120
0.3499	120.0000				

993.0 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0166 0.1902 0.0000 0.0252 5.3317
0.8098 0.3712 0.0001 0.0034 33.0000 34.6120
0.3499 151.0000
992.5 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0211 0.1818 0.0000 0.0243 4.8374
0.8182 0.3688 0.0001 0.0032 33.0000 34.6120
0.3499 472.0000
992.0 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0292 0.1732 0.0035 0.0234 3.9637
0.8233 0.3622 0.0001 0.0028 33.0000 34.6120
0.3499 888.0000
991.5 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0320 0.1756 0.0112 0.0238 3.7180
0.8132 0.3580 0.0001 0.0026 33.0000 34.6120
0.3499 1300.0000
991.0 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0309 0.1852 0.0081 0.0248 3.5360
0.8067 0.3561 0.0001 0.0028 33.0000 34.6120
0.3499 1429.0000
990.5 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0245 0.1990 0.0000 0.0263 2.9991
0.8010 0.3589 0.0001 0.0033 33.0000 34.6120
0.3499 1267.0000
990.0 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0196 0.2006 0.0000 0.0264 2.9204
0.7994 0.3641 0.0001 0.0036 33.0000 34.6120
0.3499 1186.0000
989.5 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0148 0.1926 0.0000 0.0255 3.9461
0.8074 0.3725 0.0001 0.0034 33.0000 34.6120
0.3499 1189.0000
989.0 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0140 0.1819 0.0000 0.0244 4.9649
0.8181 0.3770 0.0001 0.0031 33.0000 34.6120
0.3499 1195.0000
988.5 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0145 0.1756 0.0000 0.0237 4.8781
0.8244 0.3785 0.0001 0.0028 33.0000 34.6120
0.3499 1185.0000
988.0 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0156 0.1859 0.0000 0.0249 3.4523
0.8141 0.3736 0.0001 0.0029 33.0000 34.6120
0.3499 1216.0000
987.5 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0144 0.1882 0.0000 0.0252 3.1060
0.8118 0.3742 0.0001 0.0029 33.0000 34.6120
0.3499 1191.0000
987.0 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0134 0.2000 0.0000 0.0265 3.2362
0.8000 0.3713 0.0001 0.0030 33.0000 34.6120
0.3499 1172.0000
986.5 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0081 0.1969 0.0000 0.0262 4.4286
0.8031 0.3786 0.0001 0.0028 33.0000 34.6120
0.3499 1193.0000

986.0 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0018 0.1995 0.0000 0.0264 4.6122
0.8005 0.3851 0.0001 0.0031 33.0000 34.6120
0.3499 1151.0000
985.5 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0002 0.1905 0.0000 0.0253 4.0226
0.8095 0.3902 0.0001 0.0033 33.0000 34.6120
0.3499 1159.0000
985.0 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0002 0.1902 0.0000 0.0252 1.5836
0.8098 0.3904 0.0001 0.0035 33.0000 34.6120
0.3499 1149.0000
984.5 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0002 0.2043 0.0000 0.0268 0.0070
0.7957 0.3856 0.0001 0.0036 33.0000 34.6120
0.3499 1139.0000
984.0 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0059 0.2151 0.0000 0.0280 0.0070
0.7849 0.3752 0.0001 0.0037 33.0000 34.6120
0.3499 1139.0000
983.5 0.1790 0.3036 116.8288 71.8413 1471.3110
0.0000 0.0116 0.2184 0.0000 0.0283 1.2969
0.7816 0.3675 0.0001 0.0038 33.0000 34.6120
0.3499 1148.0000
983.0 0.1756 0.3081 116.8288 86.6810 1269.4130
0.0000 0.0113 0.2098 0.0000 0.0272 2.5150
0.7902 0.3709 0.0001 0.0043 33.0000 38.0942
0.3496 1120.0000
982.5 0.1822 0.3172 116.8288 107.4722 1285.3921
0.0000 0.0002 0.2004 0.0000 0.0258 2.5304
0.7996 0.3873 0.0001 0.0049 33.0000 38.6376
0.3663 1150.0000
982.0 0.1963 0.3197 116.8288 133.5280 2228.3799
0.0000 0.0003 0.1906 0.0000 0.0244 0.0133
0.8094 0.3909 0.0002 0.0057 33.0000 42.1717
0.3701 1118.0000
981.5 0.1894 0.3119 116.8288 96.4597 2006.5367
0.0000 0.0004 0.1854 0.0000 0.0237 0.0162
0.8146 0.3927 0.0002 0.0059 33.0000 38.1196
0.3589 1160.0000
981.0 0.1860 0.3023 116.8288 80.1561 1669.0475
0.0000 0.0004 0.1838 0.0000 0.0237 0.0174
0.8162 0.3931 0.0002 0.0054 33.0000 34.3736
0.3609 1135.0000
980.5 0.1757 0.3029 116.8288 80.6973 1100.3718
0.0000 0.0004 0.1757 0.0000 0.0234 0.0165
0.8243 0.3953 0.0002 0.0035 33.0000 34.9696
0.3584 1159.0000
980.0 0.1860 0.3056 116.8288 103.3215 1585.5468
0.0000 0.0003 0.1829 0.0000 0.0248 0.0146
0.8171 0.3923 0.0002 0.0023 33.0000 38.4277
0.3637 1132.0000
979.5 0.1881 0.3074 116.8288 91.1119 1913.3425
0.0000 0.0182 0.1878 0.0000 0.0255 1.2560
0.8122 0.3695 0.0002 0.0018 33.0000 37.1899
0.3582 1126.0000

979.0 0.1891 0.3096 116.8288 84.8999 1819.5891
0.0000 0.0247 0.2026 0.0000 0.0271 2.0088
0.7974 0.3570 0.0001 0.0023 33.0000 34.8236
0.3637 1173.0000
978.5 0.1889 0.3152 116.8288 79.5258 1422.0911
0.0000 0.0312 0.1980 0.0090 0.0265 2.3658
0.7930 0.3511 0.0001 0.0025 33.0000 31.1954
0.3781 1153.0000
978.0 0.1921 0.3215 116.8288 114.9206 1814.8485
0.0000 0.0280 0.1974 0.0003 0.0264 2.0147
0.8023 0.3551 0.0001 0.0025 33.0000 38.8447
0.3715 1151.0000
977.5 0.1897 0.3123 116.8288 92.1960 2133.1865
0.0000 0.0313 0.1903 0.0093 0.0257 1.7537
0.8004 0.3535 0.0001 0.0022 33.0000 37.8186
0.3563 1138.0000
977.0 0.1770 0.3102 116.8288 74.5474 1223.2140
0.0000 0.0334 0.1985 0.0148 0.0266 0.7686
0.7867 0.3483 0.0001 0.0023 33.0000 34.1747
0.3554 1134.0000
976.5 0.1793 0.3180 116.8288 86.8940 925.9091
0.0000 0.0329 0.1910 0.0135 0.0257 0.0110
0.7955 0.3515 0.0001 0.0023 33.0000 32.3359
0.3797 1167.0000
976.0 0.1963 0.3212 116.8288 99.8220 1537.2576
0.0000 0.0295 0.1871 0.0043 0.0252 0.0109
0.8086 0.3569 0.0001 0.0024 33.0000 32.3667
0.3929 1136.0000
975.5 0.1910 0.3118 116.8288 80.2050 1159.8645
0.0000 0.0194 0.1781 0.0000 0.0242 0.9540
0.8219 0.3718 0.0001 0.0024 33.0000 28.3752
0.3973 1150.0000
975.0 0.1822 0.3063 116.8288 68.8860 1064.7252
0.0000 0.0265 0.1916 0.0000 0.0258 4.7971
0.8084 0.3588 0.0001 0.0023 33.0000 28.9972
0.3783 1145.0000
974.5 0.1777 0.3070 116.8288 72.8436 958.8639
0.0000 0.0315 0.2039 0.0097 0.0273 5.9287
0.7864 0.3486 0.0001 0.0020 33.0000 30.7236
0.3727 1147.0000
974.0 0.1735 0.3097 116.8288 75.2372 1137.5239
0.0000 0.0479 0.2055 0.0538 0.0276 6.3667
0.7408 0.3288 0.0001 0.0018 33.0000 35.3378
0.3503 1153.0000
973.5 0.1718 0.3058 116.8288 74.3394 1082.8163
0.0000 0.0495 0.1891 0.0582 0.0257 4.9733
0.7527 0.3325 0.0001 0.0017 33.0000 35.4739
0.3486 1142.0000
973.0 0.1817 0.3089 116.8288 92.1578 1358.6979
0.0000 0.0499 0.1596 0.0593 0.0221 3.1509
0.7811 0.3426 0.0001 0.0019 33.0000 36.6855
0.3617 1131.0000
972.5 0.1836 0.3167 116.8288 116.2505 1637.7405
0.0000 0.0385 0.1387 0.0285 0.0196 0.0102
0.8329 0.3637 0.0001 0.0017 33.0000 42.5841
0.3558 1121.0000

972.0	0.1790	0.3145	116.8288	103.9699	1454.1461
0.0000	0.0289	0.1322	0.0027	0.0187	0.0109
0.8650	0.3773	0.0013	0.0013	33.0000	41.4434
0.3507	1114.0000				
971.5	0.1754	0.2991	116.8288	72.4722	1224.3544
0.0000	0.0182	0.1458	0.0000	0.0207	0.0114
0.8542	0.3845	0.0002	0.0010	33.0000	34.5229
0.3511	1120.0000				
971.0	0.1746	0.2932	116.8288	63.4966	1621.7141
0.0000	0.0137	0.1673	0.0000	0.0232	0.0613
0.8327	0.3820	0.0001	0.0014	33.0000	35.8048
0.3336	1126.0000				
970.5	0.1658	0.2714	116.8288	31.5611	1195.0228
0.0000	0.0173	0.1959	0.0000	0.0265	2.4115
0.8041	0.3679	0.0001	0.0019	33.0000	26.2470
0.3271	1118.0000				
970.0	0.1564	0.2677	116.8288	26.1197	1026.9359
0.0000	0.0255	0.2075	0.0000	0.0277	2.8880
0.7925	0.3543	0.0001	0.0021	33.0000	26.5261
0.3104	1128.0000				
969.5	0.1736	0.2889	116.8288	46.2619	1656.3469
0.0000	0.0351	0.2032	0.0193	0.0272	2.1939
0.7775	0.3447	0.0001	0.0021	33.0000	31.2307
0.3300	1156.0000				
969.0	0.1797	0.3034	116.8288	84.1305	2618.0310
0.0000	0.0353	0.1826	0.0201	0.0249	1.9968
0.7973	0.3514	0.0001	0.0018	33.0000	44.1671
0.3222	1145.0000				
968.5	0.1625	0.2756	116.8288	39.6316	1438.8062
0.0000	0.0432	0.1653	0.0411	0.0230	3.3184
0.7936	0.3483	0.0001	0.0014	33.0000	32.9030
0.3093	1165.0000				
968.0	0.1389	0.2427	116.8288	13.5584	446.9945
0.0000	0.0566	0.1522	0.0772	0.0216	3.1925
0.7707	0.3372	0.0001	0.0008	33.0000	19.6745
0.3059	1132.0000				
967.5	0.1388	0.2449	116.8288	11.8106	296.1344
0.0000	0.0751	0.1449	0.1269	0.0208	1.7679
0.7281	0.3182	0.0001	0.0005	33.0000	15.6361
0.3315	1125.0000				
967.0	0.1619	0.2717	116.8288	27.1823	745.9212
0.0000	0.0768	0.1518	0.1315	0.0211	0.0112
0.7167	0.3142	0.0049	0.0002	33.0000	22.0961
0.3435	1133.0000				
966.5	0.2046	0.3517	116.8288	157.3723	3626.0327
0.0000	0.0651	0.1761	0.1000	0.0229	0.0118
0.7239	0.3202	0.0114	0.0011	33.0000	47.4492
0.3636	1107.0000				
966.0	0.2131	0.3473	109.4903	252.4422	6869.8569
0.0000	0.0508	0.2028	0.0617	0.0253	0.0127
0.7355	0.3282	0.0143	0.0021	33.0000	64.1584
0.3519	1113.0000				
965.5	0.1828	0.3342	107.8398	136.2397	1633.0446
0.0000	0.0403	0.2186	0.0333	0.0271	0.0142
0.7481	0.3351	0.0092	0.0037	33.0000	46.6210
0.3538	1111.0000				

965.0 0.3150 0.5133 101.2392 1688.0695 12775.3369
0.0000 0.0268 0.2120 0.0000 0.0276 0.0158
0.7880 0.3519 0.0002 0.0038 33.0000 72.8739
0.5309 1102.0000
964.5 0.4329 0.6257 101.8549 7592.6650 76441.6875
0.0000 0.0190 0.1968 0.0000 0.0260 0.0164
0.8032 0.3661 0.0002 0.0034 33.0000 105.9271
0.6413 1096.0000
964.0 0.4644 0.6362 96.8686 10698.3584 207861.7031
0.0000 0.0182 0.1632 0.0000 0.0224 0.0163
0.8368 0.3785 0.0002 0.0022 33.0000 127.0157
0.6381 1120.0000
963.5 0.3146 0.3981 96.8500 730.3152 61297.9922
0.0000 0.0303 0.1294 0.0066 0.0182 0.0168
0.8640 0.3769 0.0002 0.0021 33.0000 67.1673
0.4485 1112.0000
963.0 0.3005 0.3818 98.9719 215.4738 119839.7188
0.0000 0.0284 0.1103 0.0015 0.0156 0.0193
0.8882 0.3865 0.0002 0.0024 33.0000 45.1973
0.4030 1121.0000
962.5 0.6261 0.6403 98.0833 7098.2397 9999999.9999
0.0000 0.0075 0.1223 0.0000 0.0165 0.0220
0.8777 0.4069 0.0003 0.0040 33.0000 87.1338
0.6953 1151.0000
962.0 0.8776 0.8837 99.0147 81529.2969 9999999.9999
0.0000 0.0004 0.1359 0.0000 0.0182 0.0199
0.8641 0.4100 0.0002 0.0041 33.0000 163.0280
0.9358 1136.0000
961.5 0.8319 0.8561 97.2358 81364.0078 9999999.9999
0.0000 0.0004 0.1341 0.0000 0.0181 0.0164
0.8659 0.4107 0.0002 0.0038 33.0000 169.3652
0.9177 1127.0000
961.0 0.4841 0.5945 97.3213 11098.0615 935588.6875
0.0000 0.0003 0.1219 0.0000 0.0170 0.0144
0.8781 0.4149 0.0002 0.0026 33.0000 143.8440
0.6051 1150.0000
960.5 0.2123 0.3351 96.2650 136.8293 4476.0371
0.0000 0.0037 0.1233 0.0000 0.0169 0.0134
0.8767 0.4107 0.0002 0.0021 33.0000 42.6813
0.3702 1116.0000
960.0 0.1994 0.3220 95.3934 137.5966 4284.7646
0.0000 0.0127 0.1266 0.0000 0.0166 0.0124
0.8734 0.3996 0.0002 0.0015 33.0000 49.5734
0.3440 1169.0000
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0.0910 1485.0000
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0.0000 0.0136 0.2344 0.0000 0.0305 0.4794
0.7656 0.3595 0.0001 0.0030 33.0000 6.6592
0.0753 1394.0000
812.5 0.0098 0.0523 176.6683 0.0042 0.0223
0.0000 0.0139 0.2463 0.0000 0.0318 0.0064
0.7537 0.3554 0.0001 0.0030 33.0000 4.7784
0.0822 1444.0000
812.0 0.0071 0.0464 174.8727 0.0031 0.0057
0.0000 0.0129 0.2474 0.0000 0.0318 0.0065
0.7526 0.3562 0.0001 0.0031 33.0000 4.3814
0.0797 1457.0000
811.5 0.0098 0.0435 172.8616 0.0025 0.0277
0.0000 0.0148 0.2405 0.0000 0.0310 0.0066
0.7595 0.3562 0.0001 0.0032 33.0000 4.3047
0.0761 1448.0000

811.0	0.0071	0.0434	169.2160	0.0022	0.0131	0.0000	0.0108	0.2338	0.0000	0.0302	0.0068
0.7662	0.3632	0.0001	0.0036	33.0000	7.2998	0.0569	1462.0000				
810.5	0.0092	0.0486	168.5666	0.0035	0.0317	0.0000	0.0124	0.2313	0.0000	0.0297	0.0068
0.7687	0.3624	0.0001	0.0040	33.0000	7.1326	0.0645	1454.0000				
810.0	0.0079	0.0516	167.0789	0.0048	0.0132	0.0000	0.0159	0.2294	0.0000	0.0294	0.0067
0.7706	0.3590	0.0001	0.0043	33.0000	7.2196	0.0694	1437.0000				
809.5	0.0045	0.0542	169.7352	0.0046	0.0008	0.0000	0.0297	0.2293	0.0048	0.0295	0.0065
0.7659	0.3429	0.0001	0.0041	33.0000	4.9242	0.0831	1461.0000				
809.0	0.0014	0.0513	170.4335	0.0031	0.0000	0.0000	0.0352	0.2323	0.0198	0.0298	0.0064
0.7480	0.3354	0.0001	0.0040	33.0000	3.3471	0.0909	1475.0000				
808.5	0.0031	0.0505	162.4350	0.0031	0.0001	0.0000	0.0341	0.2341	0.0167	0.0301	1.2775
0.7492	0.3360	0.0001	0.0038	33.0000	3.1982	0.0932	1468.0000				
808.0	0.0042	0.0386	146.4210	0.0012	0.0018	0.0000	0.0222	0.2390	0.0000	0.0306	2.7881
0.7610	0.3484	0.0001	0.0039	33.0000	6.8021	0.0505	1478.0000				
807.5	0.0036	0.0242	124.5739	0.0002	0.0031	0.0000	0.0135	0.2514	0.0000	0.0320	3.3147
0.7486	0.3545	0.0001	0.0040	33.0000	6.7638	0.0304	1475.0000				
807.0	0.0021	0.0087	111.5217	0.0000	0.0003	0.0000	0.0137	0.2614	0.0000	0.0331	2.9953
0.7386	0.3510	0.0001	0.0039	33.0000	4.5526	0.0167	1478.0000				
806.5	0.0034	0.0109	104.9344	0.0000	0.0034	0.0000	0.0187	0.2744	0.0000	0.0345	2.3942
0.7256	0.3410	0.0001	0.0038	33.0000	3.1992	0.0261	1454.0000				
806.0	0.0054	0.0132	103.3742	0.0001	0.0088	0.0000	0.0251	0.2674	0.0000	0.0339	2.5160
0.7326	0.3357	0.0001	0.0035	33.0000	2.5065	0.0419	1471.0000				
805.5	0.0039	0.0174	103.3742	0.0001	0.0026	0.0000	0.0290	0.2599	0.0029	0.0330	3.0120
0.7371	0.3336	0.0001	0.0036	33.0000	3.0056	0.0375	1462.0000				
805.0	0.0061	0.0103	100.4438	0.0001	0.0145	0.0000	0.0345	0.2390	0.0177	0.0308	3.4286
0.7433	0.3339	0.0001	0.0035	33.0000	2.1791	0.0424	1450.0000				
804.5	0.0046	0.0086	99.6107	0.0000	0.0086	0.0000	0.0395	0.2358	0.0311	0.0305	3.4193
0.7330	0.3291	0.0001	0.0034	33.0000	2.6891	0.0310	1461.0000				

804.0 0.0041 0.0108 97.9994 0.0001 0.0028
0.0000 0.0422 0.2496 0.0384 0.0321 2.9135
0.7120 0.3213 0.0001 0.0032 33.0000 2.4192
0.0403 1480.0000
803.5 0.0013 0.0140 100.1478 0.0001 0.0000
0.0000 0.0376 0.2768 0.0261 0.0349 2.2729
0.6971 0.3181 0.0001 0.0034 33.0000 3.6370
0.0322 1469.0000
803.0 0.0027 0.0163 99.3126 0.0001 0.0007
0.0000 0.0319 0.2907 0.0108 0.0363 2.1571
0.6986 0.3206 0.0001 0.0038 33.0000 3.9067
0.0344 1431.0000
802.5 0.0030 0.0161 99.6972 0.0001 0.0008
0.0000 0.0248 0.2849 0.0000 0.0355 2.0567
0.7151 0.3308 0.0001 0.0042 33.0000 2.7720
0.0383 1446.0000
802.0 0.0000 0.0186 100.1909 0.0000 0.0000
0.0000 0.0234 0.2626 0.0000 0.0330 2.0415
0.7374 0.3395 0.0001 0.0044 33.0000 2.8536
0.0343 1450.0000
801.5 0.0000 0.0163 101.7409 0.0001 0.0000
0.0000 0.0217 0.2465 0.0000 0.0315 0.9545
0.7535 0.3465 0.0001 0.0038 33.0000 1.8615
0.0471 1478.0000
801.0 0.0000 0.0204 104.5033 0.0001 0.0000
0.0000 0.0202 0.2379 0.0000 0.0309 0.0067
0.7621 0.3507 0.0001 0.0029 33.0000 2.1199
0.0526 1483.0000
800.5 0.0045 0.0191 105.6681 0.0003 0.0013
0.0000 0.0211 0.2522 0.0000 0.0327 0.0065
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0.0649 1464.0000
800.0 0.0086 0.0264 106.2234 0.0008 0.0256
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0.0000 0.0241 0.3071 0.0000 0.0382 2.1860
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799.0 0.0087 0.0300 99.8182 0.0014 0.0420
0.0000 0.0217 0.3101 0.0000 0.0383 3.7769
0.6899 0.3265 0.0001 0.0036 33.0000 6.7044
0.0531 1467.0000
798.5 0.0068 0.0283 99.6103 0.0010 0.0113
0.0000 0.0228 0.3037 0.0000 0.0377 4.4412
0.6963 0.3270 0.0001 0.0035 33.0000 4.8505
0.0565 1493.0000
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0.7055 0.3305 0.0001 0.0032 33.0000 3.5341
0.0458 1470.0000
797.5 0.0062 0.0072 102.1628 0.0000 0.0324
0.0000 0.0268 0.3060 0.0000 0.0382 1.8123
0.6940 0.3216 0.0001 0.0030 33.0000 3.2154
0.0326 1451.0000

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0.0381 1451.0000
796.5 0.0084 0.0221 101.4775 0.0003 0.0577
0.0000 0.0326 0.3220 0.0127 0.0398 0.4350
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0.0444 1446.0000
796.0 0.0055 0.0307 100.2106 0.0005 0.0039
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0.0000 0.0200 0.2993 0.0000 0.0372 3.3228
0.7007 0.3318 0.0001 0.0036 33.0000 3.1669
0.0729 1439.0000
794.5 0.0054 0.0412 94.8740 0.0019 0.0018
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794.0 0.0077 0.0489 95.4910 0.0040 0.0072
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0.0843 1507.0000
793.5 0.0065 0.0645 95.2764 0.0094 0.0021
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0.1047 1492.0000
793.0 0.0113 0.0744 96.2358 0.0198 0.0147
0.0000 0.0365 0.3035 0.0232 0.0377 6.2540
0.6733 0.3111 0.0001 0.0033 33.0000 4.3582
0.1271 1489.0000
792.5 0.0099 0.0714 100.4867 0.0192 0.0066
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0.1388 1442.0000
792.0 0.0057 0.0561 106.8141 0.0066 0.0011
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0.0000 0.0270 0.2038 0.0000 0.0265 1.0733
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0.0561 1460.0000
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785.5 0.0041 0.0553 163.7105 0.0045 0.0004
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785.0 0.0079 0.0550 164.8675 0.0066 0.0051
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783.5 0.0046 0.0479 164.0370 0.0042 0.0009
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0.0798 1488.0000

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776.5 0.0002 0.0610 171.2617 0.0047 0.0000
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0.7626 0.3615 0.0001 0.0030 33.0000 5.2048
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776.0 0.0000 0.0551 170.5670 0.0023 0.0000
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768.0 0.0037 0.0568 127.4032 0.0058 0.0002
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767.5 0.0037 0.0530 126.1905 0.0038 0.0003
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767.0 0.0051 0.0429 124.8392 0.0016 0.0036
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0.6775 0.3463 0.0001 0.0050 33.0000 6.7062
0.0429 1440.0000
766.0 0.0087 0.0332 123.2587 0.0013 0.0213
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0.6837 0.3503 0.0001 0.0051 33.0000 3.9025
0.0685 1454.0000
765.5 0.0098 0.0390 122.9560 0.0028 0.0223
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765.0 0.0108 0.0485 121.1583 0.0059 0.0221
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0.0918 1428.0000
764.0 0.0101 0.0636 133.3832 0.0121 0.0163
0.0000 0.0128 0.2596 0.0000 0.0330 0.0062
0.7404 0.3526 0.0001 0.0035 33.0000 5.6742
0.0984 1417.0000
763.5 0.0101 0.0638 140.5999 0.0149 0.0234
0.0000 0.0167 0.2295 0.0000 0.0298 1.4484
0.7705 0.3577 0.0001 0.0033 33.0000 8.4252
0.0851 1482.0000
763.0 0.0066 0.0572 147.6339 0.0068 0.0058
0.0000 0.0160 0.2158 0.0000 0.0283 3.3611
0.7842 0.3630 0.0001 0.0032 33.0000 8.3852
0.0701 1493.0000
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0.0000 0.0136 0.2096 0.0000 0.0275 4.0811
0.7904 0.3680 0.0001 0.0033 33.0000 6.9686
0.0659 1504.0000

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0.0000 0.0127 0.2195 0.0000 0.0287 3.9233
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0.0781 1473.0000
761.5 0.0033 0.0500 143.6589 0.0042 0.0001
0.0000 0.0142 0.2343 0.0000 0.0303 2.2973
0.7657 0.3590 0.0001 0.0034 33.0000 3.1179
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0.0000 0.0138 0.2412 0.0000 0.0311 1.6071
0.7588 0.3573 0.0001 0.0033 33.0000 3.5699
0.1062 1484.0000
760.5 0.0057 0.0547 138.8643 0.0065 0.0011
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0.7584 0.3557 0.0001 0.0034 33.0000 3.4475
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760.0 0.0056 0.0489 133.1789 0.0037 0.0014
0.0000 0.0134 0.2418 0.0000 0.0311 2.1223
0.7582 0.3575 0.0001 0.0036 33.0000 3.3731
0.0949 1489.0000
759.5 0.0066 0.0491 130.6041 0.0050 0.0026
0.0000 0.0172 0.2554 0.0000 0.0325 2.7620
0.7446 0.3488 0.0001 0.0038 33.0000 3.7762
0.0969 1484.0000
759.0 0.0082 0.0469 133.4109 0.0043 0.0076
0.0000 0.0225 0.2637 0.0000 0.0334 2.9538
0.7363 0.3400 0.0001 0.0036 33.0000 3.8292
0.0927 1470.0000
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0.0000 0.0268 0.2698 0.0000 0.0342 2.6166
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0.0981 1471.0000
758.0 0.0026 0.0518 142.8453 0.0049 0.0000
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0.0000 0.0301 0.2689 0.0060 0.0343 4.4455
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757.0 0.0103 0.0553 136.9629 0.0065 0.0163
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0.1034 1489.0000

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0.0000 0.0172 0.2700 0.0000 0.0339 1.2750
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0.0000 0.0218 0.2702 0.0000 0.0338 2.7168
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0.0779 1461.0000
751.5 0.0050 0.0498 131.1331 0.0044 0.0011
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0.0850 1459.0000
751.0 0.0035 0.0543 128.2452 0.0045 0.0003
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0.0827 1476.0000
750.5 0.0079 0.0551 123.0161 0.0048 0.0083
0.0000 0.0371 0.2611 0.0249 0.0333 4.0794
0.7140 0.3236 0.0001 0.0033 33.0000 5.0634
0.0827 1492.0000
750.0 0.0085 0.0633 120.3261 0.0103 0.0045
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0.1241 1498.0000
749.5 0.0053 0.0695 121.5992 0.0204 0.0004
0.0000 0.0417 0.2540 0.0371 0.0323 5.8020
0.7088 0.3207 0.0001 0.0039 33.0000 2.7481
0.1611 1503.0000
749.0 0.0042 0.0707 126.8711 0.0238 0.0001
0.0000 0.0359 0.2516 0.0216 0.0319 5.7156
0.7269 0.3283 0.0001 0.0041 33.0000 2.2349
0.1859 1472.0000
748.5 0.0043 0.0665 133.8920 0.0215 0.0001
0.0000 0.0294 0.2441 0.0042 0.0313 5.7374
0.7517 0.3381 0.0001 0.0036 33.0000 2.4457
0.1731 1432.0000

748.0	0.0031	0.0614	140.3321	0.0128	0.0000
0.0000	0.0184	0.2360	0.0000	0.0305	5.0138
0.7640	0.3536	0.0001	0.0033	33.0000	2.4716
0.1514	1480.0000				
747.5	0.0048	0.0641	146.5008	0.0149	0.0003
0.0000	0.0101	0.2261	0.0000	0.0295	4.1784
0.7739	0.3664	0.0001	0.0030	33.0000	2.7783
0.1481	1475.0000				
747.0	0.0058	0.0636	153.3798	0.0139	0.0007
0.0000	0.0004	0.2240	0.0000	0.0292	3.3467
0.7760	0.3785	0.0001	0.0033	33.0000	3.0711
0.1384	1485.0000				
746.5	0.0085	0.0682	159.3468	0.0174	0.0030
0.0000	0.0051	0.2200	0.0000	0.0288	3.3094
0.7800	0.3744	0.0001	0.0032	33.0000	3.0435
0.1473	1465.0000				
746.0	0.0120	0.0664	166.2322	0.0141	0.0227
0.0000	0.0154	0.2196	0.0000	0.0287	3.9648
0.7804	0.3624	0.0001	0.0031	33.0000	4.2717
0.1179	1433.0000				
745.5	0.0082	0.0664	169.3311	0.0116	0.0061
0.0000	0.0230	0.2239	0.0000	0.0293	3.7397
0.7761	0.3521	0.0001	0.0030	33.0000	5.3080
0.1007	1449.0000				
745.0	0.0041	0.0679	167.7300	0.0106	0.0003
0.0000	0.0152	0.2345	0.0000	0.0304	3.1874
0.7655	0.3577	0.0001	0.0033	33.0000	4.6149
0.1055	1484.0000				
744.5	0.0011	0.0639	167.0352	0.0058	0.0000
0.0000	0.0061	0.2438	0.0000	0.0313	1.3836
0.7562	0.3654	0.0001	0.0034	33.0000	3.8849
0.0990	1482.0000				
744.0	0.0070	0.0619	165.0172	0.0103	0.0043
0.0000	0.0049	0.2474	0.0000	0.0318	0.5509
0.7526	0.3656	0.0001	0.0034	33.0000	6.6144
0.0875	1444.0000				
743.5	0.0079	0.0556	168.3447	0.0053	0.0127
0.0000	0.0167	0.2509	0.0000	0.0322	0.0063
0.7491	0.3507	0.0001	0.0032	33.0000	7.4912
0.0696	1440.0000				
743.0	0.0098	0.0410	166.4666	0.0034	0.1307
0.0000	0.0226	0.2676	0.0000	0.0339	0.2060
0.7324	0.3386	0.0001	0.0035	33.0000	15.0254
0.0442	1442.0000				
742.5	0.0105	0.0448	167.3461	0.0048	0.0379
0.0000	0.0196	0.2740	0.0000	0.0344	0.0065
0.7260	0.3402	0.0001	0.0040	33.0000	5.9846
0.0761	1454.0000				
742.0	0.0143	0.0425	162.0135	0.0039	0.0939
0.0000	0.0140	0.2723	0.0000	0.0341	0.0067
0.7277	0.3473	0.0001	0.0042	33.0000	3.6467
0.0928	1454.0000				
741.5	0.0159	0.0613	159.5288	0.0136	0.0651
0.0000	0.0109	0.2464	0.0000	0.0314	0.0297
0.7536	0.3592	0.0001	0.0041	33.0000	3.5097
0.1289	1461.0000				

741.0 0.0202 0.0639 157.2311 0.0154 0.2391
0.0000 0.0177 0.2397 0.0000 0.0308 1.6975
0.7603 0.3533 0.0001 0.0036 33.0000 4.2976
0.1202 1473.0000
740.5 0.0078 0.0610 158.5330 0.0097 0.0042
0.0000 0.0231 0.2456 0.0000 0.0315 2.7866
0.7544 0.3450 0.0001 0.0035 33.0000 4.2266
0.1080 1471.0000
740.0 0.0056 0.0624 159.3943 0.0101 0.0010
0.0000 0.0261 0.2626 0.0000 0.0333 2.5326
0.7374 0.3360 0.0001 0.0036 33.0000 4.2430
0.1087 1485.0000
739.5 0.0065 0.0657 161.7749 0.0127 0.0017
0.0000 0.0267 0.2667 0.0000 0.0336 1.8563
0.7333 0.3341 0.0001 0.0039 33.0000 4.2834
0.1146 1510.0000
739.0 0.0097 0.0661 165.2156 0.0148 0.0090
0.0000 0.0243 0.2543 0.0000 0.0321 1.0531
0.7457 0.3411 0.0001 0.0043 33.0000 4.4350
0.1171 1502.0000
738.5 0.0038 0.0705 163.0596 0.0144 0.0002
0.0000 0.0251 0.2477 0.0000 0.0313 1.8141
0.7523 0.3424 0.0001 0.0046 33.0000 4.2644
0.1187 1450.0000
738.0 0.0029 0.0612 160.2412 0.0090 0.0001
0.0000 0.0236 0.2405 0.0000 0.0305 2.6822
0.7595 0.3464 0.0001 0.0046 33.0000 3.7533
0.1125 1492.0000
737.5 0.0070 0.0577 153.1467 0.0141 0.0021
0.0000 0.0263 0.2387 0.0000 0.0305 3.5008
0.7613 0.3438 0.0001 0.0041 33.0000 4.1943
0.1189 1454.0000
737.0 0.0168 0.0452 146.5513 0.0086 0.1112
0.0000 0.0310 0.2283 0.0083 0.0297 3.8289
0.7634 0.3414 0.0001 0.0033 33.0000 3.4373
0.1162 1450.0000
736.5 0.0163 0.0430 137.7814 0.0081 0.0988
0.0000 0.0324 0.2352 0.0123 0.0306 3.3410
0.7525 0.3373 0.0001 0.0029 33.0000 3.4060
0.1149 1461.0000
736.0 0.0159 0.0383 129.7653 0.0042 0.1040
0.0000 0.0325 0.2578 0.0125 0.0330 2.7336
0.7298 0.3299 0.0001 0.0030 33.0000 2.7821
0.1082 1455.0000
735.5 0.0130 0.0470 124.9285 0.0090 0.0343
0.0000 0.0239 0.2897 0.0000 0.0361 1.6076
0.7103 0.3302 0.0001 0.0039 33.0000 3.5860
0.1150 1450.0000
735.0 0.0127 0.0521 124.6341 0.0089 0.0307
0.0000 0.0200 0.3038 0.0000 0.0375 0.2782
0.6962 0.3306 0.0001 0.0042 33.0000 3.4747
0.1166 1489.0000
734.5 0.0158 0.0503 123.8069 0.0122 0.0914
0.0000 0.0153 0.2975 0.0000 0.0368 0.0067
0.7025 0.3381 0.0001 0.0043 33.0000 4.3792
0.1124 1506.0000

734.0	0.0110	0.0384	123.5766	0.0044	0.0177	0.0000	0.0196	0.2823	0.0000	0.0353	0.0066
0.7177	0.3375	0.0001	0.0039	33.0000	2.6362	0.1122	1507.0000				
733.5	0.0176	0.0519	121.2132	0.0111	0.0921	0.0000	0.0216	0.2818	0.0000	0.0352	0.9208
0.7182	0.3353	0.0001	0.0040	33.0000	2.8832	0.1351	1475.0000				
733.0	0.0192	0.0584	124.7446	0.0137	0.1365	0.0000	0.0240	0.2860	0.0000	0.0356	3.3200
0.7140	0.3313	0.0001	0.0041	33.0000	3.2072	0.1351	1481.0000				
732.5	0.0207	0.0611	128.3810	0.0156	0.2258	0.0000	0.0193	0.2913	0.0000	0.0361	4.0770
0.7087	0.3352	0.0001	0.0043	33.0000	3.7798	0.1286	1489.0000				
732.0	0.0077	0.0519	129.5355	0.0062	0.0031	0.0000	0.0130	0.2912	0.0000	0.0361	2.6726
0.7088	0.3426	0.0001	0.0043	33.0000	2.7221	0.1203	1488.0000				
731.5	0.0075	0.0495	127.5039	0.0060	0.0029	0.0000	0.0088	0.2977	0.0000	0.0368	1.6738
0.7023	0.3455	0.0001	0.0042	33.0000	2.7433	0.1187	1502.0000				
731.0	0.0073	0.0454	125.2055	0.0054	0.0034	0.0000	0.0091	0.3067	0.0000	0.0377	1.4007
0.6933	0.3424	0.0001	0.0042	33.0000	3.3440	0.1046	1503.0000				
730.5	0.0058	0.0414	127.3516	0.0040	0.0013	0.0000	0.0126	0.3068	0.0000	0.0378	2.6353
0.6932	0.3383	0.0001	0.0042	33.0000	2.7824	0.1063	1529.0000				
730.0	0.0078	0.0445	131.0182	0.0067	0.0032	0.0000	0.0110	0.3085	0.0000	0.0378	2.5324
0.6915	0.3398	0.0001	0.0044	33.0000	2.7465	0.1222	1513.0000				
729.5	0.0073	0.0496	136.8320	0.0076	0.0021	0.0000	0.0192	0.2970	0.0000	0.0367	2.5028
0.7030	0.3336	0.0001	0.0043	33.0000	2.6668	0.1279	1505.0000				
729.0	0.0000	0.0492	138.3829	0.0048	0.0000	0.0000	0.0206	0.2949	0.0000	0.0364	2.6900
0.7051	0.3327	0.0001	0.0045	33.0000	2.1847	0.1256	1508.0000				
728.5	0.0103	0.0535	134.8924	0.0094	0.0101	0.0000	0.0296	0.2778	0.0046	0.0347	3.9517
0.7176	0.3274	0.0001	0.0043	33.0000	3.0768	0.1255	1482.0000				
728.0	0.0249	0.0696	130.3156	0.0315	0.7396	0.0000	0.0247	0.2731	0.0000	0.0340	5.0948
0.7269	0.3347	0.0001	0.0047	33.0000	6.5520	0.1164	1494.0000				
727.5	0.0208	0.0614	126.3721	0.0242	0.4837	0.0000	0.0245	0.2688	0.0000	0.0336	4.3484
0.7312	0.3362	0.0001	0.0045	33.0000	7.8792	0.0993	1481.0000				

727.0 0.0092 0.0480 125.2079 0.0064 0.0087
0.0000 0.0204 0.2728 0.0000 0.0341 3.4721
0.7272 0.3397 0.0001 0.0045 33.0000 3.4221
0.1081 1486.0000
726.5 0.0053 0.0420 123.5388 0.0046 0.0007
0.0000 0.0184 0.2813 0.0000 0.0349 2.4814
0.7187 0.3395 0.0001 0.0046 33.0000 2.6468
0.1133 1475.0000
726.0 0.0100 0.0481 122.1768 0.0079 0.0082
0.0000 0.0241 0.2878 0.0000 0.0356 3.2308
0.7122 0.3308 0.0001 0.0046 33.0000 2.6241
0.1303 1493.0000
725.5 0.0056 0.0471 121.0336 0.0064 0.0008
0.0000 0.0259 0.3026 0.0000 0.0372 2.5934
0.6974 0.3242 0.0001 0.0046 33.0000 2.8187
0.1192 1487.0000
725.0 0.0014 0.0487 117.8472 0.0032 0.0000
0.0000 0.0311 0.3054 0.0086 0.0377 1.9176
0.6861 0.3171 0.0001 0.0041 33.0000 2.9055
0.0989 1464.0000
724.5 0.0028 0.0463 116.2900 0.0029 0.0001
0.0000 0.0278 0.3061 0.0000 0.0378 0.4886
0.6939 0.3206 0.0001 0.0038 33.0000 3.6515
0.0857 1493.0000
724.0 0.0057 0.0445 116.0352 0.0027 0.0024
0.0000 0.0253 0.2902 0.0000 0.0363 0.6683
0.7098 0.3283 0.0001 0.0035 33.0000 4.2217
0.0788 1502.0000
723.5 0.0057 0.0399 115.6600 0.0024 0.0027
0.0000 0.0204 0.2793 0.0000 0.0351 0.7861
0.7207 0.3374 0.0001 0.0037 33.0000 4.3988
0.0744 1478.0000
723.0 0.0097 0.0460 116.2486 0.0059 0.0188
0.0000 0.0158 0.2717 0.0000 0.0342 1.0736
0.7283 0.3453 0.0001 0.0040 33.0000 5.0672
0.0871 1446.0000
722.5 0.0170 0.0539 116.7629 0.0190 0.1383
0.0000 0.0147 0.2724 0.0000 0.0342 0.9378
0.7276 0.3464 0.0001 0.0041 33.0000 5.8182
0.1088 1489.0000
722.0 0.0160 0.0465 120.4249 0.0078 0.1493
0.0000 0.0138 0.2685 0.0000 0.0338 1.3278
0.7315 0.3487 0.0001 0.0041 33.0000 4.8663
0.0953 1526.0000
721.5 0.0112 0.0388 126.5154 0.0017 0.0771
0.0000 0.0112 0.2617 0.0000 0.0331 1.2037
0.7383 0.3539 0.0001 0.0041 33.0000 4.7861
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721.0 0.0062 0.0344 132.7271 0.0007 0.0092
0.0000 0.0096 0.2513 0.0000 0.0320 0.9046
0.7487 0.3591 0.0001 0.0039 33.0000 5.1237
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720.5 0.0038 0.0413 135.5405 0.0019 0.0012
0.0000 0.0152 0.2428 0.0000 0.0311 0.3642
0.7572 0.3552 0.0001 0.0037 33.0000 8.6212
0.0500 1493.0000

720.0 0.0044 0.0435 135.3059 0.0034 0.0006
0.0000 0.0276 0.2307 0.0000 0.0299 1.2779
0.7693 0.3446 0.0001 0.0033 33.0000 3.8312
0.0871 1499.0000
719.5 0.0042 0.0439 134.7675 0.0037 0.0004
0.0000 0.0362 0.2156 0.0222 0.0282 2.0010
0.7621 0.3396 0.0001 0.0034 33.0000 2.7939
0.1046 1481.0000
719.0 0.0042 0.0415 134.4860 0.0042 0.0003
0.0000 0.0347 0.2076 0.0183 0.0273 2.6658
0.7741 0.3441 0.0001 0.0034 33.0000 2.2207
0.1206 1464.0000
718.5 0.0029 0.0446 133.0375 0.0040 0.0001
0.0000 0.0308 0.2099 0.0078 0.0274 2.9045
0.7822 0.3480 0.0001 0.0038 33.0000 2.4484
0.1135 1487.0000
718.0 0.0047 0.0431 129.3941 0.0036 0.0005
0.0000 0.0263 0.2317 0.0000 0.0297 2.8286
0.7683 0.3461 0.0001 0.0041 33.0000 2.4356
0.1111 1488.0000
717.5 0.0044 0.0404 127.9202 0.0026 0.0004
0.0000 0.0281 0.2520 0.0007 0.0318 2.7662
0.7474 0.3374 0.0001 0.0044 33.0000 2.4619
0.1021 1510.0000
717.0 0.0057 0.0354 125.2277 0.0026 0.0012
0.0000 0.0251 0.2609 0.0000 0.0328 1.5522
0.7391 0.3380 0.0001 0.0044 33.0000 2.1650
0.1083 1513.0000
716.5 0.0026 0.0372 122.2971 0.0022 0.0000
0.0000 0.0232 0.2584 0.0000 0.0327 0.6943
0.7416 0.3410 0.0001 0.0042 33.0000 2.0483
0.1067 1526.0000
716.0 0.0043 0.0425 121.3642 0.0030 0.0003
0.0000 0.0192 0.2563 0.0000 0.0325 0.0064
0.7437 0.3462 0.0001 0.0041 33.0000 2.1087
0.1143 1516.0000
715.5 0.0065 0.0577 118.9225 0.0064 0.0018
0.0000 0.0157 0.2750 0.0000 0.0343 0.0067
0.7250 0.3446 0.0001 0.0045 33.0000 3.1815
0.1121 1521.0000
715.0 0.0037 0.0536 115.9475 0.0040 0.0002
0.0000 0.0175 0.3039 0.0000 0.0372 0.0068
0.6961 0.3338 0.0001 0.0049 33.0000 3.5979
0.0935 1500.0000
714.5 0.0056 0.0519 112.0088 0.0053 0.0022
0.0000 0.0214 0.3331 0.0000 0.0400 1.1809
0.6669 0.3206 0.0001 0.0054 33.0000 5.8556
0.0789 1487.0000
714.0 0.0017 0.0352 114.0208 0.0010 0.0000
0.0000 0.0282 0.3444 0.0008 0.0411 2.4500
0.6548 0.3094 0.0001 0.0055 33.0000 3.0365
0.0722 1476.0000
713.5 0.0023 0.0347 121.9658 0.0011 0.0000
0.0000 0.0258 0.3391 0.0000 0.0405 3.0706
0.6609 0.3137 0.0001 0.0057 33.0000 2.9046
0.0762 1477.0000

713.0 0.0094 0.0439 130.7004 0.0024 0.0216
0.0000 0.0206 0.3231 0.0000 0.0390 2.2268
0.6769 0.3245 0.0001 0.0053 33.0000 4.0786
0.0779 1532.0000
712.5 0.0000 0.0409 134.6398 0.0012 0.0000
0.0000 0.0143 0.3034 0.0000 0.0371 1.2067
0.6966 0.3375 0.0001 0.0049 33.0000 3.6626
0.0693 1517.0000
712.0 0.0103 0.0534 137.7875 0.0051 0.0608
0.0000 0.0141 0.2906 0.0000 0.0361 0.2554
0.7094 0.3415 0.0001 0.0043 33.0000 9.3042
0.0619 1492.0000
711.5 0.0056 0.0448 139.8810 0.0021 0.0035
0.0000 0.0143 0.2852 0.0000 0.0355 0.0046
0.7148 0.3429 0.0001 0.0041 33.0000 5.6754
0.0638 1495.0000
711.0 0.0127 0.0592 142.0081 0.0139 0.0794
0.0000 0.0182 0.2813 0.0000 0.0350 1.0456
0.7187 0.3397 0.0001 0.0044 33.0000 9.1160
0.0804 1477.0000
710.5 0.0089 0.0450 138.3984 0.0043 0.0187
0.0000 0.0232 0.2755 0.0000 0.0343 2.8778
0.7245 0.3357 0.0001 0.0047 33.0000 5.8714
0.0748 1471.0000
710.0 0.0056 0.0507 134.7629 0.0050 0.0037
0.0000 0.0298 0.2602 0.0051 0.0327 4.2863
0.7348 0.3329 0.0001 0.0045 33.0000 9.1710
0.0622 1505.0000
709.5 0.0064 0.0528 137.0451 0.0059 0.0079
0.0000 0.0314 0.2463 0.0093 0.0314 4.2797
0.7444 0.3353 0.0001 0.0039 33.0000 11.0544
0.0589 1503.0000
709.0 0.0064 0.0569 143.3609 0.0061 0.0070
0.0000 0.0327 0.2343 0.0128 0.0302 3.3536
0.7529 0.3376 0.0001 0.0035 33.0000 10.4592
0.0612 1486.0000
708.5 0.0108 0.0599 147.2208 0.0074 0.0420
0.0000 0.0296 0.2365 0.0046 0.0303 2.1359
0.7589 0.3405 0.0001 0.0039 33.0000 7.3527
0.0764 1477.0000
708.0 0.0061 0.0573 147.8128 0.0060 0.0028
0.0000 0.0327 0.2489 0.0131 0.0316 1.0498
0.7380 0.3329 0.0001 0.0042 33.0000 5.9064
0.0809 1493.0000
707.5 0.0061 0.0553 148.0519 0.0056 0.0021
0.0000 0.0317 0.2590 0.0104 0.0326 0.0060
0.7306 0.3309 0.0001 0.0045 33.0000 4.4260
0.0919 1515.0000
707.0 0.0071 0.0517 148.5820 0.0059 0.0036
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0.7158 0.3247 0.0001 0.0040 33.0000 3.9668
0.0983 1461.0000
706.5 0.0079 0.0491 145.0134 0.0050 0.0058
0.0000 0.0333 0.2476 0.0145 0.0316 0.0060
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0.0974 1493.0000

706.0 0.0092 0.0557 139.1996 0.0069 0.0172
0.0000 0.0318 0.2403 0.0105 0.0309 0.7541
0.7493 0.3366 0.0001 0.0035 33.0000 6.1447
0.0821 1499.0000
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0.0000 0.0265 0.2272 0.0000 0.0295 0.9027
0.7728 0.3471 0.0001 0.0035 33.0000 5.5570
0.0959 1465.0000
705.0 0.0137 0.0622 146.4632 0.0129 0.0534
0.0000 0.0212 0.2326 0.0000 0.0300 0.5942
0.7674 0.3515 0.0001 0.0036 33.0000 5.0324
0.1063 1485.0000
704.5 0.0013 0.0578 155.7733 0.0061 0.0000
0.0000 0.0185 0.2308 0.0000 0.0298 0.0066
0.7692 0.3552 0.0001 0.0036 33.0000 3.8986
0.1002 1475.0000
704.0 0.0107 0.0569 159.4367 0.0069 0.0208
0.0000 0.0184 0.2361 0.0000 0.0303 0.0067
0.7639 0.3537 0.0001 0.0038 33.0000 4.1068
0.1005 1464.0000
703.5 0.0173 0.0600 158.0210 0.0100 0.1912
0.0000 0.0225 0.2247 0.0000 0.0291 0.0066
0.7753 0.3527 0.0001 0.0037 33.0000 5.0291
0.0998 1513.0000
703.0 0.0177 0.0608 159.8045 0.0148 0.1538
0.0000 0.0278 0.2226 0.0000 0.0288 0.0064
0.7774 0.3472 0.0001 0.0039 33.0000 4.7916
0.1127 1503.0000
702.5 0.0171 0.0585 162.5135 0.0142 0.1081
0.0000 0.0364 0.2231 0.0228 0.0289 0.0061
0.7540 0.3370 0.0001 0.0037 33.0000 4.0838
0.1208 1499.0000
702.0 0.0185 0.0589 165.3454 0.0197 0.1575
0.0000 0.0431 0.2334 0.0409 0.0301 0.0059
0.7258 0.3257 0.0001 0.0036 33.0000 4.8599
0.1202 1482.0000
701.5 0.0145 0.0519 166.1702 0.0107 0.0849
0.0000 0.0435 0.2351 0.0420 0.0304 0.2073
0.7229 0.3246 0.0001 0.0033 33.0000 5.2398
0.0993 1527.0000
701.0 0.0109 0.0479 164.8183 0.0064 0.0310
0.0000 0.0382 0.2376 0.0278 0.0307 0.0060
0.7346 0.3299 0.0001 0.0034 33.0000 5.1681
0.0880 1507.0000
700.5 0.0076 0.0485 164.2917 0.0053 0.0056
0.0000 0.0362 0.2364 0.0223 0.0304 0.0061
0.7413 0.3328 0.0001 0.0037 33.0000 4.2254
0.0926 1489.0000
700.0 0.0091 0.0495 161.3960 0.0060 0.0105
0.0000 0.0391 0.2353 0.0301 0.0302 0.0062
0.7347 0.3299 0.0001 0.0040 33.0000 4.0342
0.0980 1476.0000
699.5 0.0088 0.0524 158.8171 0.0079 0.0091
0.0000 0.0382 0.2257 0.0276 0.0291 1.1940
0.7466 0.3342 0.0001 0.0041 33.0000 4.6537
0.0977 1439.0000

699.0	0.0056	0.0601	155.9770	0.0084	0.0012	0.0000	0.0323	0.2198	0.0120	0.0285	1.6961
0.7682	0.3429	0.0001	0.0039	33.0000	4.3984	0.1021	1435.0000				
698.5	0.0031	0.0527	152.8351	0.0075	0.0001	0.0000	0.0234	0.2246	0.0000	0.0289	2.3083
0.7754	0.3517	0.0001	0.0041	33.0000	2.7473	0.1256	1461.0000				
698.0	0.0000	0.0491	149.5579	0.0053	0.0000	0.0000	0.0222	0.2342	0.0000	0.0299	1.8968
0.7658	0.3500	0.0001	0.0043	33.0000	2.2155	0.1280	1482.0000				
697.5	0.0000	0.0492	148.6549	0.0067	0.0000	0.0000	0.0227	0.2369	0.0000	0.0302	2.0561
0.7631	0.3486	0.0001	0.0044	33.0000	2.4426	0.1294	1496.0000				
697.0	0.0061	0.0540	144.7446	0.0052	0.0018	0.0000	0.0258	0.2333	0.0000	0.0299	1.6399
0.7667	0.3460	0.0001	0.0040	33.0000	3.6281	0.0998	1494.0000				
696.5	0.0094	0.0571	143.4031	0.0074	0.0111	0.0000	0.0254	0.2381	0.0000	0.0306	1.7389
0.7619	0.3449	0.0001	0.0038	33.0000	4.1893	0.1015	1468.0000				
696.0	0.0165	0.0572	140.6095	0.0081	0.2462	0.0000	0.0215	0.2488	0.0000	0.0318	1.1690
0.7512	0.3459	0.0001	0.0038	33.0000	6.2336	0.0849	1466.0000				
695.5	0.0104	0.0552	142.9542	0.0073	0.0232	0.0000	0.0170	0.2567	0.0000	0.0324	0.8549
0.7433	0.3488	0.0001	0.0042	33.0000	5.2017	0.0905	1481.0000				
695.0	0.0120	0.0521	143.6352	0.0077	0.0301	0.0000	0.0103	0.2431	0.0000	0.0309	0.2072
0.7569	0.3610	0.0001	0.0044	33.0000	3.9605	0.1054	1526.0000				
694.5	0.0079	0.0472	148.1660	0.0050	0.0048	0.0000	0.0066	0.2378	0.0000	0.0302	0.3159
0.7622	0.3672	0.0001	0.0046	33.0000	3.1850	0.1054	1488.0000				
694.0	0.0091	0.0504	152.6255	0.0053	0.0085	0.0000	0.0082	0.2321	0.0000	0.0298	0.9847
0.7679	0.3670	0.0001	0.0040	33.0000	3.2489	0.1060	1448.0000				
693.5	0.0111	0.0618	156.2702	0.0081	0.0274	0.0000	0.0117	0.2559	0.0000	0.0325	2.7216
0.7441	0.3551	0.0001	0.0038	33.0000	4.9389	0.0955	1433.0000				
693.0	0.0128	0.0649	158.3935	0.0125	0.0506	0.0000	0.0192	0.2608	0.0000	0.0332	4.0877
0.7392	0.3446	0.0001	0.0033	33.0000	5.9559	0.0969	1469.0000				
692.5	0.0107	0.0687	157.3313	0.0154	0.0184	0.0000	0.0198	0.2683	0.0000	0.0340	4.5369
0.7317	0.3415	0.0001	0.0035	33.0000	5.6921	0.1045	1498.0000				

692.0 0.0097 0.0637 154.9622 0.0161 0.0089
0.0000 0.0200 0.2613 0.0000 0.0332 3.7479
0.7387 0.3436 0.0001 0.0036 33.0000 4.5657
0.1179 1500.0000
691.5 0.0072 0.0582 151.6822 0.0078 0.0027
0.0000 0.0124 0.2709 0.0000 0.0340 2.1543
0.7291 0.3496 0.0001 0.0040 33.0000 3.5233
0.1119 1421.0000
691.0 0.0106 0.0543 146.6992 0.0067 0.0170
0.0000 0.0081 0.2895 0.0000 0.0360 1.0652
0.7105 0.3488 0.0001 0.0042 33.0000 3.6162
0.1064 1493.0000
690.5 0.0128 0.0581 146.4586 0.0073 0.0725
0.0000 0.0103 0.3071 0.0000 0.0379 0.0453
0.6929 0.3408 0.0001 0.0040 33.0000 5.9953
0.0844 1491.0000
690.0 0.0136 0.0554 143.6959 0.0078 0.0888
0.0000 0.0200 0.3098 0.0000 0.0382 0.7456
0.6902 0.3286 0.0001 0.0039 33.0000 5.8784
0.0867 1520.0000
689.5 0.0099 0.0582 145.7512 0.0078 0.0175
0.0000 0.0240 0.2990 0.0000 0.0370 1.4862
0.7010 0.3273 0.0001 0.0040 33.0000 5.1819
0.0924 1467.0000
689.0 0.0102 0.0513 143.8942 0.0050 0.0284
0.0000 0.0275 0.2885 0.0000 0.0358 2.9736
0.7115 0.3265 0.0001 0.0043 33.0000 5.4763
0.0803 1492.0000
688.5 0.0088 0.0522 141.3153 0.0049 0.0127
0.0000 0.0261 0.2841 0.0000 0.0352 2.9957
0.7159 0.3297 0.0001 0.0046 33.0000 4.8288
0.0850 1499.0000
688.0 0.0062 0.0415 138.5521 0.0017 0.0055
0.0000 0.0281 0.2856 0.0007 0.0353 3.4006
0.7137 0.3269 0.0001 0.0048 33.0000 5.0944
0.0636 1451.0000
687.5 0.0136 0.0486 134.8309 0.0078 0.1191
0.0000 0.0203 0.2881 0.0000 0.0355 3.4751
0.7119 0.3353 0.0001 0.0051 33.0000 7.1366
0.0786 1487.0000
687.0 0.0132 0.0508 129.3387 0.0080 0.0975
0.0000 0.0131 0.2888 0.0000 0.0355 3.8319
0.7112 0.3436 0.0001 0.0053 33.0000 7.0404
0.0796 1483.0000
686.5 0.0113 0.0512 125.6675 0.0073 0.0326
0.0000 0.0127 0.2908 0.0000 0.0357 2.2959
0.7092 0.3434 0.0001 0.0052 33.0000 5.0265
0.0921 1461.0000
686.0 0.0081 0.0481 126.6769 0.0042 0.0069
0.0000 0.0201 0.2878 0.0000 0.0356 0.1905
0.7122 0.3355 0.0001 0.0048 33.0000 3.5762
0.0952 1491.0000
685.5 0.0073 0.0527 129.7448 0.0059 0.0031
0.0000 0.0303 0.2896 0.0066 0.0359 0.0062
0.7038 0.3229 0.0001 0.0043 33.0000 3.1877
0.1096 1475.0000

685.0 0.0053 0.0590 130.6326 0.0067 0.0007
0.0000 0.0292 0.2882 0.0035 0.0358 0.0061
0.7082 0.3246 0.0001 0.0043 33.0000 3.2573
0.1121 1454.0000
684.5 0.0029 0.0540 129.3422 0.0067 0.0001
0.0000 0.0236 0.3021 0.0000 0.0371 0.4183
0.6979 0.3271 0.0001 0.0048 33.0000 2.8753
0.1191 1491.0000
684.0 0.0053 0.0505 127.0881 0.0078 0.0007
0.0000 0.0130 0.3143 0.0000 0.0381 1.5969
0.6857 0.3359 0.0001 0.0052 33.0000 3.0519
0.1202 1492.0000
683.5 0.0053 0.0418 126.5931 0.0056 0.0005
0.0000 0.0127 0.3192 0.0000 0.0387 3.7309
0.6808 0.3347 0.0001 0.0051 33.0000 2.1987
0.1306 1480.0000
683.0 0.0000 0.0432 125.5660 0.0038 0.0000
0.0000 0.0207 0.3073 0.0000 0.0377 5.4037
0.6927 0.3287 0.0001 0.0046 33.0000 1.8659
0.1285 1466.0000
682.5 0.0000 0.0410 129.8622 0.0046 0.0000
0.0000 0.0335 0.2887 0.0151 0.0360 5.9462
0.6963 0.3193 0.0001 0.0039 33.0000 1.6853
0.1422 1461.0000
682.0 0.0000 0.0411 129.9581 0.0055 0.0000
0.0000 0.0406 0.2922 0.0341 0.0364 4.9539
0.6737 0.3100 0.0001 0.0038 33.0000 1.6117
0.1520 1464.0000
681.5 0.0101 0.0334 140.1096 0.0094 0.0044
0.0000 0.0414 0.2943 0.0364 0.0366 3.6641
0.6693 0.3083 0.0001 0.0038 33.0000 1.6231
0.1728 1465.0000
681.0 0.0156 0.0415 151.1690 0.0083 0.0459
0.0000 0.0373 0.2926 0.0254 0.0365 2.8290
0.6820 0.3136 0.0001 0.0038 33.0000 2.1996
0.1439 1440.0000
680.5 0.0226 0.0558 163.9727 0.0116 0.4169
0.0000 0.0346 0.2723 0.0180 0.0344 2.7003
0.7097 0.3230 0.0001 0.0034 33.0000 3.7356
0.1199 1499.0000
680.0 0.0167 0.0659 167.4582 0.0221 0.1677
0.0000 0.0317 0.2561 0.0102 0.0327 3.1135
0.7337 0.3315 0.0001 0.0033 33.0000 7.6013
0.0989 1462.0000
679.5 0.0107 0.0675 169.9637 0.0182 0.0126
0.0000 0.0361 0.2440 0.0222 0.0315 3.0283
0.7338 0.3302 0.0001 0.0031 33.0000 4.5480
0.1219 1510.0000
679.0 0.0083 0.0664 171.5548 0.0178 0.0041
0.0000 0.0360 0.2319 0.0218 0.0303 2.2798
0.7463 0.3342 0.0001 0.0028 33.0000 4.3511
0.1239 1454.0000
678.5 0.0109 0.0699 172.6097 0.0187 0.0123
0.0000 0.0372 0.2198 0.0252 0.0291 0.6298
0.7550 0.3366 0.0001 0.0023 33.0000 4.1472
0.1284 1482.0000

678.0 0.0061 0.0746 173.3376 0.0193 0.0013
0.0000 0.0310 0.2127 0.0083 0.0283 0.0062
0.7790 0.3462 0.0001 0.0022 33.0000 5.3081
0.1144 1475.0000
677.5 0.0066 0.0742 173.2882 0.0146 0.0022
0.0000 0.0279 0.2132 0.0000 0.0283 0.0061
0.7868 0.3498 0.0001 0.0024 33.0000 5.5389
0.1045 1502.0000
677.0 0.0163 0.0765 173.1382 0.0271 0.1480
0.0000 0.0272 0.2186 0.0000 0.0287 0.5850
0.7814 0.3489 0.0001 0.0030 33.0000 8.4652
0.0986 1465.0000
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0.0000 0.0303 0.2170 0.0066 0.0284 2.0047
0.7764 0.3459 0.0001 0.0032 33.0000 5.3104
0.1254 1471.0000
676.0 0.0154 0.0800 170.2555 0.0364 0.0521
0.0000 0.0293 0.2123 0.0039 0.0279 3.1705
0.7838 0.3486 0.0001 0.0031 33.0000 5.4307
0.1326 1504.0000
675.5 0.0133 0.0749 166.6102 0.0205 0.0273
0.0000 0.0258 0.2047 0.0000 0.0271 4.2370
0.7953 0.3552 0.0001 0.0029 33.0000 4.0863
0.1324 1480.0000
675.0 0.0121 0.0790 157.0383 0.0278 0.0215
0.0000 0.0205 0.2116 0.0000 0.0278 3.8215
0.7884 0.3592 0.0001 0.0031 33.0000 5.5556
0.1225 1472.0000
674.5 0.0073 0.0742 140.9765 0.0230 0.0021
0.0000 0.0231 0.2433 0.0000 0.0310 2.9005
0.7567 0.3459 0.0001 0.0040 33.0000 4.4835
0.1301 1482.0000
674.0 0.0055 0.0761 117.9046 0.0268 0.0005
0.0000 0.0194 0.3160 0.0000 0.0382 1.5133
0.6840 0.3281 0.0001 0.0056 33.0000 3.8540
0.1457 1478.0000
673.5 0.0100 0.0884 93.0585 0.0535 0.0041
0.0000 0.0237 0.4236 0.0000 0.0480 1.4662
0.5764 0.2929 0.0001 0.0073 33.0000 3.7500
0.1757 1459.0000
673.0 0.0245 0.0912 74.6782 0.1230 0.2409
0.0000 0.0229 0.5463 0.0000 0.0581 1.7317
0.4537 0.2625 0.0001 0.0089 33.0000 6.2532
0.1674 1461.0000
672.5 0.0219 0.0857 67.2343 0.0601 0.1427
0.0000 0.0289 0.5584 0.0029 0.0671 3.5988
0.4387 0.2451 0.0001 0.0102 33.0000 4.3133
0.1686 1466.0000
672.0 0.0201 0.0715 67.6447 0.0338 0.1296
0.0000 0.0213 0.5622 0.0000 0.0738 4.2204
0.4378 0.2470 0.0001 0.0112 33.0000 4.1286
0.1492 1518.0000
671.5 0.0130 0.0573 69.7621 0.0084 0.0311
0.0000 0.0158 0.5604 0.0000 0.0786 4.3507
0.4396 0.2494 0.0001 0.0120 33.0000 3.1302
0.1210 1520.0000

671.0 0.0124 0.0412 68.6437 0.0038 0.0570
0.0000 0.0125 0.5575 0.0000 0.0843 2.7237
0.4425 0.2484 0.0001 0.0127 33.0000 4.0685
0.0869 1508.0000
670.5 0.0110 0.0271 66.5010 0.0013 0.0499
0.0000 0.0216 0.5535 0.0000 0.0868 2.9812
0.4465 0.2361 0.0001 0.0129 33.0000 3.3370
0.0740 1482.0000
670.0 0.0121 0.0298 64.3371 0.0018 0.0785
0.0000 0.0292 0.5564 0.0036 0.0847 3.1082
0.4400 0.2287 0.0001 0.0124 33.0000 3.7875
0.0745 1461.0000
669.5 0.0158 0.0338 65.5355 0.0058 0.2663
0.0000 0.0367 0.5622 0.0236 0.0791 3.5405
0.4141 0.2243 0.0001 0.0114 33.0000 6.5098
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669.0 0.0133 0.0361 65.7727 0.0052 0.1405
0.0000 0.0379 0.5667 0.0268 0.0737 3.3973
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0.0715 1489.0000
668.5 0.0124 0.0343 67.2582 0.0038 0.0788
0.0000 0.0376 0.5688 0.0260 0.0728 4.2875
0.4052 0.2279 0.0001 0.0102 33.0000 5.1399
0.0774 1475.0000
668.0 0.0176 0.0360 67.0289 0.0052 1.0811
0.0000 0.0365 0.5672 0.0233 0.0753 5.5839
0.4095 0.2271 0.0001 0.0107 33.0000 10.1021
0.0598 1460.0000
667.5 0.0299 0.0447 65.4699 0.0856 25.3134
0.0000 0.0355 0.5650 0.0205 0.0796 6.0938
0.4145 0.2247 0.0001 0.0113 33.0000 36.3527
0.0634 1517.0000
667.0 0.0388 0.0537 64.6723 0.5844 293.6283
0.0000 0.0391 0.5595 0.0302 0.0813 5.4382
0.4103 0.2198 0.0001 0.0117 33.0000 98.8506
0.0622 1505.0000
666.5 0.0376 0.0575 62.6188 0.1836 26.8806
0.0000 0.0441 0.5593 0.0437 0.0797 4.5650
0.3970 0.2155 0.0001 0.0115 33.0000 29.0183
0.0859 1472.0000
666.0 0.0463 0.0664 63.1381 0.2733 59.5878
0.0000 0.0458 0.5562 0.0481 0.0790 3.6920
0.3957 0.2147 0.0001 0.0116 33.0000 26.8403
0.0987 1500.0000
665.5 0.0552 0.0745 63.6757 0.5635 144.1277
0.0000 0.0469 0.5548 0.0512 0.0803 3.9288
0.3940 0.2123 0.0001 0.0118 33.0000 32.5200
0.1074 1525.0000
665.0 0.0675 0.0832 65.4188 1.8581 350.1141
0.0000 0.0417 0.5495 0.0371 0.0841 3.7204
0.4135 0.2159 0.0001 0.0125 33.0000 45.8268
0.1220 1471.0000
664.5 0.0635 0.0759 67.5263 1.5053 318.8765
0.0000 0.0429 0.5463 0.0404 0.0850 4.3690
0.4134 0.2142 0.0001 0.0128 33.0000 46.8587
0.1144 1451.0000

664.0	0.0515	0.0672	67.4054	0.5752	94.0122
0.0000	0.0375	0.5476	0.0258	0.0848	3.6183
0.4266	0.2205	0.0001	0.0128	33.0000	34.3510
0.1051	1486.0000				
663.5	0.0331	0.0497	65.9563	0.0618	29.2484
0.0000	0.0349	0.5509	0.0189	0.0838	3.6509
0.4301	0.2238	0.0001	0.0126	33.0000	24.6806
0.0710	1475.0000				
663.0	0.0304	0.0470	65.8270	0.0987	102.9358
0.0000	0.0310	0.5534	0.0085	0.0840	2.8494
0.4381	0.2277	0.0001	0.0125	33.0000	57.7405
0.0522	1472.0000				
662.5	0.0363	0.0511	65.3030	0.2669	298.1124
0.0000	0.0312	0.5548	0.0088	0.0845	3.0165
0.4364	0.2269	0.0001	0.0124	33.0000	79.0829
0.0572	1460.0000				
662.0	0.0382	0.0535	66.1919	0.6145	419.9378
0.0000	0.0277	0.5576	0.0000	0.0854	2.3010
0.4424	0.2297	0.0001	0.0124	33.0000	123.9921
0.0562	1465.0000				
661.5	0.0410	0.0613	63.1044	0.3467	75.7165
0.0000	0.0263	0.5670	0.0000	0.0840	2.9291
0.4330	0.2310	0.0001	0.0117	33.0000	45.4224
0.0805	1494.0000				
661.0	0.0395	0.0648	61.8597	0.2063	19.5245
0.0000	0.0198	0.5638	0.0000	0.0854	4.5267
0.4362	0.2378	0.0001	0.0121	33.0000	23.4734
0.0984	1495.0000				
660.5	0.0536	0.0778	61.2685	0.8470	77.9817
0.0000	0.0184	0.5590	0.0000	0.0858	7.1469
0.4410	0.2398	0.0001	0.0125	33.0000	35.0221
0.1146	1493.0000				
660.0	0.0674	0.0916	62.8631	2.5820	246.0858
0.0000	0.0138	0.5478	0.0000	0.0885	9.2027
0.4522	0.2446	0.0001	0.0136	33.0000	48.7211
0.1284	1505.0000				
659.5	0.0862	0.1075	62.6515	13.0537	1241.6023
0.0000	0.0174	0.5491	0.0000	0.0862	9.2203
0.4509	0.2424	0.0001	0.0133	33.0000	91.3891
0.1406	1484.0000				
659.0	0.0746	0.1013	63.2030	2.8062	188.7773
0.0000	0.0229	0.5556	0.0000	0.0827	7.7873
0.4444	0.2381	0.0001	0.0125	33.0000	35.5345
0.1535	1485.0000				
658.5	0.0564	0.0877	63.7572	0.5523	33.1111
0.0000	0.0268	0.5614	0.0000	0.0795	5.8125
0.4386	0.2354	0.0001	0.0118	33.0000	17.3365
0.1464	1500.0000				
658.0	0.0327	0.0688	64.4664	0.0793	2.5210
0.0000	0.0300	0.5663	0.0057	0.0787	4.3171
0.4280	0.2317	0.0001	0.0112	33.0000	9.1287
0.1242	1520.0000				
657.5	0.0280	0.0618	65.9026	0.0425	0.8995
0.0000	0.0237	0.5635	0.0000	0.0830	3.3559
0.4365	0.2356	0.0001	0.0119	33.0000	5.8794
0.1324	1488.0000				

657.0 0.0203 0.0516 64.8809 0.0201 0.4024
0.0000 0.0185 0.5549 0.0000 0.0884 3.3502
0.4451 0.2380 0.0001 0.0129 33.0000 6.8943
0.1014 1502.0000
656.5 0.0166 0.0361 66.1937 0.0048 0.4646
0.0000 0.0139 0.5484 0.0000 0.0929 4.2185
0.4516 0.2402 0.0001 0.0136 33.0000 7.2284
0.0694 1484.0000
656.0 0.0141 0.0265 64.3969 0.0022 0.5413
0.0000 0.0270 0.5485 0.0000 0.0922 5.3609
0.4515 0.2256 0.0001 0.0132 33.0000 8.8997
0.0514 1491.0000
655.5 0.0180 0.0251 65.7333 0.0070 2.4779
0.0000 0.0324 0.5519 0.0122 0.0924 5.2166
0.4359 0.2185 0.0001 0.0128 33.0000 16.7533
0.0499 1480.0000
655.0 0.0107 0.0245 66.0482 0.0018 0.2792
0.0000 0.0221 0.5467 0.0000 0.0951 3.7023
0.4533 0.2290 0.0001 0.0134 33.0000 12.9805
0.0402 1469.0000
654.5 0.0043 0.0202 68.7952 0.0002 0.0043
0.0000 0.0002 0.5434 0.0000 0.0985 2.2936
0.4566 0.2519 0.0001 0.0142 33.0000 5.2466
0.0357 1449.0000
654.0 0.0011 0.0241 68.4589 0.0002 0.0000
0.0000 0.0002 0.5447 0.0000 0.0940 0.0095
0.4553 0.2559 0.0001 0.0142 33.0000 4.2507
0.0392 1435.0000
653.5 0.0141 0.0273 67.2128 0.0041 0.5762
0.0000 0.0002 0.5390 0.0000 0.0955 0.0098
0.4610 0.2555 0.0001 0.0146 33.0000 12.6066
0.0502 1449.0000
653.0 0.0192 0.0217 65.6660 0.0047 1.8813
0.0000 0.0002 0.5366 0.0000 0.0933 0.0099
0.4634 0.2579 0.0001 0.0148 33.0000 9.7820
0.0591 1515.0000
652.5 0.0203 0.0227 66.7531 0.0052 1.5979
0.0000 0.0117 0.5413 0.0000 0.0876 0.0095
0.4587 0.2490 0.0001 0.0141 33.0000 7.9740
0.0672 1522.0000
652.0 0.0129 0.0166 69.3310 0.0012 0.4712
0.0000 0.0161 0.5459 0.0000 0.0829 0.8247
0.4541 0.2475 0.0001 0.0134 33.0000 7.9970
0.0464 1510.0000
651.5 0.0075 0.0246 69.4500 0.0009 0.0216
0.0000 0.0218 0.5424 0.0000 0.0833 1.3498
0.4576 0.2410 0.0001 0.0135 33.0000 5.7092
0.0516 1493.0000
651.0 0.0061 0.0281 68.7281 0.0012 0.0039
0.0000 0.0262 0.5463 0.0000 0.0827 0.0091
0.4537 0.2358 0.0001 0.0131 33.0000 3.4616
0.0709 1497.0000
650.5 0.0082 0.0300 67.5092 0.0016 0.0097
0.0000 0.0231 0.5485 0.0000 0.0801 0.0091
0.4515 0.2414 0.0001 0.0128 33.0000 2.8389
0.0838 1487.0000

650.0 0.0128 0.0213 67.7254 0.0014 0.0978
0.0000 0.0328 0.5591 0.0131 0.0744 0.0084
0.4278 0.2337 0.0001 0.0112 33.0000 3.2895
0.0757 1476.0000
649.5 0.0110 0.0169 68.0560 0.0004 0.1485
0.0000 0.0347 0.5580 0.0183 0.0743 0.0083
0.4237 0.2317 0.0009 0.0112 33.0000 3.9007
0.0507 1482.0000
649.0 0.0167 0.0196 70.3359 0.0020 2.4168
0.0000 0.0410 0.5548 0.0352 0.0782 0.0083
0.4100 0.2213 0.0024 0.0116 33.0000 10.9788
0.0451 1503.0000
648.5 0.0157 0.0233 71.0392 0.0038 1.0107
0.0000 0.0319 0.5456 0.0109 0.0853 0.6572
0.4435 0.2268 0.0001 0.0131 33.0000 11.7945
0.0513 1466.0000
648.0 0.0217 0.0266 70.6862 0.0146 5.3148
0.0000 0.0229 0.5419 0.0000 0.0880 2.2752
0.4581 0.2355 0.0001 0.0137 33.0000 19.6421
0.0554 1475.0000
647.5 0.0230 0.0343 69.3622 0.0917 29.0598
0.0000 0.0308 0.5581 0.0079 0.0818 2.2368
0.4340 0.2292 0.0001 0.0121 33.0000 78.8142
0.0438 1482.0000
647.0 0.0161 0.0290 69.9817 0.0405 4.8573
0.0000 0.0402 0.5671 0.0331 0.0768 1.3671
0.3997 0.2214 0.0001 0.0107 33.0000 86.3435
0.0341 1455.0000
646.5 0.0150 0.0276 70.0241 0.0328 2.9535
0.0000 0.0467 0.5751 0.0506 0.0755 1.5882
0.3743 0.2137 0.0001 0.0099 33.0000 97.3540
0.0305 1470.0000
646.0 0.0088 0.0199 71.3759 0.0017 0.2479
0.0000 0.0388 0.5697 0.0293 0.0795 1.8951
0.4010 0.2202 0.0001 0.0108 33.0000 30.6815
0.0260 1507.0000
645.5 0.0093 0.0235 71.3946 0.0035 0.3766
0.0000 0.0361 0.5635 0.0222 0.0811 3.4935
0.4143 0.2228 0.0001 0.0115 33.0000 33.0917
0.0300 1480.0000
645.0 0.0094 0.0290 72.7615 0.0095 0.4165
0.0000 0.0372 0.5535 0.0251 0.0796 4.7257
0.4213 0.2245 0.0001 0.0120 33.0000 55.2967
0.0297 1433.0000
644.5 0.0150 0.0382 72.4728 0.0312 1.4456
0.0000 0.0351 0.5535 0.0195 0.0774 5.6459
0.4270 0.2290 0.0001 0.0119 33.0000 46.3686
0.0436 1485.0000
644.0 0.0095 0.0351 73.2628 0.0057 0.2021
0.0000 0.0309 0.5545 0.0082 0.0772 5.8892
0.4374 0.2340 0.0001 0.0119 33.0000 28.5335
0.0364 1496.0000
643.5 0.0164 0.0375 73.1557 0.0174 1.3571
0.0000 0.0376 0.5574 0.0261 0.0774 4.9741
0.4165 0.2255 0.0001 0.0116 33.0000 25.9339
0.0504 1494.0000

643.0 0.0097 0.0324 70.6318 0.0008 0.1207
0.0000 0.0528 0.5526 0.0669 0.0768 4.6881
0.3805 0.2093 0.0001 0.0114 33.0000 7.1043
0.0447 1494.0000
642.5 0.0000 0.0345 70.3704 0.0007 0.0000
0.0000 0.0591 0.5504 0.0839 0.0748 3.2929
0.3658 0.2040 0.0001 0.0112 33.0000 4.9269
0.0522 1467.0000
642.0 0.0000 0.0462 71.7787 0.0014 0.0000
0.0000 0.0462 0.5480 0.0493 0.0759 2.7911
0.4027 0.2185 0.0001 0.0118 33.0000 3.7628
0.0704 1449.0000
641.5 0.0030 0.0414 71.5636 0.0018 0.0002
0.0000 0.0326 0.5519 0.0127 0.0775 1.5258
0.4353 0.2322 0.0001 0.0121 33.0000 4.1718
0.0710 1481.0000
641.0 0.0141 0.0495 71.6176 0.0053 0.0844
0.0000 0.0275 0.5507 0.0000 0.0808 1.0493
0.4493 0.2353 0.0001 0.0126 33.0000 4.0900
0.0944 1510.0000
640.5 0.0104 0.0529 69.2826 0.0046 0.0300
0.0000 0.0385 0.5494 0.0285 0.0822 1.2102
0.4221 0.2214 0.0001 0.0125 33.0000 4.9997
0.0825 1454.0000
640.0 0.0094 0.0480 70.9420 0.0038 0.0160
0.0000 0.0398 0.5452 0.0321 0.0841 2.2237
0.4228 0.2188 0.0001 0.0129 33.0000 4.0378
0.0875 1449.0000
639.5 0.0048 0.0389 71.4315 0.0010 0.0024
0.0000 0.0344 0.5395 0.0175 0.0860 4.7310
0.4429 0.2243 0.0001 0.0135 33.0000 4.9452
0.0567 1503.0000
639.0 0.0068 0.0298 72.8849 0.0010 0.0308
0.0000 0.0191 0.5357 0.0000 0.0868 5.8389
0.4643 0.2421 0.0001 0.0143 33.0000 10.0836
0.0391 1507.0000
638.5 0.0062 0.0245 72.0950 0.0004 0.0183
0.0000 0.0153 0.5368 0.0000 0.0865 4.6846
0.4632 0.2466 0.0001 0.0143 33.0000 6.0203
0.0397 1496.0000
638.0 0.0167 0.0318 71.4502 0.0118 3.1758
0.0000 0.0274 0.5489 0.0000 0.0818 1.7399
0.4511 0.2348 0.0001 0.0128 33.0000 30.1159
0.0424 1461.0000
637.5 0.0260 0.0285 71.9066 0.0283 40.3871
0.0000 0.0346 0.5575 0.0180 0.0809 0.0080
0.4245 0.2258 0.0001 0.0119 33.0000 35.2454
0.0488 1444.0000
637.0 0.0345 0.0464 72.4948 1.6971 226.7267
0.0000 0.0398 0.5634 0.0321 0.0776 0.0075
0.4045 0.2218 0.0001 0.0111 33.0000 254.6026
0.0506 1482.0000
636.5 0.0318 0.0481 70.6613 0.7394 117.0077
0.0000 0.0312 0.5600 0.0089 0.0794 0.0079
0.4311 0.2307 0.0001 0.0117 33.0000 145.3587
0.0544 1454.0000

636.0 0.0304 0.0470 68.9512 0.0705 13.3570
0.0000 0.0351 0.5526 0.0195 0.0763 0.8383
0.4279 0.2302 0.0001 0.0118 33.0000 24.6193
0.0734 1464.0000
635.5 0.0433 0.0565 69.3783 0.1707 75.6370
0.0000 0.0352 0.5443 0.0197 0.0789 3.3112
0.4360 0.2292 0.0001 0.0127 33.0000 27.5763
0.0866 1449.0000
635.0 0.0415 0.0644 69.0399 0.1203 25.2374
0.0000 0.0363 0.5435 0.0227 0.0799 4.4493
0.4338 0.2271 0.0001 0.0128 33.0000 17.3618
0.0999 1489.0000
634.5 0.0383 0.0762 68.2668 0.2435 14.9608
0.0000 0.0213 0.5430 0.0000 0.0865 4.1489
0.4570 0.2385 0.0001 0.0136 33.0000 24.6995
0.0999 1489.0000
634.0 0.0301 0.0765 67.5974 0.0849 2.5738
0.0000 0.0065 0.5467 0.0000 0.0869 2.4917
0.4533 0.2547 0.0001 0.0138 33.0000 12.4799
0.1080 1458.0000
633.5 0.0260 0.0823 67.9442 0.1171 1.4778
0.0000 0.0002 0.5451 0.0000 0.0841 2.4804
0.4549 0.2651 0.0001 0.0140 33.0000 16.7015
0.1012 1437.0000
633.0 0.0252 0.0864 68.3699 0.1091 1.1488
0.0000 0.0025 0.5461 0.0000 0.0806 4.2926
0.4539 0.2654 0.0001 0.0136 33.0000 15.3852
0.1036 1460.0000
632.5 0.0225 0.0776 67.9096 0.0878 0.9213
0.0000 0.0138 0.5446 0.0000 0.0793 6.9001
0.4554 0.2537 0.0001 0.0133 33.0000 17.3191
0.0925 1477.0000
632.0 0.0257 0.0620 67.0164 0.0611 3.2908
0.0000 0.0409 0.5472 0.0349 0.0763 8.4346
0.4179 0.2245 0.0001 0.0121 33.0000 19.6001
0.0794 1513.0000
631.5 0.0223 0.0446 68.0886 0.0189 1.9961
0.0000 0.0447 0.5475 0.0453 0.0775 7.7917
0.4072 0.2188 0.0001 0.0121 33.0000 12.9116
0.0730 1478.0000
631.0 0.0270 0.0482 67.7534 0.0345 5.7815
0.0000 0.0412 0.5435 0.0360 0.0806 5.8185
0.4206 0.2207 0.0001 0.0128 33.0000 16.7735
0.0744 1455.0000
630.5 0.0273 0.0522 69.9133 0.0717 15.2281
0.0000 0.0180 0.5405 0.0000 0.0860 3.0631
0.4595 0.2433 0.0001 0.0139 33.0000 35.4069
0.0615 1483.0000
630.0 0.0442 0.0617 68.0306 0.4434 229.7422
0.0000 0.0125 0.5379 0.0000 0.0872 2.4314
0.4621 0.2490 0.0001 0.0143 33.0000 58.5108
0.0754 1444.0000
629.5 0.0482 0.0629 66.1387 0.7636 482.0965
0.0000 0.0112 0.5488 0.0000 0.0840 2.5973
0.4512 0.2516 0.0001 0.0134 33.0000 74.3722
0.0766 1476.0000

629.0	0.0624	0.0772	66.0797	2.2677	821.3614	0.0000	0.0141	0.5560	0.0000	0.0823	2.3854
0.4440	0.2486	0.0001	0.0127	33.0000	76.6378	0.0991	1478.0000				
628.5	0.0805	0.1065	67.1383	16.2071	3257.5500	0.0000	0.0139	0.5653	0.0000	0.0826	1.4841
0.4347	0.2471	0.0001	0.0120	33.0000	147.0719	0.1170	1478.0000				
628.0	0.0894	0.1056	69.8180	15.0666	5280.7505	0.0000	0.0199	0.5655	0.0000	0.0846	0.6177
0.4345	0.2381	0.0001	0.0120	33.0000	120.9079	0.1267	1486.0000				
627.5	0.0782	0.1037	67.3644	6.2760	810.6932	0.0000	0.0287	0.5578	0.0022	0.0869	1.9936
0.4400	0.2270	0.0001	0.0124	33.0000	72.6246	0.1313	1488.0000				
627.0	0.0584	0.0837	67.1991	0.5834	61.4638	0.0000	0.0240	0.5477	0.0000	0.0899	2.5908
0.4523	0.2314	0.0001	0.0133	33.0000	20.9274	0.1351	1499.0000				
626.5	0.0715	0.1104	64.5209	2.6347	108.8884	0.0000	0.0182	0.5476	0.0000	0.0910	3.8817
0.4524	0.2372	0.0001	0.0135	33.0000	31.6522	0.1601	1492.0000				
626.0	0.0904	0.1245	66.3459	6.4121	341.7975	0.0000	0.0174	0.5576	0.0000	0.0883	3.8978
0.4424	0.2389	0.0001	0.0127	33.0000	39.3018	0.1795	1493.0000				
625.5	0.0826	0.1308	64.2443	3.9480	73.5523	0.0000	0.0332	0.5653	0.0142	0.0837	4.6512
0.4205	0.2235	0.0001	0.0116	33.0000	21.9993	0.2125	1475.0000				
625.0	0.0786	0.1392	65.5729	2.3498	20.3040	0.0000	0.0503	0.5610	0.0603	0.0801	5.4644
0.3787	0.2075	0.0001	0.0112	33.0000	10.4024	0.2714	1497.0000				
624.5	0.0734	0.1389	63.7668	1.5451	11.0186	0.0000	0.0554	0.5521	0.0741	0.0793	6.2477
0.3738	0.2039	0.0001	0.0116	33.0000	7.3685	0.2904	1494.0000				
624.0	0.0690	0.1271	65.5873	1.1429	19.8922	0.0000	0.0483	0.5486	0.0550	0.0809	6.8619
0.3964	0.2112	0.0001	0.0122	33.0000	10.6938	0.2236	1440.0000				
623.5	0.0395	0.0808	66.6704	0.1449	6.9424	0.0000	0.0280	0.5484	0.0004	0.0853	5.8763
0.4513	0.2310	0.0001	0.0130	33.0000	12.0026	0.1259	1461.0000				
623.0	0.0125	0.0422	69.2568	0.0071	0.3592	0.0000	0.0114	0.5509	0.0000	0.0897	3.2130
0.4491	0.2459	0.0001	0.0134	33.0000	18.6500	0.0475	1458.0000				
622.5	0.0092	0.0250	71.6038	0.0024	0.1927	0.0000	0.0002	0.5472	0.0000	0.0926	0.0089
0.4528	0.2568	0.0001	0.0140	33.0000	19.5235	0.0352	1470.0000				

622.0	0.0150	0.0288	70.7969	0.0146	2.9333	0.0000	0.0022	0.5565	0.0000	0.0892	0.0089
0.4435	0.2560	0.0001	0.0132	33.0000	64.7386	0.0305	1506.0000				
621.5	0.0052	0.0273	70.5337	0.0004	0.0103	0.0000	0.0212	0.5700	0.0000	0.0812	0.0084
0.4300	0.2390	0.0001	0.0114	33.0000	7.6552	0.0364	1461.0000				
621.0	0.0000	0.0305	68.0863	0.0004	0.0000	0.0000	0.0348	0.5765	0.0187	0.0768	0.2213
0.4048	0.2261	0.0001	0.0102	33.0000	4.8036	0.0468	1457.0000				
620.5	0.0057	0.0288	69.0766	0.0009	0.0050	0.0000	0.0468	0.5745	0.0509	0.0765	1.7740
0.3747	0.2127	0.0001	0.0100	33.0000	4.8330	0.0557	1470.0000				
620.0	0.0201	0.0388	67.4757	0.0283	2.2067	0.0000	0.0501	0.5669	0.0597	0.0798	2.7952
0.3735	0.2072	0.0001	0.0108	33.0000	22.7680	0.0608	1464.0000				
619.5	0.0220	0.0368	68.6540	0.0505	5.1648	0.0000	0.0644	0.5634	0.0983	0.0779	3.0257
0.3383	0.1927	0.0001	0.0105	33.0000	34.9947	0.0567	1461.0000				
619.0	0.0043	0.0253	67.7798	0.0005	0.0046	0.0000	0.0700	0.5602	0.1133	0.0773	2.9264
0.3265	0.1873	0.0001	0.0105	33.0000	8.5181	0.0360	1445.0000				
618.5	0.0013	0.0179	70.3697	0.0001	0.0000	0.0000	0.0680	0.5574	0.1080	0.0778	3.2510
0.3346	0.1897	0.0001	0.0108	33.0000	5.0953	0.0293	1487.0000				
618.0	0.0002	0.0154	71.3202	0.0000	0.0000	0.0000	0.0527	0.5542	0.0667	0.0819	4.0488
0.3791	0.2043	0.0001	0.0118	33.0000	5.9689	0.0229	1466.0000				
617.5	0.0057	0.0119	71.4898	0.0001	0.0332	0.0000	0.0316	0.5562	0.0101	0.0859	5.4029
0.4337	0.2248	0.0001	0.0124	33.0000	4.6008	0.0283	1465.0000				
617.0	0.0048	0.0179	70.0890	0.0001	0.0128	0.0000	0.0187	0.5630	0.0000	0.0868	6.4160
0.4370	0.2380	0.0001	0.0123	33.0000	5.5813	0.0295	1457.0000				
616.5	0.0000	0.0196	68.5002	0.0001	0.0000	0.0000	0.0125	0.5726	0.0000	0.0844	6.8391
0.4274	0.2458	0.0001	0.0117	33.0000	3.3429	0.0395	1511.0000				
616.0	0.0000	0.0198	69.4990	0.0002	0.0000	0.0000	0.0258	0.5741	0.0000	0.0795	7.4582
0.4259	0.2345	0.0001	0.0109	33.0000	4.8930	0.0367	1471.0000				
615.5	0.0118	0.0202	68.6172	0.0008	0.1615	0.0000	0.0374	0.5694	0.0257	0.0763	7.5267
0.4050	0.2247	0.0001	0.0106	33.0000	4.6129	0.0559	1461.0000				

615.0 0.0114 0.0257 67.5229 0.0010 0.1598
0.0000 0.0440 0.5646 0.0435 0.0759 7.5786
0.3919 0.2182 0.0001 0.0107 33.0000 5.7044
0.0528 1487.0000
614.5 0.0028 0.0254 64.8603 0.0004 0.0003
0.0000 0.0406 0.5643 0.0343 0.0761 6.5528
0.4014 0.2220 0.0001 0.0108 33.0000 4.0922
0.0494 1489.0000
614.0 0.0000 0.0283 63.9351 0.0005 0.0000
0.0000 0.0357 0.5711 0.0210 0.0756 5.2356
0.4079 0.2271 0.0001 0.0104 33.0000 13.4488
0.0294 1447.0000
613.5 0.0000 0.0251 64.1209 0.0003 0.0000
0.0000 0.0343 0.5755 0.0173 0.0739 4.0838
0.4072 0.2296 0.0001 0.0100 33.0000 13.0844
0.0251 1464.0000
613.0 0.0007 0.0190 64.5863 0.0002 0.0000
0.0000 0.0340 0.5754 0.0164 0.0760 3.8583
0.4081 0.2280 0.0001 0.0102 33.0000 7.8901
0.0280 1481.0000
612.5 0.0139 0.0278 65.5204 0.0015 0.6508
0.0000 0.0269 0.5712 0.0000 0.0802 4.2265
0.4288 0.2332 0.0001 0.0111 33.0000 8.5590
0.0476 1477.0000
612.0 0.0295 0.0452 66.2488 0.0175 5.9703
0.0000 0.0238 0.5660 0.0000 0.0863 4.5454
0.4340 0.2319 0.0001 0.0119 33.0000 9.3087
0.0843 1492.0000
611.5 0.0426 0.0692 65.8625 0.2618 73.0564
0.0000 0.0159 0.5667 0.0000 0.0885 4.1781
0.4333 0.2390 0.0001 0.0121 33.0000 35.2721
0.0852 1464.0000
611.0 0.0454 0.0705 67.3604 0.3602 94.6466
0.0000 0.0185 0.5661 0.0000 0.0891 4.7645
0.4339 0.2356 0.0001 0.0121 33.0000 38.0207
0.0888 1472.0000
610.5 0.0499 0.0782 67.9581 1.6236 401.9427
0.0000 0.0090 0.5618 0.0000 0.0892 4.7070
0.4382 0.2472 0.0001 0.0127 33.0000 95.3347
0.0817 1506.0000
610.0 0.0565 0.0828 68.1109 3.7496 937.0879
0.0000 0.0237 0.5624 0.0000 0.0855 5.0255
0.4376 0.2334 0.0001 0.0121 33.0000 129.4213
0.0865 1475.0000
609.5 0.0783 0.1082 67.3346 21.9770 5399.3159
0.0000 0.0361 0.5603 0.0221 0.0837 3.9137
0.4177 0.2210 0.0001 0.0119 33.0000 199.4025
0.1084 1461.0000
609.0 0.1035 0.1316 67.4961 76.9579 26757.7266
0.0000 0.0542 0.5622 0.0708 0.0813 3.8793
0.3670 0.2017 0.0001 0.0111 33.0000 247.7435
0.1331 1483.0000
608.5 0.1103 0.1379 68.2053 80.2095 40542.1250
0.0000 0.0488 0.5612 0.0563 0.0825 3.9457
0.3825 0.2071 0.0001 0.0114 33.0000 230.7265
0.1393 1510.0000

608.0 0.1088 0.1362 67.5595 37.9311 14437.1621
0.0000 0.0313 0.5620 0.0091 0.0862 4.7688
0.4289 0.2240 0.0001 0.0120 33.0000 142.7601
0.1469 1477.0000
607.5 0.1175 0.1461 64.6857 68.4560 41488.6484
0.0000 0.0101 0.5640 0.0000 0.0878 5.7393
0.4360 0.2468 0.0001 0.0125 33.0000 185.4559
0.1494 1449.0000
607.0 0.1309 0.1596 64.5306 70.9037 11741.6191
0.0000 0.0060 0.5659 0.0000 0.0887 5.9594
0.4341 0.2504 0.0001 0.0125 33.0000 122.9501
0.1850 1426.0000
606.5 0.1350 0.1635 63.9480 42.4181 3350.2554
0.0000 0.0213 0.5729 0.0000 0.0814 5.8365
0.4271 0.2382 0.0001 0.0112 33.0000 68.6575
0.2178 1422.0000
606.0 0.1124 0.1417 64.8652 18.0811 1125.9943
0.0000 0.0332 0.5735 0.0142 0.0786 5.2036
0.4123 0.2269 0.0001 0.0107 33.0000 53.6837
0.1990 1446.0000
605.5 0.1326 0.1625 64.1890 62.9950 4939.8735
0.0000 0.0337 0.5718 0.0156 0.0774 5.2279
0.4125 0.2277 0.0001 0.0106 33.0000 95.2489
0.2041 1484.0000
605.0 0.1670 0.1994 64.4790 1182.9275 257920.7813
0.0000 0.0240 0.5663 0.0000 0.0813 5.5840
0.4337 0.2363 0.0001 0.0116 33.0000 429.0424
0.2002 1438.0000
604.5 0.1488 0.1705 66.3473 482.8633 122118.5703
0.0000 0.0146 0.5558 0.0000 0.0851 6.4335
0.4442 0.2456 0.0001 0.0128 33.0000 328.8951
0.1828 1445.0000
604.0 0.1397 0.1616 66.7028 526.8488 101918.6250
0.0000 0.0153 0.5510 0.0000 0.0857 7.3560
0.4490 0.2449 0.0001 0.0132 33.0000 387.1661
0.1722 1471.0000
603.5 0.0895 0.1262 65.8202 26.6234 1098.4380
0.0000 0.0231 0.5506 0.0000 0.0851 7.4298
0.4494 0.2364 0.0001 0.0130 33.0000 115.0998
0.1497 1477.0000
603.0 0.1000 0.1399 65.4109 49.4574 2137.3831
0.0000 0.0353 0.5600 0.0201 0.0822 6.9340
0.4200 0.2233 0.0001 0.0118 33.0000 139.8384
0.1586 1513.0000
602.5 0.0736 0.1014 66.4668 4.8259 609.2580
0.0000 0.0442 0.5672 0.0440 0.0799 5.9973
0.3888 0.2138 0.0001 0.0109 33.0000 69.0439
0.1261 1477.0000
602.0 0.0634 0.0801 68.0090 0.8130 234.7034
0.0000 0.0455 0.5728 0.0474 0.0795 5.5433
0.3797 0.2117 0.0001 0.0105 33.0000 31.6819
0.1193 1487.0000
601.5 0.0540 0.0760 66.3353 0.5148 121.8377
0.0000 0.0365 0.5725 0.0233 0.0816 5.6169
0.4042 0.2204 0.0001 0.0109 33.0000 31.2097
0.1072 1461.0000

601.0 0.0394 0.0720 64.3379 0.2118 15.7495
0.0000 0.0191 0.5636 0.0000 0.0866 5.7842
0.4364 0.2375 0.0001 0.0122 33.0000 21.7747
0.1028 1489.0000
600.5 0.0604 0.0848 63.8880 3.4378 666.2275
0.0000 0.0111 0.5633 0.0000 0.0864 5.1001
0.4367 0.2471 0.0001 0.0124 33.0000 97.4351
0.0975 1480.0000
600.0 0.0607 0.0886 64.0366 3.4195 551.1313
0.0000 0.0083 0.5699 0.0000 0.0853 3.2412
0.4301 0.2503 0.0001 0.0120 33.0000 91.7023
0.1004 1450.0000
599.5 0.0743 0.1055 66.6147 11.5759 2455.2627
0.0000 0.0122 0.5826 0.0000 0.0836 2.7400
0.4174 0.2452 0.0001 0.0110 33.0000 142.6377
0.1092 1570.0000
599.0 0.0779 0.1141 64.2118 11.2190 1068.2085
0.0000 0.0069 0.5832 0.0000 0.0858 3.6583
0.4168 0.2492 0.0001 0.0112 33.0000 104.9801
0.1263 1514.0000
598.5 0.0940 0.1414 63.2411 29.7458 1115.5532
0.0000 0.0155 0.5826 0.0000 0.0846 5.4075
0.4174 0.2404 0.0001 0.0109 33.0000 108.1809
0.1588 1459.0000
598.0 0.1067 0.1438 60.8408 29.1605 1650.5078
0.0000 0.0321 0.5828 0.0113 0.0790 6.2507
0.4059 0.2262 0.0001 0.0101 33.0000 85.9417
0.1772 1481.0000
597.5 0.0870 0.1512 61.9738 7.9378 116.5552
0.0000 0.0495 0.5832 0.0581 0.0748 6.8311
0.3587 0.2098 0.0001 0.0092 33.0000 32.6982
0.2076 1525.0000
597.0 0.0706 0.1491 61.4539 2.0861 15.1602
0.0000 0.0545 0.5794 0.0716 0.0748 8.6610
0.3490 0.2045 0.0001 0.0093 33.0000 11.6436
0.2490 1493.0000
596.5 0.0386 0.1627 59.8541 1.1693 0.3859
0.0000 0.0516 0.5731 0.0638 0.0795 10.8813
0.3630 0.2046 0.0001 0.0103 33.0000 5.5629
0.3118 1531.0000
596.0 0.0286 0.1553 59.6275 0.6598 0.0893
0.0000 0.0505 0.5707 0.0608 0.0812 11.7788
0.3685 0.2048 0.0001 0.0106 33.0000 3.7396
0.3295 1471.0000
595.5 0.0274 0.1616 60.2321 0.7721 0.0607
0.0000 0.0521 0.5789 0.0651 0.0791 10.1963
0.3560 0.2034 0.0001 0.0098 33.0000 3.4396
0.3574 1542.0000
595.0 0.0236 0.1487 61.0295 0.5212 0.0391
0.0000 0.0539 0.5841 0.0699 0.0764 8.3434
0.3460 0.2030 0.0001 0.0092 33.0000 3.3857
0.3265 1502.0000
594.5 0.0359 0.1409 61.8694 0.5922 0.2668
0.0000 0.0560 0.5776 0.0757 0.0758 7.4766
0.3467 0.2021 0.0001 0.0095 33.0000 3.8311
0.3169 1461.0000

594.0	0.0382	0.1279	62.8387	0.4340	0.5083	0.0000	0.0604	0.5647	0.0874	0.0771	6.9046
0.3479	0.1980	0.0001	0.0104	33.0000	4.3350	0.2757	1456.0000				
593.5	0.0453	0.1082	64.6388	0.3072	2.2249	0.0000	0.0670	0.5611	0.1053	0.0766	5.4377
0.3337	0.1913	0.0001	0.0104	33.0000	5.7768	0.2190	1482.0000				
593.0	0.0406	0.0921	64.6108	0.2361	5.3711	0.0000	0.0649	0.5630	0.0996	0.0763	3.8047
0.3374	0.1937	0.0001	0.0103	33.0000	12.2525	0.1408	1433.0000				
592.5	0.0429	0.0716	64.8701	0.6093	95.7733	0.0000	0.0593	0.5698	0.0845	0.0745	2.2319
0.3457	0.2008	0.0001	0.0098	33.0000	57.5994	0.0823	1433.0000				
592.0	0.0332	0.0663	67.3366	0.2400	16.7446	0.0000	0.0479	0.5659	0.0540	0.0743	1.6076
0.3801	0.2149	0.0001	0.0103	33.0000	38.6509	0.0796	1471.0000				
591.5	0.0317	0.0614	70.4307	0.1248	8.7014	0.0000	0.0456	0.5653	0.0478	0.0733	0.7748
0.3870	0.2186	0.0001	0.0103	33.0000	24.0675	0.0857	1484.0000				
591.0	0.0289	0.0552	70.7835	0.0484	4.1849	0.0000	0.0447	0.5629	0.0452	0.0733	0.3243
0.3919	0.2202	0.0001	0.0105	33.0000	13.8664	0.0891	1498.0000				
590.5	0.0208	0.0451	68.6019	0.0154	1.1590	0.0000	0.0423	0.5678	0.0388	0.0733	0.0080
0.3935	0.2221	0.0001	0.0102	33.0000	10.6198	0.0764	1498.0000				
590.0	0.0160	0.0336	63.9015	0.0041	0.5701	0.0000	0.0346	0.5710	0.0180	0.0746	0.2335
0.4110	0.2294	0.0001	0.0104	33.0000	8.3562	0.0618	1462.0000				
589.5	0.0074	0.0247	61.5845	0.0005	0.0666	0.0000	0.0276	0.5709	0.0000	0.0753	0.4472
0.4291	0.2369	0.0001	0.0106	33.0000	9.3292	0.0345	1436.0000				
589.0	0.0033	0.0197	59.7071	0.0001	0.0030	0.0000	0.0246	0.5688	0.0000	0.0773	0.8851
0.4312	0.2388	0.0001	0.0111	33.0000	8.8750	0.0256	1497.0000				
588.5	0.0055	0.0199	59.2599	0.0002	0.0321	0.0000	0.0180	0.5626	0.0000	0.0797	0.0492
0.4374	0.2454	0.0001	0.0119	33.0000	11.2088	0.0240	1481.0000				
588.0	0.0053	0.0175	58.2013	0.0001	0.0092	0.0000	0.0177	0.5640	0.0000	0.0812	0.2912
0.4360	0.2441	0.0001	0.0119	33.0000	3.9376	0.0388	1520.0000				
587.5	0.0076	0.0182	59.0054	0.0002	0.0400	0.0000	0.0305	0.5714	0.0071	0.0768	1.1543
0.4214	0.2320	0.0001	0.0107	33.0000	3.6671	0.0423	1491.0000				

587.0 0.0075 0.0220 60.1595 0.0003 0.0277
0.0000 0.0440 0.5796 0.0433 0.0736 1.9699
0.3771 0.2179 0.0001 0.0094 33.0000 3.9406
0.0480 1458.0000
586.5 0.0083 0.0274 64.5758 0.0007 0.0834
0.0000 0.0504 0.5816 0.0607 0.0723 2.6335
0.3577 0.2113 0.0001 0.0089 33.0000 8.6540
0.0385 1450.0000
586.0 0.0133 0.0270 65.4181 0.0014 1.3289
0.0000 0.0462 0.5809 0.0494 0.0737 2.5383
0.3697 0.2150 0.0001 0.0093 33.0000 13.4914
0.0373 1480.0000
585.5 0.0066 0.0244 65.2531 0.0004 0.0705
0.0000 0.0476 0.5777 0.0530 0.0729 2.4166
0.3693 0.2147 0.0001 0.0093 33.0000 13.3701
0.0281 1473.0000
585.0 0.0072 0.0323 62.8888 0.0062 0.0723
0.0000 0.0377 0.5756 0.0265 0.0732 1.9569
0.3978 0.2262 0.0001 0.0098 33.0000 37.5897
0.0323 1509.0000
584.5 0.0130 0.0328 60.8532 0.0095 1.4158
0.0000 0.0301 0.5783 0.0060 0.0750 2.3064
0.4157 0.2330 0.0001 0.0100 33.0000 39.0668
0.0353 1477.0000
584.0 0.0098 0.0307 61.6004 0.0035 0.3101
0.0000 0.0149 0.5800 0.0000 0.0804 2.8228
0.4200 0.2454 0.0001 0.0109 33.0000 25.8777
0.0338 1428.0000
583.5 0.0048 0.0229 62.0840 0.0002 0.0080
0.0000 0.0179 0.5815 0.0000 0.0837 2.4790
0.4185 0.2387 0.0001 0.0109 33.0000 5.9599
0.0341 1454.0000
583.0 0.0046 0.0237 62.5251 0.0004 0.0070
0.0000 0.0189 0.5805 0.0000 0.0876 0.7009
0.4195 0.2340 0.0001 0.0111 33.0000 8.7797
0.0343 1480.0000
582.5 0.0039 0.0142 62.8251 0.0001 0.0035
0.0000 0.0267 0.5836 0.0000 0.0850 0.0090
0.4164 0.2268 0.0001 0.0106 33.0000 3.1797
0.0336 1459.0000
582.0 0.0041 0.0164 61.7921 0.0001 0.0051
0.0000 0.0334 0.5845 0.0148 0.0819 0.0086
0.4007 0.2217 0.0001 0.0102 33.0000 5.3729
0.0309 1500.0000
581.5 0.0030 0.0123 64.2087 0.0000 0.0012
0.0000 0.0385 0.5834 0.0286 0.0746 0.0082
0.3880 0.2227 0.0001 0.0094 33.0000 2.6866
0.0309 1507.0000
581.0 0.0007 0.0115 63.2580 0.0000 0.0000
0.0000 0.0321 0.5811 0.0114 0.0745 0.0082
0.4076 0.2307 0.0001 0.0097 33.0000 4.3426
0.0211 1475.0000
580.5 0.0014 0.0100 63.6460 0.0000 0.0001
0.0000 0.0241 0.5800 0.0000 0.0771 0.0086
0.4200 0.2378 0.0001 0.0103 33.0000 3.9572
0.0168 1459.0000

580.0 0.0066 0.0176 61.8490 0.0001 0.0569
0.0000 0.0206 0.5664 0.0000 0.0844 0.0091
0.4336 0.2373 0.0001 0.0119 33.0000 5.2947
0.0298 1478.0000
579.5 0.0136 0.0306 60.9123 0.0010 0.5801
0.0000 0.0360 0.5590 0.0217 0.0853 0.0092
0.4193 0.2199 0.0001 0.0120 33.0000 6.9639
0.0477 1466.0000
579.0 0.0155 0.0241 62.0165 0.0009 0.5491
0.0000 0.0485 0.5530 0.0554 0.0844 0.0092
0.3917 0.2071 0.0001 0.0121 33.0000 4.3246
0.0593 1466.0000
578.5 0.0120 0.0256 61.8510 0.0010 0.1609
0.0000 0.0573 0.5552 0.0791 0.0812 0.2316
0.3657 0.1994 0.0001 0.0115 33.0000 4.6363
0.0577 1411.0000
578.0 0.0142 0.0279 63.0796 0.0016 0.2435
0.0000 0.0546 0.5489 0.0719 0.0812 0.5118
0.3792 0.2035 0.0001 0.0120 33.0000 4.6567
0.0660 1462.0000
577.5 0.0171 0.0410 62.1797 0.0055 0.5067
0.0000 0.0450 0.5434 0.0461 0.0821 0.9465
0.4105 0.2149 0.0001 0.0128 33.0000 7.3444
0.0710 1466.0000
577.0 0.0167 0.0376 64.0232 0.0060 1.9276
0.0000 0.0351 0.5377 0.0194 0.0837 2.2617
0.4428 0.2259 0.0001 0.0136 33.0000 17.0516
0.0476 1471.0000
576.5 0.0136 0.0328 63.6445 0.0020 0.8880
0.0000 0.0201 0.5436 0.0000 0.0837 1.8103
0.4564 0.2425 0.0001 0.0135 33.0000 12.4748
0.0426 1489.0000
576.0 0.0189 0.0299 63.9094 0.0065 10.4434
0.0000 0.0234 0.5536 0.0000 0.0797 2.8632
0.4464 0.2406 0.0001 0.0124 33.0000 30.6636
0.0362 1492.0000
575.5 0.0199 0.0398 60.8923 0.0192 10.0077
0.0000 0.0246 0.5610 0.0000 0.0768 3.4697
0.4390 0.2406 0.0001 0.0116 33.0000 37.4018
0.0431 1470.0000
575.0 0.0281 0.0456 62.4263 0.0947 82.3782
0.0000 0.0391 0.5665 0.0303 0.0738 4.5280
0.4032 0.2255 0.0001 0.0104 33.0000 72.3845
0.0461 1433.0000
574.5 0.0265 0.0518 61.7847 0.0559 31.9452
0.0000 0.0392 0.5733 0.0304 0.0755 4.4996
0.3963 0.2228 0.0001 0.0102 33.0000 44.0622
0.0518 1424.0000
574.0 0.0325 0.0502 62.5849 0.0322 44.8604
0.0000 0.0331 0.5839 0.0140 0.0787 3.8256
0.4021 0.2252 0.0001 0.0100 33.0000 21.7431
0.0642 1491.0000
573.5 0.0304 0.0531 62.2468 0.0339 18.0115
0.0000 0.0209 0.5873 0.0000 0.0828 3.4581
0.4127 0.2350 0.0001 0.0104 33.0000 19.1856
0.0693 1471.0000

573.0	0.0262	0.0487	61.5389	0.0500	39.6254	0.0000	0.0302	0.5920	0.0062	0.0798	4.8165
0.4019	0.2262	0.0001	0.0096	33.0000	45.8485	0.0494	1439.0000				
572.5	0.0210	0.0508	62.1537	0.0366	6.3897	0.0000	0.0570	0.5867	0.0783	0.0724	6.4443
0.3350	0.2026	0.0001	0.0084	33.0000	37.0014	0.0508	1476.0000				
572.0	0.0146	0.0392	61.1569	0.0115	1.9206	0.0000	0.0762	0.5776	0.1300	0.0674	7.7591
0.2924	0.1864	0.0001	0.0077	33.0000	34.7418	0.0393	1511.0000				
571.5	0.0204	0.0431	61.9822	0.0155	4.1863	0.0000	0.0716	0.5729	0.1175	0.0680	5.9782
0.3096	0.1921	0.0001	0.0082	33.0000	21.9521	0.0533	1492.0000				
571.0	0.0234	0.0392	61.8946	0.0163	20.9559	0.0000	0.0552	0.5728	0.0736	0.0725	3.1065
0.3536	0.2069	0.0001	0.0094	33.0000	28.7581	0.0471	1481.0000				
570.5	0.0246	0.0431	60.9838	0.0273	21.9534	0.0000	0.0406	0.5694	0.0343	0.0753	0.2212
0.3963	0.2219	0.0001	0.0104	33.0000	33.1776	0.0499	1496.0000				
570.0	0.0178	0.0381	60.9591	0.0042	4.7086	0.0000	0.0403	0.5636	0.0333	0.0753	0.1721
0.4030	0.2233	0.0001	0.0108	33.0000	17.6446	0.0429	1472.0000				
569.5	0.0154	0.0381	60.4286	0.0036	1.2899	0.0000	0.0338	0.5596	0.0160	0.0738	0.3449
0.4244	0.2329	0.0001	0.0111	33.0000	13.8788	0.0466	1476.0000				
569.0	0.0098	0.0338	60.8613	0.0021	0.1762	0.0000	0.0205	0.5545	0.0000	0.0766	0.1003
0.4455	0.2467	0.0001	0.0121	33.0000	14.0747	0.0402	1500.0000				
568.5	0.0066	0.0322	60.6958	0.0030	0.0446	0.0000	0.0080	0.5503	0.0000	0.0800	0.0098
0.4497	0.2588	0.0001	0.0131	33.0000	25.5423	0.0327	1499.0000				
568.0	0.0106	0.0311	61.1615	0.0031	0.4282	0.0000	0.0152	0.5455	0.0000	0.0815	1.5556
0.4545	0.2498	0.0001	0.0134	33.0000	22.1262	0.0354	1448.0000				
567.5	0.0136	0.0360	60.7615	0.0062	0.7761	0.0000	0.0332	0.5511	0.0142	0.0777	4.3429
0.4347	0.2315	0.0001	0.0122	33.0000	20.2453	0.0442	1457.0000				
567.0	0.0171	0.0383	60.8266	0.0078	1.1877	0.0000	0.0343	0.5618	0.0172	0.0762	5.4838
0.4210	0.2298	0.0001	0.0112	33.0000	14.1270	0.0559	1473.0000				
566.5	0.0144	0.0304	61.9656	0.0033	1.3598	0.0000	0.0220	0.5682	0.0000	0.0773	5.2559
0.4318	0.2420	0.0001	0.0112	33.0000	16.7498	0.0414	1456.0000				

566.0 0.0218 0.0300 63.1249 0.0035 8.3614
0.0000 0.0002 0.5716 0.0000 0.0801 3.3141
0.4284 0.2643 0.0001 0.0118 33.0000 11.5029
0.0507 1429.0000
565.5 0.0209 0.0275 63.9522 0.0023 16.7181
0.0000 0.0002 0.5700 0.0000 0.0779 1.3987
0.4300 0.2666 0.0001 0.0117 33.0000 13.5007
0.0422 1475.0000
565.0 0.0244 0.0321 62.9261 0.0067 18.6310
0.0000 0.0040 0.5736 0.0000 0.0765 2.2515
0.4264 0.2628 0.0001 0.0112 33.0000 15.8029
0.0509 1471.0000
564.5 0.0216 0.0381 62.0862 0.0242 13.4480
0.0000 0.0224 0.5734 0.0000 0.0731 3.8092
0.4266 0.2445 0.0001 0.0103 33.0000 37.1037
0.0458 1438.0000
564.0 0.0284 0.0472 60.1829 0.1005 26.5474
0.0000 0.0336 0.5704 0.0154 0.0715 6.3040
0.4142 0.2335 0.0001 0.0100 33.0000 46.1900
0.0586 1469.0000
563.5 0.0326 0.0576 60.6419 0.1564 22.1733
0.0000 0.0450 0.5669 0.0460 0.0673 5.5139
0.3871 0.2247 0.0001 0.0092 33.0000 36.7326
0.0734 1478.0000
563.0 0.0373 0.0586 61.0663 0.1306 26.9436
0.0000 0.0495 0.5630 0.0582 0.0657 4.7315
0.3788 0.2216 0.0001 0.0090 33.0000 24.9237
0.0851 1496.0000
562.5 0.0387 0.0648 60.1308 0.2081 65.0622
0.0000 0.0525 0.5606 0.0662 0.0658 4.2856
0.3732 0.2184 0.0001 0.0091 33.0000 39.1945
0.0763 1454.0000
562.0 0.0485 0.0743 58.7920 0.7716 339.2528
0.0000 0.0613 0.5576 0.0900 0.0686 6.1009
0.3524 0.2059 0.0001 0.0097 33.0000 67.7490
0.0805 1498.0000
561.5 0.0595 0.0962 56.9615 2.8415 517.5336
0.0000 0.0712 0.5575 0.1166 0.0688 7.8436
0.3259 0.1942 0.0001 0.0095 33.0000 86.5319
0.0987 1483.0000
561.0 0.0738 0.1111 57.5950 5.1854 612.5176
0.0000 0.0825 0.5615 0.1469 0.0684 8.2822
0.2916 0.1809 0.0001 0.0088 33.0000 71.1720
0.1265 1458.0000
560.5 0.0796 0.1185 56.0724 12.9385 895.4058
0.0000 0.0828 0.5697 0.1476 0.0682 7.4260
0.2827 0.1793 0.0001 0.0082 33.0000 102.3572
0.1326 1478.0000
560.0 0.0613 0.1091 57.5598 2.8465 71.1880
0.0000 0.0763 0.5765 0.1303 0.0700 7.1209
0.2932 0.1840 0.0001 0.0082 33.0000 42.9023
0.1402 1489.0000
559.5 0.0479 0.1025 58.0299 0.9461 10.8744
0.0000 0.0604 0.5823 0.0874 0.0727 6.6662
0.3302 0.1991 0.0001 0.0087 33.0000 21.6455
0.1499 1443.0000

559.0	0.0427	0.0909	60.2501	0.2099	4.7804
0.0000	0.0459	0.5826	0.0486	0.0742	7.4428
0.3689	0.2146	0.0001	0.0092	33.0000	9.2679
0.1572	1427.0000				
558.5	0.0413	0.0878	61.0213	0.1329	2.8156
0.0000	0.0374	0.5852	0.0256	0.0756	6.8350
0.3892	0.2228	0.0001	0.0094	33.0000	6.0030
0.1742	1471.0000				
558.0	0.0313	0.0679	61.9403	0.0536	1.7560
0.0000	0.0406	0.5895	0.0342	0.0739	7.1543
0.3763	0.2200	0.0001	0.0089	33.0000	6.9627
0.1289	1485.0000				
557.5	0.0180	0.0423	61.6395	0.0070	0.2710
0.0000	0.0399	0.5952	0.0324	0.0737	6.3067
0.3724	0.2200	0.0001	0.0085	33.0000	4.6045
0.0953	1478.0000				
557.0	0.0188	0.0322	61.7787	0.0042	1.1157
0.0000	0.0409	0.5948	0.0350	0.0737	6.8527
0.3702	0.2189	0.0001	0.0085	33.0000	7.4749
0.0658	1447.0000				
556.5	0.0245	0.0493	60.8601	0.0130	1.3846
0.0000	0.0347	0.5897	0.0184	0.0770	6.8934
0.3919	0.2239	0.0001	0.0094	33.0000	6.5329
0.0935	1448.0000				
556.0	0.0297	0.0759	61.5082	0.0647	1.3953
0.0000	0.0294	0.5863	0.0041	0.0802	6.3056
0.4095	0.2276	0.0001	0.0100	33.0000	7.8615
0.1272	1485.0000				
555.5	0.0306	0.0829	61.8721	0.0935	1.0908
0.0000	0.0193	0.5842	0.0000	0.0838	4.2438
0.4158	0.2365	0.0001	0.0107	33.0000	7.3032
0.1447	1454.0000				
555.0	0.0355	0.0719	62.7146	0.0869	3.7220
0.0000	0.0101	0.5854	0.0000	0.0863	2.3260
0.4146	0.2447	0.0001	0.0110	33.0000	9.1982
0.1266	1471.0000				
554.5	0.0396	0.0642	60.6687	0.1336	11.4528
0.0000	0.0144	0.5830	0.0000	0.0854	2.4646
0.4170	0.2408	0.0001	0.0110	33.0000	14.7406
0.1113	1473.0000				
554.0	0.0481	0.0617	58.8432	0.3460	67.9640
0.0000	0.0221	0.5906	0.0000	0.0807	2.9575
0.4094	0.2350	0.0001	0.0100	33.0000	28.6332
0.1013	1492.0000				
553.5	0.0409	0.0532	57.8534	0.1071	23.2745
0.0000	0.0309	0.5935	0.0080	0.0778	4.4424
0.3985	0.2270	0.0001	0.0093	33.0000	16.4671
0.0997	1511.0000				
553.0	0.0336	0.0538	57.3289	0.0329	4.8393
0.0000	0.0347	0.5994	0.0184	0.0760	4.7888
0.3822	0.2232	0.0001	0.0086	33.0000	7.7443
0.1083	1492.0000				
552.5	0.0282	0.0623	58.3691	0.0269	2.1648
0.0000	0.0442	0.5969	0.0439	0.0747	5.9394
0.3592	0.2137	0.0001	0.0084	33.0000	7.7325
0.1030	1464.0000				

552.0 0.0287 0.0653 59.1031 0.0292 2.6878
0.0000 0.0442 0.5930 0.0440 0.0728 4.5353
0.3630 0.2162 0.0001 0.0084 33.0000 8.6742
0.0992 1473.0000
551.5 0.0347 0.0708 60.0273 0.0853 10.0841
0.0000 0.0393 0.5839 0.0307 0.0726 3.9064
0.3854 0.2236 0.0001 0.0091 33.0000 16.3822
0.0944 1461.0000
551.0 0.0486 0.0723 59.9329 0.4361 122.1044
0.0000 0.0275 0.5734 0.0000 0.0771 3.2854
0.4266 0.2350 0.0001 0.0107 33.0000 37.9844
0.0932 1468.0000
550.5 0.0572 0.0794 60.1789 1.1934 298.6621
0.0000 0.0277 0.5670 0.0000 0.0820 4.4653
0.4330 0.2312 0.0001 0.0115 33.0000 53.6244
0.1009 1486.0000
550.0 0.0574 0.0763 61.9605 2.3129 1324.1438
0.0000 0.0339 0.5676 0.0163 0.0849 4.9242
0.4161 0.2212 0.0001 0.0115 33.0000 104.7581
0.0852 1462.0000
549.5 0.0557 0.0729 62.7005 1.0464 860.0129
0.0000 0.0361 0.5745 0.0222 0.0837 4.5327
0.4033 0.2185 0.0001 0.0109 33.0000 69.3369
0.0859 1466.0000
549.0 0.0526 0.0686 64.2407 0.8934 1311.0277
0.0000 0.0318 0.5712 0.0104 0.0830 4.3632
0.4184 0.2249 0.0001 0.0112 33.0000 80.1643
0.0768 1460.0000
548.5 0.0409 0.0605 63.3290 0.4582 397.2694
0.0000 0.0134 0.5621 0.0000 0.0868 4.7756
0.4379 0.2442 0.0001 0.0125 33.0000 82.3342
0.0641 1444.0000
548.0 0.0420 0.0508 61.4906 0.3072 724.4055
0.0000 0.0002 0.5580 0.0000 0.0902 5.9847
0.4420 0.2572 0.0001 0.0132 33.0000 74.0535
0.0612 1447.0000
547.5 0.0417 0.0498 60.8266 0.3228 713.3854
0.0000 0.0002 0.5647 0.0000 0.0918 6.0391
0.4353 0.2546 0.0001 0.0127 33.0000 75.0503
0.0615 1468.0000
547.0 0.0494 0.0590 60.4107 0.7967 1472.1104
0.0000 0.0229 0.5810 0.0000 0.0871 5.3013
0.4190 0.2297 0.0001 0.0109 33.0000 89.4267
0.0706 1471.0000
546.5 0.0524 0.0743 60.3856 2.9252 1243.7437
0.0000 0.0504 0.5884 0.0605 0.0806 3.8377
0.3511 0.2024 0.0001 0.0094 33.0000 144.8035
0.0768 1448.0000
546.0 0.0481 0.0654 58.5784 0.7746 657.5452
0.0000 0.0617 0.5850 0.0910 0.0773 3.5349
0.3240 0.1929 0.0001 0.0090 33.0000 80.6128
0.0739 1458.0000
545.5 0.0408 0.0636 60.4181 0.1373 34.2757
0.0000 0.0556 0.5773 0.0746 0.0775 4.0430
0.3481 0.2011 0.0001 0.0097 33.0000 21.8533
0.0921 1455.0000

545.0 0.0270 0.0495 61.1909 0.0160 3.1631
0.0000 0.0405 0.5728 0.0341 0.0792 4.9327
0.3931 0.2178 0.0001 0.0106 33.0000 8.4021
0.0868 1482.0000
544.5 0.0257 0.0526 62.4030 0.0238 2.1382
0.0000 0.0312 0.5703 0.0088 0.0797 5.4438
0.4208 0.2287 0.0001 0.0110 33.0000 9.6581
0.0894 1484.0000
544.0 0.0225 0.0468 64.5161 0.0100 2.5294
0.0000 0.0315 0.5696 0.0097 0.0787 5.4305
0.4206 0.2294 0.0001 0.0110 33.0000 10.3893
0.0694 1513.0000
543.5 0.0098 0.0293 64.7382 0.0010 0.2341
0.0000 0.0216 0.5626 0.0000 0.0814 5.3188
0.4374 0.2396 0.0001 0.0119 33.0000 11.5723
0.0371 1480.0000
543.0 0.0027 0.0189 66.3940 0.0001 0.0015
0.0000 0.0078 0.5633 0.0000 0.0838 5.0753
0.4367 0.2534 0.0001 0.0124 33.0000 7.0573
0.0242 1457.0000
542.5 0.0000 0.0051 66.0178 0.0000 0.0000
0.0000 0.0002 0.5762 0.0000 0.0824 4.1101
0.4238 0.2614 0.0001 0.0116 33.0000 3.3644
0.0065 1466.0000
542.0 0.0038 0.0038 68.5227 0.0000 0.0020
0.0000 0.0118 0.5956 0.0000 0.0784 4.1071
0.4044 0.2484 0.0001 0.0097 33.0000 8.4380
0.0123 1506.0000
541.5 0.0033 0.0038 69.9690 0.0000 0.0029
0.0000 0.0285 0.6026 0.0016 0.0757 4.1076
0.3958 0.2303 0.0001 0.0086 33.0000 3.6642
0.0202 1510.0000
541.0 0.0101 0.0152 70.1714 0.0008 0.5122
0.0000 0.0351 0.5931 0.0194 0.0785 3.9566
0.3874 0.2215 0.0001 0.0093 33.0000 14.2306
0.0311 1502.0000
540.5 0.0065 0.0201 68.2544 0.0002 0.0299
0.0000 0.0293 0.5747 0.0038 0.0837 2.7744
0.4215 0.2264 0.0001 0.0111 33.0000 5.9944
0.0359 1449.0000
540.0 0.0078 0.0222 64.5411 0.0003 0.0329
0.0000 0.0224 0.5642 0.0000 0.0855 0.8232
0.4358 0.2345 0.0001 0.0120 33.0000 3.9158
0.0474 1496.0000
539.5 0.0059 0.0256 62.9553 0.0004 0.0117
0.0000 0.0307 0.5723 0.0075 0.0811 0.4331
0.4201 0.2277 0.0001 0.0110 33.0000 5.2557
0.0438 1500.0000
539.0 0.0077 0.0207 65.0272 0.0004 0.0729
0.0000 0.0360 0.5808 0.0218 0.0782 0.0080
0.3974 0.2227 0.0001 0.0101 33.0000 7.7114
0.0358 1435.0000
538.5 0.0056 0.0187 67.3879 0.0001 0.0286
0.0000 0.0306 0.5752 0.0072 0.0822 0.0086
0.4176 0.2263 0.0001 0.0109 33.0000 6.8313
0.0289 1466.0000

538.0 0.0000 0.0076 66.6197 0.0000 0.0000
0.0000 0.0136 0.5627 0.0000 0.0890 0.0094
0.4373 0.2419 0.0001 0.0125 33.0000 3.1105
0.0123 1496.0000
537.5 0.0038 0.0138 66.5293 0.0001 0.0026
0.0000 0.0111 0.5563 0.0000 0.0886 0.0097
0.4437 0.2463 0.0001 0.0130 33.0000 27.1439
0.0138 1443.0000
537.0 0.0000 0.0022 65.2525 0.0000 0.0000
0.0000 0.0181 0.5652 0.0000 0.0824 0.0093
0.4348 0.2424 0.0001 0.0119 33.0000 4.4878
0.0027 1438.0000
536.5 0.0029 0.0081 65.4553 0.0000 0.0003
0.0000 0.0264 0.5721 0.0000 0.0761 0.0093
0.4279 0.2373 0.0001 0.0107 33.0000 24.5816
0.0081 1433.0000
536.0 0.0021 0.0077 63.9727 0.0000 0.0004
0.0000 0.0130 0.5820 0.0000 0.0792 1.0263
0.4180 0.2485 0.0001 0.0107 33.0000 4.2365
0.0194 1466.0000
535.5 0.0133 0.0144 64.7919 0.0030 1.8800
0.0000 0.0072 0.5856 0.0000 0.0826 2.0556
0.4144 0.2515 0.0001 0.0108 33.0000 28.3666
0.0312 1447.0000
535.0 0.0093 0.0104 64.4339 0.0000 0.2074
0.0000 0.0002 0.5703 0.0000 0.0887 0.7150
0.4297 0.2565 0.0001 0.0123 33.0000 5.1069
0.0211 1445.0000
534.5 0.0085 0.0092 63.9751 0.0000 0.2134
0.0000 0.0002 0.5503 0.0000 0.0908 1.4429
0.4497 0.2579 0.0001 0.0138 33.0000 3.1324
0.0254 1502.0000
534.0 0.0150 0.0151 61.9536 0.0031 2.9964
0.0000 0.0003 0.5364 0.0000 0.0918 2.4655
0.4636 0.2593 0.0001 0.0148 33.0000 20.2988
0.0371 1486.0000
533.5 0.0163 0.0163 62.6426 0.0088 4.4234
0.0000 0.0003 0.5466 0.0000 0.0912 2.9413
0.4534 0.2582 0.0001 0.0140 33.0000 47.1636
0.0316 1462.0000
533.0 0.0000 0.0000 63.4362 0.0000 0.0000
0.0000 0.0003 0.5596 0.0000 0.0918 1.0348
0.4404 0.2553 0.0001 0.0131 33.0000 0.3586
0.0005 1448.0000
532.5 0.0048 0.0048 65.2974 0.0000 0.0080
0.0000 0.0003 0.5623 0.0000 0.0927 0.0116
0.4377 0.2541 0.0001 0.0129 33.0000 3.5119
0.0156 1460.0000
532.0 0.0034 0.0034 63.4005 0.0000 0.0011
0.0000 0.0003 0.5500 0.0000 0.0930 0.0114
0.4500 0.2558 0.0001 0.0138 33.0000 3.3686
0.0111 1484.0000
531.5 0.0138 0.0138 62.3351 0.0213 0.7447
0.0000 0.0002 0.5535 0.0000 0.0914 0.0112
0.4465 0.2567 0.0001 0.0135 33.0000 222.5305
0.0181 1492.0000

531.0 0.0446 0.0447 62.1748 77.7177 495.2631
0.0000 0.0002 0.5645 0.0000 0.0909 0.0107
0.4355 0.2554 0.0001 0.0127 33.0000 2210.6233
0.0447 1489.0000
530.5 0.0289 0.0295 62.2848 1.1748 59.9094
0.0000 0.0002 0.5786 0.0000 0.0911 0.0106
0.4214 0.2529 0.0001 0.0118 33.0000 392.0114
0.0372 1458.0000
530.0 0.0332 0.0332 62.5000 0.2344 125.8700
0.0000 0.0002 0.5767 0.0000 0.0898 0.0105
0.4233 0.2544 0.0001 0.0119 33.0000 75.1914
0.0567 1471.0000
529.5 0.0000 0.0053 61.7012 0.0000 0.0000
0.0000 0.0002 0.5722 0.0000 0.0875 1.6560
0.4278 0.2573 0.0001 0.0121 33.0000 1.4945
0.0194 1468.0000
529.0 0.0071 0.0071 62.9103 0.0000 0.1053
0.0000 0.0002 0.5669 0.0000 0.0849 3.2023
0.4331 0.2606 0.0001 0.0124 33.0000 4.9340
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0.0078 1460.0000

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0.0345 1418.0000

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0.0458 1443.0000

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0.0366 1445.0000

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0.0349 1454.0000
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0.0383 1439.0000
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0.0346 1449.0000
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0.0402 1492.0000
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0.0567 1454.0000

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495.0 0.0097 0.0331 51.0554 0.0020 0.1103
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0.0371 1429.0000

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0.0389 1458.0000
478.5 0.0150 0.0205 44.6581 0.0047 0.5946
0.0000 0.0447 0.5759 0.0453 0.0738 2.6467
0.3788 0.2175 0.0001 0.0097 33.0000 11.2993
0.0549 1426.0000
478.0 0.0303 0.0335 45.1340 0.1148 15.2061
0.0000 0.0475 0.5774 0.0529 0.0705 2.5132
0.3698 0.2170 0.0001 0.0090 33.0000 33.3039
0.0713 1461.0000
477.5 0.0025 0.0185 45.3719 0.0001 0.0003
0.0000 0.0367 0.5827 0.0238 0.0756 1.1971
0.3935 0.2240 0.0001 0.0096 33.0000 3.3655
0.0426 1427.0000
477.0 0.0033 0.0266 45.6815 0.0002 0.0019
0.0000 0.0368 0.5870 0.0240 0.0760 1.0270
0.3890 0.2228 0.0001 0.0094 33.0000 7.2562
0.0321 1435.0000
476.5 0.0095 0.0304 45.9200 0.0066 0.2624
0.0000 0.0362 0.5817 0.0224 0.0781 1.1793
0.3960 0.2224 0.0001 0.0100 33.0000 35.6360
0.0337 1418.0000
476.0 0.0159 0.0177 46.2576 0.0002 2.9252
0.0000 0.0590 0.5743 0.0838 0.0719 2.3438
0.3419 0.2028 0.0001 0.0091 33.0000 4.7753
0.0404 1415.0000
475.5 0.0000 0.0121 46.3845 0.0000 0.0000
0.0000 0.0666 0.5630 0.1042 0.0694 3.3392
0.3328 0.1981 0.0001 0.0093 33.0000 3.7050
0.0270 1422.0000

475.0 0.0000 0.0061 46.3074 0.0000 0.0000
0.0000 0.0666 0.5621 0.1041 0.0673 4.3962
0.3338 0.2003 0.0001 0.0090 33.0000 1.5511
0.0362 1421.0000
474.5 0.0000 0.0144 45.5386 0.0000 0.0000
0.0000 0.0513 0.5692 0.0630 0.0698 4.9681
0.3678 0.2147 0.0001 0.0093 33.0000 5.4285
0.0191 1453.0000
474.0 0.0051 0.0226 44.9293 0.0003 0.0126
0.0000 0.0487 0.5811 0.0560 0.0714 4.8865
0.3629 0.2142 0.0001 0.0089 33.0000 7.4636
0.0328 1443.0000
473.5 0.0084 0.0286 46.4309 0.0007 0.0662
0.0000 0.0449 0.5856 0.0459 0.0728 4.1848
0.3685 0.2166 0.0001 0.0089 33.0000 7.3864
0.0429 1423.0000
473.0 0.0112 0.0360 46.2795 0.0023 0.1243
0.0000 0.0368 0.5849 0.0239 0.0738 4.1651
0.3912 0.2252 0.0001 0.0093 33.0000 7.6320
0.0558 1427.0000
472.5 0.0134 0.0375 46.4873 0.0047 0.6212
0.0000 0.0298 0.5778 0.0050 0.0737 4.8059
0.4172 0.2347 0.0001 0.0099 33.0000 16.6052
0.0454 1401.0000
472.0 0.0122 0.0397 45.8157 0.0039 0.2756
0.0000 0.0321 0.5720 0.0113 0.0738 5.5933
0.4166 0.2329 0.0001 0.0102 33.0000 12.4001
0.0501 1423.0000
471.5 0.0105 0.0404 45.2975 0.0020 0.1763
0.0000 0.0425 0.5654 0.0394 0.0729 5.6238
0.3951 0.2226 0.0001 0.0103 33.0000 11.2367
0.0447 1413.0000
471.0 0.0116 0.0371 45.0120 0.0017 0.2506
0.0000 0.0420 0.5635 0.0380 0.0744 4.6369
0.3985 0.2221 0.0001 0.0107 33.0000 9.1457
0.0473 1411.0000
470.5 0.0104 0.0386 43.9413 0.0022 0.1596
0.0000 0.0298 0.5610 0.0053 0.0769 3.0170
0.4338 0.2345 0.0001 0.0114 33.0000 11.1928
0.0456 1484.0000
470.0 0.0166 0.0390 45.8904 0.0075 0.9365
0.0000 0.0155 0.5643 0.0000 0.0799 2.8075
0.4357 0.2478 0.0001 0.0119 33.0000 13.5362
0.0566 1391.0000
469.5 0.0195 0.0419 45.7303 0.0295 1.9725
0.0000 0.0078 0.5582 0.0000 0.0850 3.0944
0.4418 0.2531 0.0001 0.0128 33.0000 24.0134
0.0598 1445.0000
469.0 0.0013 0.0299 47.0734 0.0005 0.0000
0.0000 0.0168 0.5605 0.0000 0.0866 4.9007
0.4395 0.2407 0.0001 0.0125 33.0000 5.1831
0.0472 1412.0000
468.5 0.0000 0.0213 46.7085 0.0001 0.0000
0.0000 0.0373 0.5658 0.0254 0.0829 4.6430
0.4088 0.2193 0.0001 0.0114 33.0000 3.9838
0.0369 1413.0000

468.0 0.0000 0.0211 48.3978 0.0000 0.0000
0.0000 0.0474 0.5815 0.0524 0.0771 4.4003
0.3661 0.2103 0.0001 0.0096 33.0000 5.2907
0.0240 1401.0000
467.5 0.0000 0.0100 47.6767 0.0000 0.0000
0.0000 0.0443 0.5855 0.0441 0.0741 3.2589
0.3704 0.2161 0.0001 0.0091 33.0000 7.1540
0.0115 1394.0000
467.0 0.0000 0.0000 45.2342 0.0000 0.0000
0.0000 0.0249 0.5844 0.0000 0.0792 2.4755
0.4156 0.2342 0.0001 0.0102 33.0000 3.1929
0.0001 1402.0000
466.5 0.0014 0.0039 43.4931 0.0000 0.0000
0.0000 0.0174 0.5700 0.0000 0.0841 2.3660
0.4300 0.2407 0.0001 0.0117 33.0000 23.8854
0.0051 1400.0000
466.0 0.0034 0.0090 43.2775 0.0000 0.0019
0.0000 0.0191 0.5554 0.0000 0.0884 1.8091
0.4446 0.2372 0.0001 0.0129 33.0000 11.1489
0.0156 1405.0000
465.5 0.0098 0.0213 43.8583 0.0007 0.1219
0.0000 0.0315 0.5622 0.0097 0.0825 1.9976
0.4280 0.2271 0.0001 0.0118 33.0000 6.5985
0.0451 1424.0000
465.0 0.0125 0.0268 43.2427 0.0017 0.1420
0.0000 0.0371 0.5707 0.0247 0.0773 1.9009
0.4046 0.2240 0.0001 0.0106 33.0000 4.9826
0.0641 1427.0000
464.5 0.0099 0.0322 43.3221 0.0014 0.0471
0.0000 0.0389 0.5790 0.0295 0.0739 2.2487
0.3914 0.2237 0.0001 0.0096 33.0000 4.6764
0.0633 1404.0000
464.0 0.0051 0.0342 43.8679 0.0013 0.0077
0.0000 0.0310 0.5788 0.0083 0.0771 2.1774
0.4129 0.2299 0.0001 0.0102 33.0000 11.8757
0.0386 1412.0000
463.5 0.0039 0.0306 45.5710 0.0007 0.0044
0.0000 0.0203 0.5747 0.0000 0.0820 0.4684
0.4253 0.2386 0.0001 0.0112 33.0000 14.3012
0.0307 1398.0000
463.0 0.0070 0.0309 45.3726 0.0013 0.0487
0.0000 0.0002 0.5661 0.0000 0.0874 0.0092
0.4339 0.2584 0.0001 0.0126 33.0000 14.6329
0.0351 1391.0000
462.5 0.0047 0.0222 46.7540 0.0002 0.0064
0.0000 0.0126 0.5737 0.0000 0.0850 0.0089
0.4263 0.2449 0.0001 0.0116 33.0000 5.6470
0.0367 1415.0000
462.0 0.0038 0.0203 48.4511 0.0001 0.0030
0.0000 0.0246 0.5784 0.0000 0.0832 0.5010
0.4216 0.2318 0.0001 0.0109 33.0000 5.1580
0.0330 1380.0000
461.5 0.0017 0.0174 47.8767 0.0001 0.0002
0.0000 0.0441 0.5793 0.0437 0.0816 1.7763
0.3770 0.2103 0.0001 0.0102 33.0000 8.4361
0.0230 1440.0000

461.0	0.0055	0.0199	47.1499	0.0004	0.0236
0.0000	0.0352	0.5733	0.0198	0.0837	0.3818
0.4070	0.2198	0.0001	0.0110	33.0000	22.7459
0.0206	1415.0000				
460.5	0.0067	0.0192	46.0579	0.0003	0.0634
0.0000	0.0294	0.5685	0.0041	0.0824	0.0085
0.4273	0.2286	0.0001	0.0114	33.0000	17.7632
0.0226	1407.0000				
460.0	0.0094	0.0191	46.2728	0.0002	0.2491
0.0000	0.0370	0.5681	0.0245	0.0759	0.0082
0.4074	0.2259	0.0001	0.0107	33.0000	13.7947
0.0227	1410.0000				
459.5	0.0074	0.0189	47.4399	0.0001	0.0928
0.0000	0.0436	0.5741	0.0424	0.0735	0.0080
0.3836	0.2193	0.0001	0.0098	33.0000	6.0291
0.0313	1378.0000				
459.0	0.0038	0.0190	46.8744	0.0001	0.0026
0.0000	0.0439	0.5816	0.0432	0.0755	0.3039
0.3752	0.2158	0.0001	0.0095	33.0000	3.9262
0.0363	1413.0000				
458.5	0.0027	0.0209	48.4509	0.0002	0.0004
0.0000	0.0286	0.5864	0.0020	0.0820	0.0086
0.4116	0.2269	0.0001	0.0102	33.0000	3.8900
0.0424	1391.0000				
458.0	0.0003	0.0150	47.4446	0.0000	0.0000
0.0000	0.0219	0.5808	0.0000	0.0823	0.0089
0.4192	0.2354	0.0001	0.0107	33.0000	3.1214
0.0287	1416.0000				
457.5	0.0014	0.0134	47.1705	0.0000	0.0000
0.0000	0.0229	0.5775	0.0000	0.0805	0.0089
0.4225	0.2364	0.0001	0.0108	33.0000	2.9128
0.0329	1396.0000				
457.0	0.0013	0.0097	46.1792	0.0000	0.0000
0.0000	0.0201	0.5718	0.0000	0.0802	0.0092
0.4282	0.2410	0.0001	0.0113	33.0000	2.6731
0.0270	1433.0000				
456.5	0.0013	0.0066	45.3247	0.0000	0.0000
0.0000	0.0222	0.5716	0.0000	0.0825	0.0094
0.4284	0.2364	0.0001	0.0114	33.0000	2.1744
0.0277	1420.0000				
456.0	0.0020	0.0069	45.7920	0.0000	0.0003
0.0000	0.0191	0.5672	0.0000	0.0872	0.0096
0.4328	0.2364	0.0001	0.0120	33.0000	2.3123
0.0248	1378.0000				
455.5	0.0071	0.0076	45.9557	0.0000	0.1018
0.0000	0.0270	0.5631	0.0000	0.0899	0.0095
0.4369	0.2254	0.0001	0.0121	33.0000	3.3753
0.0250	1446.0000				
455.0	0.0070	0.0152	46.3839	0.0002	0.0634
0.0000	0.0305	0.5631	0.0072	0.0880	0.0093
0.4298	0.2230	0.0001	0.0120	33.0000	6.3723
0.0318	1417.0000				
454.5	0.0037	0.0124	46.2838	0.0001	0.0035
0.0000	0.0415	0.5710	0.0365	0.0787	0.5206
0.3925	0.2176	0.0001	0.0106	33.0000	4.4594
0.0302	1377.0000				

454.0 0.0000 0.0135 46.1698 0.0000 0.0000
0.0000 0.0447 0.5724 0.0452 0.0715 1.5186
0.3824 0.2203 0.0001 0.0096 33.0000 4.2036
0.0172 1407.0000
453.5 0.0000 0.0144 46.3381 0.0000 0.0000
0.0000 0.0431 0.5695 0.0410 0.0702 1.8877
0.3894 0.2237 0.0001 0.0096 33.0000 4.6241
0.0159 1380.0000
453.0 0.0000 0.0167 47.0297 0.0000 0.0000
0.0000 0.0347 0.5654 0.0185 0.0752 1.5671
0.4161 0.2295 0.0001 0.0108 33.0000 4.6579
0.0231 1412.0000
452.5 0.0015 0.0074 46.4290 0.0000 0.0001
0.0000 0.0341 0.5633 0.0167 0.0793 2.2162
0.4200 0.2269 0.0001 0.0114 33.0000 2.6879
0.0274 1435.0000
452.0 0.0011 0.0078 47.3799 0.0000 0.0000
0.0000 0.0325 0.5688 0.0124 0.0817 2.2757
0.4188 0.2256 0.0001 0.0112 33.0000 2.8709
0.0228 1401.0000
451.5 0.0058 0.0147 48.2554 0.0004 0.0251
0.0000 0.0405 0.5842 0.0341 0.0793 3.3878
0.3817 0.2158 0.0001 0.0098 33.0000 27.3708
0.0188 1397.0000
451.0 0.0068 0.0193 48.4506 0.0009 0.0660
0.0000 0.0416 0.5942 0.0368 0.0777 4.1405
0.3690 0.2145 0.0001 0.0090 33.0000 30.0026
0.0221 1465.0000
450.5 0.0000 0.0180 47.0263 0.0000 0.0000
0.0000 0.0481 0.6012 0.0545 0.0764 5.6779
0.3443 0.2069 0.0001 0.0082 33.0000 4.8680
0.0218 1380.0000
450.0 0.0000 0.0136 44.6522 0.0000 0.0000
0.0000 0.0392 0.6022 0.0303 0.0781 5.5876
0.3675 0.2157 0.0001 0.0086 33.0000 2.8646
0.0246 1422.0000
449.5 0.0000 0.0162 44.9763 0.0000 0.0000
0.0000 0.0311 0.6009 0.0088 0.0799 5.2808
0.3903 0.2236 0.0001 0.0090 33.0000 3.7399
0.0194 1380.0000
449.0 0.0010 0.0061 45.5389 0.0000 0.0000
0.0000 0.0163 0.5973 0.0000 0.0811 2.1907
0.4027 0.2403 0.0001 0.0097 33.0000 3.3374
0.0116 1394.0000
448.5 0.0000 0.0139 46.8795 0.0000 0.0000
0.0000 0.0027 0.5886 0.0000 0.0855 0.0087
0.4114 0.2535 0.0001 0.0109 33.0000 7.1096
0.0152 1395.0000
448.0 0.0028 0.0159 45.1851 0.0000 0.0014
0.0000 0.0002 0.5749 0.0000 0.0901 0.0089
0.4251 0.2544 0.0001 0.0120 33.0000 3.9764
0.0256 1406.0000
447.5 0.0036 0.0203 44.6687 0.0001 0.0061
0.0000 0.0002 0.5587 0.0000 0.0964 0.0091
0.4413 0.2513 0.0001 0.0131 33.0000 7.7523
0.0236 1402.0000

447.0 0.0059 0.0170 41.7961 0.0001 0.0476
0.0000 0.0066 0.5644 0.0000 0.0963 0.0090
0.4356 0.2430 0.0001 0.0126 33.0000 6.5014
0.0266 1389.0000
446.5 0.0036 0.0177 43.9458 0.0001 0.0054
0.0000 0.0197 0.5806 0.0000 0.0895 1.1083
0.4194 0.2313 0.0001 0.0111 33.0000 8.9264
0.0231 1405.0000
446.0 0.0028 0.0213 45.2979 0.0001 0.0018
0.0000 0.0274 0.5891 0.0000 0.0843 1.9969
0.4109 0.2257 0.0001 0.0102 33.0000 10.5877
0.0215 1388.0000
445.5 0.0024 0.0234 45.9707 0.0001 0.0010
0.0000 0.0189 0.5874 0.0000 0.0869 2.1642
0.4126 0.2336 0.0001 0.0106 33.0000 10.3874
0.0235 1416.0000
445.0 0.0057 0.0239 45.7607 0.0002 0.0386
0.0000 0.0163 0.5823 0.0000 0.0877 1.6816
0.4177 0.2367 0.0001 0.0110 33.0000 11.8623
0.0245 1431.0000
444.5 0.0046 0.0244 45.6949 0.0002 0.0060
0.0000 0.0244 0.5839 0.0000 0.0844 0.7946
0.4161 0.2300 0.0001 0.0106 33.0000 4.6379
0.0366 1406.0000
444.0 0.0065 0.0232 48.1392 0.0002 0.0245
0.0000 0.0336 0.5829 0.0154 0.0777 0.3396
0.4017 0.2257 0.0001 0.0099 33.0000 4.2438
0.0386 1422.0000
443.5 0.0038 0.0246 47.4153 0.0002 0.0021
0.0000 0.0470 0.5797 0.0516 0.0716 0.4000
0.3687 0.2161 0.0001 0.0090 33.0000 4.7249
0.0389 1413.0000
443.0 0.0042 0.0246 45.7842 0.0004 0.0048
0.0000 0.0550 0.5779 0.0731 0.0675 0.8002
0.3490 0.2110 0.0001 0.0082 33.0000 9.0263
0.0338 1336.0000
442.5 0.0044 0.0180 45.2492 0.0002 0.0056
0.0000 0.0658 0.5870 0.1021 0.0669 1.9337
0.3109 0.1974 0.0001 0.0072 33.0000 6.6906
0.0338 1384.0000
442.0 0.0033 0.0144 46.3787 0.0001 0.0012
0.0000 0.0629 0.5967 0.0942 0.0702 2.9138
0.3091 0.1962 0.0001 0.0073 33.0000 3.1965
0.0385 1371.0000
441.5 0.0082 0.0136 47.8616 0.0001 0.1208
0.0000 0.0486 0.5961 0.0556 0.0798 3.1150
0.3483 0.2041 0.0001 0.0089 33.0000 4.5813
0.0335 1366.0000
441.0 0.0083 0.0259 48.1470 0.0010 0.1142
0.0000 0.0273 0.5774 0.0000 0.0889 2.4702
0.4226 0.2235 0.0001 0.0111 33.0000 12.9905
0.0351 1377.0000
440.5 0.0082 0.0284 48.1064 0.0011 0.0533
0.0000 0.0164 0.5665 0.0000 0.0949 0.3511
0.4335 0.2324 0.0001 0.0122 33.0000 8.3880
0.0441 1346.0000

440.0 0.0079 0.0293 46.8918 0.0007 0.0525
0.0000 0.0229 0.5860 0.0000 0.0897 0.0093
0.4140 0.2265 0.0001 0.0107 33.0000 7.6735
0.0418 1340.0000
439.5 0.0060 0.0283 47.0315 0.0003 0.0121
0.0000 0.0244 0.6009 0.0000 0.0866 0.0089
0.3991 0.2252 0.0001 0.0096 33.0000 4.8671
0.0436 1375.0000
439.0 0.0102 0.0303 45.9782 0.0007 0.1734
0.0000 0.0296 0.6151 0.0047 0.0810 0.0082
0.3802 0.2220 0.0001 0.0082 33.0000 7.3352
0.0431 1382.0000
438.5 0.0096 0.0282 47.7954 0.0010 0.0511
0.0000 0.0352 0.6184 0.0197 0.0764 0.0078
0.3620 0.2192 0.0001 0.0075 33.0000 4.5787
0.0581 1431.0000
438.0 0.0137 0.0241 49.2780 0.0008 0.3141
0.0000 0.0486 0.6130 0.0556 0.0736 0.0076
0.3314 0.2071 0.0001 0.0071 33.0000 4.3179
0.0574 1395.0000
437.5 0.0133 0.0230 49.2026 0.0005 0.4029
0.0000 0.0498 0.6012 0.0589 0.0745 0.0079
0.3399 0.2068 0.0001 0.0080 33.0000 4.3489
0.0510 1415.0000
437.0 0.0122 0.0212 49.2802 0.0004 0.3056
0.0000 0.0440 0.5936 0.0434 0.0782 0.0084
0.3630 0.2113 0.0001 0.0090 33.0000 4.2000
0.0484 1377.0000
436.5 0.0077 0.0209 47.9463 0.0003 0.0537
0.0000 0.0177 0.5941 0.0000 0.0835 0.0090
0.4059 0.2370 0.0001 0.0100 33.0000 5.7295
0.0393 1397.0000
436.0 0.0103 0.0178 50.0236 0.0003 0.2417
0.0000 0.0002 0.5990 0.0000 0.0862 0.0095
0.4010 0.2540 0.0001 0.0103 33.0000 5.8038
0.0393 1377.0000
435.5 0.0136 0.0202 50.5778 0.0005 1.7620
0.0000 0.0002 0.5934 0.0000 0.0864 0.0097
0.4066 0.2548 0.0001 0.0107 33.0000 8.4724
0.0361 1367.0000
435.0 0.0154 0.0312 50.9684 0.0015 0.8972
0.0000 0.0031 0.5881 0.0000 0.0887 0.0098
0.4119 0.2502 0.0001 0.0110 33.0000 7.3668
0.0512 1370.0000
434.5 0.0149 0.0373 51.4382 0.0024 0.3311
0.0000 0.0188 0.5849 0.0000 0.0862 0.0091
0.4151 0.2346 0.0001 0.0108 33.0000 5.8753
0.0648 1362.0000
434.0 0.0162 0.0410 50.6544 0.0049 0.5385
0.0000 0.0317 0.5902 0.0103 0.0810 0.0083
0.3994 0.2236 0.0001 0.0098 33.0000 8.4787
0.0642 1384.0000
433.5 0.0168 0.0340 49.8296 0.0045 1.0197
0.0000 0.0225 0.5927 0.0000 0.0789 0.0083
0.4073 0.2359 0.0001 0.0097 33.0000 10.4458
0.0566 1391.0000

433.0 0.0135 0.0371 48.4174 0.0046 0.6239
0.0000 0.0186 0.5962 0.0000 0.0766 1.8021
0.4038 0.2420 0.0001 0.0093 33.0000 15.9856
0.0461 1377.0000
432.5 0.0102 0.0349 46.9758 0.0015 0.1229
0.0000 0.0099 0.5941 0.0000 0.0765 3.3148
0.4059 0.2526 0.0001 0.0097 33.0000 8.2835
0.0480 1346.0000
432.0 0.0143 0.0268 47.6103 0.0015 2.4732
0.0000 0.0196 0.5906 0.0000 0.0760 2.7606
0.4094 0.2422 0.0001 0.0096 33.0000 20.0616
0.0308 1380.0000
431.5 0.0192 0.0192 49.3768 0.0043 3.1036
0.0000 0.0119 0.5840 0.0000 0.0795 0.9746
0.4160 0.2491 0.0001 0.0106 33.0000 88.9604
0.0192 1380.0000
431.0 0.0173 0.0174 51.8882 0.0024 1.8304
0.0000 0.0012 0.5793 0.0000 0.0827 0.0098
0.4207 0.2595 0.0001 0.0114 33.0000 76.3473
0.0180 1372.0000
430.5 0.0174 0.0212 53.3070 0.0036 2.5535
0.0000 0.0002 0.5674 0.0000 0.0822 0.0098
0.4326 0.2630 0.0001 0.0122 33.0000 66.3712
0.0212 1380.0000
430.0 0.0158 0.0327 54.5736 0.0044 4.9102
0.0000 0.0002 0.5547 0.0000 0.0833 0.8763
0.4453 0.2641 0.0001 0.0132 33.0000 25.5371
0.0360 1339.0000
429.5 0.0127 0.0285 56.5415 0.0016 0.6267
0.0000 0.0101 0.5462 0.0000 0.0844 2.8588
0.4538 0.2530 0.0001 0.0136 33.0000 11.3151
0.0421 1391.0000
429.0 0.0116 0.0241 58.2955 0.0011 0.2489
0.0000 0.0321 0.5468 0.0114 0.0822 3.4810
0.4418 0.2293 0.0001 0.0129 33.0000 7.3075
0.0474 1386.0000
428.5 0.0070 0.0201 59.3536 0.0003 0.0321
0.0000 0.0428 0.5598 0.0402 0.0787 1.8819
0.3999 0.2178 0.0001 0.0114 33.0000 5.3300
0.0401 1426.0000
428.0 0.0078 0.0227 60.9084 0.0003 0.0225
0.0000 0.0445 0.5662 0.0446 0.0763 0.7007
0.3892 0.2171 0.0001 0.0106 33.0000 2.9502
0.0556 1366.0000
427.5 0.0069 0.0225 61.8338 0.0002 0.0195
0.0000 0.0375 0.5738 0.0259 0.0733 0.7434
0.4003 0.2267 0.0001 0.0099 33.0000 3.4268
0.0470 1387.0000
427.0 0.0087 0.0232 62.2699 0.0003 0.0730
0.0000 0.0334 0.5730 0.0150 0.0736 1.7092
0.4120 0.2313 0.0001 0.0101 33.0000 4.3193
0.0434 1404.0000
426.5 0.0098 0.0231 59.9620 0.0003 0.2223
0.0000 0.0264 0.5814 0.0000 0.0735 2.5364
0.4186 0.2382 0.0001 0.0097 33.0000 6.3946
0.0373 1380.0000

426.0	0.0086	0.0302	60.2129	0.0009	0.0332	0.0000	0.0236	0.5836	0.0000	0.0754	2.8282
0.4164	0.2394	0.0001	0.0099	33.0000	4.6798	0.0565	1385.0000				
425.5	0.0075	0.0272	59.1425	0.0008	0.0154	0.0000	0.0315	0.5845	0.0096	0.0752	3.6097
0.4059	0.2302	0.0001	0.0096	33.0000	3.9529	0.0593	1380.0000				
425.0	0.0069	0.0306	60.8602	0.0015	0.0164	0.0000	0.0364	0.5719	0.0230	0.0783	4.5279
0.4051	0.2236	0.0001	0.0107	33.0000	7.6904	0.0503	1363.0000				
424.5	0.0064	0.0223	62.6619	0.0002	0.0682	0.0000	0.0335	0.5578	0.0151	0.0829	5.3439
0.4271	0.2251	0.0001	0.0121	33.0000	9.9815	0.0273	1370.0000				
424.0	0.0066	0.0234	63.6596	0.0002	0.0409	0.0000	0.0102	0.5465	0.0000	0.0880	6.3099
0.4535	0.2495	0.0001	0.0137	33.0000	6.8951	0.0332	1368.0000				
423.5	0.0081	0.0169	65.0873	0.0001	0.0930	0.0000	0.0002	0.5497	0.0000	0.0872	5.7312
0.4503	0.2614	0.0001	0.0137	33.0000	4.6545	0.0358	1378.0000				
423.0	0.0060	0.0171	64.8169	0.0002	0.0219	0.0000	0.0002	0.5623	0.0000	0.0834	4.1696
0.4377	0.2628	0.0001	0.0127	33.0000	5.1294	0.0353	1350.0000				
422.5	0.0071	0.0214	66.5511	0.0004	0.1129	0.0000	0.0011	0.5692	0.0000	0.0848	2.6512
0.4308	0.2593	0.0001	0.0122	33.0000	12.7780	0.0275	1344.0000				
422.0	0.0089	0.0252	66.1082	0.0004	0.2962	0.0000	0.0248	0.5761	0.0000	0.0828	2.3582
0.4239	0.2323	0.0001	0.0110	33.0000	13.6515	0.0278	1353.0000				
421.5	0.0099	0.0254	64.4707	0.0005	0.4296	0.0000	0.0445	0.5729	0.0448	0.0841	3.5183
0.3823	0.2086	0.0001	0.0108	33.0000	14.9728	0.0268	1330.0000				
421.0	0.0074	0.0213	63.8211	0.0003	0.1002	0.0000	0.0574	0.5692	0.0795	0.0844	4.8666
0.3513	0.1938	0.0001	0.0107	33.0000	15.7995	0.0234	1360.0000				
420.5	0.0067	0.0166	62.2987	0.0002	0.0366	0.0000	0.0600	0.5668	0.0864	0.0824	6.3930
0.3468	0.1931	0.0001	0.0107	33.0000	25.5668	0.0172	1355.0000				
420.0	0.0081	0.0150	61.7506	0.0001	0.1866	0.0000	0.0525	0.5734	0.0662	0.0774	6.6874
0.3603	0.2054	0.0001	0.0100	33.0000	5.7098	0.0293	1338.0000				
419.5	0.0087	0.0140	60.6395	0.0001	0.1466	0.0000	0.0445	0.5781	0.0447	0.0743	5.5628
0.3771	0.2169	0.0001	0.0096	33.0000	4.0208	0.0351	1341.0000				

419.0 0.0090 0.0172 62.1559 0.0002 0.0742
0.0000 0.0279 0.5776 0.0001 0.0742 2.9938
0.4223 0.2364 0.0001 0.0100 33.0000 3.1774
0.0464 1324.0000
418.5 0.0086 0.0151 61.7163 0.0001 0.1144
0.0000 0.0199 0.5711 0.0000 0.0779 1.5486
0.4289 0.2434 0.0001 0.0111 33.0000 3.6131
0.0373 1313.0000
418.0 0.0074 0.0175 60.4920 0.0001 0.0688
0.0000 0.0133 0.5728 0.0000 0.0787 1.6798
0.4272 0.2500 0.0001 0.0112 33.0000 4.6652
0.0337 1347.0000
417.5 0.0037 0.0232 59.8736 0.0003 0.0061
0.0000 0.0195 0.5727 0.0000 0.0791 4.2830
0.4273 0.2425 0.0001 0.0111 33.0000 15.1890
0.0240 1328.0000
417.0 0.0041 0.0267 61.3809 0.0003 0.0064
0.0000 0.0229 0.5762 0.0000 0.0782 5.4238
0.4238 0.2387 0.0001 0.0107 33.0000 9.7700
0.0290 1359.0000
416.5 0.0061 0.0249 61.5150 0.0003 0.0151
0.0000 0.0230 0.5650 0.0000 0.0827 6.2233
0.4350 0.2364 0.0001 0.0118 33.0000 4.8150
0.0411 1362.0000
416.0 0.0064 0.0275 60.2663 0.0003 0.0263
0.0000 0.0268 0.5624 0.0000 0.0858 5.0322
0.4376 0.2295 0.0001 0.0121 33.0000 6.5985
0.0365 1302.0000
415.5 0.0076 0.0284 58.0145 0.0008 0.0294
0.0000 0.0236 0.5539 0.0000 0.0874 3.9842
0.4461 0.2331 0.0001 0.0128 33.0000 6.2311
0.0482 1398.0000
415.0 0.0104 0.0310 57.1056 0.0025 0.2778
0.0000 0.0332 0.5633 0.0142 0.0822 2.6205
0.4225 0.2252 0.0001 0.0116 33.0000 17.0275
0.0382 1312.0000
414.5 0.0131 0.0242 57.6800 0.0027 1.0710
0.0000 0.0293 0.5673 0.0039 0.0797 0.9702
0.4288 0.2314 0.0001 0.0113 33.0000 17.5487
0.0383 1308.0000
414.0 0.0057 0.0197 58.7224 0.0003 0.0351
0.0000 0.0340 0.5759 0.0164 0.0772 0.5415
0.4077 0.2268 0.0001 0.0103 33.0000 17.7073
0.0228 1345.0000
413.5 0.0043 0.0169 60.5071 0.0001 0.0087
0.0000 0.0240 0.5790 0.0000 0.0768 0.0081
0.4210 0.2383 0.0001 0.0104 33.0000 5.5775
0.0280 1324.0000
413.0 0.0058 0.0206 61.9669 0.0003 0.0165
0.0000 0.0242 0.5778 0.0000 0.0760 0.9019
0.4222 0.2390 0.0001 0.0103 33.0000 6.3893
0.0366 1303.0000
412.5 0.0056 0.0224 61.9798 0.0003 0.0114
0.0000 0.0168 0.5782 0.0000 0.0766 0.7097
0.4218 0.2471 0.0001 0.0106 33.0000 5.3525
0.0404 1346.0000

412.0 0.0045 0.0205 60.6534 0.0003 0.0063
0.0000 0.0179 0.5811 0.0000 0.0800 2.0813
0.4189 0.2422 0.0001 0.0107 33.0000 7.4235
0.0337 1351.0000
411.5 0.0063 0.0255 60.6218 0.0012 0.0238
0.0000 0.0170 0.5874 0.0000 0.0835 2.5185
0.4126 0.2389 0.0001 0.0105 33.0000 12.6082
0.0374 1297.0000
411.0 0.0047 0.0256 60.5124 0.0015 0.0084
0.0000 0.0282 0.5914 0.0008 0.0843 4.1512
0.4079 0.2245 0.0001 0.0100 33.0000 17.8415
0.0330 1303.0000
410.5 0.0068 0.0300 61.7923 0.0020 0.0298
0.0000 0.0334 0.5955 0.0150 0.0798 3.7735
0.3895 0.2218 0.0001 0.0093 33.0000 14.9613
0.0389 1324.0000
410.0 0.0125 0.0227 60.6320 0.0004 0.5875
0.0000 0.0351 0.5938 0.0195 0.0751 3.0010
0.3868 0.2245 0.0001 0.0089 33.0000 5.4933
0.0418 1340.0000
409.5 0.0052 0.0230 61.4504 0.0004 0.0032
0.0000 0.0200 0.5941 0.0000 0.0756 1.0102
0.4059 0.2417 0.0001 0.0093 33.0000 3.0116
0.0567 1268.0000
409.0 0.0030 0.0217 60.7557 0.0003 0.0004
0.0000 0.0073 0.5869 0.0000 0.0815 0.4939
0.4131 0.2521 0.0001 0.0107 33.0000 2.8155
0.0531 1328.0000
408.5 0.0000 0.0301 61.3500 0.0005 0.0000
0.0000 0.0002 0.5750 0.0000 0.0874 0.2745
0.4250 0.2570 0.0001 0.0119 33.0000 3.6523
0.0540 1321.0000
408.0 0.0113 0.0414 59.7382 0.0057 0.1171
0.0000 0.0002 0.5643 0.0000 0.0902 0.8017
0.4357 0.2562 0.0001 0.0128 33.0000 11.3733
0.0577 1327.0000
407.5 0.0150 0.0389 60.7599 0.0074 0.3568
0.0000 0.0011 0.5745 0.0000 0.0896 0.0176
0.4255 0.2539 0.0001 0.0120 33.0000 10.4236
0.0643 1300.0000
407.0 0.0099 0.0352 59.8880 0.0018 0.1281
0.0000 0.0192 0.5903 0.0000 0.0830 0.0085
0.4097 0.2363 0.0001 0.0102 33.0000 10.2679
0.0452 1289.0000
406.5 0.0093 0.0253 62.0959 0.0007 0.0820
0.0000 0.0318 0.6022 0.0105 0.0777 0.0080
0.3873 0.2246 0.0001 0.0087 33.0000 5.8020
0.0469 1317.0000
406.0 0.0066 0.0281 61.5803 0.0004 0.0374
0.0000 0.0278 0.6019 0.0000 0.0761 0.0081
0.3981 0.2308 0.0001 0.0087 33.0000 8.3425
0.0349 1307.0000
405.5 0.0057 0.0190 61.8295 0.0002 0.0123
0.0000 0.0068 0.5904 0.0000 0.0797 0.0089
0.4096 0.2538 0.0001 0.0103 33.0000 3.9231
0.0395 1310.0000

405.0	0.0048	0.0198	60.3113	0.0001	0.0169	0.0000	0.0002	0.5702	0.0000	0.0819	0.0093
0.4298	0.2628	0.0001	0.0120	33.0000	11.0574	0.0222	1306.0000				
404.5	0.0052	0.0176	60.5396	0.0002	0.0131	0.0000	0.0027	0.5564	0.0000	0.0836	0.0094
0.4436	0.2606	0.0001	0.0130	33.0000	6.9746	0.0332	1323.0000				
404.0	0.0081	0.0253	60.6639	0.0020	0.0513	0.0000	0.0217	0.5541	0.0000	0.0803	2.8472
0.4459	0.2420	0.0001	0.0125	33.0000	11.8320	0.0433	1307.0000				
403.5	0.0143	0.0246	59.7760	0.0027	0.6423	0.0000	0.0303	0.5537	0.0065	0.0777	4.4535
0.4398	0.2344	0.0001	0.0120	33.0000	10.5367	0.0498	1278.0000				
403.0	0.0140	0.0251	58.8847	0.0021	0.5802	0.0000	0.0218	0.5548	0.0000	0.0805	5.9302
0.4452	0.2416	0.0001	0.0124	33.0000	9.0646	0.0500	1289.0000				
402.5	0.0129	0.0202	58.3915	0.0005	0.3295	0.0000	0.0078	0.5614	0.0000	0.0826	3.6888
0.4386	0.2547	0.0001	0.0125	33.0000	4.1434	0.0518	1300.0000				
402.0	0.0079	0.0268	60.0053	0.0005	0.0531	0.0000	0.0042	0.5758	0.0000	0.0813	2.1387
0.4242	0.2578	0.0001	0.0115	33.0000	6.2259	0.0415	1300.0000				
401.5	0.0099	0.0318	59.1546	0.0006	0.1465	0.0000	0.0115	0.5853	0.0000	0.0775	0.5044
0.4147	0.2513	0.0001	0.0103	33.0000	6.7944	0.0430	1300.0000				
401.0	0.0075	0.0234	60.1540	0.0003	0.0366	0.0000	0.0302	0.5869	0.0062	0.0724	1.1712
0.4070	0.2339	0.0001	0.0091	33.0000	4.9653	0.0429	1293.0000				
400.5	0.0100	0.0276	59.0700	0.0034	0.4952	0.0000	0.0396	0.5817	0.0316	0.0712	1.3105
0.3868	0.2249	0.0001	0.0090	33.0000	36.7441	0.0282	1295.0000				
400.0	0.0087	0.0248	61.2712	0.0008	0.1791	0.0000	0.0409	0.5802	0.0351	0.0697	1.3856
0.3847	0.2250	0.0001	0.0088	33.0000	12.9417	0.0329	1303.0000				
399.5	0.0104	0.0218	61.2850	0.0008	0.1213	0.0000	0.0363	0.5784	0.0226	0.0715	0.8758
0.3990	0.2291	0.0001	0.0094	33.0000	5.6437	0.0494	1269.0000				
399.0	0.0059	0.0244	62.8319	0.0005	0.0060	0.0000	0.0355	0.5752	0.0205	0.0749	0.7161
0.4044	0.2274	0.0001	0.0101	33.0000	3.4305	0.0562	1270.0000				
398.5	0.0092	0.0237	62.9365	0.0006	0.0780	0.0000	0.0400	0.5607	0.0326	0.0805	0.0084
0.4067	0.2193	0.0001	0.0115	33.0000	5.5871	0.0470	1286.0000				

398.0 0.0096 0.0297 62.4366 0.0012 0.1907
0.0000 0.0430 0.5502 0.0406 0.0838 0.0084
0.4092 0.2146 0.0001 0.0124 33.0000 11.8244
0.0379 1293.0000
397.5 0.0165 0.0238 62.9265 0.0029 4.3613
0.0000 0.0457 0.5508 0.0480 0.0833 0.0083
0.4012 0.2117 0.0001 0.0123 33.0000 29.1671
0.0305 1278.0000
397.0 0.0154 0.0178 63.9428 0.0004 3.9158
0.0000 0.0447 0.5557 0.0453 0.0819 0.0084
0.3990 0.2133 0.0001 0.0119 33.0000 7.8016
0.0362 1306.0000
396.5 0.0096 0.0207 65.2867 0.0004 0.2335
0.0000 0.0416 0.5576 0.0369 0.0816 0.0087
0.4054 0.2169 0.0001 0.0118 33.0000 23.2536
0.0210 1303.0000
396.0 0.0099 0.0266 63.8406 0.0007 0.4582
0.0000 0.0302 0.5591 0.0061 0.0825 0.0089
0.4348 0.2292 0.0001 0.0120 33.0000 17.0915
0.0274 1297.0000
395.5 0.0096 0.0276 64.1350 0.0008 0.4085
0.0000 0.0351 0.5700 0.0194 0.0799 1.5339
0.4106 0.2240 0.0001 0.0110 33.0000 18.6654
0.0276 1290.0000
395.0 0.0119 0.0205 64.1243 0.0003 1.1917
0.0000 0.0323 0.5804 0.0119 0.0795 2.2698
0.4076 0.2259 0.0001 0.0103 33.0000 9.1667
0.0306 1284.0000
394.5 0.0105 0.0200 63.8479 0.0002 0.6227
0.0000 0.0326 0.5786 0.0127 0.0805 3.5457
0.4087 0.2250 0.0001 0.0105 33.0000 9.0429
0.0289 1271.0000
394.0 0.0095 0.0215 62.5053 0.0006 0.1710
0.0000 0.0102 0.5694 0.0000 0.0861 3.5545
0.4306 0.2473 0.0001 0.0120 33.0000 7.9983
0.0387 1260.0000
393.5 0.0088 0.0307 62.3206 0.0025 0.1445
0.0000 0.0040 0.5662 0.0000 0.0867 3.1465
0.4338 0.2546 0.0001 0.0124 33.0000 19.6946
0.0358 1289.0000
393.0 0.0069 0.0296 63.0227 0.0030 0.0420
0.0000 0.0078 0.5832 0.0000 0.0826 1.7929
0.4168 0.2512 0.0001 0.0110 33.0000 21.2068
0.0359 1316.0000
392.5 0.0081 0.0288 64.5938 0.0024 0.0532
0.0000 0.0263 0.5957 0.0000 0.0764 1.7275
0.4043 0.2333 0.0001 0.0091 33.0000 12.8783
0.0436 1285.0000
392.0 0.0102 0.0297 62.9077 0.0027 0.1344
0.0000 0.0425 0.5988 0.0392 0.0734 2.9669
0.3620 0.2167 0.0001 0.0082 33.0000 12.0463
0.0465 1311.0000
391.5 0.0081 0.0287 61.6791 0.0006 0.0509
0.0000 0.0480 0.5921 0.0540 0.0764 4.1161
0.3539 0.2086 0.0001 0.0088 33.0000 6.5726
0.0439 1300.0000

391.0	0.0097	0.0239	60.1409	0.0003	0.2142
0.0000	0.0466	0.5802	0.0502	0.0808	3.9129
0.3696	0.2081	0.0001	0.0100	33.0000	5.7985
0.0375	1307.0000				
390.5	0.0082	0.0270	61.2105	0.0004	0.0529
0.0000	0.0354	0.5707	0.0201	0.0849	2.2663
0.4092	0.2189	0.0001	0.0112	33.0000	4.9413
0.0445	1290.0000				
390.0	0.0093	0.0273	62.3614	0.0005	0.0600
0.0000	0.0376	0.5753	0.0262	0.0825	1.3101
0.3984	0.2177	0.0001	0.0107	33.0000	4.1032
0.0520	1289.0000				
389.5	0.0142	0.0346	62.1928	0.0017	0.4611
0.0000	0.0419	0.5822	0.0377	0.0810	1.8119
0.3801	0.2131	0.0001	0.0100	33.0000	7.0160
0.0541	1292.0000				
389.0	0.0167	0.0392	61.0698	0.0054	1.2751
0.0000	0.0438	0.5803	0.0429	0.0800	3.7243
0.3767	0.2120	0.0001	0.0100	33.0000	13.0499
0.0531	1300.0000				
388.5	0.0204	0.0371	62.6986	0.0123	13.7236
0.0000	0.0340	0.5767	0.0164	0.0807	4.0104
0.4069	0.2235	0.0001	0.0106	33.0000	31.1040
0.0423	1310.0000				
388.0	0.0127	0.0332	62.9895	0.0098	1.4666
0.0000	0.0215	0.5740	0.0000	0.0795	4.2348
0.4260	0.2396	0.0001	0.0110	33.0000	43.1426
0.0339	1316.0000				
387.5	0.0087	0.0281	64.6272	0.0021	0.1196
0.0000	0.0239	0.5792	0.0000	0.0786	4.4509
0.4208	0.2367	0.0001	0.0105	33.0000	16.6520
0.0370	1341.0000				
387.0	0.0000	0.0227	64.7270	0.0001	0.0000
0.0000	0.0308	0.5800	0.0078	0.0777	6.1523
0.4121	0.2294	0.0001	0.0102	33.0000	4.1198
0.0338	1294.0000				
386.5	0.0000	0.0213	67.4273	0.0001	0.0000
0.0000	0.0433	0.5788	0.0416	0.0776	7.1828
0.3796	0.2151	0.0001	0.0099	33.0000	3.6907
0.0377	1294.0000				
386.0	0.0000	0.0218	67.6852	0.0001	0.0000
0.0000	0.0469	0.5780	0.0511	0.0764	6.8663
0.3709	0.2122	0.0001	0.0098	33.0000	3.1575
0.0399	1308.0000				
385.5	0.0056	0.0261	69.0106	0.0008	0.0125
0.0000	0.0462	0.5799	0.0492	0.0744	4.9813
0.3710	0.2145	0.0001	0.0094	33.0000	9.5976
0.0380	1257.0000				
385.0	0.0087	0.0216	67.9616	0.0027	0.1855
0.0000	0.0394	0.5850	0.0311	0.0713	3.3211
0.3839	0.2245	0.0001	0.0088	33.0000	48.9099
0.0230	1254.0000				
384.5	0.0000	0.0081	70.2685	0.0000	0.0000
0.0000	0.0302	0.5871	0.0063	0.0695	1.3561
0.4065	0.2365	0.0001	0.0086	33.0000	13.1402
0.0081	1259.0000				

384.0	0.0021	0.0021	70.7414	0.0000	0.0005	0.0000	0.0307	0.5902	0.0077	0.0690	1.3914
0.4021	0.2359	0.0001	0.0083	33.0000	1.5190	0.0207	1258.0000				
383.5	0.0018	0.0020	72.5884	0.0000	0.0001	0.0000	0.0319	0.5904	0.0109	0.0703	2.2044
0.3987	0.2332	0.0001	0.0085	33.0000	2.4621	0.0115	1258.0000				
383.0	0.0000	0.0035	70.8183	0.0000	0.0000	0.0000	0.0350	0.5889	0.0192	0.0707	4.7716
0.3919	0.2295	0.0001	0.0086	33.0000	1.1929	0.0301	1246.0000				
382.5	0.0000	0.0095	67.9123	0.0000	0.0000	0.0000	0.0325	0.5822	0.0124	0.0690	5.8712
0.4055	0.2351	0.0001	0.0088	33.0000	3.0749	0.0167	1253.0000				
382.0	0.0000	0.0078	65.5429	0.0000	0.0000	0.0000	0.0330	0.5777	0.0138	0.0665	6.0292
0.4085	0.2376	0.0001	0.0086	33.0000	1.9037	0.0264	1261.0000				
381.5	0.0000	0.0026	67.8649	0.0000	0.0000	0.0000	0.0267	0.5785	0.0000	0.0653	4.7528
0.4215	0.2460	0.0001	0.0085	33.0000	11.9459	0.0026	1265.0000				
381.0	0.0036	0.0037	70.6059	0.0000	0.0028	0.0000	0.0197	0.5887	0.0000	0.0659	4.0088
0.4113	0.2520	0.0001	0.0081	33.0000	4.6417	0.0158	1295.0000				
380.5	0.0016	0.0081	70.8537	0.0000	0.0001	0.0000	0.0104	0.5975	0.0000	0.0661	2.8674
0.4025	0.2611	0.0001	0.0078	33.0000	3.1720	0.0181	1311.0000				
380.0	0.0005	0.0028	68.0997	0.0000	0.0000	0.0000	0.0173	0.5996	0.0000	0.0646	2.3087
0.4004	0.2541	0.0001	0.0072	33.0000	1.5827	0.0126	1289.0000				
379.5	0.0000	0.0073	68.4678	0.0000	0.0000	0.0000	0.0278	0.5947	0.0000	0.0639	2.5160
0.4053	0.2433	0.0001	0.0070	33.0000	7.8012	0.0073	1292.0000				
379.0	0.0000	0.0000	69.1062	0.0000	0.0000	0.0000	0.0297	0.5923	0.0048	0.0669	3.7432
0.4028	0.2387	0.0001	0.0078	33.0000	0.7116	0.0100	1298.0000				
378.5	0.0000	0.0000	69.7216	0.0000	0.0000	0.0000	0.0226	0.5904	0.0000	0.0721	4.5132
0.4096	0.2425	0.0001	0.0090	33.0000	0.7180	0.0134	1319.0000				
378.0	0.0008	0.0009	69.2577	0.0000	0.0000	0.0000	0.0097	0.5945	0.0000	0.0757	4.9975
0.4055	0.2536	0.0001	0.0096	33.0000	1618.9397	0.0009	1303.0000				
377.5	0.0055	0.0055	70.3588	0.0169	0.0017	0.0000	0.0173	0.6017	0.0000	0.0740	5.0872
0.3983	0.2450	0.0001	0.0087	33.0000	2135.6558	0.0055	1296.0000				

377.0 0.0074 0.0123 69.5499 0.0009 0.0511
0.0000 0.0263 0.6032 0.0000 0.0700 5.5662
0.3968 0.2380 0.0001 0.0078 33.0000 54.4624
0.0165 1300.0000
376.5 0.0013 0.0151 68.3722 0.0000 0.0001
0.0000 0.0356 0.5974 0.0208 0.0692 4.4067
0.3819 0.2289 0.0001 0.0078 33.0000 5.4313
0.0234 1295.0000
376.0 0.0141 0.0141 65.5476 0.0002 0.6945
0.0000 0.0336 0.5943 0.0153 0.0693 2.3805
0.3905 0.2316 0.0001 0.0080 33.0000 3.2031
0.0479 1281.0000
375.5 0.0155 0.0199 66.1870 0.0006 0.3769
0.0000 0.0338 0.5915 0.0160 0.0703 0.1245
0.3925 0.2309 0.0001 0.0084 33.0000 2.8208
0.0666 1279.0000
375.0 0.0068 0.0229 67.4679 0.0006 0.0070
0.0000 0.0354 0.5869 0.0202 0.0693 0.0064
0.3929 0.2307 0.0001 0.0085 33.0000 2.5511
0.0687 1293.0000
374.5 0.0005 0.0322 69.3183 0.0005 0.0000
0.0000 0.0336 0.5810 0.0153 0.0707 0.5220
0.4037 0.2325 0.0001 0.0091 33.0000 3.3074
0.0569 1301.0000
374.0 0.0000 0.0371 70.1528 0.0006 0.0000
0.0000 0.0305 0.5729 0.0070 0.0729 3.0080
0.4201 0.2355 0.0001 0.0101 33.0000 3.8445
0.0572 1291.0000
373.5 0.0029 0.0373 70.5498 0.0009 0.0005
0.0000 0.0292 0.5720 0.0036 0.0733 4.3833
0.4244 0.2367 0.0001 0.0103 33.0000 7.0538
0.0455 1293.0000
373.0 0.0029 0.0376 70.9446 0.0013 0.0004
0.0000 0.0398 0.5721 0.0319 0.0704 5.2579
0.3959 0.2271 0.0001 0.0095 33.0000 8.4589
0.0460 1360.0000
372.5 0.0052 0.0315 71.5662 0.0010 0.0013
0.0000 0.0406 0.5838 0.0342 0.0689 4.1344
0.3820 0.2256 0.0001 0.0085 33.0000 2.1954
0.0851 1313.0000
372.0 0.0061 0.0290 72.2968 0.0010 0.0026
0.0000 0.0355 0.5912 0.0205 0.0706 4.2245
0.3883 0.2287 0.0001 0.0084 33.0000 2.1757
0.0855 1320.0000
371.5 0.0011 0.0315 72.6643 0.0005 0.0000
0.0000 0.0212 0.5939 0.0000 0.0720 3.4433
0.4061 0.2437 0.0001 0.0088 33.0000 2.7608
0.0647 1279.0000
371.0 0.0079 0.0277 74.1377 0.0008 0.0114
0.0000 0.0144 0.5833 0.0000 0.0698 3.0384
0.4167 0.2553 0.0001 0.0094 33.0000 2.5953
0.0739 1284.0000
370.5 0.0014 0.0306 75.5070 0.0009 0.0000
0.0000 0.0101 0.5756 0.0000 0.0655 2.5450
0.4244 0.2657 0.0001 0.0091 33.0000 2.0553
0.0850 1317.0000

370.0 0.0035 0.0239 75.0473 0.0005 0.0004
0.0000 0.0088 0.5753 0.0000 0.0634 2.4499
0.4247 0.2692 0.0001 0.0087 33.0000 2.2483
0.0715 1293.0000
369.5 0.0065 0.0233 74.0378 0.0004 0.0083
0.0000 0.0120 0.5807 0.0000 0.0623 3.2160
0.4193 0.2655 0.0001 0.0080 33.0000 3.1129
0.0578 1289.0000
369.0 0.0062 0.0184 71.5063 0.0001 0.0137
0.0000 0.0221 0.5831 0.0000 0.0624 2.9784
0.4169 0.2534 0.0001 0.0075 33.0000 3.1752
0.0439 1311.0000
368.5 0.0022 0.0201 71.4000 0.0001 0.0003
0.0000 0.0312 0.5857 0.0088 0.0615 3.4400
0.4054 0.2431 0.0001 0.0069 33.0000 5.8515
0.0317 1265.0000
368.0 0.0018 0.0200 73.2604 0.0001 0.0002
0.0000 0.0323 0.5883 0.0119 0.0624 3.4176
0.3998 0.2405 0.0001 0.0070 33.0000 7.9931
0.0259 1289.0000
367.5 0.0057 0.0233 75.1757 0.0011 0.0365
0.0000 0.0299 0.5894 0.0055 0.0622 3.7899
0.4051 0.2433 0.0001 0.0069 33.0000 28.7335
0.0239 1306.0000
367.0 0.0040 0.0246 76.7142 0.0003 0.0028
0.0000 0.0264 0.5867 0.0000 0.0632 3.0781
0.4133 0.2470 0.0001 0.0074 33.0000 6.3680
0.0381 1289.0000
366.5 0.0040 0.0235 76.8131 0.0003 0.0023
0.0000 0.0301 0.5849 0.0060 0.0626 2.5673
0.4091 0.2435 0.0001 0.0073 33.0000 5.2379
0.0414 1286.0000
366.0 0.0135 0.0135 76.6203 0.0003 1.8319
0.0000 0.0307 0.5868 0.0075 0.0638 2.4091
0.4057 0.2414 0.0001 0.0074 33.0000 10.0721
0.0297 1283.0000
365.5 0.0149 0.0149 75.1169 0.0006 1.9545
0.0000 0.0329 0.5896 0.0134 0.0646 3.8348
0.3970 0.2376 0.0001 0.0074 33.0000 7.7696
0.0400 1296.0000
365.0 0.0127 0.0127 71.2885 0.0002 1.7043
0.0000 0.0255 0.5907 0.0000 0.0681 4.9247
0.4093 0.2427 0.0001 0.0083 33.0000 7.1076
0.0322 1289.0000
364.5 0.0105 0.0263 66.0425 0.0012 0.5820
0.0000 0.0181 0.5919 0.0000 0.0724 5.3134
0.4081 0.2472 0.0001 0.0091 33.0000 16.4280
0.0322 1302.0000
364.0 0.0116 0.0299 61.5773 0.0016 1.0278
0.0000 0.0125 0.5908 0.0000 0.0762 2.8077
0.4092 0.2503 0.0001 0.0098 33.0000 22.6383
0.0299 1328.0000
363.5 0.0047 0.0329 55.8253 0.0008 0.0080
0.0000 0.0187 0.5976 0.0000 0.0767 0.0080
0.4024 0.2416 0.0001 0.0092 33.0000 12.4346
0.0337 1314.0000

363.0	0.0000	0.0206	52.4676	0.0000	0.0000	0.0000	0.0293	0.5960	0.0037	0.0763	0.0077
0.4002	0.2299	0.0001	0.0090	33.0000	5.9458	0.0241	1327.0000				
362.5	0.0000	0.0078	47.8933	0.0000	0.0000	0.0000	0.0364	0.5921	0.0229	0.0776	0.0076
0.3850	0.2210	0.0001	0.0092	33.0000	1.9870	0.0215	1307.0000				
362.0	0.0115	0.0115	45.4535	0.0024	0.5120	0.0000	0.0380	0.5837	0.0272	0.0792	0.3333
0.3891	0.2190	0.0001	0.0099	33.0000	53.1672	0.0216	1308.0000				
361.5	0.0114	0.0118	43.9336	0.0002	0.8015	0.0000	0.0334	0.5846	0.0147	0.0795	0.5024
0.4007	0.2240	0.0001	0.0100	33.0000	9.1367	0.0276	1347.0000				
361.0	0.0128	0.0132	44.9640	0.0001	0.7263	0.0000	0.0291	0.5890	0.0033	0.0776	1.4422
0.4076	0.2300	0.0001	0.0096	33.0000	13.8480	0.0207	1287.0000				
360.5	0.0106	0.0132	47.9784	0.0001	0.3163	0.0000	0.0271	0.5924	0.0000	0.0752	0.8071
0.4076	0.2340	0.0001	0.0092	33.0000	3.4149	0.0382	1317.0000				
360.0	0.0063	0.0068	47.5668	0.0000	0.0607	0.0000	0.0310	0.5923	0.0084	0.0743	0.1146
0.3993	0.2303	0.0001	0.0090	33.0000	3.9929	0.0251	1275.0000				
359.5	0.0073	0.0073	47.8487	0.0001	0.0355	0.0000	0.0302	0.5900	0.0061	0.0755	0.0074
0.4039	0.2305	0.0001	0.0093	33.0000	20.2888	0.0142	1287.0000				
359.0	0.0099	0.0107	46.6523	0.0003	0.1938	0.0000	0.0296	0.5899	0.0046	0.0778	0.0076
0.4055	0.2291	0.0001	0.0096	33.0000	27.4967	0.0180	1311.0000				
358.5	0.0106	0.0222	47.6916	0.0004	0.6332	0.0000	0.0230	0.5934	0.0000	0.0790	0.0078
0.4066	0.2351	0.0001	0.0096	33.0000	9.4995	0.0318	1298.0000				
358.0	0.0109	0.0211	49.7029	0.0003	0.6588	0.0000	0.0186	0.6023	0.0000	0.0790	0.0076
0.3977	0.2388	0.0001	0.0092	33.0000	8.1558	0.0326	1286.0000				
357.5	0.0050	0.0184	51.3042	0.0001	0.0120	0.0000	0.0119	0.6074	0.0000	0.0788	0.1242
0.3926	0.2459	0.0001	0.0090	33.0000	4.6290	0.0321	1273.0000				
357.0	0.0000	0.0176	52.7875	0.0001	0.0000	0.0000	0.0093	0.6086	0.0000	0.0793	0.2635
0.3914	0.2483	0.0001	0.0090	33.0000	1.9922	0.0480	1272.0000				
356.5	0.0000	0.0184	52.2602	0.0000	0.0000	0.0000	0.0120	0.6034	0.0000	0.0782	0.0072
0.3966	0.2471	0.0001	0.0092	33.0000	3.0586	0.0321	1254.0000				

356.0 0.0000 0.0112 51.5891 0.0000 0.0000
0.0000 0.0186 0.6020 0.0000 0.0761 0.0069
0.3980 0.2415 0.0001 0.0089 33.0000 1.9171
0.0330 1271.0000
355.5 0.0094 0.0094 50.3693 0.0080 0.0766
0.0000 0.0265 0.5977 0.0000 0.0731 0.0730
0.4023 0.2358 0.0001 0.0086 33.0000 290.6794
0.0124 1294.0000
355.0 0.0052 0.0057 50.0619 0.0000 0.0097
0.0000 0.0354 0.5944 0.0203 0.0714 2.2826
0.3854 0.2276 0.0001 0.0083 33.0000 15.3606
0.0145 1285.0000
354.5 0.0000 0.0043 48.2630 0.0000 0.0000
0.0000 0.0431 0.5908 0.0408 0.0692 3.8269
0.3684 0.2212 0.0001 0.0080 33.0000 9.4712
0.0043 1296.0000
354.0 0.0022 0.0023 48.3739 0.0000 0.0001
0.0000 0.0496 0.5901 0.0583 0.0672 4.2666
0.3516 0.2156 0.0001 0.0075 33.0000 2.7788
0.0072 1322.0000
353.5 0.0040 0.0040 48.4551 0.0000 0.0038
0.0000 0.0476 0.5959 0.0530 0.0665 2.9990
0.3511 0.2176 0.0001 0.0070 33.0000 6.8372
0.0154 1313.0000
353.0 0.0064 0.0064 49.8377 0.0001 0.0453
0.0000 0.0419 0.5978 0.0377 0.0678 1.4689
0.3644 0.2227 0.0001 0.0073 33.0000 10.5650
0.0211 1283.0000
352.5 0.0047 0.0048 50.2860 0.0000 0.0074
0.0000 0.0310 0.5959 0.0083 0.0709 0.0873
0.3958 0.2329 0.0001 0.0083 33.0000 7.3857
0.0156 1334.0000
352.0 0.0047 0.0062 49.3265 0.0000 0.0056
0.0000 0.0253 0.5859 0.0000 0.0740 0.7821
0.4141 0.2383 0.0001 0.0095 33.0000 6.3478
0.0135 1290.0000
351.5 0.0000 0.0066 50.4459 0.0000 0.0000
0.0000 0.0221 0.5782 0.0000 0.0757 1.4182
0.4218 0.2417 0.0001 0.0103 33.0000 14.1752
0.0066 1292.0000
351.0 0.0181 0.0187 52.2700 0.0035 2.3580
0.0000 0.0261 0.5783 0.0000 0.0770 1.8449
0.4217 0.2358 0.0001 0.0104 33.0000 84.6809
0.0187 1303.0000
350.5 0.0150 0.0288 55.0130 0.0020 0.4359
0.0000 0.0259 0.5845 0.0000 0.0767 0.6523
0.4155 0.2353 0.0001 0.0099 33.0000 6.2460
0.0601 1303.0000
350.0 0.0091 0.0350 56.9229 0.0038 0.0179
0.0000 0.0244 0.5965 0.0000 0.0772 0.0071
0.4035 0.2346 0.0001 0.0092 33.0000 5.0452
0.0784 1325.0000
349.5 0.0036 0.0187 57.1465 0.0004 0.0006
0.0000 0.0206 0.6048 0.0000 0.0761 0.0070
0.3952 0.2387 0.0001 0.0087 33.0000 2.5020
0.0616 1293.0000

349.0	0.0019	0.0143	57.4764	0.0002	0.0000	0.0000	0.0201	0.6089	0.0000	0.0753	0.0069
0.3911	0.2394	0.0001	0.0083	33.0000	1.5585	0.0652	1303.0000				
348.5	0.0045	0.0174	59.1027	0.0003	0.0011	0.0000	0.0241	0.6074	0.0000	0.0731	1.1467
0.3926	0.2370	0.0001	0.0080	33.0000	1.6570	0.0707	1298.0000				
348.0	0.0030	0.0199	63.8402	0.0004	0.0002	0.0000	0.0256	0.6053	0.0000	0.0711	3.3658
0.3947	0.2375	0.0001	0.0078	33.0000	1.8425	0.0744	1262.0000				
347.5	0.0011	0.0289	67.4229	0.0006	0.0000	0.0000	0.0288	0.6047	0.0024	0.0694	4.9795
0.3928	0.2354	0.0001	0.0075	33.0000	2.5747	0.0682	1296.0000				
347.0	0.0034	0.0389	72.9189	0.0025	0.0002	0.0000	0.0304	0.6041	0.0069	0.0673	4.9418
0.3890	0.2356	0.0001	0.0071	33.0000	2.6433	0.0969	1289.0000				
346.5	0.0028	0.0566	78.1150	0.0066	0.0000	0.0000	0.0357	0.6037	0.0210	0.0655	4.3286
0.3753	0.2312	0.0001	0.0066	33.0000	2.7637	0.1211	1338.0000				
346.0	0.0022	0.0784	84.5943	0.0223	0.0000	0.0000	0.0445	0.5982	0.0446	0.0619	4.2624
0.3572	0.2252	0.0001	0.0059	33.0000	2.5738	0.1704	1331.0000				
345.5	0.0024	0.1133	92.3568	0.0803	0.0000	0.0000	0.0515	0.5452	0.0635	0.0595	4.9299
0.3913	0.2280	0.0001	0.0052	33.0000	2.9125	0.2206	1298.0000				
345.0	0.0037	0.1411	101.0141	0.2034	0.0000	0.0000	0.0526	0.5118	0.0664	0.0569	5.8015
0.4218	0.2350	0.0001	0.0047	33.0000	3.0154	0.2735	1300.0000				
344.5	0.0002	0.1265	111.8727	0.1509	0.0000	0.0000	0.0447	0.4913	0.0453	0.0552	6.6351
0.4634	0.2493	0.0001	0.0045	33.0000	2.4361	0.2824	1296.0000				
344.0	0.0011	0.1244	122.1352	0.1676	0.0000	0.0000	0.0369	0.4708	0.0243	0.0534	6.7713
0.5049	0.2637	0.0001	0.0044	33.0000	2.3169	0.2972	1274.0000				
343.5	0.0039	0.1554	131.1952	0.3324	0.0000	0.0000	0.0291	0.4363	0.0032	0.0504	7.2350
0.5605	0.2819	0.0001	0.0039	33.0000	2.8905	0.3158	1279.0000				
343.0	0.0000	0.2472	144.2845	1.1669	0.0000	0.0000	0.0209	0.3879	0.0000	0.0462	7.8230
0.6121	0.3045	0.0001	0.0032	33.0000	3.7610	0.3790	1268.0000				
342.5	0.0000	0.3076	149.6750	2.5119	0.0000	0.0000	0.0144	0.3365	0.0000	0.0414	9.1360
0.6635	0.3267	0.0001	0.0026	33.0000	4.8514	0.4042	1272.0000				

342.0 0.0000 0.3131 151.3109 2.6966 0.0000
0.0000 0.0177 0.3007 0.0000 0.0379 9.5690
0.6993 0.3334 0.0001 0.0022 33.0000 5.1256
0.4002 1268.0000
341.5 0.0081 0.2810 143.0614 2.4739 0.0003
0.0000 0.0259 0.2982 0.0000 0.0377 9.6261
0.7018 0.3246 0.0001 0.0020 33.0000 5.3642
0.3829 1278.0000
341.0 0.0085 0.2331 132.6073 1.2300 0.0004
0.0000 0.0355 0.3278 0.0205 0.0400 9.0515
0.6517 0.3052 0.0050 0.0023 33.0000 4.2827
0.3598 1275.0000
340.5 0.0096 0.1385 117.5496 0.2287 0.0012
0.0000 0.0420 0.3834 0.0380 0.0448 8.4328
0.5786 0.2821 0.0075 0.0031 33.0000 2.9279
0.2858 1251.0000
340.0 0.0018 0.0595 98.3734 0.0146 0.0000
0.0000 0.0498 0.4469 0.0591 0.0507 7.1912
0.4940 0.2555 0.0041 0.0043 33.0000 2.0218
0.1729 1268.0000
339.5 0.0045 0.0399 78.9354 0.0031 0.0004
0.0000 0.0531 0.5276 0.0678 0.0579 5.5621
0.4046 0.2307 0.0001 0.0056 33.0000 2.3401
0.1086 1264.0000
339.0 0.0066 0.0253 62.8295 0.0007 0.0087
0.0000 0.0496 0.5872 0.0585 0.0642 3.3131
0.3543 0.2188 0.0001 0.0070 33.0000 3.6727
0.0596 1251.0000
338.5 0.0056 0.0175 53.7707 0.0001 0.0196
0.0000 0.0415 0.5868 0.0367 0.0719 1.3130
0.3764 0.2212 0.0001 0.0087 33.0000 5.2956
0.0328 1245.0000
338.0 0.0033 0.0166 47.0341 0.0001 0.0033
0.0000 0.0280 0.5786 0.0002 0.0772 0.0078
0.4212 0.2334 0.0001 0.0103 33.0000 8.5941
0.0215 1273.0000
337.5 0.0028 0.0161 44.5622 0.0001 0.0009
0.0000 0.0229 0.5665 0.0000 0.0811 0.0084
0.4335 0.2377 0.0001 0.0116 33.0000 3.9548
0.0313 1242.0000
337.0 0.0043 0.0161 42.9903 0.0001 0.0044
0.0000 0.0245 0.5589 0.0000 0.0803 0.0086
0.4411 0.2379 0.0001 0.0121 33.0000 3.6997
0.0358 1256.0000
336.5 0.0049 0.0154 44.2597 0.0001 0.0033
0.0000 0.0356 0.5556 0.0208 0.0784 0.0084
0.4236 0.2272 0.0001 0.0118 33.0000 2.1652
0.0514 1251.0000
336.0 0.0058 0.0121 42.1282 0.0001 0.0083
0.0000 0.0390 0.5639 0.0300 0.0758 0.1047
0.4061 0.2242 0.0001 0.0109 33.0000 2.5691
0.0482 1251.0000
335.5 0.0047 0.0153 40.9949 0.0002 0.0050
0.0000 0.0381 0.5763 0.0275 0.0759 0.3573
0.3962 0.2232 0.0001 0.0101 33.0000 4.1319
0.0403 1227.0000

335.0	0.0035	0.0117	40.9450	0.0001	0.0048	0.0000	0.0364	0.5885	0.0230	0.0754	0.2343
0.3885	0.2235	0.0001	0.0092	33.0000	7.8327	0.0227	1245.0000				
334.5	0.0044	0.0196	44.3242	0.0001	0.0127	0.0000	0.0315	0.5879	0.0096	0.0782	0.0083
0.4025	0.2268	0.0001	0.0097	33.0000	6.9972	0.0255	1241.0000				
334.0	0.0046	0.0365	46.4397	0.0007	0.0021	0.0000	0.0297	0.5805	0.0048	0.0799	0.0082
0.4146	0.2285	0.0001	0.0104	33.0000	4.4500	0.0553	1230.0000				
333.5	0.0017	0.0354	47.7865	0.0008	0.0000	0.0000	0.0242	0.5738	0.0000	0.0819	0.0082
0.4262	0.2343	0.0001	0.0111	33.0000	3.3211	0.0651	1229.0000				
333.0	0.0032	0.0297	47.0454	0.0004	0.0006	0.0000	0.0264	0.5730	0.0000	0.0797	0.0080
0.4270	0.2338	0.0001	0.0110	33.0000	4.0450	0.0492	1212.0000				
332.5	0.0030	0.0162	45.9900	0.0001	0.0011	0.0000	0.0250	0.5782	0.0000	0.0783	0.0078
0.4218	0.2359	0.0001	0.0105	33.0000	3.4200	0.0334	1230.0000				
332.0	0.0033	0.0108	45.4743	0.0000	0.0019	0.0000	0.0228	0.5811	0.0000	0.0786	0.0078
0.4189	0.2378	0.0001	0.0104	33.0000	6.5096	0.0162	1231.0000				
331.5	0.0032	0.0288	46.4230	0.0008	0.0002	0.0000	0.0179	0.5857	0.0000	0.0806	0.0079
0.4143	0.2408	0.0001	0.0104	33.0000	2.1801	0.0816	1237.0000				
331.0	0.0030	0.0546	49.3905	0.0095	0.0000	0.0000	0.0122	0.5861	0.0000	0.0816	0.0081
0.4139	0.2465	0.0001	0.0106	33.0000	2.0572	0.1540	1244.0000				
330.5	0.0001	0.0677	51.1037	0.0182	0.0000	0.0000	0.0072	0.5878	0.0000	0.0803	0.1192
0.4122	0.2533	0.0001	0.0105	33.0000	2.1706	0.1762	1243.0000				
330.0	0.0001	0.0779	53.4551	0.0303	0.0000	0.0000	0.0049	0.5869	0.0000	0.0782	1.7603
0.4131	0.2580	0.0001	0.0105	33.0000	2.3236	0.1936	1243.0000				
329.5	0.0000	0.1231	54.2570	0.1347	0.0000	0.0000	0.0080	0.5819	0.0000	0.0778	1.3802
0.4181	0.2556	0.0001	0.0107	33.0000	2.4565	0.2733	1209.0000				
329.0	0.0000	0.1330	54.4633	0.2710	0.0000	0.0000	0.0132	0.5790	0.0000	0.0786	1.2996
0.4210	0.2492	0.0001	0.0108	33.0000	2.1294	0.3496	1219.0000				
328.5	0.0000	0.1234	53.1326	0.1728	0.0000	0.0000	0.0166	0.5778	0.0000	0.0800	0.0078
0.4222	0.2442	0.0001	0.0109	33.0000	2.1444	0.3113	1216.0000				

328.0	0.0030	0.0696	51.9725	0.0225	0.0000
0.0000	0.0202	0.5871	0.0000	0.0791	0.0076
0.4129	0.2393	0.0001	0.0101	33.0000	2.2608
0.1822	1232.0000				
327.5	0.0045	0.0691	51.5859	0.0110	0.0004
0.0000	0.0303	0.5939	0.0066	0.0771	0.5383
0.3995	0.2282	0.0001	0.0092	33.0000	3.8277
0.1171	1223.0000				
327.0	0.0014	0.1108	52.0739	0.0843	0.0000
0.0000	0.0401	0.5963	0.0328	0.0751	1.3959
0.3710	0.2184	0.0001	0.0086	33.0000	2.4124
0.2453	1210.0000				
326.5	0.0005	0.1387	51.2807	0.3403	0.0000
0.0000	0.0473	0.5908	0.0523	0.0751	2.6067
0.3569	0.2108	0.0001	0.0088	33.0000	1.9674
0.3850	1226.0000				
326.0	0.0011	0.1419	50.1294	0.3343	0.0000
0.0000	0.0393	0.5852	0.0307	0.0784	1.3581
0.3841	0.2179	0.0001	0.0097	33.0000	2.0713
0.3736	1216.0000				
325.5	0.0020	0.1898	48.1733	0.6348	0.0000
0.0000	0.0335	0.5865	0.0151	0.0800	0.3794
0.3985	0.2230	0.0001	0.0099	33.0000	2.8144
0.3762	1236.0000				
325.0	0.0053	0.2067	46.8590	0.8217	0.0001
0.0000	0.0225	0.5923	0.0000	0.0807	0.0077
0.4077	0.2343	0.0001	0.0099	33.0000	4.3613
0.3224	1220.0000				
324.5	0.0049	0.2385	45.7394	1.3026	0.0001
0.0000	0.0247	0.5961	0.0000	0.0765	0.0076
0.4039	0.2349	0.0001	0.0092	33.0000	5.4520
0.3235	1211.0000				
324.0	0.0065	0.1741	46.6181	0.4799	0.0002
0.0000	0.0207	0.5883	0.0000	0.0730	0.0076
0.4117	0.2442	0.0001	0.0093	33.0000	3.7612
0.3035	1230.0000				
323.5	0.0001	0.1481	48.6792	0.3166	0.0000
0.0000	0.0150	0.5763	0.0000	0.0724	0.0077
0.4237	0.2534	0.0001	0.0102	33.0000	2.3338
0.3472	1202.0000				
323.0	0.0010	0.0757	51.4252	0.0799	0.0000
0.0000	0.0012	0.5714	0.0000	0.0751	0.0078
0.4286	0.2679	0.0001	0.0113	33.0000	1.6540
0.2923	1235.0000				
322.5	0.0002	0.0614	51.4403	0.0301	0.0000
0.0000	0.0002	0.5711	0.0000	0.0770	0.0079
0.4289	0.2673	0.0001	0.0115	33.0000	1.7195
0.2247	1216.0000				
322.0	0.0016	0.0654	48.6981	0.0207	0.0000
0.0000	0.0144	0.5766	0.0000	0.0749	0.0075
0.4234	0.2517	0.0001	0.0105	33.0000	1.9988
0.1896	1222.0000				
321.5	0.0016	0.0832	45.6711	0.0249	0.0000
0.0000	0.0312	0.5776	0.0091	0.0713	0.5423
0.4134	0.2353	0.0001	0.0095	33.0000	2.6269
0.1733	1233.0000				

321.0	0.0011	0.0693	44.7055	0.0085	0.0000	0.0000	0.0407	0.5785	0.0345	0.0689	0.7561
0.3870	0.2262	0.0001	0.0088	33.0000	3.1374	0.1213	1212.0000				
320.5	0.0039	0.0532	45.0412	0.0038	0.0004	0.0000	0.0448	0.5754	0.0455	0.0680	0.0067
0.3792	0.2229	0.0001	0.0088	33.0000	4.0053	0.0880	1218.0000				
320.0	0.0057	0.0360	45.5052	0.0009	0.0053	0.0000	0.0561	0.5736	0.0760	0.0662	0.0063
0.3504	0.2116	0.0001	0.0082	33.0000	5.0820	0.0547	1209.0000				
319.5	0.0075	0.0304	46.3898	0.0006	0.0305	0.0000	0.0641	0.5684	0.0973	0.0639	0.6254
0.3343	0.2054	0.0001	0.0078	33.0000	5.8241	0.0461	1213.0000				
319.0	0.0034	0.0266	50.8742	0.0004	0.0014	0.0000	0.0667	0.5661	0.1043	0.0611	2.2255
0.3295	0.2053	0.0001	0.0072	33.0000	6.5253	0.0382	1188.0000				
318.5	0.0078	0.0777	61.0777	0.0248	0.0036	0.0000	0.0659	0.5576	0.1024	0.0579	4.3146
0.3400	0.2106	0.0001	0.0068	33.0000	5.9206	0.1153	1211.0000				
318.0	0.0105	0.1390	70.1596	0.2063	0.0032	0.0000	0.0710	0.4960	0.1159	0.0549	5.6997
0.3881	0.2181	0.0001	0.0063	33.0000	4.9958	0.2132	1216.0000				
317.5	0.0039	0.1950	82.6173	0.5185	0.0000	0.0000	0.0756	0.4422	0.1284	0.0504	7.3628
0.4295	0.2266	0.0001	0.0055	33.0000	4.6507	0.2782	1219.0000				
317.0	0.0027	0.1861	89.4333	0.3980	0.0000	0.0000	0.0745	0.4049	0.1254	0.0472	7.4461
0.4697	0.2378	0.0001	0.0047	33.0000	4.7393	0.2580	1205.0000				
316.5	0.0030	0.1773	94.9089	0.3458	0.0000	0.0000	0.0680	0.3940	0.1078	0.0463	7.0061
0.4982	0.2483	0.0001	0.0043	33.0000	4.5613	0.2539	1202.0000				
316.0	0.0082	0.1994	99.1889	0.6869	0.0006	0.0000	0.0622	0.4093	0.0923	0.0477	5.9414
0.4984	0.2508	0.0001	0.0045	33.0000	5.1572	0.2835	1213.0000				
315.5	0.0009	0.1791	115.2849	0.3581	0.0000	0.0000	0.0620	0.4129	0.0917	0.0481	5.8299
0.4955	0.2501	0.0001	0.0043	33.0000	5.1715	0.2405	1196.0000				
315.0	0.0002	0.1182	145.7530	0.0671	0.0000	0.0000	0.0614	0.4020	0.0903	0.0472	7.5842
0.5078	0.2536	0.0001	0.0040	33.0000	5.6780	0.1510	1197.0000				
314.5	0.0000	0.0455	180.4753	0.0018	0.0000	0.0000	0.0624	0.3736	0.0929	0.0447	9.9151
0.5335	0.2602	0.0001	0.0034	33.0000	7.5279	0.0530	1198.0000				

314.0 0.0011 0.0043 213.9587 0.0000 0.0000
0.0000 0.0598 0.3416 0.0860 0.0417 12.9256
0.5724 0.2724 0.0001 0.0031 33.0000 12.5328
0.0043 1219.0000
313.5 0.0000 0.0076 239.8277 0.0000 0.0000
0.0000 0.0630 0.2995 0.0945 0.0378 14.8376
0.6060 0.2809 0.0001 0.0021 33.0000 3.8757
0.0099 1193.0000
313.0 0.0005 0.0067 263.9041 0.0000 0.0000
0.0000 0.0637 0.2586 0.0964 0.0339 16.9222
0.6450 0.2924 0.0001 0.0009 33.0000 3.6371
0.0129 1205.0000
312.5 0.0007 0.0007 282.4563 0.0000 0.0000
0.0000 0.0632 0.2317 0.0950 0.0303 19.2518
0.6733 0.3024 0.0076 0.0000 33.0000 2.5788
0.0078 1208.0000
312.0 0.0013 0.0057 295.8904 0.0000 0.0000
0.0000 0.0625 0.1931 0.0932 0.0261 21.2877
0.7136 0.3160 0.0058 0.0000 33.0000 6.9658
0.0095 1207.0000
311.5 0.0020 0.0072 301.2202 0.0000 0.0001
0.0000 0.0589 0.1525 0.0834 0.0219 22.7346
0.7641 0.3341 0.0001 0.0000 33.0000 13.2346
0.0097 1182.0000
311.0 0.0019 0.0021 302.5391 0.0000 0.0000
0.0000 0.0567 0.1381 0.0775 0.0183 21.6272
0.7844 0.3437 0.0001 0.0000 33.0000 44.6048
0.0021 1195.0000
310.5 0.0015 0.0016 301.5119 0.0000 0.0000
0.0000 0.0487 0.1347 0.0561 0.0168 21.3915
0.8092 0.3553 0.0001 0.0000 33.0000 2.0891
0.0111 1202.0000
310.0 0.0034 0.0036 299.4761 0.0000 0.0011
0.0000 0.0408 0.1370 0.0348 0.0168 20.9964
0.8282 0.3640 0.0001 0.0000 33.0000 3.1243
0.0112 1209.0000
309.5 0.0006 0.0054 299.5963 0.0000 0.0000
0.0000 0.0288 0.1435 0.0025 0.0173 21.5301
0.8540 0.3758 0.0001 0.0000 33.0000 2.0126
0.0173 1181.0000
309.0 0.0000 0.0001 300.9746 0.0000 0.0000
0.0000 0.0290 0.1483 0.0031 0.0185 20.2463
0.8486 0.3732 0.0001 0.0000 33.0000 0.8808
0.0206 1195.0000
308.5 0.0000 0.0000 309.1798 0.0000 0.0000
0.0000 0.0351 0.1513 0.0194 0.0200 18.1995
0.8294 0.3640 0.0001 0.0000 33.0000 0.8344
0.0199 1195.0000
308.0 0.0000 0.0051 311.0848 0.0000 0.0000
0.0000 0.0453 0.1506 0.0469 0.0213 16.7631
0.8025 0.3510 0.0001 0.0000 33.0000 5.6594
0.0053 1200.0000
307.5 0.0000 0.0063 309.7826 0.0000 0.0000
0.0000 0.0390 0.1521 0.0300 0.0208 16.9637
0.8179 0.3584 0.0001 0.0000 33.0000 3.5341
0.0096 1216.0000

307.0 0.0000 0.0000 307.7554 0.0000 0.0000
0.0000 0.0268 0.1493 0.0000 0.0185 17.2590
0.8507 0.3756 0.0001 0.0000 33.0000 30.0000
0.0000 1207.0000
306.5 0.0010 0.0044 305.4989 0.0000 0.0000
0.0000 0.0128 0.1371 0.0000 0.0168 16.6762
0.8629 0.3965 0.0084 0.0000 33.0000 5.6179
0.0077 1202.0000
306.0 0.0021 0.0021 309.4616 0.0000 0.0000
0.0000 0.0104 0.1275 0.0000 0.0153 14.7404
0.8725 0.4032 0.0107 0.0000 33.0000 16.1175
0.0057 1173.0000
305.5 0.0025 0.0105 311.7336 0.0000 0.0003
0.0000 0.0145 0.1337 0.0000 0.0153 13.2910
0.8663 0.3969 0.0042 0.0000 33.0000 25.1308
0.0108 1181.0000
305.0 0.0029 0.0048 312.8748 0.0001 0.0001
0.0000 0.0154 0.1292 0.0000 0.0140 11.8970
0.8708 0.3981 0.0001 0.0000 33.0000 230.3057
0.0049 1172.0000
304.5 0.0017 0.0054 314.5427 0.0000 0.0001
0.0000 0.0197 0.1311 0.0000 0.0145 9.7614
0.8689 0.3923 0.0001 0.0000 33.0000 5.4376
0.0120 1209.0000
304.0 0.0016 0.0016 308.4358 0.0000 0.0000
0.0000 0.0217 0.1390 0.0000 0.0159 8.0332
0.8610 0.3865 0.0001 0.0000 33.0000 2.0494
0.0081 1204.0000
303.5 0.0011 0.0023 304.9438 0.0000 0.0000
0.0000 0.0245 0.1554 0.0000 0.0200 8.0735
0.8446 0.3753 0.0001 0.0000 33.0000 1.8796
0.0105 1213.0000
303.0 0.0000 0.0016 298.3013 0.0000 0.0000
0.0000 0.0169 0.1724 0.0000 0.0244 10.3334
0.8276 0.3759 0.0001 0.0000 33.0000 1.2538
0.0082 1202.0000
302.5 0.0000 0.0036 294.2325 0.0000 0.0000
0.0000 0.0092 0.1977 0.0000 0.0271 12.4288
0.8023 0.3763 0.0001 0.0009 33.0000 1.6170
0.0166 1207.0000
302.0 0.0000 0.0008 290.5194 0.0000 0.0000
0.0000 0.0042 0.1994 0.0000 0.0271 12.8631
0.8006 0.3817 0.0001 0.0013 33.0000 0.8878
0.0212 1194.0000
301.5 0.0000 0.0004 282.8954 0.0000 0.0000
0.0000 0.0130 0.1832 0.0000 0.0253 11.5472
0.8168 0.3769 0.0001 0.0009 33.0000 0.9684
0.0239 1187.0000
301.0 0.0000 0.0012 277.1574 0.0000 0.0000
0.0000 0.0246 0.1639 0.0000 0.0233 10.0778
0.8361 0.3701 0.0001 0.0002 33.0000 1.4006
0.0143 1204.0000
300.5 0.0007 0.0030 277.7956 0.0000 0.0000
0.0000 0.0345 0.1570 0.0177 0.0222 9.7831
0.8253 0.3612 0.0001 0.0000 33.0000 2.5249
0.0147 1188.0000

300.0 0.0000 0.0170 276.9834 0.0000 0.0000
0.0000 0.0361 0.1447 0.0222 0.0188 14.2507
0.8331 0.3656 0.0001 0.0002 33.0000 3.6417
0.0245 1186.0000
299.5 0.0000 0.0149 273.9105 0.0000 0.0000
0.0000 0.0384 0.1459 0.0283 0.0187 12.3869
0.8257 0.3627 0.0001 0.0000 33.0000 2.6023
0.0283 1194.0000
299.0 0.0000 0.0081 274.9906 0.0000 0.0000
0.0000 0.0339 0.1491 0.0161 0.0192 11.4340
0.8348 0.3668 0.0001 0.0000 33.0000 1.9534
0.0215 1188.0000
298.5 0.0000 0.0158 270.5402 0.0001 0.0000
0.0000 0.0325 0.1448 0.0125 0.0179 11.1383
0.8427 0.3706 0.0001 0.0000 33.0000 16.2218
0.0159 1202.0000
298.0 0.0000 0.0175 266.0566 0.0000 0.0000
0.0000 0.0301 0.1389 0.0061 0.0168 11.5188
0.8551 0.3759 0.0001 0.0002 33.0000 11.3937
0.0175 1199.0000
297.5 0.0000 0.0111 254.3551 0.0000 0.0000
0.0000 0.0248 0.1324 0.0000 0.0166 10.6163
0.8676 0.3840 0.0001 0.0007 33.0000 8.9984
0.0111 1205.0000
297.0 0.0037 0.0095 243.0695 0.0000 0.0015
0.0000 0.0141 0.1352 0.0000 0.0173 8.7504
0.8648 0.3951 0.0001 0.0010 33.0000 13.1696
0.0110 1189.0000
296.5 0.0352 0.0840 233.4790 0.0605 10.1633
0.0000 0.0082 0.1377 0.0000 0.0187 7.2336
0.8623 0.4001 0.0001 0.0013 33.0000 13.2136
0.0965 1189.0000
296.0 0.0393 0.1243 228.1186 0.2356 2.2900
0.0000 0.0152 0.1421 0.0000 0.0194 6.6009
0.8579 0.3900 0.0004 0.0010 33.0000 8.2454
0.1716 1202.0000
295.5 0.0431 0.1465 229.3218 0.4539 1.6182
0.0000 0.0295 0.1422 0.0043 0.0195 6.5179
0.8535 0.3733 0.0001 0.0006 33.0000 6.7034
0.2242 1198.0000
295.0 0.0392 0.1215 231.5063 0.2629 1.1061
0.0000 0.0402 0.1448 0.0330 0.0207 6.8240
0.8222 0.3591 0.0001 0.0004 33.0000 5.4383
0.2171 1193.0000
294.5 0.0385 0.1173 235.2964 0.2117 1.5439
0.0000 0.0391 0.1564 0.0301 0.0218 7.0879
0.8134 0.3563 0.0025 0.0007 33.0000 6.5045
0.1881 1194.0000
294.0 0.0386 0.1081 238.2069 0.1602 1.5933
0.0000 0.0332 0.1661 0.0144 0.0228 8.0379
0.8195 0.3599 0.0037 0.0009 33.0000 5.7203
0.1871 1199.0000
293.5 0.0329 0.1080 237.2726 0.1284 0.6980
0.0000 0.0300 0.1507 0.0058 0.0212 9.1999
0.8436 0.3689 0.0016 0.0008 33.0000 5.0014
0.1893 1192.0000

293.0 0.0313 0.1039 234.9731 0.1332 0.4137
0.0000 0.0312 0.1422 0.0090 0.0190 10.3690
0.8488 0.3717 0.0001 0.0005 33.0000 4.1308
0.2102 1194.0000
292.5 0.0351 0.1210 233.4663 0.3165 0.6254
0.0000 0.0325 0.1411 0.0123 0.0189 11.0376
0.8465 0.3707 0.0006 0.0005 33.0000 5.7654
0.2209 1186.0000
292.0 0.0379 0.1213 232.4731 0.3577 1.0124
0.0000 0.0225 0.1406 0.0000 0.0196 11.0604
0.8594 0.3819 0.0040 0.0009 33.0000 6.6830
0.2115 1160.0000
291.5 0.0367 0.1232 231.0571 0.3481 0.8977
0.0000 0.0180 0.1547 0.0000 0.0210 10.9319
0.8453 0.3821 0.0053 0.0012 33.0000 6.7602
0.2089 1193.0000
291.0 0.0333 0.1114 229.7501 0.1708 0.6600
0.0000 0.0165 0.1445 0.0000 0.0203 10.4807
0.8555 0.3871 0.0015 0.0012 33.0000 5.3138
0.1972 1208.0000
290.5 0.0171 0.1047 231.2000 0.0992 0.0348
0.0000 0.0305 0.1399 0.0069 0.0197 9.4773
0.8532 0.3726 0.0001 0.0008 33.0000 4.3987
0.1892 1211.0000
290.0 0.0100 0.0990 235.0820 0.0683 0.0040
0.0000 0.0276 0.1366 0.0000 0.0188 8.0574
0.8634 0.3776 0.0001 0.0009 33.0000 4.1821
0.1767 1209.0000
289.5 0.0134 0.0970 235.9851 0.0564 0.0169
0.0000 0.0227 0.1333 0.0000 0.0188 7.6471
0.8667 0.3842 0.0001 0.0013 33.0000 4.3678
0.1649 1198.0000
289.0 0.0114 0.0933 238.3889 0.0499 0.0077
0.0000 0.0130 0.1294 0.0000 0.0180 8.6251
0.8706 0.3973 0.0001 0.0016 33.0000 3.8503
0.1703 1197.0000
288.5 0.0130 0.0962 242.9256 0.0549 0.0147
0.0000 0.0188 0.1297 0.0000 0.0176 9.9823
0.8703 0.3907 0.0001 0.0014 33.0000 4.3400
0.1643 1195.0000
288.0 0.0156 0.0893 246.0668 0.0496 0.0271
0.0000 0.0258 0.1298 0.0000 0.0175 10.6103
0.8702 0.3826 0.0001 0.0012 33.0000 3.5439
0.1773 1199.0000
287.5 0.0197 0.0883 244.4897 0.0499 0.0784
0.0000 0.0299 0.1366 0.0054 0.0194 10.0410
0.8580 0.3743 0.0001 0.0013 33.0000 3.6235
0.1756 1188.0000
287.0 0.0217 0.0880 237.7421 0.0469 0.1219
0.0000 0.0216 0.1444 0.0000 0.0203 8.0571
0.8556 0.3812 0.0001 0.0016 33.0000 3.5128
0.1756 1186.0000
286.5 0.0223 0.0903 234.5458 0.0456 0.1916
0.0000 0.0108 0.1439 0.0000 0.0202 4.8535
0.8561 0.3940 0.0001 0.0016 33.0000 4.4632
0.1546 1182.0000

286.0 0.0212 0.0950 233.8645 0.0520 0.1757
0.0000 0.0050 0.1333 0.0000 0.0175 2.1951
0.8667 0.4060 0.0007 0.0014 33.0000 5.2839
0.1469 1212.0000
285.5 0.0200 0.0930 236.2618 0.0513 0.1288
0.0000 0.0092 0.1275 0.0000 0.0157 2.6152
0.8725 0.4044 0.0020 0.0010 33.0000 5.1457
0.1483 1200.0000
285.0 0.0165 0.0927 235.2545 0.0480 0.0511
0.0000 0.0183 0.1197 0.0000 0.0151 5.4254
0.8803 0.3963 0.0038 0.0011 33.0000 4.8095
0.1510 1218.0000
284.5 0.0141 0.0948 233.6012 0.0485 0.0266
0.0000 0.0264 0.1184 0.0000 0.0155 7.8239
0.8816 0.3868 0.0028 0.0013 33.0000 4.9922
0.1485 1204.0000
284.0 0.0099 0.0905 232.5081 0.0362 0.0062
0.0000 0.0333 0.1129 0.0146 0.0147 8.7149
0.8725 0.3810 0.0001 0.0015 33.0000 4.5235
0.1450 1202.0000
283.5 0.0113 0.0836 232.6925 0.0411 0.0105
0.0000 0.0296 0.1088 0.0046 0.0139 7.4746
0.8866 0.3872 0.0001 0.0016 33.0000 4.7656
0.1459 1200.0000
283.0 0.0153 0.0815 233.5945 0.0399 0.0410
0.0000 0.0254 0.1093 0.0000 0.0138 6.8307
0.8907 0.3921 0.0001 0.0016 33.0000 4.7302
0.1453 1194.0000
282.5 0.0176 0.0840 236.9112 0.0524 0.0611
0.0000 0.0200 0.1160 0.0000 0.0156 6.4295
0.8840 0.3949 0.0067 0.0013 33.0000 4.5133
0.1592 1180.0000
282.0 0.0153 0.0862 238.0503 0.0381 0.0308
0.0000 0.0297 0.1237 0.0048 0.0165 7.4875
0.8715 0.3807 0.0085 0.0006 33.0000 3.6642
0.1632 1181.0000
281.5 0.0133 0.0885 240.0661 0.0407 0.0159
0.0000 0.0364 0.1289 0.0228 0.0168 8.5026
0.8483 0.3713 0.0076 0.0001 33.0000 3.6877
0.1654 1199.0000
281.0 0.0075 0.0916 237.8037 0.0494 0.0013
0.0000 0.0425 0.1334 0.0394 0.0163 9.4254
0.8272 0.3633 0.0000 0.0001 33.0000 3.8599
0.1697 1208.0000
280.5 0.0075 0.0896 241.1770 0.0423 0.0014
0.0000 0.0368 0.1304 0.0239 0.0167 10.1333
0.8457 0.3704 0.0001 0.0006 33.0000 3.6505
0.1679 1183.0000
280.0 0.0104 0.0955 236.8027 0.0628 0.0055
0.0000 0.0306 0.1316 0.0073 0.0174 10.3770
0.8611 0.3767 0.0001 0.0009 33.0000 4.5098
0.1667 1205.0000
279.5 0.0124 0.1079 237.2346 0.0755 0.0117
0.0000 0.0171 0.1333 0.0000 0.0183 9.7364
0.8667 0.3911 0.0001 0.0013 33.0000 5.0389
0.1651 1194.0000

279.0	0.0158	0.1118	233.1514	0.1400	0.0341	0.0000	0.0079	0.1338	0.0000	0.0186	9.4977
0.8662	0.4015	0.0001	0.0016	33.0000	6.7802	0.1661	1195.0000				
278.5	0.0150	0.0955	239.6388	0.0539	0.0273	0.0000	0.0002	0.1309	0.0000	0.0183	9.3297
0.8691	0.4115	0.0001	0.0022	33.0000	4.3242	0.1638	1177.0000				
278.0	0.0157	0.0775	240.2932	0.0352	0.0383	0.0000	0.0002	0.1273	0.0000	0.0177	10.0428
0.8727	0.4130	0.0001	0.0020	33.0000	3.9103	0.1549	1188.0000				
277.5	0.0123	0.0773	241.1515	0.0290	0.0162	0.0000	0.0032	0.1274	0.0000	0.0168	9.3570
0.8726	0.4103	0.0001	0.0017	33.0000	4.1867	0.1426	1188.0000				
277.0	0.0102	0.0796	238.9122	0.0260	0.0078	0.0000	0.0141	0.1325	0.0000	0.0160	9.9324
0.8675	0.3970	0.0001	0.0008	33.0000	4.3223	0.1366	1207.0000				
276.5	0.0084	0.0780	238.7404	0.0220	0.0037	0.0000	0.0234	0.1337	0.0000	0.0157	10.4982
0.8663	0.3862	0.0001	0.0003	33.0000	4.2768	0.1316	1219.0000				
276.0	0.0061	0.0737	242.5407	0.0193	0.0009	0.0000	0.0293	0.1407	0.0038	0.0172	11.9167
0.8555	0.3761	0.0001	0.0002	33.0000	4.0305	0.1313	1216.0000				
275.5	0.0102	0.0771	242.4742	0.0238	0.0081	0.0000	0.0258	0.1409	0.0000	0.0198	11.5240
0.8591	0.3777	0.0001	0.0009	33.0000	4.1697	0.1360	1219.0000				
275.0	0.0124	0.0798	244.1233	0.0283	0.0148	0.0000	0.0165	0.1535	0.0000	0.0214	11.8515
0.8465	0.3838	0.0001	0.0016	33.0000	3.7513	0.1498	1222.0000				
274.5	0.0124	0.0814	241.8295	0.0260	0.0171	0.0000	0.0084	0.1587	0.0000	0.0220	12.1261
0.8413	0.3915	0.0001	0.0020	33.0000	4.0364	0.1413	1235.0000				
274.0	0.0131	0.0778	243.9738	0.0210	0.0231	0.0000	0.0113	0.1512	0.0000	0.0211	12.9688
0.8488	0.3908	0.0001	0.0018	33.0000	3.8461	0.1372	1211.0000				
273.5	0.0107	0.0729	242.9646	0.0171	0.0097	0.0000	0.0190	0.1530	0.0000	0.0214	11.5813
0.8470	0.3810	0.0001	0.0015	33.0000	3.4830	0.1371	1210.0000				
273.0	0.0049	0.0604	240.4575	0.0084	0.0005	0.0000	0.0268	0.1494	0.0000	0.0210	10.5954
0.8506	0.3733	0.0001	0.0015	33.0000	3.4362	0.1156	1224.0000				
272.5	0.0024	0.0442	237.5905	0.0028	0.0001	0.0000	0.0292	0.1485	0.0034	0.0209	9.1637
0.8481	0.3708	0.0001	0.0013	33.0000	4.4391	0.0774	1227.0000				

272.0	0.0042	0.0244	238.0758	0.0005	0.0028	0.0000	0.0276	0.1394	0.0000	0.0198	9.5223
0.8606	0.3760	0.0001	0.0014	33.0000	6.6256	0.0408	1222.0000				
271.5	0.0032	0.0347	238.0385	0.0010	0.0003	0.0000	0.0234	0.1385	0.0000	0.0196	8.4866
0.8615	0.3813	0.0001	0.0016	33.0000	3.5822	0.0668	1251.0000				
271.0	0.0000	0.0641	240.2113	0.0107	0.0000	0.0000	0.0197	0.1420	0.0000	0.0198	8.5050
0.8580	0.3845	0.0001	0.0020	33.0000	3.2717	0.1256	1252.0000				
270.5	0.0110	0.0813	239.2923	0.0296	0.0100	0.0000	0.0194	0.1502	0.0000	0.0208	9.2926
0.8498	0.3819	0.0001	0.0022	33.0000	4.3216	0.1410	1247.0000				
270.0	0.0108	0.0812	239.7180	0.0285	0.0075	0.0000	0.0216	0.1577	0.0000	0.0218	11.4306
0.8423	0.3765	0.0001	0.0022	33.0000	3.5412	0.1544	1245.0000				
269.5	0.0148	0.0739	236.8946	0.0193	0.0452	0.0000	0.0186	0.1576	0.0000	0.0218	13.2952
0.8424	0.3800	0.0001	0.0020	33.0000	4.0456	0.1311	1257.0000				
269.0	0.0145	0.0662	237.3168	0.0194	0.0283	0.0000	0.0151	0.1472	0.0000	0.0206	13.5555
0.8528	0.3879	0.0001	0.0019	33.0000	2.9969	0.1524	1265.0000				
268.5	0.0172	0.0679	238.9930	0.0218	0.0554	0.0000	0.0076	0.1330	0.0000	0.0187	13.2443
0.8670	0.4019	0.0001	0.0019	33.0000	2.9417	0.1585	1257.0000				
268.0	0.0132	0.0814	238.5158	0.0344	0.0138	0.0000	0.0098	0.1292	0.0000	0.0183	11.3590
0.8708	0.4008	0.0001	0.0018	33.0000	3.0363	0.1747	1261.0000				
267.5	0.0099	0.0871	235.7556	0.0382	0.0042	0.0000	0.0163	0.1425	0.0000	0.0200	9.7062
0.8575	0.3882	0.0001	0.0017	33.0000	3.3064	0.1720	1251.0000				
267.0	0.0060	0.0929	232.7181	0.0338	0.0007	0.0000	0.0284	0.1515	0.0013	0.0211	7.7104
0.8472	0.3708	0.0014	0.0014	33.0000	4.0098	0.1514	1254.0000				
266.5	0.0081	0.0833	233.3457	0.0267	0.0023	0.0000	0.0354	0.1534	0.0202	0.0210	7.8340
0.8264	0.3622	0.0038	0.0013	33.0000	3.5270	0.1522	1262.0000				
266.0	0.0156	0.0792	236.3124	0.0248	0.0454	0.0000	0.0347	0.1401	0.0184	0.0196	8.8650
0.8415	0.3677	0.0029	0.0011	33.0000	3.8270	0.1435	1286.0000				
265.5	0.0172	0.0679	239.7612	0.0209	0.0748	0.0000	0.0320	0.1362	0.0111	0.0193	10.6005
0.8527	0.3720	0.0006	0.0012	33.0000	3.6843	0.1401	1237.0000				

265.0 0.0137 0.0721 241.6659 0.0258 0.0310
0.0000 0.0287 0.1357 0.0021 0.0194 11.1614
0.8622 0.3760 0.0001 0.0012 33.0000 4.6303
0.1317 1264.0000
264.5 0.0127 0.0741 242.4270 0.0347 0.0209
0.0000 0.0309 0.1371 0.0080 0.0195 10.6885
0.8548 0.3730 0.0001 0.0013 33.0000 5.0807
0.1354 1244.0000
264.0 0.0133 0.0858 244.3168 0.0460 0.0245
0.0000 0.0319 0.1367 0.0107 0.0193 10.4223
0.8527 0.3722 0.0001 0.0009 33.0000 5.5655
0.1388 1282.0000
263.5 0.0155 0.0785 246.4739 0.0290 0.0406
0.0000 0.0351 0.1444 0.0195 0.0199 10.0520
0.8361 0.3658 0.0001 0.0004 33.0000 3.8449
0.1488 1267.0000
263.0 0.0136 0.0829 246.0451 0.0294 0.0231
0.0000 0.0372 0.1521 0.0250 0.0215 9.1569
0.8229 0.3599 0.0029 0.0000 33.0000 3.9108
0.1481 1286.0000
262.5 0.0171 0.0868 247.0270 0.0525 0.0665
0.0000 0.0356 0.1605 0.0209 0.0222 7.9066
0.8186 0.3590 0.0055 0.0000 33.0000 5.3987
0.1456 1273.0000
262.0 0.0158 0.0886 245.7101 0.0624 0.0411
0.0000 0.0325 0.1571 0.0123 0.0223 7.2554
0.8305 0.3635 0.0020 0.0000 33.0000 5.2886
0.1537 1279.0000
261.5 0.0168 0.0885 244.9606 0.0585 0.0611
0.0000 0.0255 0.1567 0.0000 0.0222 8.0529
0.8433 0.3718 0.0001 0.0006 33.0000 5.6274
0.1466 1283.0000
261.0 0.0185 0.0852 240.3743 0.0311 0.0869
0.0000 0.0215 0.1603 0.0000 0.0224 8.5444
0.8397 0.3754 0.0001 0.0014 33.0000 3.8821
0.1507 1280.0000
260.5 0.0190 0.0831 239.9235 0.0267 0.1146
0.0000 0.0151 0.1545 0.0000 0.0214 8.9394
0.8455 0.3852 0.0001 0.0020 33.0000 4.0526
0.1420 1287.0000
260.0 0.0212 0.0732 242.1104 0.0239 0.1586
0.0000 0.0116 0.1378 0.0000 0.0193 8.3419
0.8622 0.3954 0.0001 0.0019 33.0000 3.3553
0.1518 1284.0000
259.5 0.0212 0.0731 242.4327 0.0252 0.1636
0.0000 0.0092 0.1350 0.0000 0.0178 8.8837
0.8650 0.4004 0.0001 0.0013 33.0000 3.4990
0.1506 1274.0000
259.0 0.0166 0.0733 244.3463 0.0244 0.0508
0.0000 0.0166 0.1459 0.0000 0.0191 8.5383
0.8541 0.3878 0.0001 0.0006 33.0000 3.3292
0.1532 1289.0000
258.5 0.0149 0.0787 242.5686 0.0242 0.0359
0.0000 0.0252 0.1535 0.0000 0.0217 7.8815
0.8465 0.3733 0.0001 0.0009 33.0000 3.6960
0.1451 1276.0000

258.0 0.0100 0.0750 246.4540 0.0195 0.0066
0.0000 0.0265 0.1648 0.0000 0.0229 6.4245
0.8352 0.3680 0.0001 0.0014 33.0000 3.4951
0.1414 1268.0000
257.5 0.0105 0.0711 245.3402 0.0159 0.0100
0.0000 0.0242 0.1558 0.0000 0.0216 6.3716
0.8442 0.3740 0.0001 0.0019 33.0000 3.6749
0.1309 1295.0000
257.0 0.0109 0.0670 247.3043 0.0172 0.0098
0.0000 0.0188 0.1348 0.0000 0.0190 7.3269
0.8652 0.3881 0.0001 0.0018 33.0000 3.2533
0.1419 1287.0000
256.5 0.0101 0.0729 245.7682 0.0234 0.0083
0.0000 0.0142 0.1285 0.0000 0.0174 8.2979
0.8715 0.3967 0.0001 0.0015 33.0000 4.4118
0.1316 1271.0000
256.0 0.0106 0.0807 244.9439 0.0273 0.0089
0.0000 0.0041 0.1332 0.0000 0.0173 8.0997
0.8668 0.4072 0.0001 0.0014 33.0000 4.2589
0.1393 1278.0000
255.5 0.0075 0.0807 242.9817 0.0217 0.0025
0.0000 0.0002 0.1275 0.0000 0.0179 8.2303
0.8725 0.4128 0.0045 0.0013 33.0000 4.4745
0.1282 1275.0000
255.0 0.0088 0.0784 245.2739 0.0233 0.0039
0.0000 0.0036 0.1338 0.0000 0.0186 10.2496
0.8662 0.4065 0.0040 0.0014 33.0000 3.8604
0.1406 1323.0000
254.5 0.0110 0.0742 245.8996 0.0189 0.0108
0.0000 0.0074 0.1323 0.0000 0.0183 13.1027
0.8677 0.4027 0.0007 0.0016 33.0000 3.6255
0.1376 1300.0000
254.0 0.0119 0.0684 241.0603 0.0153 0.0157
0.0000 0.0162 0.1299 0.0000 0.0182 14.3884
0.8701 0.3933 0.0001 0.0016 33.0000 3.3809
0.1353 1303.0000
253.5 0.0113 0.0662 238.9509 0.0139 0.0132
0.0000 0.0115 0.1330 0.0000 0.0176 12.8647
0.8670 0.3985 0.0001 0.0013 33.0000 3.3210
0.1332 1293.0000
253.0 0.0086 0.0637 232.3632 0.0129 0.0040
0.0000 0.0185 0.1408 0.0000 0.0183 9.9520
0.8592 0.3876 0.0023 0.0006 33.0000 3.1807
0.1336 1268.0000
252.5 0.0104 0.0627 236.1064 0.0140 0.0085
0.0000 0.0158 0.1422 0.0000 0.0190 7.4832
0.8578 0.3897 0.0113 0.0001 33.0000 3.0840
0.1386 1298.0000
252.0 0.0127 0.0654 233.0027 0.0139 0.0221
0.0000 0.0193 0.1533 0.0000 0.0199 6.0923
0.8467 0.3820 0.0152 0.0001 33.0000 3.3641
0.1323 1305.0000
251.5 0.0070 0.0602 237.5003 0.0109 0.0020
0.0000 0.0228 0.1491 0.0000 0.0201 6.3924
0.8509 0.3787 0.0101 0.0001 33.0000 3.4853
0.1223 1302.0000

251.0 0.0096 0.0692 233.6077 0.0131 0.0091
0.0000 0.0365 0.1464 0.0233 0.0204 8.8525
0.8303 0.3632 0.0024 0.0001 33.0000 4.4293
0.1137 1289.0000
250.5 0.0038 0.0629 233.7482 0.0122 0.0002
0.0000 0.0460 0.1486 0.0486 0.0205 11.3026
0.8028 0.3515 0.0001 0.0000 33.0000 3.8001
0.1205 1278.0000
250.0 0.0044 0.0656 234.0154 0.0112 0.0004
0.0000 0.0447 0.1493 0.0451 0.0206 12.1958
0.8055 0.3528 0.0001 0.0000 33.0000 4.4432
0.1091 1283.0000
249.5 0.0057 0.0660 234.7099 0.0119 0.0011
0.0000 0.0330 0.1539 0.0138 0.0206 11.4722
0.8322 0.3652 0.0001 0.0000 33.0000 4.6593
0.1083 1287.0000
249.0 0.0091 0.0730 232.8328 0.0148 0.0074
0.0000 0.0185 0.1547 0.0000 0.0212 10.5151
0.8453 0.3815 0.0001 0.0004 33.0000 4.7813
0.1129 1286.0000
248.5 0.0130 0.0723 230.6501 0.0219 0.0193
0.0000 0.0108 0.1620 0.0000 0.0228 10.1132
0.8380 0.3870 0.0014 0.0005 33.0000 3.4952
0.1455 1282.0000
248.0 0.0170 0.0671 232.5415 0.0170 0.0666
0.0000 0.0045 0.1814 0.0000 0.0243 10.5393
0.8186 0.3883 0.0088 0.0011 33.0000 3.1510
0.1438 1328.0000
247.5 0.0191 0.0636 232.1417 0.0149 0.1658
0.0000 0.0002 0.1812 0.0000 0.0246 10.1538
0.8188 0.3931 0.0145 0.0016 33.0000 3.9096
0.1250 1301.0000
247.0 0.0184 0.0663 232.5152 0.0160 0.1515
0.0000 0.0002 0.1653 0.0000 0.0226 10.0608
0.8347 0.3988 0.0126 0.0018 33.0000 4.3388
0.1208 1300.0000
246.5 0.0139 0.0673 231.1756 0.0154 0.0383
0.0000 0.0065 0.1461 0.0000 0.0195 8.5513
0.8539 0.3992 0.0117 0.0016 33.0000 3.9391
0.1256 1328.0000
246.0 0.0027 0.0650 232.7343 0.0126 0.0000
0.0000 0.0222 0.1349 0.0000 0.0181 8.9210
0.8651 0.3850 0.0084 0.0012 33.0000 3.4398
0.1278 1323.0000
245.5 0.0063 0.0506 234.9857 0.0075 0.0012
0.0000 0.0308 0.1315 0.0079 0.0176 8.5553
0.8606 0.3763 0.0090 0.0011 33.0000 2.7186
0.1263 1338.0000
245.0 0.0050 0.0516 231.9287 0.0091 0.0004
0.0000 0.0294 0.1385 0.0042 0.0182 8.6129
0.8573 0.3755 0.0098 0.0016 33.0000 2.8689
0.1290 1328.0000
244.5 0.0158 0.0514 232.3811 0.0239 0.0240
0.0000 0.0223 0.1408 0.0000 0.0180 8.1344
0.8592 0.3835 0.0126 0.0021 33.0000 2.0980
0.1920 1321.0000

244.0 0.0071 0.0584 227.7686 0.0182 0.0009
0.0000 0.0174 0.1404 0.0000 0.0178 8.1575
0.8596 0.3894 0.0116 0.0026 33.0000 2.1494
0.1772 1276.0000
243.5 0.0094 0.0569 229.2034 0.0166 0.0030
0.0000 0.0204 0.1321 0.0000 0.0173 9.6076
0.8679 0.3886 0.0081 0.0025 33.0000 1.9805
0.1804 1282.0000
243.0 0.0094 0.0569 223.5649 0.0166 0.0030
0.0000 0.0263 0.1099 0.0000 0.0153 9.6328
0.8901 0.3894 0.0023 0.0022 33.0000 1.9805
0.1804 1292.0000
242.5 0.0029 0.0567 221.3901 0.0083 0.0000
0.0000 0.0271 0.1086 0.0000 0.0136 10.0579
0.8914 0.3904 0.0001 0.0016 33.0000 2.6554
0.1308 1282.0000
242.0 0.0052 0.0600 218.2800 0.0101 0.0005
0.0000 0.0200 0.1131 0.0000 0.0140 9.2053
0.8869 0.3971 0.0001 0.0015 33.0000 2.8008
0.1339 1273.0000
241.5 0.0079 0.0631 218.2833 0.0156 0.0030
0.0000 0.0109 0.1267 0.0000 0.0172 9.7667
0.8733 0.4011 0.0001 0.0017 33.0000 3.6307
0.1312 1282.0000
241.0 0.0097 0.0621 217.7628 0.0116 0.0077
0.0000 0.0067 0.1518 0.0000 0.0209 9.9701
0.8482 0.3962 0.0001 0.0024 33.0000 3.4065
0.1258 1274.0000
240.5 0.0201 0.0609 214.6289 0.0152 0.1413
0.0000 0.0061 0.1550 0.0000 0.0212 10.9499
0.8450 0.3957 0.0001 0.0027 33.0000 2.9350
0.1449 1265.0000
240.0 0.0193 0.0593 212.1867 0.0141 0.1148
0.0000 0.0076 0.1538 0.0000 0.0210 11.5614
0.8462 0.3945 0.0001 0.0030 33.0000 2.7999
0.1457 1248.0000
239.5 0.0186 0.0590 209.8470 0.0118 0.1110
0.0000 0.0137 0.1431 0.0000 0.0197 11.6241
0.8569 0.3913 0.0001 0.0027 33.0000 2.8468
0.1380 1289.0000
239.0 0.0088 0.0685 209.1912 0.0143 0.0041
0.0000 0.0197 0.1525 0.0000 0.0211 10.4873
0.8475 0.3807 0.0001 0.0023 33.0000 3.1245
0.1383 1346.0000
238.5 0.0042 0.0868 208.6280 0.0244 0.0002
0.0000 0.0286 0.1588 0.0019 0.0220 9.4121
0.8394 0.3678 0.0001 0.0018 33.0000 3.6733
0.1458 1339.0000
238.0 0.0039 0.1136 206.0958 0.0774 0.0001
0.0000 0.0313 0.1761 0.0091 0.0230 8.4399
0.8148 0.3595 0.0087 0.0018 33.0000 4.0291
0.1858 1341.0000
237.5 0.0040 0.1772 207.2759 0.3335 0.0000
0.0000 0.0341 0.1795 0.0166 0.0229 8.4610
0.8038 0.3555 0.0122 0.0018 33.0000 5.0482
0.2392 1363.0000

237.0	0.0033	0.1712	206.7270	0.2774	0.0000	0.0000	0.0284	0.1630	0.0014	0.0211	8.0069
0.8357	0.3679	0.0101	0.0021	33.0000	4.5090	0.2417	1358.0000				
236.5	0.0025	0.1502	211.2696	0.1580	0.0000	0.0000	0.0227	0.1549	0.0000	0.0202	7.5970
0.8451	0.3774	0.0086	0.0023	33.0000	4.2505	0.2162	1356.0000				
236.0	0.0076	0.0826	218.0002	0.0292	0.0020	0.0000	0.0177	0.1418	0.0000	0.0188	6.9317
0.8582	0.3879	0.0070	0.0022	33.0000	4.0751	0.1448	1348.0000				
235.5	0.0151	0.0700	221.3270	0.0236	0.0474	0.0000	0.0173	0.1452	0.0000	0.0191	6.7054
0.8548	0.3872	0.0090	0.0019	33.0000	4.3321	0.1331	1371.0000				
235.0	0.0201	0.0537	225.2995	0.0165	0.2132	0.0000	0.0184	0.1273	0.0000	0.0174	6.4466
0.8727	0.3920	0.0064	0.0013	33.0000	4.1759	0.1240	1342.0000				
234.5	0.0109	0.0636	225.3052	0.0237	0.0144	0.0000	0.0207	0.1260	0.0000	0.0172	5.8910
0.8740	0.3899	0.0071	0.0010	33.0000	5.4299	0.1191	1268.0000				
234.0	0.0040	0.0939	226.2862	0.0430	0.0001	0.0000	0.0260	0.1311	0.0000	0.0183	5.8593
0.8689	0.3814	0.0043	0.0009	33.0000	4.7834	0.1472	1249.0000				
233.5	0.0027	0.1874	217.4462	0.4677	0.0000	0.0000	0.0317	0.1600	0.0101	0.0219	6.3867
0.8298	0.3640	0.0036	0.0013	33.0000	5.6502	0.2460	1251.0000				
233.0	0.0048	0.2947	208.7484	2.4541	0.0000	0.0000	0.0349	0.1877	0.0189	0.0256	7.1879
0.7934	0.3501	0.0003	0.0016	33.0000	6.1250	0.3576	1254.0000				
232.5	0.0060	0.3701	199.7010	5.8933	0.0001	0.0000	0.0352	0.2120	0.0197	0.0282	8.4397
0.7683	0.3415	0.0007	0.0019	33.0000	6.2100	0.4421	1235.0000				
232.0	0.0084	0.4015	198.1727	8.0365	0.0002	0.0000	0.0368	0.2201	0.0241	0.0292	9.3916
0.7558	0.3369	0.0008	0.0018	33.0000	5.4728	0.5089	1257.0000				
231.5	0.0090	0.4041	197.1148	9.5453	0.0002	0.0000	0.0367	0.2197	0.0236	0.0291	10.6234
0.7566	0.3372	0.0017	0.0016	33.0000	5.3782	0.5359	1243.0000				
231.0	0.0000	0.3997	199.9657	8.3430	0.0000	0.0000	0.0316	0.2147	0.0101	0.0288	9.3404
0.7753	0.3446	0.0001	0.0016	33.0000	4.4716	0.5683	1263.0000				
230.5	0.0000	0.3727	202.4635	6.3912	0.0000	0.0000	0.0207	0.2169	0.0000	0.0288	7.6464
0.7831	0.3568	0.0001	0.0021	33.0000	5.1350	0.4961	1237.0000				

230.0 0.0045 0.3478 201.5518 4.7550 0.0000
0.0000 0.0132 0.2172 0.0000 0.0287 5.9240
0.7828 0.3656 0.0001 0.0026 33.0000 5.2154
0.4572 1251.0000
229.5 0.0129 0.2938 202.2877 2.4490 0.0024
0.0000 0.0144 0.2146 0.0000 0.0284 5.9496
0.7854 0.3651 0.0001 0.0026 33.0000 5.9333
0.3631 1264.0000
229.0 0.0110 0.2777 201.7830 2.0584 0.0011
0.0000 0.0171 0.2020 0.0000 0.0271 6.7528
0.7980 0.3661 0.0001 0.0022 33.0000 5.0278
0.3777 1237.0000
228.5 0.0115 0.2692 206.5544 2.0198 0.0011
0.0000 0.0197 0.1904 0.0000 0.0259 7.4540
0.8096 0.3669 0.0001 0.0017 33.0000 4.0200
0.4204 1251.0000
228.0 0.0111 0.2572 207.7364 1.9495 0.0008
0.0000 0.0210 0.1827 0.0000 0.0251 8.5249
0.8173 0.3680 0.0001 0.0015 33.0000 3.3112
0.4592 1279.0000
227.5 0.0086 0.2394 209.8185 1.4995 0.0003
0.0000 0.0252 0.1824 0.0000 0.0249 9.1683
0.8176 0.3633 0.0001 0.0017 33.0000 3.3554
0.4272 1265.0000
227.0 0.0124 0.2250 208.8939 1.3857 0.0019
0.0000 0.0275 0.1811 0.0000 0.0247 10.1098
0.8189 0.3612 0.0001 0.0021 33.0000 4.1747
0.3755 1284.0000
226.5 0.0117 0.2351 209.3159 1.5579 0.0015
0.0000 0.0290 0.1803 0.0031 0.0244 11.0400
0.8166 0.3598 0.0001 0.0025 33.0000 4.4154
0.3760 1224.0000
226.0 0.0088 0.2320 210.1820 1.3792 0.0005
0.0000 0.0312 0.1796 0.0089 0.0243 11.9937
0.8114 0.3575 0.0001 0.0026 33.0000 4.0929
0.3788 1209.0000
225.5 0.0065 0.2440 208.4839 1.5360 0.0001
0.0000 0.0342 0.1867 0.0171 0.0252 11.6407
0.7962 0.3514 0.0001 0.0023 33.0000 3.9995
0.3936 1223.0000
225.0 0.0090 0.2782 206.5470 2.3887 0.0004
0.0000 0.0292 0.1960 0.0035 0.0265 10.4377
0.8006 0.3539 0.0001 0.0018 33.0000 4.7471
0.4035 1205.0000
224.5 0.0100 0.2878 202.6223 2.6928 0.0006
0.0000 0.0173 0.2110 0.0000 0.0279 9.3840
0.7890 0.3630 0.0036 0.0015 33.0000 4.7436
0.4159 1218.0000
224.0 0.0100 0.2652 200.0618 2.0636 0.0008
0.0000 0.0035 0.2136 0.0000 0.0285 8.6333
0.7864 0.3779 0.0012 0.0016 33.0000 4.8925
0.3832 1219.0000
223.5 0.0093 0.2348 196.3129 1.3580 0.0006
0.0000 0.0003 0.2097 0.0000 0.0281 9.2686
0.7903 0.3829 0.0001 0.0019 33.0000 4.4844
0.3605 1203.0000

223.0 0.0100 0.2312 192.9220 1.2708 0.0010
0.0000 0.0058 0.2044 0.0000 0.0273 8.6326
0.7956 0.3786 0.0001 0.0024 33.0000 4.9265
0.3382 1210.0000
222.5 0.0126 0.2451 188.0094 1.5745 0.0025
0.0000 0.0112 0.1977 0.0000 0.0264 8.7034
0.8023 0.3746 0.0001 0.0025 33.0000 5.3856
0.3413 1211.0000
222.0 0.0112 0.2717 189.3321 2.3204 0.0012
0.0000 0.0149 0.1938 0.0000 0.0260 7.9686
0.8062 0.3716 0.0001 0.0026 33.0000 5.1992
0.3827 1205.0000
221.5 0.0060 0.3153 188.6924 3.2500 0.0001
0.0000 0.0205 0.1902 0.0000 0.0256 8.3670
0.8098 0.3663 0.0001 0.0024 33.0000 4.7792
0.4343 1188.0000
221.0 0.0069 0.3550 190.6189 5.3604 0.0001
0.0000 0.0267 0.1974 0.0000 0.0264 9.4975
0.8026 0.3566 0.0001 0.0025 33.0000 4.7700
0.4926 1248.0000
220.5 0.0081 0.3646 186.1999 5.8500 0.0002
0.0000 0.0308 0.2026 0.0080 0.0271 10.4167
0.7894 0.3498 0.0001 0.0023 33.0000 5.2184
0.4814 1203.0000
220.0 0.0113 0.3474 185.4900 5.8232 0.0008
0.0000 0.0242 0.2119 0.0000 0.0282 10.9825
0.7881 0.3544 0.0001 0.0022 33.0000 5.6339
0.4628 1237.0000
219.5 0.0132 0.3472 186.3305 6.0329 0.0017
0.0000 0.0195 0.2108 0.0000 0.0282 9.9943
0.7892 0.3602 0.0001 0.0020 33.0000 6.0495
0.4506 1231.0000
219.0 0.0129 0.3350 183.1583 5.1704 0.0015
0.0000 0.0138 0.2223 0.0000 0.0285 7.8958
0.7777 0.3639 0.0066 0.0023 33.0000 5.6201
0.4498 1230.0000
218.5 0.0120 0.3334 179.7448 4.9482 0.0011
0.0000 0.0165 0.2201 0.0000 0.0280 6.5643
0.7799 0.3618 0.0085 0.0022 33.0000 5.4034
0.4537 1232.0000
218.0 0.0109 0.3410 173.9132 5.2787 0.0007
0.0000 0.0220 0.2214 0.0000 0.0280 6.8140
0.7786 0.3551 0.0094 0.0023 33.0000 5.0711
0.4760 1252.0000
217.5 0.0097 0.3477 172.6029 5.5624 0.0004
0.0000 0.0307 0.2108 0.0075 0.0276 9.1872
0.7817 0.3477 0.0042 0.0021 33.0000 5.0132
0.4850 1251.0000
217.0 0.0079 0.3309 173.7347 4.4031 0.0002
0.0000 0.0410 0.2084 0.0353 0.0277 10.4250
0.7563 0.3361 0.0001 0.0024 33.0000 4.7554
0.4697 1283.0000
216.5 0.0063 0.3039 178.4962 2.9366 0.0001
0.0000 0.0390 0.2126 0.0299 0.0281 9.6871
0.7575 0.3371 0.0001 0.0026 33.0000 4.3624
0.4432 1226.0000

216.0	0.0096	0.2851	183.6193	2.6014	0.0005
0.0000	0.0378	0.2151	0.0266	0.0285	7.6892
0.7582	0.3376	0.0001	0.0025	33.0000	4.6121
0.4182	1202.0000				
215.5	0.0107	0.2832	181.4531	2.6525	0.0008
0.0000	0.0291	0.2083	0.0032	0.0278	6.3030
0.7884	0.3500	0.0001	0.0023	33.0000	4.7440
0.4143	1225.0000				
215.0	0.0115	0.3040	178.5750	3.6235	0.0011
0.0000	0.0304	0.1938	0.0067	0.0263	5.6738
0.7995	0.3533	0.0005	0.0017	33.0000	5.0730
0.4331	1200.0000				
214.5	0.0121	0.2675	175.9296	2.2325	0.0016
0.0000	0.0247	0.1840	0.0000	0.0253	4.6688
0.8160	0.3631	0.0001	0.0013	33.0000	4.9536
0.3883	1198.0000				
214.0	0.0107	0.2692	177.1145	2.2192	0.0010
0.0000	0.0214	0.1845	0.0000	0.0254	3.4672
0.8155	0.3668	0.0001	0.0012	33.0000	4.7667
0.3953	1198.0000				
213.5	0.0111	0.2850	176.3444	2.6816	0.0010
0.0000	0.0197	0.1822	0.0000	0.0251	3.8710
0.8178	0.3696	0.0001	0.0013	33.0000	4.8661
0.4102	1177.0000				
213.0	0.0132	0.3048	175.0778	3.7219	0.0017
0.0000	0.0180	0.1790	0.0000	0.0246	4.9075
0.8210	0.3728	0.0001	0.0014	33.0000	4.7802
0.4492	1211.0000				
212.5	0.0158	0.3242	174.7425	4.8593	0.0034
0.0000	0.0231	0.1741	0.0000	0.0240	5.7826
0.8259	0.3687	0.0001	0.0017	33.0000	5.2654
0.4575	1188.0000				
212.0	0.0182	0.3139	172.5037	4.6935	0.0071
0.0000	0.0196	0.1844	0.0000	0.0250	5.9272
0.8156	0.3693	0.0001	0.0022	33.0000	5.8592
0.4300	1214.0000				
211.5	0.0125	0.3164	171.7427	4.2145	0.0015
0.0000	0.0245	0.1962	0.0000	0.0263	5.9460
0.8038	0.3596	0.0001	0.0025	33.0000	5.5236
0.4311	1207.0000				
211.0	0.0121	0.3329	171.9063	4.9600	0.0013
0.0000	0.0203	0.2020	0.0000	0.0269	6.8056
0.7980	0.3625	0.0001	0.0026	33.0000	5.8256
0.4372	1242.0000				
210.5	0.0097	0.3290	174.0064	4.6266	0.0004
0.0000	0.0225	0.1982	0.0000	0.0266	6.1021
0.8018	0.3611	0.0001	0.0022	33.0000	4.9796
0.4647	1205.0000				
210.0	0.0114	0.3117	178.1726	3.7965	0.0010
0.0000	0.0198	0.1982	0.0000	0.0263	6.0990
0.8018	0.3646	0.0032	0.0019	33.0000	5.1189
0.4363	1189.0000				
209.5	0.0082	0.2800	182.0230	2.2386	0.0003
0.0000	0.0230	0.2115	0.0000	0.0276	6.2185
0.7885	0.3565	0.0051	0.0018	33.0000	4.8441
0.3930	1207.0000				

209.0	0.0063	0.2639	185.9009	1.6125	0.0001
0.0000	0.0279	0.2237	0.0000	0.0297	7.4560
0.7763	0.3460	0.0001	0.0018	33.0000	4.7164
0.3669	1185.0000				
208.5	0.0086	0.2578	185.0713	1.5102	0.0005
0.0000	0.0322	0.2347	0.0117	0.0309	8.0386
0.7536	0.3373	0.0001	0.0019	33.0000	4.9209
0.3534	1258.0000				
208.0	0.0073	0.2333	183.0329	1.1443	0.0003
0.0000	0.0332	0.2374	0.0144	0.0312	7.3691
0.7482	0.3353	0.0001	0.0019	33.0000	4.5370
0.3434	1226.0000				
207.5	0.0098	0.2197	182.3428	0.9941	0.0011
0.0000	0.0279	0.2266	0.0002	0.0299	7.2417
0.7732	0.3451	0.0001	0.0022	33.0000	5.3648
0.3048	1232.0000				
207.0	0.0078	0.2096	183.3226	0.7940	0.0005
0.0000	0.0217	0.2218	0.0000	0.0292	7.4007
0.7782	0.3541	0.0001	0.0025	33.0000	4.9467
0.3001	1167.0000				
206.5	0.0058	0.1998	182.8635	0.5656	0.0001
0.0000	0.0128	0.2023	0.0000	0.0269	8.8587
0.7977	0.3713	0.0001	0.0028	33.0000	4.3239
0.2949	1247.0000				
206.0	0.0094	0.2253	185.2367	0.9711	0.0008
0.0000	0.0087	0.1925	0.0000	0.0257	9.7817
0.8075	0.3794	0.0001	0.0029	33.0000	4.2225
0.3416	1238.0000				
205.5	0.0026	0.1850	188.3137	0.4584	0.0000
0.0000	0.0052	0.1789	0.0000	0.0241	10.0841
0.8211	0.3882	0.0001	0.0029	33.0000	4.0080
0.2906	1254.0000				
205.0	0.0000	0.1402	190.1800	0.1380	0.0000
0.0000	0.0077	0.1725	0.0000	0.0233	10.1645
0.8275	0.3877	0.0001	0.0029	33.0000	3.7105
0.2237	1254.0000				
204.5	0.0095	0.0611	190.6275	0.0123	0.0054
0.0000	0.0095	0.1591	0.0000	0.0218	9.9603
0.8409	0.3903	0.0001	0.0025	33.0000	2.8226
0.1402	1226.0000				
204.0	0.0171	0.0446	192.9304	0.0043	0.2147
0.0000	0.0121	0.1343	0.0000	0.0188	10.8037
0.8657	0.3963	0.0001	0.0021	33.0000	3.6663
0.0943	1248.0000				
203.5	0.0209	0.0275	195.6890	0.0013	1.9160
0.0000	0.0134	0.1247	0.0000	0.0168	9.9362
0.8753	0.3992	0.0001	0.0017	33.0000	4.0987
0.0668	1269.0000				
203.0	0.0000	0.0151	194.4562	0.0001	0.0000
0.0000	0.0158	0.1185	0.0000	0.0154	8.6658
0.8815	0.3993	0.0001	0.0017	33.0000	3.4154
0.0350	1233.0000				
202.5	0.0010	0.0076	192.8574	0.0000	0.0000
0.0000	0.0214	0.1246	0.0000	0.0171	5.7906
0.8754	0.3896	0.0001	0.0016	33.0000	3.6938
0.0156	1252.0000				

202.0	0.0000	0.0051	197.3393	0.0000	0.0000
0.0000	0.0249	0.1320	0.0000	0.0188	4.5709
0.8680	0.3820	0.0001	0.0015	33.0000	1.8321
0.0192	1246.0000				
201.5	0.0017	0.0077	195.7611	0.0000	0.0001
0.0000	0.0242	0.1420	0.0000	0.0201	3.9333
0.8580	0.3789	0.0001	0.0013	33.0000	1.9783
0.0365	1237.0000				
201.0	0.0016	0.0107	195.4497	0.0001	0.0000
0.0000	0.0205	0.1385	0.0000	0.0196	4.8834
0.8615	0.3846	0.0001	0.0011	33.0000	1.7511
0.0479	1265.0000				
200.5	0.0023	0.0135	190.0281	0.0001	0.0001
0.0000	0.0197	0.1407	0.0000	0.0192	4.9032
0.8593	0.3854	0.0001	0.0009	33.0000	1.8529
0.0530	1232.0000				
200.0	0.0023	0.0159	193.4451	0.0001	0.0001
0.0000	0.0265	0.1444	0.0000	0.0200	5.9117
0.8556	0.3758	0.0001	0.0007	33.0000	2.0077
0.0499	1265.0000				
199.5	0.0040	0.0126	193.5306	0.0001	0.0016
0.0000	0.0339	0.1522	0.0161	0.0217	6.4238
0.8317	0.3636	0.0001	0.0006	33.0000	1.9587
0.0481	1237.0000				
199.0	0.0053	0.0080	195.2006	0.0000	0.0108
0.0000	0.0375	0.1603	0.0258	0.0227	7.4486
0.8140	0.3565	0.0001	0.0007	33.0000	2.1083
0.0365	1258.0000				
198.5	0.0034	0.0141	196.2911	0.0001	0.0013
0.0000	0.0345	0.1568	0.0178	0.0221	7.1164
0.8253	0.3613	0.0001	0.0010	33.0000	2.5131
0.0391	1226.0000				
198.0	0.0006	0.0198	196.5087	0.0001	0.0000
0.0000	0.0264	0.1480	0.0000	0.0209	5.7224
0.8520	0.3741	0.0001	0.0012	33.0000	2.5495
0.0441	1207.0000				
197.5	0.0033	0.0215	195.7404	0.0002	0.0009
0.0000	0.0216	0.1364	0.0000	0.0189	4.4759
0.8636	0.3845	0.0001	0.0011	33.0000	4.1437
0.0432	1173.0000				
197.0	0.0035	0.0183	196.3428	0.0002	0.0010
0.0000	0.0193	0.1352	0.0000	0.0177	3.0685
0.8648	0.3887	0.0001	0.0010	33.0000	3.7484
0.0458	1202.0000				
196.5	0.0148	0.0178	196.0441	0.0011	0.3596
0.0000	0.0227	0.1346	0.0000	0.0171	2.2893
0.8654	0.3854	0.0001	0.0008	33.0000	4.3079
0.0626	1213.0000				
196.0	0.0119	0.0262	194.1971	0.0051	0.0410
0.0000	0.0206	0.1337	0.0000	0.0174	2.2370
0.8663	0.3878	0.0001	0.0010	33.0000	4.1358
0.0928	1196.0000				
195.5	0.0185	0.0328	191.8273	0.0130	0.1201
0.0000	0.0144	0.1347	0.0000	0.0184	3.0948
0.8653	0.3939	0.0001	0.0013	33.0000	3.1872
0.1337	1209.0000				

195.0 0.0103 0.0417 191.1108 0.0067 0.0154
0.0000 0.0041 0.1287 0.0000 0.0181 3.9614
0.8713 0.4076 0.0001 0.0019 33.0000 3.6339
0.1059 1163.0000
194.5 0.0049 0.0408 193.9379 0.0031 0.0006
0.0000 0.0003 0.1321 0.0000 0.0185 3.9644
0.8679 0.4109 0.0001 0.0023 33.0000 2.5952
0.1037 1184.0000
194.0 0.0041 0.0469 195.2423 0.0032 0.0004
0.0000 0.0037 0.1228 0.0000 0.0172 4.3538
0.8772 0.4105 0.0001 0.0024 33.0000 3.4836
0.0902 1187.0000
193.5 0.0035 0.0508 192.9803 0.0044 0.0002
0.0000 0.0092 0.1217 0.0000 0.0171 5.7914
0.8783 0.4045 0.0001 0.0021 33.0000 3.3441
0.0995 1172.0000
193.0 0.0035 0.0525 192.4831 0.0052 0.0001
0.0000 0.0058 0.1174 0.0000 0.0155 6.6717
0.8826 0.4111 0.0001 0.0021 33.0000 3.1828
0.1063 1198.0000
192.5 0.0020 0.0491 192.1101 0.0038 0.0000
0.0000 0.0002 0.1169 0.0000 0.0154 7.0800
0.8831 0.4179 0.0001 0.0023 33.0000 2.8372
0.1039 1226.0000
192.0 0.0048 0.0442 196.6998 0.0041 0.0005
0.0000 0.0002 0.1130 0.0000 0.0149 6.5170
0.8870 0.4195 0.0001 0.0024 33.0000 2.7855
0.1074 1262.0000
191.5 0.0047 0.0410 196.1651 0.0030 0.0005
0.0000 0.0018 0.1149 0.0000 0.0150 7.3842
0.8851 0.4169 0.0001 0.0022 33.0000 2.5049
0.1050 1242.0000
191.0 0.0066 0.0362 194.6146 0.0028 0.0023
0.0000 0.0116 0.1106 0.0000 0.0137 7.8473
0.8894 0.4079 0.0001 0.0018 33.0000 2.4130
0.1044 1224.0000
190.5 0.0060 0.0418 191.9516 0.0031 0.0016
0.0000 0.0210 0.1044 0.0000 0.0121 8.5702
0.8956 0.4000 0.0001 0.0013 33.0000 2.7121
0.1012 1240.0000
190.0 0.0064 0.0349 193.4675 0.0018 0.0024
0.0000 0.0252 0.0983 0.0000 0.0108 8.0497
0.9017 0.3981 0.0001 0.0008 33.0000 2.3489
0.0954 1249.0000
189.5 0.0078 0.0256 195.5509 0.0015 0.0048
0.0000 0.0262 0.0991 0.0000 0.0106 7.5198
0.9009 0.3968 0.0001 0.0004 33.0000 1.8403
0.1030 1245.0000
189.0 0.0101 0.0255 194.9420 0.0016 0.0137
0.0000 0.0246 0.1086 0.0000 0.0118 6.7893
0.8914 0.3950 0.0001 0.0004 33.0000 1.7683
0.1059 1211.0000
188.5 0.0088 0.0300 193.9327 0.0019 0.0081
0.0000 0.0238 0.1236 0.0000 0.0145 6.7783
0.8764 0.3895 0.0001 0.0006 33.0000 2.1152
0.1019 1216.0000

188.0 0.0057 0.0435 193.8652 0.0025 0.0017
0.0000 0.0198 0.1322 0.0000 0.0169 6.7755
0.8678 0.3896 0.0001 0.0010 33.0000 3.1059
0.0901 1231.0000
187.5 0.0058 0.0399 196.7143 0.0024 0.0017
0.0000 0.0153 0.1407 0.0000 0.0181 6.7398
0.8593 0.3915 0.0001 0.0008 33.0000 2.7618
0.0946 1202.0000
187.0 0.0036 0.0389 198.2801 0.0016 0.0002
0.0000 0.0143 0.1451 0.0000 0.0187 6.2366
0.8549 0.3910 0.0006 0.0006 33.0000 2.5272
0.0885 1200.0000
186.5 0.0054 0.0343 199.5528 0.0012 0.0017
0.0000 0.0183 0.1479 0.0000 0.0193 5.8734
0.8521 0.3850 0.0001 0.0005 33.0000 2.5170
0.0824 1230.0000
186.0 0.0035 0.0331 194.8930 0.0013 0.0002
0.0000 0.0254 0.1422 0.0000 0.0201 6.2175
0.8578 0.3775 0.0001 0.0008 33.0000 2.3146
0.0882 1220.0000
185.5 0.0092 0.0284 192.5179 0.0014 0.0127
0.0000 0.0260 0.1381 0.0000 0.0193 6.7358
0.8619 0.3786 0.0001 0.0010 33.0000 2.2274
0.0921 1227.0000
185.0 0.0082 0.0312 189.8086 0.0063 0.0020
0.0000 0.0295 0.1368 0.0044 0.0187 6.6557
0.8587 0.3753 0.0001 0.0009 33.0000 1.4422
0.1660 1220.0000
184.5 0.0097 0.0344 192.2318 0.0062 0.0046
0.0000 0.0328 0.1381 0.0132 0.0190 5.1936
0.8487 0.3710 0.0001 0.0007 33.0000 1.5575
0.1587 1212.0000
184.0 0.0029 0.0389 189.5035 0.0068 0.0000
0.0000 0.0377 0.1417 0.0264 0.0202 3.9926
0.8318 0.3632 0.0001 0.0010 33.0000 1.4954
0.1661 1197.0000
183.5 0.0017 0.0351 190.3570 0.0018 0.0000
0.0000 0.0335 0.1396 0.0151 0.0198 4.0201
0.8452 0.3690 0.0001 0.0013 33.0000 1.8172
0.1084 1237.0000
183.0 0.0018 0.0343 188.8559 0.0022 0.0000
0.0000 0.0248 0.1285 0.0000 0.0180 5.7289
0.8715 0.3836 0.0001 0.0014 33.0000 1.8066
0.1134 1237.0000
182.5 0.0014 0.0329 190.2404 0.0015 0.0000
0.0000 0.0114 0.1210 0.0000 0.0154 7.0150
0.8790 0.4038 0.0001 0.0016 33.0000 1.8131
0.1041 1207.0000
182.0 0.0020 0.0351 191.5620 0.0019 0.0000
0.0000 0.0128 0.1198 0.0000 0.0149 7.3052
0.8802 0.4028 0.0001 0.0015 33.0000 2.2657
0.0981 1214.0000
181.5 0.0000 0.0402 192.1654 0.0021 0.0000
0.0000 0.0193 0.1193 0.0000 0.0150 6.2851
0.8807 0.3953 0.0001 0.0014 33.0000 2.2796
0.1008 1210.0000

181.0 0.0026 0.0421 192.3713 0.0029 0.0000
0.0000 0.0357 0.1246 0.0210 0.0155 6.9681
0.8543 0.3744 0.0001 0.0007 33.0000 2.2327
0.1094 1236.0000
180.5 0.0035 0.0370 190.8082 0.0015 0.0003
0.0000 0.0386 0.1202 0.0288 0.0140 7.8114
0.8510 0.3735 0.0001 0.0003 33.0000 3.0216
0.0802 1213.0000
180.0 0.0071 0.0352 193.5285 0.0022 0.0200
0.0000 0.0377 0.1095 0.0264 0.0122 8.6274
0.8641 0.3791 0.0001 0.0003 33.0000 9.9596
0.0485 1185.0000
179.5 0.0034 0.0319 193.9962 0.0011 0.0017
0.0000 0.0258 0.0922 0.0000 0.0099 7.2444
0.9078 0.3999 0.0001 0.0007 33.0000 14.1143
0.0342 1178.0000
179.0 0.0000 0.0304 196.1657 0.0003 0.0000
0.0000 0.0179 0.0812 0.0000 0.0085 5.1340
0.9188 0.4134 0.0001 0.0010 33.0000 3.6542
0.0498 1195.0000
178.5 0.0000 0.0310 196.2146 0.0006 0.0000
0.0000 0.0166 0.0838 0.0000 0.0090 3.6815
0.9162 0.4139 0.0054 0.0011 33.0000 2.2789
0.0741 1174.0000
178.0 0.0006 0.0341 202.7031 0.0011 0.0000
0.0000 0.0225 0.0903 0.0000 0.0101 3.6132
0.9097 0.4040 0.0063 0.0012 33.0000 2.0643
0.0903 1220.0000
177.5 0.0035 0.0401 203.8676 0.0027 0.0002
0.0000 0.0312 0.0989 0.0089 0.0119 4.8714
0.8922 0.3899 0.0039 0.0013 33.0000 2.4549
0.1025 1224.0000
177.0 0.0035 0.0386 205.9003 0.0026 0.0002
0.0000 0.0362 0.1078 0.0223 0.0134 5.5527
0.8700 0.3802 0.0001 0.0013 33.0000 2.3229
0.1045 1161.0000
176.5 0.0003 0.0331 202.5854 0.0012 0.0000
0.0000 0.0359 0.1171 0.0215 0.0151 6.5626
0.8614 0.3765 0.0001 0.0012 33.0000 2.6388
0.0817 1185.0000
176.0 0.0014 0.0271 203.4636 0.0005 0.0000
0.0000 0.0315 0.1270 0.0098 0.0164 6.2875
0.8632 0.3777 0.0001 0.0009 33.0000 2.7621
0.0645 1166.0000
175.5 0.0039 0.0269 203.5422 0.0005 0.0009
0.0000 0.0246 0.1280 0.0000 0.0161 7.0059
0.8720 0.3858 0.0001 0.0009 33.0000 3.1150
0.0600 1194.0000
175.0 0.0043 0.0296 205.1088 0.0008 0.0008
0.0000 0.0198 0.1263 0.0000 0.0164 7.4264
0.8737 0.3916 0.0001 0.0013 33.0000 2.5088
0.0745 1209.0000
174.5 0.0034 0.0331 206.8822 0.0015 0.0002
0.0000 0.0178 0.1246 0.0000 0.0163 8.8652
0.8754 0.3944 0.0001 0.0015 33.0000 2.1986
0.0945 1180.0000

174.0	0.0016	0.0344	210.8528	0.0022	0.0000	0.0000	0.0129	0.1337	0.0000	0.0176	9.1514
0.8663	0.3967	0.0001	0.0012	33.0000	2.0063	0.1076	1202.0000				
173.5	0.0052	0.0296	211.9727	0.0021	0.0007	0.0000	0.0036	0.1404	0.0000	0.0170	8.1933
0.8596	0.4063	0.0001	0.0007	33.0000	1.8202	0.1124	1261.0000				
173.0	0.0054	0.0316	212.9223	0.0016	0.0011	0.0000	0.0002	0.1358	0.0000	0.0164	6.3562
0.8642	0.4121	0.0014	0.0008	33.0000	2.0553	0.0986	1248.0000				
172.5	0.0056	0.0324	212.1823	0.0013	0.0020	0.0000	0.0002	0.1288	0.0000	0.0157	5.6748
0.8712	0.4145	0.0001	0.0013	33.0000	2.7088	0.0823	1259.0000				
172.0	0.0038	0.0310	212.2843	0.0010	0.0004	0.0000	0.0070	0.1252	0.0000	0.0160	7.4830
0.8748	0.4072	0.0001	0.0015	33.0000	2.5013	0.0795	1244.0000				
171.5	0.0042	0.0304	207.5523	0.0009	0.0007	0.0000	0.0241	0.1265	0.0000	0.0168	8.7473
0.8735	0.3861	0.0001	0.0013	33.0000	2.5031	0.0770	1258.0000				
171.0	0.0033	0.0473	205.5987	0.0046	0.0001	0.0000	0.0300	0.1329	0.0058	0.0171	9.7603
0.8613	0.3773	0.0001	0.0007	33.0000	2.9403	0.1072	1256.0000				
170.5	0.0017	0.0457	206.2997	0.0022	0.0000	0.0000	0.0323	0.1357	0.0118	0.0176	9.0413
0.8525	0.3735	0.0001	0.0006	33.0000	3.3633	0.0836	1244.0000				
170.0	0.0024	0.0412	211.6061	0.0015	0.0001	0.0000	0.0237	0.1298	0.0000	0.0161	8.9417
0.8702	0.3864	0.0001	0.0008	33.0000	3.6599	0.0733	1237.0000				
169.5	0.0030	0.0266	213.9842	0.0005	0.0003	0.0000	0.0184	0.1255	0.0000	0.0162	7.6651
0.8745	0.3936	0.0001	0.0013	33.0000	3.7180	0.0542	1244.0000				
169.0	0.0043	0.0290	214.7605	0.0011	0.0009	0.0000	0.0073	0.1270	0.0000	0.0170	6.7500
0.8730	0.4056	0.0001	0.0017	33.0000	3.3439	0.0702	1273.0000				
168.5	0.0048	0.0327	215.5841	0.0016	0.0011	0.0000	0.0084	0.1328	0.0000	0.0187	6.0139
0.8672	0.4011	0.0001	0.0016	33.0000	3.2439	0.0783	1237.0000				
168.0	0.0052	0.0301	214.1061	0.0008	0.0018	0.0000	0.0133	0.1347	0.0000	0.0184	5.7695
0.8653	0.3952	0.0001	0.0013	33.0000	2.5892	0.0733	1265.0000				
167.5	0.0091	0.0310	213.8685	0.0016	0.0113	0.0000	0.0227	0.1321	0.0000	0.0172	5.8969
0.8679	0.3860	0.0001	0.0010	33.0000	2.2390	0.0945	1198.0000				

167.0 0.0073 0.0360 209.8748 0.0021 0.0034
0.0000 0.0306 0.1270 0.0074 0.0168 6.5040
0.8656 0.3784 0.0001 0.0011 33.0000 2.0628
0.1060 1256.0000
166.5 0.0056 0.0382 210.5171 0.0022 0.0013
0.0000 0.0284 0.1277 0.0014 0.0179 7.1409
0.8708 0.3798 0.0001 0.0014 33.0000 2.4141
0.0984 1251.0000
166.0 0.0032 0.0444 217.7819 0.0018 0.0003
0.0000 0.0294 0.1367 0.0041 0.0194 8.0646
0.8591 0.3749 0.0001 0.0015 33.0000 4.0690
0.0726 1257.0000
165.5 0.0009 0.0368 221.3433 0.0007 0.0000
0.0000 0.0236 0.1472 0.0000 0.0206 8.7515
0.8528 0.3779 0.0001 0.0017 33.0000 3.1041
0.0659 1274.0000
165.0 0.0015 0.0329 224.1203 0.0006 0.0000
0.0000 0.0245 0.1542 0.0000 0.0215 9.5013
0.8458 0.3742 0.0001 0.0018 33.0000 3.0381
0.0624 1254.0000
164.5 0.0013 0.0284 218.8691 0.0004 0.0000
0.0000 0.0171 0.1496 0.0000 0.0209 9.6539
0.8504 0.3846 0.0001 0.0019 33.0000 2.5638
0.0615 1271.0000
164.0 0.0021 0.0287 218.1894 0.0004 0.0001
0.0000 0.0114 0.1358 0.0000 0.0192 7.4663
0.8642 0.3964 0.0001 0.0016 33.0000 3.0377
0.0586 1237.0000
163.5 0.0015 0.0337 217.4951 0.0008 0.0000
0.0000 0.0063 0.1347 0.0000 0.0171 5.6753
0.8653 0.4046 0.0001 0.0012 33.0000 3.0732
0.0679 1268.0000
163.0 0.0020 0.0329 217.5068 0.0008 0.0000
0.0000 0.0091 0.1372 0.0000 0.0174 4.0361
0.8628 0.4004 0.0001 0.0010 33.0000 2.5736
0.0749 1273.0000
162.5 0.0036 0.0371 216.7235 0.0011 0.0004
0.0000 0.0112 0.1413 0.0000 0.0190 4.9986
0.8587 0.3954 0.0001 0.0010 33.0000 3.1570
0.0725 1256.0000
162.0 0.0028 0.0364 217.4006 0.0011 0.0001
0.0000 0.0123 0.1438 0.0000 0.0196 5.0914
0.8562 0.3928 0.0001 0.0010 33.0000 3.3519
0.0700 1268.0000
161.5 0.0049 0.0319 215.8221 0.0011 0.0013
0.0000 0.0112 0.1467 0.0000 0.0187 5.1171
0.8533 0.3942 0.0001 0.0006 33.0000 2.8937
0.0758 1278.0000
161.0 0.0049 0.0292 214.7933 0.0015 0.0010
0.0000 0.0136 0.1468 0.0000 0.0180 4.5731
0.8532 0.3922 0.0001 0.0004 33.0000 2.5827
0.0865 1291.0000
160.5 0.0085 0.0217 211.0194 0.0013 0.0087
0.0000 0.0133 0.1528 0.0000 0.0194 4.7665
0.8472 0.3896 0.0001 0.0003 33.0000 2.0938
0.0929 1237.0000

160.0 0.0034 0.0229 208.0190 0.0010 0.0002
0.0000 0.0093 0.1570 0.0000 0.0216 5.1867
0.8430 0.3912 0.0001 0.0005 33.0000 1.8327
0.0938 1237.0000
159.5 0.0038 0.0255 209.2709 0.0011 0.0003
0.0000 0.0035 0.1625 0.0000 0.0230 5.8249
0.8375 0.3954 0.0001 0.0006 33.0000 1.8458
0.0937 1240.0000
159.0 0.0015 0.0318 208.5369 0.0011 0.0000
0.0000 0.0019 0.1672 0.0000 0.0234 5.5962
0.8328 0.3956 0.0001 0.0009 33.0000 1.8664
0.0953 1227.0000
158.5 0.0027 0.0351 208.4795 0.0015 0.0001
0.0000 0.0050 0.1740 0.0000 0.0241 5.3021
0.8260 0.3897 0.0001 0.0012 33.0000 2.3174
0.0912 1254.0000
158.0 0.0024 0.0340 203.8931 0.0013 0.0001
0.0000 0.0103 0.1768 0.0000 0.0243 4.2940
0.8232 0.3826 0.0001 0.0015 33.0000 2.2824
0.0886 1310.0000
157.5 0.0046 0.0408 203.3130 0.0020 0.0007
0.0000 0.0107 0.1798 0.0000 0.0246 4.3687
0.8202 0.3811 0.0001 0.0018 33.0000 2.6854
0.0909 1259.0000
157.0 0.0040 0.0547 203.7582 0.0045 0.0002
0.0000 0.0081 0.1684 0.0000 0.0232 4.0974
0.8316 0.3883 0.0001 0.0020 33.0000 2.9142
0.1072 1269.0000
156.5 0.0022 0.0594 206.2259 0.0058 0.0000
0.0000 0.0047 0.1621 0.0000 0.0224 4.4991
0.8379 0.3945 0.0001 0.0020 33.0000 3.4714
0.1048 1260.0000
156.0 0.0029 0.0529 205.2799 0.0042 0.0001
0.0000 0.0085 0.1460 0.0000 0.0204 4.9053
0.8540 0.3960 0.0001 0.0018 33.0000 3.2039
0.1007 1227.0000
155.5 0.0011 0.0383 206.2695 0.0012 0.0000
0.0000 0.0149 0.1421 0.0000 0.0201 5.9031
0.8579 0.3898 0.0001 0.0015 33.0000 2.6605
0.0809 1278.0000
155.0 0.0041 0.0382 207.4764 0.0014 0.0005
0.0000 0.0189 0.1365 0.0000 0.0194 6.1068
0.8635 0.3872 0.0001 0.0014 33.0000 2.5704
0.0856 1254.0000
154.5 0.0012 0.0383 206.3867 0.0014 0.0000
0.0000 0.0171 0.1414 0.0000 0.0199 5.3305
0.8586 0.3876 0.0001 0.0017 33.0000 2.9367
0.0802 1241.0000
154.0 0.0045 0.0361 202.6012 0.0023 0.0006
0.0000 0.0149 0.1394 0.0000 0.0194 4.2064
0.8606 0.3911 0.0001 0.0022 33.0000 3.1996
0.0866 1229.0000
153.5 0.0000 0.0330 202.7258 0.0012 0.0000
0.0000 0.0179 0.1360 0.0000 0.0189 3.4854
0.8640 0.3890 0.0001 0.0026 33.0000 2.5390
0.0833 1251.0000

153.0 0.0053 0.0322 209.6040 0.0013 0.0014
0.0000 0.0237 0.1171 0.0000 0.0165 3.7918
0.8829 0.3894 0.0001 0.0024 33.0000 2.3815
0.0868 1205.0000
152.5 0.0026 0.0380 214.3234 0.0017 0.0001
0.0000 0.0278 0.1087 0.0000 0.0147 3.9612
0.8913 0.3885 0.0001 0.0020 33.0000 2.6302
0.0882 1205.0000
152.0 0.0065 0.0397 212.7686 0.0026 0.0038
0.0000 0.0279 0.1098 0.0000 0.0137 3.9894
0.8902 0.3891 0.0001 0.0015 33.0000 3.8406
0.0813 1207.0000
151.5 0.0017 0.0320 209.2032 0.0015 0.0000
0.0000 0.0257 0.1124 0.0000 0.0141 4.4644
0.8876 0.3906 0.0025 0.0013 33.0000 2.2749
0.0918 1230.0000
151.0 0.0028 0.0250 209.4700 0.0007 0.0001
0.0000 0.0257 0.1181 0.0000 0.0147 5.5447
0.8819 0.3885 0.0001 0.0012 33.0000 2.4254
0.0747 1225.0000
150.5 0.0060 0.0210 207.6049 0.0007 0.0026
0.0000 0.0272 0.1137 0.0000 0.0143 7.5388
0.8863 0.3883 0.0001 0.0014 33.0000 1.8989
0.0829 1224.0000
150.0 0.0035 0.0241 206.4250 0.0007 0.0003
0.0000 0.0247 0.1099 0.0000 0.0140 7.6995
0.8901 0.3925 0.0001 0.0017 33.0000 2.0347
0.0804 1236.0000
149.5 0.0004 0.0320 205.1779 0.0012 0.0000
0.0000 0.0196 0.1038 0.0000 0.0126 7.4811
0.8962 0.4015 0.0001 0.0017 33.0000 2.0536
0.0925 1226.0000
149.0 0.0000 0.0385 205.8998 0.0009 0.0000
0.0000 0.0094 0.1082 0.0000 0.0130 5.6312
0.8918 0.4117 0.0001 0.0018 33.0000 2.5951
0.0755 1220.0000
148.5 0.0000 0.0352 208.0211 0.0007 0.0000
0.0000 0.0175 0.1196 0.0000 0.0149 5.5948
0.8804 0.3975 0.0001 0.0013 33.0000 3.1580
0.0640 1202.0000
148.0 0.0000 0.0332 206.0992 0.0006 0.0000
0.0000 0.0259 0.1308 0.0000 0.0181 5.9763
0.8692 0.3817 0.0001 0.0012 33.0000 3.4437
0.0586 1207.0000
147.5 0.0033 0.0308 208.3043 0.0008 0.0002
0.0000 0.0399 0.1321 0.0325 0.0189 7.6006
0.8355 0.3643 0.0001 0.0010 33.0000 2.4669
0.0761 1183.0000
147.0 0.0037 0.0317 208.9676 0.0010 0.0003
0.0000 0.0378 0.1297 0.0267 0.0175 8.0116
0.8436 0.3687 0.0001 0.0009 33.0000 2.3768
0.0807 1202.0000
146.5 0.0027 0.0426 207.9283 0.0019 0.0001
0.0000 0.0384 0.1183 0.0282 0.0147 8.8580
0.8535 0.3736 0.0001 0.0009 33.0000 3.2871
0.0813 1226.0000

146.0 0.0015 0.0393 206.4091 0.0012 0.0000
0.0000 0.0324 0.1122 0.0121 0.0132 9.3091
0.8757 0.3836 0.0001 0.0008 33.0000 3.1124
0.0740 1216.0000
145.5 0.0011 0.0416 202.3000 0.0014 0.0000
0.0000 0.0317 0.1096 0.0103 0.0131 10.8745
0.8801 0.3853 0.0001 0.0010 33.0000 3.2607
0.0754 1234.0000
145.0 0.0071 0.0280 206.5477 0.0008 0.0059
0.0000 0.0282 0.1198 0.0007 0.0146 10.5176
0.8794 0.3852 0.0001 0.0009 33.0000 2.3459
0.0784 1247.0000
144.5 0.0090 0.0257 206.9904 0.0009 0.0155
0.0000 0.0254 0.1244 0.0000 0.0162 10.0903
0.8756 0.3857 0.0001 0.0012 33.0000 2.2070
0.0821 1243.0000
144.0 0.0059 0.0264 207.5923 0.0008 0.0031
0.0000 0.0224 0.1310 0.0000 0.0176 8.4976
0.8690 0.3863 0.0001 0.0012 33.0000 2.4777
0.0748 1237.0000
143.5 0.0031 0.0322 205.7218 0.0010 0.0002
0.0000 0.0209 0.1295 0.0000 0.0173 8.6266
0.8705 0.3887 0.0001 0.0013 33.0000 2.6934
0.0769 1230.0000
143.0 0.0053 0.0328 206.4920 0.0018 0.0018
0.0000 0.0213 0.1291 0.0000 0.0162 7.9036
0.8709 0.3893 0.0001 0.0010 33.0000 3.5600
0.0769 1226.0000
142.5 0.0028 0.0328 206.0523 0.0013 0.0001
0.0000 0.0193 0.1205 0.0000 0.0148 8.5036
0.8795 0.3952 0.0001 0.0012 33.0000 2.9158
0.0788 1235.0000
142.0 0.0046 0.0281 203.8782 0.0010 0.0009
0.0000 0.0151 0.1198 0.0000 0.0150 7.4939
0.8802 0.4001 0.0001 0.0014 33.0000 2.6026
0.0786 1224.0000
141.5 0.0058 0.0288 203.1822 0.0010 0.0021
0.0000 0.0134 0.1178 0.0000 0.0156 7.6508
0.8822 0.4021 0.0001 0.0019 33.0000 2.2774
0.0843 1241.0000
141.0 0.0063 0.0212 206.0007 0.0007 0.0031
0.0000 0.0175 0.1190 0.0000 0.0157 6.4495
0.8810 0.3968 0.0001 0.0017 33.0000 1.8863
0.0842 1226.0000
140.5 0.0057 0.0279 209.4330 0.0011 0.0018
0.0000 0.0200 0.1123 0.0000 0.0143 5.5871
0.8877 0.3970 0.0001 0.0017 33.0000 2.1775
0.0877 1195.0000
140.0 0.0018 0.0417 208.8212 0.0017 0.0000
0.0000 0.0260 0.1054 0.0000 0.0131 4.6470
0.8946 0.3931 0.0001 0.0017 33.0000 3.0633
0.0819 1211.0000
139.5 0.0000 0.0470 209.9717 0.0024 0.0000
0.0000 0.0286 0.1033 0.0020 0.0127 4.4032
0.8946 0.3909 0.0001 0.0016 33.0000 3.5888
0.0824 1213.0000

139.0	0.0000	0.0452	208.8401	0.0021	0.0000	0.0000	0.0377	0.1086	0.0264	0.0135	5.3698
0.8650	0.3781	0.0001	0.0013	33.0000	3.1591	0.0854	1226.0000				
138.5	0.0010	0.0322	209.3145	0.0015	0.0000	0.0000	0.0378	0.1136	0.0267	0.0138	6.5293
0.8597	0.3763	0.0001	0.0009	33.0000	2.1490	0.0946	1186.0000				
138.0	0.0019	0.0298	206.1326	0.0013	0.0000	0.0000	0.0325	0.1177	0.0124	0.0145	6.8549
0.8700	0.3809	0.0001	0.0010	33.0000	1.8387	0.0982	1213.0000				
137.5	0.0001	0.0310	205.3517	0.0010	0.0000	0.0000	0.0170	0.1221	0.0000	0.0154	7.2946
0.8779	0.3969	0.0001	0.0014	33.0000	1.8425	0.0935	1178.0000				
137.0	0.0012	0.0312	209.1710	0.0013	0.0000	0.0000	0.0093	0.1280	0.0000	0.0174	7.2530
0.8720	0.4024	0.0001	0.0017	33.0000	1.8488	0.0991	1196.0000				
136.5	0.0009	0.0325	209.8813	0.0015	0.0000	0.0000	0.0091	0.1323	0.0000	0.0187	7.4720
0.8677	0.4004	0.0001	0.0019	33.0000	1.9978	0.0989	1199.0000				
136.0	0.0039	0.0280	208.7169	0.0016	0.0003	0.0000	0.0160	0.1312	0.0000	0.0186	6.6747
0.8688	0.3927	0.0001	0.0017	33.0000	1.9503	0.1013	1186.0000				
135.5	0.0053	0.0288	201.3280	0.0013	0.0012	0.0000	0.0155	0.1296	0.0000	0.0177	5.9784
0.8704	0.3946	0.0001	0.0015	33.0000	2.1606	0.0918	1214.0000				
135.0	0.0047	0.0469	203.0574	0.0032	0.0007	0.0000	0.0111	0.1297	0.0000	0.0161	6.7612
0.8703	0.4012	0.0001	0.0011	33.0000	3.0670	0.0957	1182.0000				
134.5	0.0053	0.0522	204.3434	0.0044	0.0009	0.0000	0.0063	0.1325	0.0000	0.0161	7.1789
0.8675	0.4060	0.0001	0.0010	33.0000	3.1822	0.1023	1186.0000				
134.0	0.0044	0.0524	205.9538	0.0047	0.0004	0.0000	0.0050	0.1346	0.0000	0.0168	7.1224
0.8654	0.4063	0.0001	0.0011	33.0000	2.9876	0.1070	1202.0000				
133.5	0.0072	0.0284	202.5001	0.0013	0.0041	0.0000	0.0129	0.1402	0.0000	0.0189	5.1007
0.8598	0.3937	0.0001	0.0011	33.0000	2.0111	0.0946	1205.0000				
133.0	0.0053	0.0249	203.7763	0.0009	0.0013	0.0000	0.0146	0.1429	0.0000	0.0197	4.4966
0.8571	0.3903	0.0001	0.0010	33.0000	1.9587	0.0879	1216.0000				
132.5	0.0020	0.0253	204.5788	0.0010	0.0000	0.0000	0.0161	0.1448	0.0000	0.0194	4.3397
0.8552	0.3883	0.0001	0.0008	33.0000	1.9320	0.0915	1230.0000				

132.0 0.0002 0.0339 208.0778 0.0011 0.0000
0.0000 0.0112 0.1441 0.0000 0.0194 5.9332
0.8559 0.3942 0.0001 0.0009 33.0000 1.9657
0.0908 1181.0000
131.5 0.0017 0.0356 210.0549 0.0012 0.0000
0.0000 0.0196 0.1406 0.0000 0.0200 7.1732
0.8594 0.3848 0.0001 0.0012 33.0000 2.3351
0.0869 1195.0000
131.0 0.0008 0.0384 211.8078 0.0007 0.0000
0.0000 0.0294 0.1558 0.0040 0.0218 7.9102
0.8403 0.3679 0.0001 0.0015 33.0000 3.7791
0.0588 1181.0000
130.5 0.0023 0.0396 208.8137 0.0037 0.0000
0.0000 0.0331 0.1594 0.0140 0.0221 7.7383
0.8266 0.3624 0.0001 0.0018 33.0000 2.2212
0.1169 1214.0000
130.0 0.0000 0.0384 203.8531 0.0030 0.0000
0.0000 0.0234 0.1577 0.0000 0.0218 7.4524
0.8423 0.3744 0.0001 0.0021 33.0000 1.9439
0.1188 1209.0000
129.5 0.0010 0.0355 202.5686 0.0028 0.0000
0.0000 0.0127 0.1430 0.0000 0.0199 7.5578
0.8570 0.3923 0.0001 0.0022 33.0000 1.8284
0.1204 1229.0000
129.0 0.0000 0.0291 206.4860 0.0005 0.0000
0.0000 0.0083 0.1387 0.0000 0.0193 8.2914
0.8613 0.3991 0.0001 0.0024 33.0000 2.2681
0.0714 1207.0000
128.5 0.0029 0.0252 210.7179 0.0006 0.0001
0.0000 0.0167 0.1388 0.0000 0.0191 9.0091
0.8612 0.3895 0.0012 0.0024 33.0000 1.8050
0.0833 1213.0000
128.0 0.0000 0.0275 213.9265 0.0009 0.0000
0.0000 0.0197 0.1413 0.0000 0.0195 10.1790
0.8587 0.3850 0.0001 0.0027 33.0000 1.7523
0.0925 1226.0000
127.5 0.0019 0.0343 212.6177 0.0029 0.0000
0.0000 0.0229 0.1356 0.0000 0.0189 10.2323
0.8644 0.3833 0.0001 0.0024 33.0000 2.0170
0.1160 1218.0000
127.0 0.0000 0.0423 212.0311 0.0018 0.0000
0.0000 0.0241 0.1316 0.0000 0.0185 10.2951
0.8684 0.3832 0.0001 0.0020 33.0000 3.0933
0.0824 1202.0000
126.5 0.0018 0.0329 209.9537 0.0023 0.0000
0.0000 0.0304 0.1284 0.0067 0.0181 9.3003
0.8649 0.3772 0.0001 0.0013 33.0000 1.7326
0.1175 1211.0000
126.0 0.0000 0.0258 210.6622 0.0021 0.0000
0.0000 0.0343 0.1308 0.0173 0.0184 8.4938
0.8519 0.3717 0.0001 0.0011 33.0000 1.4486
0.1254 1186.0000
125.5 0.0002 0.0236 208.3554 0.0008 0.0000
0.0000 0.0288 0.1333 0.0024 0.0187 6.9490
0.8643 0.3771 0.0001 0.0011 33.0000 1.5873
0.0958 1216.0000

125.0 0.0023 0.0256 208.3430 0.0004 0.0001
0.0000 0.0168 0.1338 0.0000 0.0190 5.5600
0.8662 0.3907 0.0002 0.0014 33.0000 2.6886
0.0621 1212.0000
124.5 0.0019 0.0267 208.4538 0.0006 0.0000
0.0000 0.0016 0.1299 0.0000 0.0182 5.1167
0.8701 0.4102 0.0029 0.0017 33.0000 2.4426
0.0698 1185.0000
124.0 0.0020 0.0191 207.6842 0.0002 0.0001
0.0000 0.0002 0.1308 0.0000 0.0165 5.2746
0.8692 0.4133 0.0001 0.0014 33.0000 2.5282
0.0526 1218.0000
123.5 0.0017 0.0095 208.5917 0.0000 0.0002
0.0000 0.0018 0.1300 0.0000 0.0151 4.9569
0.8700 0.4128 0.0001 0.0009 33.0000 2.4712
0.0264 1215.0000
123.0 0.0030 0.0053 202.7399 0.0000 0.0025
0.0000 0.0133 0.1341 0.0000 0.0154 3.2757
0.8659 0.3981 0.0001 0.0004 33.0000 2.1695
0.0229 1186.0000
122.5 0.0010 0.0136 202.9095 0.0000 0.0000
0.0000 0.0246 0.1335 0.0000 0.0163 2.1905
0.8665 0.3842 0.0001 0.0005 33.0000 1.8867
0.0423 1218.0000
122.0 0.0013 0.0254 198.3671 0.0004 0.0000
0.0000 0.0303 0.1313 0.0065 0.0188 3.2069
0.8622 0.3758 0.0001 0.0012 33.0000 2.1241
0.0691 1193.0000
121.5 0.0033 0.0287 199.1420 0.0007 0.0003
0.0000 0.0345 0.1396 0.0177 0.0196 5.0731
0.8427 0.3681 0.0001 0.0019 33.0000 2.4551
0.0723 1212.0000
121.0 0.0064 0.0235 200.3789 0.0006 0.0051
0.0000 0.0308 0.1443 0.0078 0.0201 6.6767
0.8478 0.3707 0.0001 0.0022 33.0000 2.4977
0.0698 1247.0000
120.5 0.0066 0.0212 201.4438 0.0007 0.0045
0.0000 0.0252 0.1353 0.0000 0.0190 6.9275
0.8647 0.3806 0.0001 0.0020 33.0000 2.1597
0.0775 1181.0000
120.0 0.0058 0.0216 203.2620 0.0008 0.0020
0.0000 0.0178 0.1378 0.0000 0.0194 6.7252
0.8622 0.3881 0.0001 0.0018 33.0000 1.8471
0.0873 1237.0000
119.5 0.0031 0.0269 203.4286 0.0011 0.0001
0.0000 0.0158 0.1358 0.0000 0.0193 6.9470
0.8642 0.3911 0.0001 0.0014 33.0000 1.7403
0.0980 1183.0000
119.0 0.0005 0.0273 207.9276 0.0010 0.0000
0.0000 0.0173 0.1424 0.0000 0.0200 7.6211
0.8576 0.3871 0.0001 0.0010 33.0000 1.6868
0.0957 1221.0000
118.5 0.0022 0.0337 209.9028 0.0012 0.0000
0.0000 0.0183 0.1473 0.0000 0.0187 8.2147
0.8527 0.3858 0.0001 0.0004 33.0000 2.4135
0.0853 1238.0000

118.0 0.0007 0.0339 211.2748 0.0010 0.0000
0.0000 0.0202 0.1541 0.0000 0.0191 6.7966
0.8459 0.3815 0.0001 0.0000 33.0000 2.4808
0.0801 1219.0000
117.5 0.0022 0.0343 209.6752 0.0014 0.0000
0.0000 0.0180 0.1511 0.0000 0.0182 4.7906
0.8489 0.3857 0.0001 0.0000 33.0000 3.1429
0.0766 1203.0000
117.0 0.0023 0.0258 208.2274 0.0009 0.0000
0.0000 0.0131 0.1526 0.0000 0.0200 2.6134
0.8474 0.3893 0.0001 0.0005 33.0000 2.2068
0.0827 1230.0000
116.5 0.0023 0.0255 208.3144 0.0007 0.0001
0.0000 0.0026 0.1421 0.0000 0.0199 3.0847
0.8579 0.4043 0.0001 0.0014 33.0000 2.2328
0.0771 1227.0000
116.0 0.0048 0.0241 207.0867 0.0004 0.0016
0.0000 0.0002 0.1417 0.0000 0.0198 3.7518
0.8583 0.4074 0.0001 0.0021 33.0000 2.1927
0.0685 1260.0000
115.5 0.0044 0.0256 207.3054 0.0004 0.0013
0.0000 0.0002 0.1297 0.0000 0.0182 4.8889
0.8703 0.4120 0.0001 0.0023 33.0000 2.4796
0.0624 1251.0000
115.0 0.0028 0.0240 206.7319 0.0004 0.0002
0.0000 0.0002 0.1300 0.0000 0.0182 4.7466
0.8700 0.4118 0.0001 0.0022 33.0000 2.3354
0.0638 1233.0000
114.5 0.0005 0.0202 209.1354 0.0002 0.0000
0.0000 0.0047 0.1360 0.0000 0.0192 5.2073
0.8640 0.4040 0.0001 0.0017 33.0000 2.0896
0.0571 1251.0000
114.0 0.0027 0.0201 208.5332 0.0002 0.0002
0.0000 0.0170 0.1373 0.0000 0.0186 5.1470
0.8627 0.3899 0.0001 0.0011 33.0000 2.3617
0.0539 1218.0000
113.5 0.0048 0.0192 209.9109 0.0002 0.0032
0.0000 0.0202 0.1433 0.0000 0.0189 5.0148
0.8567 0.3844 0.0001 0.0007 33.0000 2.8558
0.0505 1238.0000
113.0 0.0040 0.0247 210.2001 0.0004 0.0009
0.0000 0.0189 0.1442 0.0000 0.0193 4.6666
0.8558 0.3854 0.0001 0.0007 33.0000 2.5571
0.0629 1193.0000
112.5 0.0045 0.0322 212.2838 0.0008 0.0009
0.0000 0.0176 0.1451 0.0000 0.0206 4.7060
0.8549 0.3854 0.0001 0.0010 33.0000 2.4489
0.0758 1246.0000
112.0 0.0034 0.0311 211.5447 0.0012 0.0003
0.0000 0.0168 0.1378 0.0000 0.0196 4.8041
0.8622 0.3891 0.0001 0.0013 33.0000 2.8649
0.0782 1213.0000
111.5 0.0043 0.0316 210.2159 0.0014 0.0006
0.0000 0.0182 0.1271 0.0000 0.0165 5.1592
0.8729 0.3932 0.0001 0.0013 33.0000 2.7762
0.0826 1235.0000

111.0	0.0012	0.0281	212.0043	0.0010	0.0000	0.0000	0.0190	0.1136	0.0000	0.0134	5.0211
0.8864	0.3987	0.0001	0.0012	33.0000	2.5221	0.0795	1230.0000				
110.5	0.0016	0.0297	212.5642	0.0012	0.0000	0.0000	0.0192	0.1081	0.0000	0.0125	5.0206
0.8919	0.4008	0.0001	0.0011	33.0000	1.8110	0.0980	1220.0000				
110.0	0.0014	0.0290	213.8137	0.0010	0.0000	0.0000	0.0149	0.1152	0.0000	0.0142	4.3670
0.8848	0.4024	0.0001	0.0015	33.0000	1.9274	0.0900	1205.0000				
109.5	0.0017	0.0294	209.6250	0.0012	0.0000	0.0000	0.0078	0.1180	0.0000	0.0155	3.9184
0.8820	0.4086	0.0001	0.0020	33.0000	2.1258	0.0902	1181.0000				
109.0	0.0000	0.0306	208.7507	0.0010	0.0000	0.0000	0.0002	0.1188	0.0000	0.0163	3.0852
0.8812	0.4166	0.0001	0.0024	33.0000	2.1949	0.0844	1211.0000				
108.5	0.0000	0.0319	207.9037	0.0008	0.0000	0.0000	0.0002	0.1145	0.0000	0.0159	2.2453
0.8855	0.4182	0.0001	0.0026	33.0000	2.1949	0.0799	1223.0000				
108.0	0.0000	0.0250	212.1461	0.0003	0.0000	0.0000	0.0002	0.1180	0.0000	0.0164	1.4253
0.8820	0.4167	0.0001	0.0028	33.0000	1.9714	0.0685	1199.0000				
107.5	0.0000	0.0166	214.0839	0.0001	0.0000	0.0000	0.0002	0.1233	0.0000	0.0171	1.4989
0.8767	0.4146	0.0001	0.0028	33.0000	1.7694	0.0528	1216.0000				
107.0	0.0007	0.0063	216.6881	0.0000	0.0000	0.0000	0.0002	0.1218	0.0000	0.0171	2.4866
0.8782	0.4150	0.0001	0.0023	33.0000	1.4140	0.0395	1246.0000				
106.5	0.0007	0.0063	217.1885	0.0000	0.0000	0.0000	0.0019	0.1245	0.0000	0.0160	4.0441
0.8755	0.4133	0.0001	0.0018	33.0000	1.4140	0.0395	1236.0000				
106.0	0.0001	0.0095	215.8184	0.0000	0.0000	0.0000	0.0046	0.1260	0.0000	0.0155	5.7620
0.8740	0.4103	0.0001	0.0013	33.0000	2.4709	0.0203	1237.0000				
105.5	0.0000	0.0096	216.0529	0.0000	0.0000	0.0000	0.0109	0.1310	0.0000	0.0161	6.4269
0.8690	0.4010	0.0001	0.0010	33.0000	5.2095	0.0115	1254.0000				
105.0	0.0000	0.0120	217.8190	0.0000	0.0000	0.0000	0.0186	0.1351	0.0000	0.0172	7.0427
0.8649	0.3900	0.0001	0.0008	33.0000	7.2148	0.0120	1265.0000				
104.5	0.0000	0.0070	218.1343	0.0000	0.0000	0.0000	0.0185	0.1382	0.0000	0.0182	6.4273
0.8618	0.3884	0.0001	0.0009	33.0000	11.9853	0.0070	1276.0000				

104.0	0.0000	0.0083	215.9390	0.0000	0.0000	0.0000	0.0115	0.1334	0.0000	0.0179	6.4595
0.8666	0.3980	0.0001	0.0013	33.0000	6.2540	0.0083	1209.0000				
103.5	0.0000	0.0074	212.2916	0.0000	0.0000	0.0000	0.0066	0.1320	0.0000	0.0187	5.4302
0.8680	0.4034	0.0001	0.0018	33.0000	7.9119	0.0074	1234.0000				
103.0	0.0000	0.0130	208.0292	0.0000	0.0000	0.0000	0.0002	0.1368	0.0000	0.0192	5.3701
0.8632	0.4092	0.0001	0.0021	33.0000	10.6271	0.0130	1215.0000				
102.5	0.0000	0.0163	198.0373	0.0000	0.0000	0.0000	0.0025	0.1661	0.0000	0.0227	4.8562
0.8339	0.3958	0.0001	0.0023	33.0000	6.6019	0.0188	1248.0000				
102.0	0.0008	0.0090	185.9283	0.0000	0.0000	0.0000	0.0075	0.1882	0.0000	0.0254	5.4012
0.8118	0.3821	0.0001	0.0024	33.0000	20.6765	0.0090	1233.0000				
101.5	0.0026	0.0056	176.3434	0.0000	0.0001	0.0000	0.0227	0.2159	0.0000	0.0285	5.3743
0.7841	0.3550	0.0001	0.0026	33.0000	30.9198	0.0056	1226.0000				
101.0	0.0033	0.0051	176.1832	0.0000	0.0002	0.0000	0.0264	0.2277	0.0000	0.0298	4.5297
0.7723	0.3467	0.0001	0.0027	33.0000	35.3347	0.0051	1302.0000				
100.5	0.0004	0.0093	180.6637	0.0000	0.0000	0.0000	0.0254	0.2361	0.0000	0.0306	3.8114
0.7639	0.3452	0.0001	0.0031	33.0000	9.1537	0.0094	1268.0000				
100.0	0.0000	0.0002	188.8329	0.0000	0.0000	0.0000	0.0120	0.2312	0.0000	0.0300	2.5780
0.7688	0.3626	0.0001	0.0034	33.0000	1.8128	0.0025	1350.0000				
99.5	0.0003	0.0033	196.8948	0.0000	0.0000	0.0000	0.0093	0.2249	0.0000	0.0293	3.5997
0.7751	0.3678	0.0001	0.0033	33.0000	1.5330	0.0187	1396.0000				
99.0	0.0006	0.0006	202.7889	0.0000	0.0000	0.0000	0.0002	0.2119	0.0000	0.0279	3.3101
0.7881	0.3827	0.0001	0.0029	33.0000	1.1639	0.0167	1576.0000				
98.5	0.0006	0.0006	209.2005	0.0000	0.0000	0.0000	0.0002	0.2018	0.0000	0.0269	4.3820
0.7982	0.3860	0.0028	0.0023	33.0000	0.9885	0.0118	1693.0000				
98.0	0.0001	0.0034	212.2932	0.0000	0.0000	0.0000	0.0002	0.1777	0.0000	0.0242	3.8015
0.8223	0.3942	0.0068	0.0017	33.0000	6.6395	0.0034	1843.0000				
97.5	0.0012	0.0029	213.0548	0.0000	0.0000	0.0000	0.0160	0.1644	0.0000	0.0222	4.7696
0.8356	0.3810	0.0052	0.0014	33.0000	13.4507	0.0050	1877.0000				

97.0 0.0007 0.0061 213.3490 0.0000 0.0000
0.0000 0.0326 0.1508 0.0127 0.0209 5.6547
0.8365 0.3662 0.0025 0.0013 33.0000 18.7773
0.0061 1723.0000
96.5 0.0000 0.0224 209.5495 0.0001 0.0000
0.0000 0.0261 0.1652 0.0000 0.0223 7.6036
0.8348 0.3689 0.0032 0.0020 33.0000 6.7668
0.0265 1819.0000
96.0 0.0017 0.0383 211.0518 0.0012 0.0000
0.0000 0.0176 0.1769 0.0000 0.0231 8.7612
0.8231 0.3752 0.0070 0.0023 33.0000 5.1169
0.0585 1802.0000
95.5 0.0170 0.0718 213.2794 0.0216 0.1147
0.0000 0.0002 0.1833 0.0000 0.0244 8.2186
0.8167 0.3927 0.0099 0.0029 33.0000 5.3625
0.1171 1600.0000
95.0 0.0292 0.0982 213.7817 0.0868 0.7159
0.0000 0.0039 0.1803 0.0000 0.0238 7.3051
0.8197 0.3897 0.0067 0.0025 33.0000 6.2240
0.1538 1772.0000
94.5 0.0348 0.1063 211.3422 0.1386 1.3280
0.0000 0.0027 0.1789 0.0000 0.0243 7.3128
0.8211 0.3910 0.0001 0.0024 33.0000 6.6111
0.1678 1754.0000
94.0 0.0316 0.1055 207.3894 0.1254 0.7750
0.0000 0.0163 0.1636 0.0000 0.0227 9.3101
0.8364 0.3803 0.0001 0.0015 33.0000 6.0624
0.1709 1573.0000
93.5 0.0343 0.1234 209.2483 0.2374 0.9930
0.0000 0.0214 0.1581 0.0000 0.0222 10.6535
0.8419 0.3762 0.0001 0.0012 33.0000 7.5022
0.1802 1540.0000
93.0 0.0480 0.1533 210.6160 0.6668 3.2253
0.0000 0.0295 0.1463 0.0045 0.0209 10.9077
0.8493 0.3709 0.0001 0.0007 33.0000 8.9437
0.2137 1412.0000
92.5 0.0450 0.1486 210.2366 0.6016 2.7306
0.0000 0.0320 0.1460 0.0111 0.0204 8.9373
0.8429 0.3685 0.0001 0.0005 33.0000 9.4810
0.2022 1455.0000
92.0 0.0342 0.1038 206.9654 0.1441 1.1871
0.0000 0.0363 0.1492 0.0227 0.0203 6.9582
0.8281 0.3628 0.0001 0.0002 33.0000 6.6892
0.1684 1517.0000
91.5 0.0157 0.0681 203.1553 0.0221 0.0534
0.0000 0.0400 0.1481 0.0326 0.0208 5.3497
0.8193 0.3583 0.0001 0.0002 33.0000 4.0460
0.1356 1559.0000
91.0 0.0083 0.0604 204.8717 0.0114 0.0036
0.0000 0.0414 0.1581 0.0363 0.0223 5.5090
0.8056 0.3528 0.0001 0.0008 33.0000 3.1972
0.1293 1607.0000
90.5 0.0157 0.0849 206.5640 0.0426 0.0349
0.0000 0.0418 0.1677 0.0374 0.0232 6.4111
0.7949 0.3492 0.0001 0.0017 33.0000 3.9861
0.1609 1596.0000

90.0	0.0295	0.1062	211.1447	0.1204	0.4445	0.0000	0.0401	0.1701	0.0329	0.0231	6.9221
0.7970	0.3505	0.0003	0.0025	33.0000	5.1009	0.1844	1534.0000				
89.5	0.0426	0.1209	208.4988	0.2529	2.0945	0.0000	0.0375	0.1578	0.0260	0.0214	7.7565
0.8162	0.3581	0.0013	0.0026	33.0000	6.1759	0.2018	1616.0000				
89.0	0.0398	0.1252	210.4090	0.2627	1.6511	0.0000	0.0278	0.1404	0.0000	0.0192	7.5687
0.8596	0.3760	0.0023	0.0024	33.0000	6.7820	0.1944	1590.0000				
88.5	0.0380	0.1355	214.5866	0.3230	1.3482	0.0000	0.0232	0.1384	0.0000	0.0191	7.7301
0.8616	0.3820	0.0026	0.0019	33.0000	7.6562	0.1926	1660.0000				
88.0	0.0433	0.1539	217.2436	0.5529	2.1704	0.0000	0.0187	0.1334	0.0000	0.0187	7.1879
0.8666	0.3889	0.0027	0.0012	33.0000	8.8589	0.2049	1720.0000				
87.5	0.0512	0.1649	216.4558	0.9059	4.6234	0.0000	0.0282	0.1395	0.0010	0.0194	7.5406
0.8596	0.3756	0.0053	0.0006	33.0000	10.5846	0.2120	1635.0000				
87.0	0.0543	0.1634	213.9555	1.0321	5.7381	0.0000	0.0302	0.1317	0.0064	0.0177	7.5581
0.8620	0.3768	0.0067	0.0004	33.0000	10.6399	0.2185	1631.0000				
86.5	0.0449	0.1462	217.6086	0.6276	2.9151	0.0000	0.0389	0.1323	0.0296	0.0184	7.1782
0.8381	0.3660	0.0065	0.0004	33.0000	10.1218	0.1978	1741.0000				
86.0	0.0337	0.1249	223.2355	0.2809	0.9572	0.0000	0.0351	0.1357	0.0193	0.0192	6.6656
0.8450	0.3687	0.0029	0.0007	33.0000	8.4772	0.1768	1632.0000				
85.5	0.0225	0.0975	228.0958	0.0894	0.2472	0.0000	0.0378	0.1562	0.0268	0.0220	7.2202
0.8171	0.3577	0.0001	0.0009	33.0000	7.3261	0.1429	1656.0000				
85.0	0.0179	0.0883	231.0053	0.0520	0.0891	0.0000	0.0364	0.1702	0.0230	0.0236	7.3450
0.8068	0.3543	0.0007	0.0010	33.0000	5.7009	0.1414	1559.0000				
84.5	0.0143	0.0772	233.6254	0.0288	0.0266	0.0000	0.0374	0.1814	0.0257	0.0247	7.3731
0.7929	0.3495	0.0029	0.0010	33.0000	3.6351	0.1527	1549.0000				
84.0	0.0111	0.0753	231.9357	0.0327	0.0060	0.0000	0.0326	0.1806	0.0128	0.0246	7.2232
0.8066	0.3553	0.0030	0.0010	33.0000	2.7993	0.1797	1646.0000				
83.5	0.0060	0.0644	230.4008	0.0231	0.0004	0.0000	0.0246	0.1873	0.0000	0.0257	8.7737
0.8127	0.3621	0.0001	0.0012	33.0000	2.0855	0.1908	1601.0000				

83.0 0.0000 0.0550 222.2327 0.0124 0.0000
0.0000 0.0195 0.2063 0.0000 0.0279 11.2278
0.7937 0.3615 0.0001 0.0014 33.0000 1.8761
0.1724 1635.0000
82.5 0.0000 0.0543 214.9048 0.0110 0.0000
0.0000 0.0169 0.2261 0.0000 0.0299 13.0354
0.7739 0.3581 0.0016 0.0016 33.0000 2.0086
0.1616 1531.0000
82.0 0.0044 0.0427 208.1719 0.0026 0.0004
0.0000 0.0124 0.2272 0.0000 0.0294 13.3729
0.7728 0.3636 0.0052 0.0018 33.0000 2.3364
0.1044 1548.0000
81.5 0.0050 0.0288 203.1851 0.0006 0.0017
0.0000 0.0093 0.2058 0.0000 0.0275 11.4440
0.7942 0.3739 0.0009 0.0020 33.0000 2.4482
0.0708 1578.0000
81.0 0.0022 0.0063 203.9104 0.0000 0.0002
0.0000 0.0002 0.2018 0.0000 0.0271 10.0651
0.7982 0.3859 0.0001 0.0022 33.0000 6.6633
0.0123 1618.0000
80.5 0.0007 0.0007 199.6273 0.0000 0.0000
0.0000 0.0002 0.2186 0.0000 0.0289 8.3242
0.7814 0.3803 0.0001 0.0024 33.0000 1.5515
0.0078 1455.0000
80.0 0.0000 0.0025 200.7086 0.0000 0.0000
0.0000 0.0002 0.2516 0.0000 0.0320 10.3223
0.7484 0.3699 0.0001 0.0039 33.0000 1.3959
0.0132 1491.0000
79.5 0.0000 0.0050 194.4945 0.0000 0.0000
0.0000 0.0222 0.2291 0.0000 0.0290 17.1431
0.7709 0.3520 0.0002 0.0052 33.0000 2.3467
0.0115 1554.0000
79.0 0.0498 0.0498 181.6457 1.7751 1679.1544
0.0000 0.1137 0.1785 0.2309 0.0002 53.8511
0.5906 0.2839 0.0811 0.0100 33.0000 134.2749
0.0704 1524.0000
78.5 0.0186 0.0307 155.2989 0.0670 8.3822
0.0000 0.2780 0.0065 0.9935 0.0003 97.6050
0.0000 0.0014 0.2587 0.0092 33.0000 114.4075
0.0336 1498.0000
78.0 0.0000 0.0258 131.5930 0.0001 0.0000
0.0000 0.2158 0.0071 0.9929 0.0003 105.5952
0.0000 0.0016 0.4075 0.0169 33.0000 6.7247
0.0259 1573.0000
77.5 0.0049 0.0171 115.5590 0.0002 0.0158
0.0000 0.0916 0.4316 0.1714 0.1125 55.6343
0.3970 0.1521 0.2335 0.0210 33.0000 16.6338
0.0208 1668.0000
77.0 0.0035 0.0155 110.5997 0.0003 0.0022
0.0000 0.0003 0.5162 0.0000 0.1467 8.3947
0.4838 0.2116 0.0080 0.0097 33.0000 38.1739
0.0155 1557.0000
76.5 0.0000 0.0012 107.9078 0.0000 0.0000
0.0000 0.0002 0.6032 0.0000 0.1410 1.6878
0.3968 0.2024 0.0001 0.0061 33.0000 1.2086
0.0371 1459.0000

76.0 0.0000 0.0000 105.8748 0.0001 0.0000
0.0000 0.0002 0.6487 0.0000 0.1326 3.5185
0.3513 0.2029 0.0001 0.0045 33.0000 0.9134
0.0678 1570.0000
75.5 0.0000 0.0000 101.8394 0.0001 0.0000
0.0000 0.0002 0.6684 0.0000 0.1273 4.9134
0.3316 0.2048 0.0001 0.0041 33.0000 0.9134
0.0678 1486.0000
75.0 0.0000 0.0000 96.1914 0.0000 0.0000
0.0000 0.0001 0.6821 0.0000 0.1227 5.5478
0.3179 0.2069 0.0001 0.0039 33.0000 0.9217
0.0476 1509.0000
74.5 0.0046 0.0046 95.1371 0.0089 0.0006
0.0000 0.0001 0.6906 0.0000 0.1220 5.1331
0.3094 0.2062 0.0001 0.0035 33.0000 2189.1426
0.0046 1527.0000
74.0 0.0046 0.0046 99.9375 0.0089 0.0006
0.0000 0.0001 0.6939 0.0000 0.1230 5.9392
0.3061 0.2048 0.0001 0.0032 33.0000 2189.1426
0.0046 1407.0000
73.5 0.0000 0.0000 104.0156 0.0000 0.0000
0.0000 0.0002 0.6978 0.0000 0.1242 7.0406
0.3022 0.2030 0.0001 0.0029 33.0000 29.6732
0.0000 1436.0000
73.0 0.0000 0.0000 106.2202 0.0000 0.0000
0.0000 0.0002 0.6922 0.0000 0.1245 7.4524
0.3078 0.2036 0.0001 0.0032 33.0000 0.7216
0.0151 1566.0000
72.5 0.0000 0.0010 104.7985 0.0000 0.0000
0.0000 0.0002 0.6919 0.0000 0.1233 6.2665
0.3081 0.2048 0.0001 0.0033 33.0000 1.0254
0.0475 1478.0000
72.0 0.0000 0.0010 103.0458 0.0000 0.0000
0.0000 0.0001 0.6873 0.0000 0.1232 4.4232
0.3127 0.2056 0.0001 0.0036 33.0000 1.0254
0.0475 1548.0000
71.5 0.0000 0.0160 98.2780 0.0000 0.0000
0.0000 0.0001 0.6957 0.0000 0.1210 3.5897
0.3043 0.2064 0.0001 0.0034 33.0000 2.0670
0.0335 1537.0000
71.0 0.0000 0.0109 96.1234 0.0001 0.0000
0.0000 0.0001 0.7047 0.0000 0.1202 3.8268
0.2953 0.2057 0.0001 0.0030 33.0000 1.6306
0.0516 1473.0000
70.5 0.0000 0.0109 95.8113 0.0001 0.0000
0.0000 0.0057 0.7205 0.0000 0.1157 4.3172
0.2795 0.2010 0.0001 0.0025 33.0000 1.6306
0.0516 1448.0000
70.0 0.0000 0.0255 97.2549 0.0002 0.0000
0.0000 0.0047 0.7204 0.0000 0.1180 3.1025
0.2796 0.2000 0.0001 0.0023 33.0000 3.7167
0.0418 1410.0000
69.5 0.0000 0.0216 95.4043 0.0001 0.0000
0.0000 0.0001 0.7004 0.0000 0.1238 1.8299
0.2996 0.2030 0.0001 0.0028 33.0000 3.1807
0.0383 1525.0000

69.0 0.0000 0.0216 94.5240 0.0001 0.0000
0.0000 0.0002 0.6828 0.0000 0.1275 0.4105
0.3172 0.2023 0.0001 0.0033 33.0000 3.1807
0.0383 1458.0000
68.5 0.0011 0.0299 93.7620 0.0004 0.0000
0.0000 0.0002 0.6626 0.0000 0.1309 1.5993
0.3374 0.2023 0.0001 0.0040 33.0000 3.2667
0.0544 1472.0000
68.0 0.0016 0.0366 93.4017 0.0005 0.0001
0.0000 0.0002 0.6702 0.0000 0.1277 2.4772
0.3298 0.2041 0.0001 0.0040 33.0000 6.7166
0.0399 1606.0000
67.5 0.0016 0.0366 91.2516 0.0005 0.0001
0.0000 0.0002 0.6554 0.0000 0.1296 5.5904
0.3446 0.2046 0.0001 0.0045 33.0000 6.7166
0.0398 1507.0000
67.0 0.0000 0.0151 90.5700 0.0000 0.0000
0.0000 0.0002 0.6470 0.0000 0.1320 7.4613
0.3530 0.2037 0.0001 0.0047 33.0000 5.7365
0.0161 1538.0000
66.5 0.0011 0.0039 94.8735 0.0000 0.0000
0.0000 0.0021 0.6304 0.0000 0.1392 8.9789
0.3696 0.1975 0.0001 0.0046 33.0000 2.5354
0.0197 1601.0000
66.0 0.0024 0.0048 99.0707 0.0000 0.0001
0.0000 0.0065 0.6477 0.0000 0.1385 6.4824
0.3523 0.1902 0.0001 0.0036 33.0000 13.2939
0.0063 1575.0000
65.5 0.0024 0.0048 103.2035 0.0000 0.0001
0.0000 0.0002 0.6697 0.0000 0.1384 3.5789
0.3303 0.1942 0.0001 0.0026 33.0000 13.2939
0.0063 1618.0000
65.0 0.0002 0.0143 101.7118 0.0001 0.0000
0.0000 0.0002 0.6794 0.0000 0.1350 2.5797
0.3206 0.1958 0.0001 0.0025 33.0000 4.0111
0.0323 1511.0000
64.5 0.0000 0.0099 101.7243 0.0001 0.0000
0.0000 0.0002 0.6810 0.0000 0.1317 3.3586
0.3190 0.1987 0.0001 0.0029 33.0000 1.6071
0.0491 1478.0000
64.0 0.0000 0.0099 100.7321 0.0001 0.0000
0.0000 0.0002 0.6651 0.0000 0.1308 4.7774
0.3349 0.2020 0.0001 0.0039 33.0000 1.6071
0.0491 1483.0000
63.5 0.0000 0.0000 98.6304 0.0000 0.0000
0.0000 0.0001 0.6787 0.0000 0.1267 6.0629
0.3213 0.2037 0.0001 0.0036 33.0000 0.8077
0.0322 1429.0000
63.0 0.0000 0.0084 98.4845 0.0003 0.0000
0.0000 0.0001 0.6954 0.0000 0.1226 7.5117
0.3046 0.2049 0.0001 0.0032 33.0000 1.3032
0.0787 1508.0000
62.5 0.0000 0.0083 97.2873 0.0003 0.0000
0.0000 0.0001 0.7193 0.0000 0.1208 9.2279
0.2807 0.2029 0.0001 0.0022 33.0000 1.3032
0.0787 1448.0000

62.0 0.0009 0.0035 99.2983 0.0002 0.0000
0.0000 0.0001 0.7218 0.0000 0.1203 8.0120
0.2782 0.2030 0.0001 0.0021 33.0000 1.1419
0.0813 1500.0000
61.5 0.0040 0.0073 98.4976 0.0001 0.0012
0.0000 0.0019 0.7129 0.0000 0.1232 7.8843
0.2871 0.1997 0.0001 0.0022 33.0000 1.6028
0.0534 1458.0000
61.0 0.0000 0.0000 97.5883 0.0000 0.0000
0.0000 0.0001 0.7011 0.0000 0.1240 7.0948
0.2989 0.2027 0.0001 0.0028 33.0000 0.8193
0.0325 1616.0000
60.5 0.0000 0.0000 96.4909 0.0000 0.0000
0.0000 0.0001 0.7019 0.0000 0.1231 7.9358
0.2981 0.2035 0.0001 0.0028 33.0000 0.8193
0.0325 1500.0000
60.0 0.0005 0.0005 98.8447 0.0000 0.0000
0.0000 0.0001 0.7199 0.0000 0.1154 5.8890
0.2801 0.2079 0.0001 0.0027 33.0000 0.9221
0.0233 1606.0000
59.5 0.0007 0.0034 100.5591 0.0000 0.0000
0.0000 0.0001 0.7363 0.0000 0.1120 4.3623
0.2637 0.2085 0.0001 0.0022 33.0000 27.7417
0.0034 1364.0000
59.0 0.0007 0.0034 102.3996 0.0000 0.0000
0.0000 0.0001 0.7428 0.0000 0.1119 2.1707
0.2572 0.2077 0.0001 0.0019 33.0000 27.7417
0.0034 1394.0000
58.5 0.0000 0.0124 103.2002 0.0000 0.0000
0.0000 0.0001 0.7257 0.0000 0.1209 2.7334
0.2743 0.2019 0.0001 0.0019 33.0000 1.8893
0.0420 1530.0000
58.0 0.0012 0.0045 105.2324 0.0001 0.0000
0.0000 0.0001 0.6952 0.0000 0.1282 1.7694
0.3048 0.1997 0.0001 0.0026 33.0000 1.3058
0.0556 1526.0000
57.5 0.0012 0.0045 107.7950 0.0001 0.0000
0.0000 0.0001 0.6729 0.0000 0.1328 3.0813
0.3271 0.1989 0.0001 0.0032 33.0000 1.3058
0.0556 1543.0000
57.0 0.0000 0.0000 103.8656 0.0000 0.0000
0.0000 0.0001 0.6705 0.0000 0.1284 1.5700
0.3295 0.2034 0.0001 0.0039 33.0000 0.6640
0.0290 1475.0000
56.5 0.0042 0.0069 98.8011 0.0000 0.0036
0.0000 0.0001 0.6813 0.0000 0.1236 3.1016
0.3187 0.2062 0.0001 0.0038 33.0000 6.0675
0.0133 1422.0000
56.0 0.0042 0.0069 95.1195 0.0000 0.0036
0.0000 0.0001 0.6902 0.0000 0.1195 1.9317
0.3098 0.2086 0.0001 0.0038 33.0000 6.0675
0.0133 1508.0000
55.5 0.0047 0.0055 97.7909 0.0000 0.0050
0.0000 0.0001 0.6898 0.0000 0.1219 3.2605
0.3102 0.2065 0.0001 0.0036 33.0000 3.7142
0.0129 1391.0000

55.0 0.0025 0.0025 100.5840 0.0000 0.0005
0.0000 0.0001 0.6833 0.0000 0.1244 3.1702
0.3167 0.2051 0.0001 0.0036 33.0000 1.3905
0.0319 1451.0000
54.5 0.0000 0.0000 97.8994 0.0000 0.0000
0.0000 0.0002 0.6660 0.0000 0.1301 4.5837
0.3340 0.2025 0.0001 0.0039 33.0000 1.0058
0.0222 1428.0000
54.0 0.0000 0.0000 95.2705 0.0000 0.0000
0.0000 0.0001 0.6784 0.0000 0.1272 3.6674
0.3216 0.2033 0.0001 0.0036 33.0000 1.0058
0.0221 1526.0000
53.5 0.0000 0.0000 92.4665 0.0000 0.0000
0.0000 0.0001 0.6753 0.0000 0.1281 2.5006
0.3247 0.2029 0.0001 0.0036 33.0000 0.8909
0.0406 1443.0000
53.0 0.0057 0.0087 92.9187 0.0001 0.0307
0.0000 0.0001 0.6871 0.0000 0.1255 0.3396
0.3129 0.2035 0.0001 0.0033 33.0000 8.2517
0.0214 1385.0000
52.5 0.0057 0.0087 90.7268 0.0001 0.0306
0.0000 0.0001 0.6738 0.0000 0.1283 0.0063
0.3262 0.2030 0.0001 0.0037 33.0000 8.2517
0.0214 1415.0000
52.0 0.0012 0.0014 90.1514 0.0000 0.0000
0.0000 0.0001 0.6781 0.0000 0.1283 0.0064
0.3219 0.2023 0.0001 0.0035 33.0000 39.1304
0.0014 1482.0000
51.5 0.0030 0.0031 88.7927 0.0000 0.0015
0.0000 0.0001 0.6709 0.0000 0.1295 0.0064
0.3291 0.2023 0.0001 0.0037 33.0000 1.1202
0.0301 1406.0000
51.0 0.0031 0.0031 86.8727 0.0000 0.0015
0.0000 0.0001 0.6738 0.0000 0.1282 0.0064
0.3262 0.2031 0.0001 0.0037 33.0000 1.1202
0.0301 1404.0000

```
~VERSION INFORMATION
VERS.           2.0   :CWLS Log ASCII Standard - VERSION 2.0
WRAP.           NO    :One Line per depth step
PROD.  Schlumberger   :LAS Producer
PROG.  DLIS to ASCII 11C0-305                          :LAS Program name and
version
CREA.        2004/02/27 17:17                          :LAS Creation date
{YYYY/MM/DD hh:mm}
SOURCE.     10605245_AIT_NGS_Main_008LUP.DLIS          :DLIS File Name
FILE-ID.     AIT_NGS_008LUP                            :File Identification
Number
#-------------------------------------------------
~WELL INFORMATION
#MNEM.UNIT      DATA             DESCRIPTION
#---- ------ --------------   ----------------------------
STRT .F         1002.0       :START DEPTH
STOP .F           28.0       :STOP DEPTH
STEP .F           -0.5       :STEP
NULL .          -999.25      :NULL VALUE
COMP .        Kleinfelder                              :COMPANY
WELL .        R-28                                     :WELL
FLD  .        Mortendad Canyon, LANL TA-5              :FIELD
LOC  .        Easting: 1,038,357 ft.                   :LOCATION
CNTY .        Los Alamos                               :COUNTY
STAT .        New Mexico                               :STATE
CTRY .                                                 :COUNTRY
API  .                                                 :API NUMBER
UWI  .                                                 :UNIQUE WELL ID
DATE .        10-Dec-2003                              :LOG DATE {DD-MMM-YYYY}
SRVC .        Schlumberger                             :SERVICE COMPANY
LATI .DEG                                              :LATITUDE
LONG .DEG                                              :LONGITUDE
GDAT .                                                 :GeoDetic Datum
#-------------------------------------------------------------------------------
~PARAMETER INFORMATION
#MNEM.UNIT    VALUE                      DESCRIPTION
#---- -----   --------------------       ------------------------
RUN  .          2                        :RUN NUMBER
PDAT .        GROUND LEVEL               :Permanent Datum
EPD  .F         6756.000000              :Elevation of Permanent Datum above
Mean Sea Level
EPD  .F         6756.000000              :Elevation of tool zero above Mean Sea
Level
LMF  .          GROUND LEVEL             :Logging Measured From (Name of Logging
Elevation Reference)
APD  .F           0.000000               :Elevation of Depth Reference (LMF)
above Permanent Datum
#-------------------------------------------------------------------------------
~CURVE INFORMATION
#MNEM.UNIT   API CODE                                  DESCRIPTION
#---- -----  --------                                  ------------------------
DEPT .F                                                :DEPTH (BOREHOLE) {F10.1}
TENS .LBF                                              :Cable Tension {F13.4}
CGR  .GAPI                                             :Computed Gamma Ray
{F13.4}
POTA .                                                 :Potassium {F13.4}
SGR  .GAPI                                             :Gamma Ray {F13.4}
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THOR .PPM                                                    :Thorium {F13.4}
URAN .PPM                                                    :Uranium {F13.4}
AHT10.OHMM                                                   :Array Induction Two Foot
Resistivity A10 {F13.4}
AHT20.OHMM                                                   :Array Induction Two Foot
Resistivity A20 {F13.4}
AHT30.OHMM                                                   :Array Induction Two Foot
Resistivity A30 {F13.4}
AHT60.OHMM                                                   :Array Induction Two Foot
Resistivity A60 {F13.4}
AHT90.OHMM                                                   :Array Induction Two Foot
Resistivity A90 {F13.4}
AHSCA.MV                                                     :Array Induction SPA
Calibrated {F13.4}
AHTCO10.MM/M                                                 :Array Induction Two Foot
Conductivity A10 {F13.4}
AHTCO20.MM/M                                                 :Array Induction Two Foot
Conductivity A20 {F13.4}
AHTCO30.MM/M                                                 :Array Induction Two Foot
Conductivity A30 {F13.4}
AHTCO60.MM/M                                                 :Array Induction Two Foot
Conductivity A60 {F13.4}
AHTCO90.MM/M                                                 :Array Induction Two Foot
Conductivity A90 {F13.4}
#-------------------------------------------------------------------------------
#
#     DEPT        TENS         CGR          POTA         SGR          THOR
URAN        AHT10        AHT20        AHT30        AHT60        AHT90
AHSCA       AHTCO10      AHTCO20      AHTCO30      AHTCO60      AHTCO90
#
~A
    1002.0     152.0000      72.6498       0.0330     109.8846       7.6519
5.3171      37.6632      65.9425      95.5836      70.4863      57.6654    -
332.5899      26.5511      15.1647      10.4620      14.1872      17.3414
    1001.5     147.0000      72.6502       0.0330     109.8856       7.6520
5.3172      35.5940      58.6069      85.1511      67.8129      56.6891    -
332.7069      28.0946      17.0628      11.7438      14.7465      17.6401
    1001.0     150.0000      72.6503       0.0330     109.8860       7.6521
5.3173      33.1570      55.1006      80.0238      67.5359      58.5013    -
332.8853      30.1595      18.1486      12.4963      14.8069      17.0936
    1000.5     146.0000      72.6503       0.0330     109.8861       7.6521
5.3173      31.8817      50.4953      69.8191      63.0463      54.2684    -
333.0620      31.3660      19.8038      14.3227      15.8614      18.4269
    1000.0     150.0000      72.6502       0.0330     109.8862       7.6522
5.3173      31.6873      50.1043      68.6025      62.6358      56.0221    -
333.3215      31.5583      19.9584      14.5767      15.9653      17.8501
     999.5     145.0000      72.6501       0.0330     109.8863       7.6522
5.3173      31.0852      50.4013      69.1008      64.1089      58.6997    -
333.4909      32.1696      19.8407      14.4716      15.5984      17.0359
     999.0     145.0000      72.6500       0.0330     109.8863       7.6522
5.3174      30.6663      50.8448      70.6741      66.1754      61.4631    -
333.7760      32.6091      19.6677      14.1495      15.1114      16.2699
     998.5     150.0000      72.6499       0.0330     109.8863       7.6522
5.3174      30.3955      50.9460      72.4143      67.9170      63.4453    -
333.9805      32.8997      19.6286      13.8094      14.7239      15.7616
```

998.0 156.0000 72.6498 0.0330 109.8863 7.6522
5.3174 30.0153 50.8389 73.8539 69.2681 64.1657 -
334.2566 33.3163 19.6700 13.5402 14.4367 15.5846
997.5 156.0000 72.6497 0.0330 109.8863 7.6522
5.3174 29.7371 50.6182 74.5781 69.9121 63.5581 -
334.5641 33.6281 19.7557 13.4088 14.3037 15.7336
997.0 145.0000 72.6496 0.0330 109.8863 7.6522
5.3174 29.3821 50.5745 74.8183 70.0329 62.1180 -
334.8911 34.0343 19.7728 13.3657 14.2790 16.0984
996.5 145.0000 72.6496 0.0330 109.8863 7.6522
5.3174 28.8967 50.0151 74.6662 69.6140 60.8076 -
335.1943 34.6060 19.9940 13.3929 14.3649 16.4453
996.0 146.0000 72.6495 0.0330 109.8863 7.6522
5.3174 28.7226 50.0980 75.3753 70.0896 60.1637 -
335.8099 34.8158 19.9609 13.2669 14.2674 16.6213
995.5 145.0000 72.6494 0.0330 109.8863 7.6522
5.3174 28.9416 50.7978 76.2286 70.6904 59.7910 -
336.4447 34.5523 19.6859 13.1184 14.1462 16.7249
995.0 145.0000 72.6494 0.0330 109.8863 7.6522
5.3174 28.9035 50.9857 76.9594 70.4649 59.3803 -
336.8741 34.5979 19.6133 12.9939 14.1915 16.8406
994.5 152.0000 72.6493 0.0330 109.8863 7.6522
5.3175 28.7875 49.8425 75.6088 69.7191 57.8351 -
337.4667 34.7373 20.0632 13.2260 14.3433 17.2905
994.0 403.0000 72.6493 0.0330 109.8863 7.6522
5.3175 28.8104 49.0548 75.1161 69.4881 57.0648 -
339.7895 34.7096 20.3854 13.3127 14.3909 17.5239
993.5 724.0000 72.6492 0.0330 109.8863 7.6522
5.3175 28.7766 49.4920 75.5268 70.3808 56.7287 -
331.9052 34.7504 20.2053 13.2403 14.2084 17.6278
993.0 851.0000 72.6492 0.0330 109.8863 7.6522
5.3175 28.8069 49.4624 75.5700 70.4793 55.8430 -
325.3852 34.7139 20.2174 13.2328 14.1886 17.9073
992.5 800.0000 72.6492 0.0330 109.8863 7.6522
5.3175 28.7261 49.0116 75.4491 70.1348 54.6973 -
324.1155 34.8115 20.4033 13.2540 14.2583 18.2824
992.0 709.0000 72.6491 0.0330 109.8863 7.6522
5.3175 28.6128 48.3728 74.6006 70.0535 53.6096 -
325.7443 34.9495 20.6728 13.4047 14.2748 18.6534
991.5 638.0000 72.6491 0.0330 109.8863 7.6522
5.3175 28.6355 48.4744 75.4369 70.5381 53.3886 -
324.3485 34.9216 20.6294 13.2561 14.1767 18.7306
991.0 633.0000 72.6491 0.0330 109.8863 7.6522
5.3175 28.3960 48.0150 76.8274 71.4758 53.8734 -
322.6595 35.2163 20.8268 13.0162 13.9908 18.5620
990.5 630.0000 72.9988 0.0331 109.8863 7.7348
5.2675 28.4253 47.7023 77.7139 72.3975 55.0647 -
321.7986 35.1799 20.9633 12.8677 13.8126 18.1605
990.0 626.0000 73.0835 0.0331 109.8863 7.7499
5.2554 28.6378 47.1870 78.1744 72.2513 56.2940 -
322.7293 34.9189 21.1923 12.7919 13.8406 17.7639
989.5 617.0000 73.0153 0.0331 109.8863 7.7350
5.2652 28.9974 46.1498 81.4680 74.4944 59.8193 -
322.2028 34.4859 21.6686 12.2748 13.4238 16.7170
989.0 594.0000 73.4227 0.0332 109.8863 7.8148
5.2070 29.4333 45.3562 82.5507 76.4800 62.3611 -
321.2437 33.9751 22.0477 12.1138 13.0753 16.0356

988.5 608.0000 73.5033 0.0332 109.8863 7.8391
5.1955 29.6518 42.8942 80.7951 78.4608 67.6318 -
319.4968 33.7248 23.3132 12.3770 12.7452 14.7859
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5.1998 29.8701 41.4357 76.2501 77.6032 70.4437 -
320.8096 33.4783 24.1338 13.1147 12.8861 14.1957
987.5 615.0000 73.8784 0.0333 109.8863 7.9162
5.1419 29.6183 39.9646 71.2024 74.7187 72.1261 -
320.3833 33.7629 25.0222 14.0445 13.3835 13.8646
987.0 593.0000 73.8765 0.0333 109.8863 7.9191
5.1422 27.8704 38.1526 63.6905 72.6817 71.1888 -
319.4146 35.8803 26.2105 15.7009 13.7586 14.0471
986.5 608.0000 74.2508 0.0334 109.8863 7.9942
5.0888 27.0777 36.5986 56.8368 69.9268 71.5651 -
318.2993 36.9308 27.3234 17.5942 14.3007 13.9733
986.0 606.0000 74.4195 0.0334 109.8863 8.0282
5.0647 26.5431 36.1938 51.4571 66.5868 70.0236 -
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5.0415 27.5440 39.6101 49.2409 69.7233 67.6557 -
318.9701 36.3055 25.2461 20.3083 14.3424 14.7807
984.5 541.0000 74.7454 0.0334 109.8863 8.1141
5.0181 30.7627 44.1846 54.4191 66.1949 66.2389 -
306.5323 32.5069 22.6323 18.3759 15.1069 15.0969
984.0 533.0000 74.9224 0.0335 109.8863 8.1580
4.9929 34.2703 50.2292 58.6535 66.9311 65.2553 -
305.4652 29.1798 19.9087 17.0493 14.9407 15.3244
983.5 532.0000 74.9432 0.0334 109.8863 8.1695
4.9899 39.2241 55.5870 68.1808 76.0686 70.9639 -
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983.0 532.0000 75.1704 0.0335 109.8863 8.2249
4.9574 42.4830 62.3240 78.5061 77.2609 74.1893 -
302.8170 23.5388 16.0452 12.7379 12.9432 13.4790
982.5 541.0000 75.3364 0.0335 109.8863 8.2702
4.9337 50.4629 70.4692 87.6682 84.8083 75.3866 -
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982.0 554.0000 75.5353 0.0335 109.8863 8.3224
4.9053 58.9401 77.6655 96.8641 91.9407 75.5549 -
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981.5 548.0000 75.7706 0.0335 109.8863 8.3881
4.8717 68.8355 84.8628 102.6994 92.9541 78.3717 -
304.2320 14.5274 11.7837 9.7372 10.7580 12.7597
981.0 559.0000 76.0606 0.0335 109.8863 8.4679
4.8303 73.1485 85.8417 98.4684 90.0195 76.7443 -
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980.5 558.0000 80.0484 0.0336 91.8991 9.6642
1.6923 67.3762 74.4100 85.2280 76.3618 69.9451 -
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980.0 554.0000 79.6689 0.0336 91.0063 9.5359
1.6190 68.5358 67.1799 72.0224 66.5941 62.6667 -
305.1357 14.5909 14.8854 13.8846 15.0164 15.9574
979.5 565.0000 83.9976 0.0354 96.3821 10.0418
1.7685 60.8529 60.8054 62.5010 58.0649 57.4078 -
305.8894 16.4331 16.4459 15.9998 17.2221 17.4192

979.0 558.0000 83.2688 0.0352 94.4516 9.9099
1.5969 64.3874 68.8637 70.8216 65.6997 64.6866 -
303.6011 15.5310 14.5214 14.1200 15.2208 15.4591
978.5 555.0000 84.6753 0.0357 96.2129 10.1404
1.6476 77.3552 84.7381 86.7154 78.3019 79.9409 -
301.5975 12.9274 11.8011 11.5320 12.7711 12.5092
978.0 548.0000 84.4428 0.0358 95.0293 10.0384
1.5118 84.6299 97.2292 95.2536 90.2586 89.0701 -
301.0467 11.8162 10.2850 10.4983 11.0793 11.2271
977.5 553.0000 82.4564 0.0352 91.4667 9.6768
1.2867 89.6432 106.2335 102.5908 100.1864 96.9524 -
300.8678 11.1553 9.4132 9.7475 9.9814 10.3143
977.0 566.0000 82.3015 0.0353 91.2872 9.6092
1.2832 92.0069 102.1084 104.5461 110.4152 101.9211 -
300.0161 10.8688 9.7935 9.5652 9.0567 9.8115
976.5 555.0000 81.8432 0.0353 90.7003 9.4614
1.2648 77.8312 85.6399 86.1967 94.4688 84.7959 -
298.9084 12.8483 11.6768 11.6014 10.5855 11.7930
976.0 553.0000 81.7124 0.0352 90.6797 9.4739
1.2805 70.2359 72.0463 71.2621 75.5733 70.0776 -
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975.5 544.0000 84.9806 0.0358 95.9096 10.1753
1.5607 60.5253 62.3742 61.7770 65.4259 60.9999 -
299.7763 16.5220 16.0323 16.1873 15.2845 16.3935
975.0 548.0000 82.9969 0.0350 92.9917 9.9279
1.4273 57.6829 61.9461 62.0054 62.6163 61.3701 -
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974.5 551.0000 78.2518 0.0333 85.1875 9.2105
0.9904 61.2491 67.0027 67.2291 65.3192 66.8019 -
297.5015 16.3268 14.9248 14.8745 15.3094 14.9696
974.0 549.0000 84.8484 0.0359 93.7400 10.0848
1.2697 63.9300 70.8365 70.9232 69.3710 70.6254 -
298.6717 15.6421 14.1170 14.0998 14.4153 14.1592
973.5 542.0000 84.1895 0.0358 92.5233 9.9494
1.1901 67.0649 75.0818 76.2341 73.7844 76.4969 -
300.8576 14.9109 13.3188 13.1175 13.5530 13.0724
973.0 544.0000 84.8604 0.0363 93.5564 9.9284
1.2418 68.6965 74.5646 74.3084 72.9641 74.4207 -
303.6423 14.5568 13.4112 13.4574 13.7054 13.4371
972.5 534.0000 83.4793 0.0359 91.1481 9.6826
1.0951 65.8128 70.5794 70.7110 70.1217 70.2529 -
302.7226 15.1946 14.1684 14.1421 14.2609 14.2343
972.0 549.0000 85.1107 0.0367 93.3508 9.8145
1.1767 65.7172 68.2938 68.0121 67.3237 68.4734 -
299.2709 15.2167 14.6426 14.7033 14.8536 14.6042
971.5 560.0000 82.2794 0.0355 88.5926 9.4869
0.9015 61.7106 66.5266 66.2569 65.9023 67.3714 -
299.0676 16.2047 15.0316 15.0928 15.1740 14.8431
971.0 559.0000 82.7115 0.0358 88.9261 9.4886
0.8874 64.3809 69.4222 68.3402 67.4558 69.3453 -
300.5152 15.5326 14.4046 14.6327 14.8245 14.4206
970.5 558.0000 85.3084 0.0370 92.4496 9.7711
1.0198 65.4445 71.7714 70.3324 70.0678 71.0632 -
301.5211 15.2801 13.9331 14.2182 14.2719 14.0720
970.0 548.0000 85.3392 0.0373 92.2941 9.6206
0.9932 65.6932 68.7796 67.9434 67.5535 69.4055 -
301.9799 15.2223 14.5392 14.7181 14.8031 14.4081

969.5 548.0000 83.5738 0.0370 89.4641 9.2575
0.8411 66.0785 65.2483 65.5018 64.1155 65.4527 -
301.7752 15.1335 15.3261 15.2668 15.5969 15.2782
969.0 545.0000 84.9638 0.0377 91.5877 9.3741
0.9459 65.2393 66.3247 67.6507 67.0346 67.8305 -
302.5119 15.3282 15.0773 14.7818 14.9177 14.7426
968.5 562.0000 84.2096 0.0374 90.7093 9.2465
0.9282 71.0236 75.1003 76.0381 74.0554 74.6649 -
303.8254 14.0798 13.3155 13.1513 13.5034 13.3932
968.0 567.0000 82.9886 0.0368 89.3897 9.1518
0.9141 79.3222 87.3634 88.6913 87.5697 86.2470 -
304.9440 12.6068 11.4464 11.2751 11.4195 11.5946
967.5 559.0000 77.6727 0.0340 84.0317 8.7688
0.9081 89.7896 101.9862 103.6141 103.1404 100.0940 -
306.2758 11.1372 9.8053 9.6512 9.6955 9.9906
967.0 558.0000 77.8301 0.0341 84.7430 8.7469
0.9872 97.9774 109.9868 112.9007 110.3828 109.0580 -
307.2150 10.2064 9.0920 8.8573 9.0594 9.1694
966.5 556.0000 66.2693 0.0303 73.4314 6.9200
1.0227 100.9034 113.2377 115.0587 113.3665 108.9580 -
307.7930 9.9105 8.8310 8.6912 8.8209 9.1778
966.0 549.0000 62.6865 0.0287 68.3184 6.5271
0.8042 101.1440 115.6832 116.1208 113.7029 111.8692 -
309.4082 9.8869 8.6443 8.6117 8.7949 8.9390
965.5 550.0000 62.8922 0.0289 68.6018 6.5154
0.8153 96.5494 110.6145 110.0181 107.1083 110.3398 -
310.9026 10.3574 9.0404 9.0894 9.3363 9.0629
965.0 544.0000 64.1369 0.0292 70.4726 6.7435
0.9048 92.4601 106.5860 104.5947 99.7889 104.6636 -
311.5834 10.8155 9.3821 9.5607 10.0212 9.5544
964.5 543.0000 67.6285 0.0301 76.0559 7.3979
1.2034 87.9795 103.5561 101.9102 93.8136 105.3952 -
312.3012 11.3663 9.6566 9.8126 10.6594 9.4881
964.0 548.0000 66.6358 0.0297 74.6783 7.2638
1.1485 80.3933 93.4009 92.9595 89.5971 97.9841 -
312.8314 12.4388 10.7065 10.7574 11.1611 10.2057
963.5 548.0000 56.8293 0.0247 63.7272 6.4708
0.9850 73.3072 83.3038 83.2826 82.9089 89.9396 -
312.6443 13.6412 12.0043 12.0073 12.0614 11.1186
963.0 554.0000 49.6305 0.0208 57.3461 5.9990
1.1018 70.1221 81.0437 82.4204 84.9843 88.8924 -
312.2014 14.2608 12.3390 12.1329 11.7669 11.2496
962.5 548.0000 61.4974 0.0291 69.8347 5.9653
1.1906 77.8009 91.2301 91.8340 100.5071 101.2741 -
312.4579 12.8533 10.9613 10.8892 9.9495 9.8742
962.0 544.0000 72.0812 0.0320 83.9410 7.9120
1.6936 90.4591 107.3225 108.1304 113.0426 114.0438 -
311.4603 11.0547 9.3177 9.2481 8.8462 8.7686
961.5 554.0000 71.7689 0.0318 83.0728 7.9180
1.6142 102.4347 128.6884 131.8999 137.6963 133.3673 -
308.7938 9.7623 7.7707 7.5815 7.2624 7.4981
961.0 542.0000 77.6213 0.0343 90.8851 8.6047
1.8941 110.5524 141.0772 146.9796 154.9995 152.7499 -
308.6609 9.0455 7.0883 6.8037 6.4516 6.5466
960.5 547.0000 77.5303 0.0340 89.9581 8.6909
1.7747 108.2113 139.4165 144.7519 151.9981 148.5301 -
309.8187 9.2412 7.1728 6.9084 6.5790 6.7326

960.0 548.0000 76.2529 0.0336 87.3791 8.4983
1.5888 107.6564 137.8222 143.4154 148.3100 145.3262 -
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1.6860 111.3418 137.6395 143.5091 143.3212 142.4447 -
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1.3566 114.1470 137.0920 142.4946 138.2073 140.1293 -
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1.6328 71.6896 72.6274 72.0730 71.7888 73.5085 -
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2.0820 82.0638 86.0733 89.9750 87.0622 89.9453 -
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1.7925 94.6982 101.1511 99.7447 96.6528 97.9774 -
334.8927 10.5599 9.8862 10.0256 10.3463 10.2064

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918.5	553.0000	75.0999	0.0267	86.9646	11.1225	1.6943	103.2227	115.9376	107.9161	96.3741	103.6895
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918.0	556.0000	74.6155	0.0263	86.1249	11.1572	1.6435	97.5891	106.3983	97.9280	92.3402	94.5016
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917.5	562.0000	74.2886	0.0259	85.5263	11.2459	1.6047	91.9750	97.4479	91.6738	91.9403	90.9759
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-331.7039	11.5202	10.9769	11.4999	11.5609	11.5475						
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915.5	570.0000	76.6134	0.0263	86.1338	11.7552	1.3595	73.8087	73.2457	72.4935	71.0826	71.1696
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915.0	563.0000	75.0701	0.0259	83.3092	11.4717	1.1765	69.2145	68.8615	68.8955	67.0680	67.3735
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912.5 575.0000 67.1770 0.0247 75.2389 9.6109
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1.6025 147.3914 152.1266 149.8882 139.3053 145.8005 -
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2.0257 129.1264 149.9040 154.5314 150.3098 153.6139 -
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910.0 564.0000 75.5700 0.0277 89.8966 10.8548
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909.5 580.0000 75.8143 0.0278 90.4446 10.8562
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893.5	671.0000	78.0950	0.0294	89.1817	10.8834	1.5832	117.8988	142.3511	148.3091	152.2188	165.8487	-206.5129	8.4819	7.0249	6.7427	6.5695	6.0296
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888.5	711.0000	114.6212	0.0417	132.5939	16.5959	2.5665	90.8801	88.5804	83.8730	82.7147	84.5685	-219.5841	11.0035	11.2892	11.9228	12.0898	11.8247
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808.0	682.0000	103.9429	0.0472	100.6688	10.9814	-0.4676	114.6637	246.8796	377.7110	441.3639	474.2200	-233.9574	8.7212	4.0506	2.6475	2.2657	2.1087
807.5	679.0000	104.1728	0.0472	100.5378	11.0493	-0.5191	97.1621	174.2721	256.2996	333.3349	323.1105	-239.4709	10.2921	5.7382	3.9017	3.0000	3.0949
807.0	684.0000	100.4167	0.0450	94.3562	10.8589	-0.8654	84.9879	141.0997	211.3399	296.7025	328.7395	-225.4254	11.7664	7.0872	4.7317	3.3704	3.0419
806.5	681.0000	100.9806	0.0450	94.2416	11.0149	-0.9623	77.7023	120.3577	175.2749	263.3709	351.9399	-193.2628	12.8696	8.3086	5.7053	3.7969	2.8414
806.0	681.0000	101.1655	0.0452	94.8460	11.0212	-0.9024	74.7779	113.5803	164.6924	256.6167	402.4890	-189.1930	13.3729	8.8043	6.0719	3.8969	2.4845
805.5	682.0000	98.5488	0.0444	92.0590	10.5402	-0.9267	70.3456	108.6900	161.2861	263.0444	498.2510	-213.2905	14.2155	9.2005	6.2002	3.8016	2.0070
805.0	690.0000	97.4622	0.0442	89.9632	10.3097	-1.0709	68.2881	106.0071	162.6270	274.2882	616.3082	-205.0555	14.6438	9.4333	6.1490	3.6458	1.6226
804.5	674.0000	100.2062	0.0453	94.7671	10.6496	-0.7767	66.7456	105.0927	166.7879	293.8453	800.3787	-197.3496	14.9823	9.5154	5.9956	3.4032	1.2494
804.0	682.0000	98.5583	0.0446	93.6139	10.4707	-0.7061	64.0861	99.9373	167.0973	312.9756	965.0488	-151.3868	15.6040	10.0063	5.9845	3.1951	1.0362
803.5	681.0000	97.1527	0.0439	92.4609	10.3515	-0.6700	62.4063	97.2113	165.9661	330.2540	1055.5349	-183.5141	16.0240	10.2869	6.0253	3.0280	0.9474
803.0	681.0000	97.3995	0.0439	93.0533	10.4266	-0.6206	63.5550	100.8812	173.3577	370.3695	1001.0361	-209.1239	15.7344	9.9126	5.7684	2.7000	0.9990
802.5	688.0000	98.3438	0.0442	94.2432	10.5716	-0.5856	65.4212	99.9114	186.0538	409.7716	888.2161	-230.3246	15.2856	10.0089	5.3748	2.4404	1.1259
802.0	682.0000	100.6969	0.0453	97.4069	10.8000	-0.4698	68.8948	108.3223	196.2105	433.1112	800.4267	-234.1287	14.5149	9.2317	5.0966	2.3089	1.2493
801.5	684.0000	101.1426	0.0458	97.8654	10.7172	-0.4680	69.2553	105.2898	189.6717	421.1750	597.6614	-230.0348	14.4393	9.4976	5.2723	2.3743	1.6732
801.0	681.0000	100.1794	0.0461	96.2087	10.3116	-0.5670	70.2175	106.2570	197.2479	521.2253	682.9078	-208.9210	14.2415	9.4111	5.0698	1.9186	1.4643
800.5	684.0000	100.1095	0.0465	95.3496	10.1180	-0.6797	71.2709	107.2979	206.2280	578.3497	700.5105	-180.9338	14.0310	9.3198	4.8490	1.7291	1.4275
800.0	685.0000	100.6483	0.0468	96.1257	10.1498	-0.6458	76.1427	117.2152	233.2762	606.2859	672.5452	-172.8364	13.1332	8.5313	4.2868	1.6494	1.4869
799.5	684.0000	99.7647	0.0465	94.9730	9.9992	-0.6843	81.7266	123.1726	263.8001	611.9381	649.4094	-181.5972	12.2359	8.1187	3.7907	1.6342	1.5399
799.0	682.0000	99.5654	0.0463	94.6542	10.0310	-0.7013	89.5533	141.7315	318.0112	572.1024	510.9257	-192.2622	11.1665	7.0556	3.1445	1.7479	1.9572

798.5	681.0000	99.8921	0.0463	95.2573	10.1589	-0.6618	92.7655	141.9811	268.5996	352.4338	379.4255
-200.6843	10.7799	7.0432	3.7230	2.8374	2.6356						
798.0	679.0000	99.1130	0.0460	93.8887	10.0580	-0.7460	92.2998	146.8290	297.5415	566.9974	538.7248
-208.0581	10.8343	6.8106	3.3609	1.7637	1.8562						
797.5	678.0000	98.8595	0.0456	93.5033	10.1211	-0.7649	84.5169	116.3321	287.3900	528.4047	493.3411
-213.7294	11.8320	8.5961	3.4796	1.8925	2.0270						
797.0	682.0000	97.3592	0.0452	91.3310	9.8709	-0.8608	84.8319	118.2043	234.7830	448.8789	421.9852
-181.7365	11.7880	8.4599	4.2593	2.2278	2.3698						
796.5	691.0000	98.0709	0.0454	92.7337	9.9724	-0.7622	78.7289	111.2063	200.2355	388.7862	369.5804
-143.6100	12.7018	8.9923	4.9941	2.5721	2.7058						
796.0	685.0000	95.6153	0.0443	89.7607	9.6970	-0.8360	72.4955	101.1474	173.0673	325.3810	318.3140
-119.1011	13.7940	9.8866	5.7781	3.0733	3.1416						
795.5	681.0000	96.6254	0.0447	91.7816	9.8602	-0.6917	72.1766	98.4024	154.7779	271.0671	296.5940
-114.5633	13.8549	10.1624	6.4609	3.6891	3.3716						
795.0	678.0000	92.4186	0.0432	86.1096	9.2299	-0.9009	67.6353	94.4092	140.9460	233.0255	280.7045
-174.5138	14.7852	10.5922	7.0949	4.2914	3.5625						
794.5	674.0000	93.7735	0.0436	88.4982	9.4562	-0.7533	66.1519	93.8917	133.6954	210.7306	274.5814
-208.2353	15.1167	10.6506	7.4797	4.7454	3.6419						
794.0	684.0000	94.1618	0.0437	89.4716	9.5588	-0.6698	66.1298	92.4712	131.0184	198.6645	265.3546
-206.4745	15.1218	10.8142	7.6325	5.0336	3.7685						
793.5	691.0000	95.1858	0.0440	91.1018	9.6967	-0.5832	67.2972	91.0885	130.7116	191.4349	253.0643
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793.0	684.0000	105.5368	0.0471	103.7521	11.5051	-0.2549	65.8997	94.3325	136.8886	195.5701	243.5965
-238.0082	15.1746	10.6008	7.3052	5.1133	4.1052						
792.5	688.0000	110.7591	0.0484	111.1205	12.5147	0.0516	72.1145	98.6946	148.5936	213.2318	236.7851
-226.3601	13.8668	10.1323	6.7298	4.6897	4.2232						
792.0	684.0000	120.7612	0.0511	128.0772	14.3900	1.0447	80.8826	100.1305	164.9200	221.1912	224.4077
-227.2488	12.3636	9.9870	6.0635	4.5210	4.4562						
791.5	681.0000	128.3098	0.0507	149.0460	16.8346	2.9611	80.7069	114.9619	184.5104	199.3680	194.5822
-257.2582	12.3905	8.6985	5.4197	5.0159	5.1392						
791.0	673.0000	129.6631	0.0511	151.1853	17.0592	3.0734	76.1843	116.5372	174.3219	227.7489	181.4411
-229.3720	13.1261	8.5810	5.7365	4.3908	5.5114						
790.5	674.0000	131.1581	0.0515	153.4816	17.3587	3.1878	74.0573	107.5088	161.6935	217.9426	190.9765
-239.2631	13.5031	9.3016	6.1845	4.5884	5.2362						
790.0	692.0000	130.7198	0.0509	151.5375	17.4654	2.9728	83.6600	107.3796	142.4423	196.9835	178.5275
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789.5	685.0000	130.2374	0.0504	150.3507	17.5491	2.8722	74.8269	102.6861	118.2105	170.6185	156.6352
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3.1341 70.7072 84.7835 103.2288 168.2471 150.8833 -
227.8326 14.1428 11.7947 9.6872 5.9436 6.6276
788.5 688.0000 131.3617 0.0497 152.9661 18.1653
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779.5	673.0000	137.0665	0.0502	158.1216	19.6680	3.0067	287.3789	218.5450	221.9991	211.7809	194.5786
-251.5342	3.4797	4.5757	4.5045	4.7219	5.1393						
779.0	684.0000	140.5603	0.0513	163.9538	20.2672	3.3406	292.2594	214.0392	239.3934	186.2348	213.6566
-243.7645	3.4216	4.6720	4.1772	5.3696	4.6804						
778.5	682.0000	133.9537	0.0482	155.9561	19.6137	3.1419	277.9550	192.2091	215.7504	195.6994	188.0108
-238.3254	3.5977	5.2027	4.6350	5.1099	5.3188						
778.0	681.0000	132.7642	0.0477	154.4567	19.4850	3.0977	260.0866	163.6191	183.3544	177.0727	159.8411
-242.4543	3.8449	6.1118	5.4539	5.6474	6.2562						
777.5	678.0000	133.7831	0.0481	155.8617	19.5922	3.1528	216.0449	153.2679	159.8652	159.0036	133.4688
-247.7115	4.6287	6.5245	6.2553	6.2892	7.4924						
777.0	682.0000	134.4914	0.0484	156.9012	19.7055	3.2001	175.9544	147.5106	134.5436	131.7734	120.2480
-245.5889	5.6833	6.7792	7.4325	7.5888	8.3161						
776.5	684.0000	133.5489	0.0481	155.4576	19.5434	3.1286	141.3868	134.8050	121.1799	116.2273	109.7843
-243.6814	7.0728	7.4181	8.2522	8.6038	9.1088						
776.0	679.0000	131.0246	0.0472	151.6852	19.1633	2.9503	112.0283	125.5598	106.1092	100.6342	96.2626
-239.3142	8.9263	7.9643	9.4243	9.9370	10.3883						
775.5	680.0000	118.6067	0.0440	136.1686	16.8131	2.5079	99.3056	120.8771	98.7948	92.4493	89.0345
-232.1779	10.0699	8.2729	10.1220	10.8167	11.2316						
775.0	684.0000	117.7353	0.0438	134.9501	16.6116	2.4583	106.4588	122.8173	100.4581	92.4397	93.1573
-235.7587	9.3933	8.1422	9.9544	10.8179	10.7345						
774.5	679.0000	108.9707	0.0446	116.2500	13.6285	1.0395	101.5320	132.7539	119.3819	111.0425	112.9965
-246.7727	9.8491	7.5327	8.3765	9.0056	8.8498						
774.0	679.0000	106.7040	0.0439	112.3559	13.2448	0.8071	103.7318	139.3199	133.3126	116.4993	124.3402
-252.4538	9.6402	7.1777	7.5012	8.5837	8.0425						
773.5	687.0000	106.9238	0.0444	112.1528	13.0878	0.7467	89.3205	164.3533	164.2195	164.9758	181.9253
-258.5252	11.1956	6.0845	6.0894	6.0615	5.4968						
773.0	697.0000	108.4625	0.0453	113.5708	13.1786	0.7295	85.8663	124.8856	154.9540	179.6002	220.5411
-217.3814	11.6460	8.0073	6.4535	5.5679	4.5343						
772.5	690.0000	108.2722	0.0453	112.7116	13.0885	0.6340	88.8422	127.0757	156.2546	201.2973	290.4186
-211.7833	11.2559	7.8693	6.3998	4.9678	3.4433						
772.0	691.0000	107.7750	0.0456	111.6520	12.8490	0.5536	83.0066	106.9857	148.4584	220.6257	382.9712
-256.1605	12.0472	9.3470	6.7359	4.5326	2.6112						
771.5	682.0000	108.1241	0.0460	112.0648	12.7658	0.5627	77.7893	110.0120	151.6665	244.4297	538.5480
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771.0	697.0000	110.1262	0.0469	114.3209	12.9804	0.5990	75.9141	112.5731	157.3208	283.9143	725.6590
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770.5	686.0000	110.2702	0.0469	114.4969	13.0101	0.6036	72.2100	113.0471	163.1730	312.4165	966.8716
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770.0	682.0000	106.3925	0.0453	109.0902	12.5402	0.3852	71.2497	113.0148	169.5104	372.3204	1248.7261	-247.8512	14.0352
8.8484	5.8993	2.6859	0.8008	769.5	681.0000	114.9179	0.0435	120.5511	15.8734	0.8044	70.7925	121.8137	187.5643
459.4703	1474.1462	-245.8930	14.1258	8.2093	5.3315	2.1764	0.6784	769.0	674.0000	111.2197	0.0422	115.7648	15.3366
0.6490	70.7115	123.5895	194.0042	537.1674	1504.6826	-237.1917	14.1420	8.0913	5.1545	1.8616	0.6646	768.5	670.0000
110.3965	0.0419	115.2575	15.2201	0.6942	69.3971	119.2126	192.2053	544.4476	1345.7400	-245.9260	14.4098	8.3884	5.2028
1.8367	0.7431	768.0	679.0000	112.6079	0.0430	118.2408	15.4163	0.8044	67.1242	113.1229	182.1207	468.5857	1074.2415
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107.3318	169.1693	366.3302	798.8746	-245.2417	15.4358	9.3169	5.9112	2.7298	1.2518	767.0	692.0000	112.6718	0.0430
119.2369	15.4182	0.9375	64.2431	102.5200	156.2059	286.4863	580.3308	-228.1949	15.5659	9.7542	6.4018	3.4906	1.7232
766.5	680.0000	111.4030	0.0424	117.7620	15.3143	0.9081	61.0235	95.4919	140.5360	225.3553	428.9584	-241.0015	16.3871
10.4721	7.1156	4.4374	2.3312	766.0	695.0000	109.6777	0.0418	115.2415	15.0641	0.7945	59.6708	86.9039	129.5455
190.0370	331.5175	-236.5996	16.7586	11.5070	7.7193	5.2621	3.0164	765.5	691.0000	109.2043	0.0415	114.2514	15.0304
0.7207	62.7120	87.8023	126.0087	175.5903	258.8175	-260.2162	15.9459	11.3892	7.9360	5.6951	3.8637	765.0	686.0000
114.5821	0.0424	124.7449	16.2589	1.4513	66.8951	93.3565	136.6101	199.1043	262.2709	-263.5931	14.9488	10.7116	7.3201
5.0225	3.8129	764.5	693.0000	117.5075	0.0435	128.6810	16.6853	1.5956	71.9782	98.4653	146.2016	217.0044	243.7300
-235.3883	13.8931	10.1559	6.8399	4.6082	4.1029	764.0	685.0000	123.1200	0.0453	135.9003	17.5838	1.8250	70.8668
98.1733	138.0880	214.7687	231.1834	-231.3096	14.1110	10.1861	7.2418	4.6562	4.3256	763.5	691.0000	124.3434	0.0459
137.6319	17.6935	1.8976	74.6029	90.2857	130.3069	204.9497	202.7474	-242.1349	13.4043	11.0760	7.6742	4.8792	4.9322
763.0	686.0000	127.0122	0.0469	141.4817	18.0952	2.0663	77.2990	92.3398	120.6153	180.4331	169.7070	-240.2412	12.9368
10.8296	8.2908	5.5422	5.8925	762.5	687.0000	125.2062	0.0462	138.9012	17.8387	1.9556	83.1268	86.3624	110.0317
161.1535	140.8981	-225.5680	12.0298	11.5791	9.0883	6.2053	7.0973	762.0	686.0000	115.3696	0.0424	125.2828	16.5178
1.4156	86.7715	91.5198	112.9631	143.5054	129.6157	-219.0482	11.5245	10.9266	8.8524	6.9684	7.7151	761.5	682.0000
113.4084	0.0414	121.8973	16.3285	1.2122	90.6324	93.6006	114.7653	129.4687	118.8583	-210.9791	11.0336	10.6837	8.7134
7.7239	8.4134	761.0	670.0000	112.2880	0.0409	120.6527	16.2380	1.1945	100.8279	100.6379	122.3176	130.4509	116.1207
-203.4631	9.9179	9.9366	8.1754	7.6657	8.6117								

760.5 685.0000 111.3354 0.0403 120.0469 16.1815
1.2440 104.1189 95.4598 117.0115 120.6216 105.9631 -
204.9632 9.6044 10.4756 8.5462 8.2904 9.4372
760.0 685.0000 112.0582 0.0406 121.5404 16.2786
1.3541 105.3208 100.8581 114.5950 112.3011 100.1278 -
206.2675 9.4948 9.9149 8.7264 8.9046 9.9872
759.5 693.0000 114.0285 0.0414 124.6541 16.5431
1.5173 108.4533 98.9397 109.9681 108.0220 92.7411 -
194.9219 9.2206 10.1072 9.0935 9.2574 10.7827
759.0 687.0000 121.5077 0.0447 135.7576 17.3562
2.0349 115.5490 100.7635 114.2319 106.6413 92.5025 -
171.7214 8.6543 9.9242 8.7541 9.3772 10.8105
758.5 682.0000 120.1631 0.0444 133.8985 17.0991
1.9614 126.8804 105.6872 118.5635 108.8430 91.2818 -
130.3660 7.8814 9.4619 8.4343 9.1875 10.9551
758.0 686.0000 118.9211 0.0440 132.0200 16.8875
1.8705 140.4303 112.0519 111.2671 103.0704 86.4370 -
162.0407 7.1210 8.9244 8.9874 9.7021 11.5691
757.5 684.0000 113.4697 0.0423 122.8987 15.9711
1.3465 152.5826 106.0411 114.9945 103.5596 89.4906 -
142.0883 6.5538 9.4303 8.6961 9.6563 11.1744
757.0 692.0000 111.8066 0.0419 120.8727 15.6284
1.2946 151.2664 116.2348 121.2439 110.5642 94.9394 -
158.3325 6.6109 8.6033 8.2478 9.0445 10.5330
756.5 689.0000 114.3394 0.0432 124.4549 15.8689
1.4445 149.8052 131.7920 136.2135 126.0681 110.9688 -
193.3891 6.6753 7.5877 7.3414 7.9322 9.0115
756.0 686.0000 114.2906 0.0430 123.5022 15.9377
1.3154 171.8882 122.8250 123.2988 122.7726 109.2862 -
160.8151 5.8177 8.1417 8.1104 8.1451 9.1503
755.5 693.0000 114.0805 0.0430 122.6295 15.8483
1.2208 151.3532 121.2167 131.9794 135.9798 124.2467 -
121.8667 6.6071 8.2497 7.5769 7.3540 8.0485
755.0 688.0000 112.2861 0.0423 119.7440 15.6219
1.0650 174.8017 127.9917 124.7333 127.4733 129.8716 -
142.1336 5.7208 7.8130 8.0171 7.8448 7.6999
754.5 695.0000 111.3987 0.0421 118.3237 15.4479
0.9889 198.8726 130.5820 132.4160 130.0261 146.4368 -
154.6864 5.0283 7.6580 7.5520 7.6908 6.8289
754.0 691.0000 111.7339 0.0422 118.6375 15.4833
0.9858 189.1987 130.6293 115.7648 126.3904 168.3870 -
149.7990 5.2854 7.6552 8.6382 7.9120 5.9387
753.5 690.0000 113.0877 0.0427 120.5259 15.7048
1.0622 217.8382 149.4802 140.2547 129.2426 141.5207 -
178.2415 4.5906 6.6898 7.1299 7.7374 7.0661
753.0 698.0000 115.1711 0.0434 123.6453 16.0149
1.2101 233.7082 127.4084 120.1676 125.3738 138.8535 -
197.7738 4.2788 7.8488 8.3217 7.9761 7.2018
752.5 689.0000 113.6297 0.0428 120.8958 15.8120
1.0376 120.4462 100.6266 108.3216 94.6732 101.9148 -
213.4083 8.3025 9.9377 9.2318 10.5626 9.8121
752.0 691.0000 112.9264 0.0423 119.8927 15.8000
0.9948 76.2695 64.3595 73.2166 75.0394 74.3577 -
182.3356 13.1114 15.5377 13.6581 13.3263 13.4485
751.5 684.0000 110.0805 0.0414 116.1258 15.3594
0.8633 60.5559 50.5425 53.6294 54.2767 53.8730 -
190.4146 16.5137 19.7853 18.6465 18.4241 18.5622

751.0 688.0000 108.3034 0.0408 113.7744 15.0661
0.7813 47.2244 40.6014 42.4764 50.1444 48.4274 -
213.9025 21.1755 24.6297 23.5425 19.9424 20.6495
750.5 686.0000 108.9853 0.0412 114.6106 15.0937
0.8033 46.7097 33.9483 32.7898 34.0657 32.9057 -
135.2342 21.4088 29.4566 30.4973 29.3551 30.3899
750.0 688.0000 107.6432 0.0409 112.4045 14.8398
0.6799 46.1687 36.1508 34.0097 33.9829 33.8467 -
154.6753 21.6597 27.6619 29.4034 29.4266 29.5450
749.5 695.0000 113.5884 0.0399 126.2813 17.0472
1.8125 41.6189 37.6844 34.7602 33.5605 33.7417 -
197.8632 24.0276 26.5362 28.7685 29.7970 29.6370
749.0 692.0000 116.6220 0.0395 131.8817 18.1244
2.1791 42.2711 38.0445 37.8976 35.4872 35.6736 -
247.3285 23.6568 26.2850 26.3869 28.1792 28.0319
748.5 691.0000 120.8021 0.0417 142.1937 18.4408
3.0547 48.2684 43.8071 42.4280 37.3592 36.5469 -
259.6109 20.7175 22.8274 23.5693 26.7672 27.3621
748.0 696.0000 123.5350 0.0430 145.8315 18.7092
3.1840 55.5174 48.7110 47.3204 43.8764 43.4866 -
257.9820 18.0124 20.5292 21.1325 22.7913 22.9956
747.5 697.0000 125.2682 0.0438 148.1235 18.8736
3.2637 58.1893 58.3385 57.7428 53.6840 53.3782 -
261.7199 17.1853 17.1413 17.3182 18.6275 18.7343
747.0 695.0000 129.5501 0.0458 155.3115 19.3055
3.6787 79.1071 60.9438 62.3682 61.9477 61.0400 -
209.5238 12.6411 16.4086 16.0338 16.1427 16.3827
746.5 695.0000 129.5878 0.0460 155.8318 19.2522
3.7476 79.7299 70.2627 69.2723 67.9172 66.9033 -
188.1025 12.5423 14.2323 14.4358 14.7238 14.9469
746.0 680.0000 126.0607 0.0445 150.0168 18.8334
3.4209 87.1992 76.1329 69.7797 72.1804 74.4453 -
186.6371 11.4680 13.1349 14.3308 13.8542 13.4327
745.5 684.0000 127.4102 0.0449 152.3357 19.0480
3.5594 92.7679 75.3181 71.1587 83.9637 90.5595 -
251.8025 10.7796 13.2770 14.0531 11.9099 11.0425
745.0 674.0000 131.7104 0.0462 159.3000 19.8003
3.9398 100.7909 82.9788 89.6650 87.2870 101.7056 -
267.9149 9.9215 12.0513 11.1526 11.4565 9.8323
744.5 677.0000 131.0364 0.0457 158.5214 19.7942
3.9249 127.0634 108.3844 106.1488 87.7248 120.5714 -
281.4626 7.8701 9.2264 9.4207 11.3993 8.2938
744.0 690.0000 128.6057 0.0445 154.4786 19.5994
3.6947 131.8076 115.4077 120.8157 97.4001 114.9931 -
293.3241 7.5868 8.6649 8.2771 10.2669 8.6962
743.5 693.0000 127.6405 0.0441 152.7453 19.4836
3.5850 137.1730 120.1080 129.3488 112.8139 127.9632 -
302.9125 7.2901 8.3258 7.7310 8.8642 7.8147
743.0 695.0000 128.5237 0.0446 153.7955 19.5331
3.6088 121.7903 100.9021 105.1680 108.3063 118.7588 -
312.6624 8.2108 9.9106 9.5086 9.2331 8.4204
742.5 696.0000 127.0946 0.0443 151.4215 19.2388
3.4739 110.6307 91.4492 92.5829 105.6419 113.1672 -
321.4431 9.0391 10.9350 10.8011 9.4659 8.8365
742.0 691.0000 124.6071 0.0435 147.5081 18.8124
3.2703 110.1732 87.2743 88.1995 100.3668 98.1415 -
315.4733 9.0766 11.4581 11.3379 9.9635 10.1894

741.5 687.0000 125.7619 0.0438 149.0190 19.0332
3.3211 128.5973 94.6452 91.2728 99.8113 98.6158 -
210.6914 7.7762 10.5658 10.9562 10.0189 10.1404
741.0 687.0000 125.5229 0.0435 148.4768 19.0901
3.2778 138.4933 104.5429 97.8881 105.5472 104.1913 -
230.8899 7.2206 9.5655 10.2157 9.4744 9.5977
740.5 691.0000 138.8124 0.0466 162.4265 21.7734
3.3721 150.0135 115.5382 109.5691 103.3703 108.1271 -
247.3817 6.6661 8.6551 9.1267 9.6740 9.2484
740.0 691.0000 136.4357 0.0448 146.6681 21.8146
1.4612 157.7900 120.7405 113.3048 100.8577 105.7324 -
262.3364 6.3375 8.2822 8.8257 9.9150 9.4578
739.5 691.0000 135.4317 0.0444 144.7547 21.7137
1.3313 156.0475 125.5675 116.7713 101.3052 97.7253 -
276.8849 6.4083 7.9638 8.5637 9.8712 10.2328
739.0 697.0000 136.6185 0.0445 146.6139 22.0115
1.4274 145.4166 128.2603 117.8974 95.7795 93.8476 -
289.3582 6.8768 7.7966 8.4820 10.4406 10.6556
738.5 687.0000 136.8632 0.0446 146.2458 22.0442
1.3398 141.7353 118.7245 107.2654 108.4046 94.9803 -
300.9914 7.0554 8.4229 9.3227 9.2247 10.5285
738.0 681.0000 126.5966 0.0473 133.2381 17.7754
0.9484 133.0986 109.7827 99.6262 97.5300 89.3212 -
309.5924 7.5132 9.1089 10.0375 10.2533 11.1955
737.5 688.0000 118.7012 0.0461 123.4273 15.9222
0.6749 132.6575 100.1526 91.6449 90.4177 82.7939 -
306.7202 7.5382 9.9848 10.9117 11.0598 12.0782
737.0 687.0000 116.8653 0.0454 121.9381 15.6400
0.7244 136.1185 89.6645 85.8992 84.1578 79.2084 -
293.3176 7.3465 11.1527 11.6416 11.8824 12.6249
736.5 691.0000 105.3827 0.0421 110.4280 13.6312
0.7205 133.8766 89.0142 86.2755 83.8079 79.5969 -
278.3340 7.4696 11.2342 11.5908 11.9320 12.5633
736.0 680.0000 106.0718 0.0423 112.2903 13.7214
0.8880 135.3034 92.4367 87.5666 82.4874 80.1012 -
244.1179 7.3908 10.8182 11.4199 12.1231 12.4842
735.5 690.0000 105.8074 0.0423 113.1606 13.6532
1.0500 131.7110 88.7849 85.3403 80.1477 80.4095 -
191.1513 7.5924 11.2632 11.7178 12.4770 12.4363
735.0 695.0000 106.1659 0.0421 112.7174 13.8407
0.9356 117.4543 90.6122 84.7599 75.4687 77.4325 -
201.2059 8.5140 11.0360 11.7980 13.2505 12.9145
734.5 697.0000 105.4373 0.0415 112.1864 13.8764
0.9638 107.5602 89.8786 84.2260 78.6979 78.8198 -
225.0692 9.2971 11.1261 11.8728 12.7068 12.6872
734.0 701.0000 106.8699 0.0417 113.1813 14.2408
0.9013 104.1583 89.3783 84.1758 79.8059 82.2806 -
220.4391 9.6008 11.1884 11.8799 12.5304 12.1535
733.5 695.0000 106.3400 0.0414 112.1998 14.2096
0.8368 108.3239 88.7757 85.8044 82.7127 88.7717 -
189.5315 9.2316 11.2643 11.6544 12.0900 11.2649
733.0 695.0000 107.6844 0.0417 114.7050 14.4884
1.0025 106.7390 89.0442 84.0514 79.8465 87.6448 -
208.6237 9.3686 11.2304 11.8975 12.5240 11.4097
732.5 695.0000 109.7661 0.0420 117.6089 14.9943
1.1200 108.3082 86.9191 83.7706 87.1817 87.9190 -
214.7066 9.2329 11.5050 11.9374 11.4703 11.3741

732.0	688.0000	110.7577	0.0419	118.8100	15.3295	1.1499	108.3500	85.0240	87.7002	88.5498	98.1244	-212.7687	9.2294
11.7614	11.4025	11.2931	10.1911										
731.5	693.0000	111.0020	0.0416	119.1637	15.5430	1.1655	109.2753	79.8422	90.9928	91.2852	98.9256	-195.0776	9.1512
12.5247	10.9899	10.9547	10.1086										
731.0	684.0000	112.4295	0.0417	121.6488	15.9196	1.3165	112.2506	79.2901	92.5979	95.7301	101.5253	-173.0288	8.9086
12.6119	10.7994	10.4460	9.8498										
730.5	687.0000	111.8675	0.0411	121.1296	16.0079	1.3226	114.4957	78.0581	90.2262	94.0686	98.8421	-168.0959	8.7340
12.8110	11.0833	10.6305	10.1171										
730.0	691.0000	110.6985	0.0404	119.8348	15.9795	1.3047	131.0871	89.8207	96.9183	100.2794	99.4650	-174.9822	7.6285
11.1333	10.3180	9.9721	10.0538										
729.5	693.0000	110.6075	0.0401	119.8380	16.0826	1.3181	144.9833	102.5410	122.0591	126.1729	117.8337	-187.8237	6.8973
9.7522	8.1928	7.9256	8.4865										
729.0	698.0000	109.7462	0.0399	118.7447	15.9016	1.2850	149.5496	113.6907	123.6305	119.4837	112.0127	-175.6787	6.6867
8.7958	8.0886	8.3693	8.9276										
728.5	697.0000	103.0584	0.0403	110.5034	13.7036	1.0631	110.6110	85.7982	86.9271	84.6507	80.5691	-197.6002	9.0407
11.6553	11.5039	11.8133	12.4117										
728.0	680.0000	103.2527	0.0405	111.1235	13.6535	1.1239	89.7156	74.2874	71.5374	68.0006	63.5491	-202.9043	11.1463
13.4612	13.9787	14.7057	15.7359										
727.5	701.0000	100.5169	0.0394	107.4442	13.3120	0.9892	80.6251	70.2242	65.9633	65.7066	62.8520	-216.3206	12.4031
14.2401	15.1599	15.2192	15.9104										
727.0	678.0000	101.1841	0.0398	109.1257	13.3642	1.1341	89.1432	85.6426	78.1950	72.5688	71.1569	-219.3185	11.2179
11.6764	12.7885	13.7800	14.0535										
726.5	662.0000	100.6127	0.0397	108.9280	13.2363	1.1874	97.4232	87.4769	88.5037	84.2766	83.0957	-155.0921	10.2645
11.4316	11.2990	11.8657	12.0343										
726.0	681.0000	100.1032	0.0397	108.0215	13.0708	1.1307	103.2112	96.1855	94.4808	83.1229	83.3027	-202.2893	9.6889
10.3966	10.5842	12.0304	12.0044										
725.5	691.0000	101.4291	0.0405	109.6195	13.0960	1.1696	102.0562	103.8802	111.2643	84.7475	87.4427	-179.8483	9.7985
9.6265	8.9876	11.7998	11.4361										
725.0	684.0000	97.8859	0.0401	102.1419	12.2148	0.6078	93.3183	95.1747	110.1618	95.0900	97.1041	-199.5314	10.7160
10.5070	9.0776	10.5164	10.2982										
724.5	676.0000	99.1770	0.0409	103.9769	12.2570	0.6854	87.2121	90.6004	99.3657	98.4722	102.6652	-180.5455	11.4663
11.0375	10.0638	10.1552	9.7404										
724.0	685.0000	100.7227	0.0416	105.8208	12.4130	0.7280	77.2665	84.1759	104.5547	110.6093	122.0887	-203.8994	12.9422
11.8799	9.5644	9.0408	8.1908										
723.5	687.0000	104.9440	0.0422	115.5691	13.4367	1.5173	72.0907	78.5599	94.2025	113.6628	126.5307	-230.7223	13.8714
12.7291	10.6154	8.7979	7.9032										
723.0	686.0000	102.0097	0.0409	111.6808	13.1143	1.3810	76.7507	90.6372	99.7071	120.1446	147.9694	-176.8252	13.0292
11.0330	10.0294	8.3233	6.7582										

722.5	685.0000	105.5891	0.0418	117.7563	13.8064	1.7375	68.8267	96.4094	113.8747	150.4015	194.0183	-136.7339	14.5292
10.3724	8.7816	6.6489	5.1542										
722.0	681.0000	106.7124	0.0421	119.8841	14.0101	1.8809	72.5583	101.7256	124.6772	171.3780	263.9416	-172.5871	13.7820
9.8304	8.0207	5.8351	3.7887										
721.5	692.0000	110.4416	0.0435	125.6623	14.5249	2.1735	73.2107	113.3732	143.1150	213.1747	352.6954	-186.0578	13.6592
8.8204	6.9874	4.6910	2.8353										
721.0	690.0000	111.1812	0.0438	127.3012	14.6303	2.3019	69.0795	119.3935	158.0155	247.5275	482.7842	-203.9130	14.4761
8.3757	6.3285	4.0400	2.0713										
720.5	695.0000	109.0290	0.0430	124.3933	14.3475	2.1940	69.5965	138.0126	179.7141	300.8377	583.8240	-240.5957	14.3685
7.2457	5.5644	3.3241	1.7128										
720.0	697.0000	110.0456	0.0434	125.7489	14.4491	2.2424	70.3566	122.3759	151.2380	257.8242	517.7132	-256.3031	14.2133
8.1715	6.6121	3.8786	1.9316										
719.5	696.0000	111.2269	0.0440	127.5442	14.5831	2.3301	67.7053	106.5058	140.7483	272.2872	436.8671	-250.6279	14.7699
9.3892	7.1049	3.6726	2.2890										
719.0	697.0000	106.0204	0.0417	120.0759	13.9991	2.0071	66.6287	97.0499	132.7956	216.7850	306.7066	-217.3020	15.0085
10.3040	7.5304	4.6129	3.2604										
718.5	690.0000	103.2659	0.0404	116.1500	13.7200	1.8398	64.8000	82.2783	114.5313	166.2070	211.5974	-230.1366	15.4321
12.1539	8.7312	6.0166	4.7260										
718.0	692.0000	102.2324	0.0398	114.7657	13.6726	1.7897	60.5675	76.9077	98.7693	138.7359	155.9950	-244.5016	16.5105
13.0026	10.1246	7.2079	6.4105										
717.5	684.0000	99.8799	0.0387	111.5183	13.4465	1.6620	54.9232	68.3983	87.6709	120.0663	126.7543	-251.1467	18.2072
14.6202	11.4063	8.3287	7.8893										
717.0	691.0000	98.7588	0.0379	109.8767	13.4342	1.5876	50.5780	59.9529	72.1442	101.0436	100.0800	-256.4410	19.7714
16.6798	13.8611	9.8967	9.9920										
716.5	688.0000	99.5839	0.0382	111.1315	13.5630	1.6490	57.1726	63.1066	73.0892	84.1207	82.2836	-258.0964	17.4909
15.8462	13.6819	11.8877	12.1531										
716.0	684.0000	95.5084	0.0361	104.9085	13.2117	1.3423	53.5609	69.0565	85.2574	89.0275	84.6415	-252.8958	18.6703
14.4809	11.7292	11.2325	11.8145										
715.5	688.0000	90.2373	0.0327	96.7118	13.1243	0.9246	58.2194	71.7013	88.5995	107.7544	97.0309	-246.2886	17.1764
13.9468	11.2867	9.2804	10.3060										
715.0	691.0000	97.4099	0.0371	106.2732	13.3622	1.2657	60.8027	75.3546	97.9935	107.3711	103.5519	-250.3355	16.4466
13.2706	10.2048	9.3135	9.6570										
714.5	686.0000	101.6644	0.0398	111.6720	13.4852	1.4291	66.4094	80.2627	102.8454	116.4933	111.7855	-236.7350	15.0581
12.4591	9.7233	8.5842	8.9457										
714.0	688.0000	104.5167	0.0410	115.7604	13.8449	1.6056	65.5024	82.3505	112.7348	132.3793	126.6038	-227.8927	15.2666
12.1432	8.8704	7.5541	7.8987										
713.5	688.0000	116.5279	0.0424	128.7257	16.8616	1.7419	66.1393	84.9252	121.6437	151.3215	152.3025	-231.3262	15.1196
11.7751	8.2207	6.6084	6.5659										

713.0 686.0000 118.9422 0.0432 131.7858 17.2305
1.8341 68.1891 88.6206 129.6333 166.9261 183.7838 -
211.0969 14.6651 11.2841 7.7141 5.9907 5.4412
712.5 693.0000 116.3850 0.0422 126.9365 16.9103
1.5068 71.2686 91.8317 140.0823 197.8494 227.0741 -
181.5214 14.0314 10.8895 7.1387 5.0544 4.4038
712.0 686.0000 118.4277 0.0429 129.3171 17.2183
1.5550 70.7729 95.0943 146.6688 221.5443 302.9284 -
183.1221 14.1297 10.5159 6.8181 4.5138 3.3011
711.5 693.0000 117.6940 0.0428 128.0319 17.0413
1.4763 71.9012 100.9275 159.6358 257.0424 392.4308 -
199.0279 13.9080 9.9081 6.2643 3.8904 2.5482
711.0 693.0000 115.8187 0.0423 125.4763 16.7014
1.3791 70.1864 103.1713 158.7541 278.9508 519.4160 -
202.0353 14.2478 9.6926 6.2990 3.5849 1.9252
710.5 690.0000 116.7132 0.0427 126.8471 16.7624
1.4471 68.4227 104.5791 165.4685 323.1873 675.6331 -
188.8286 14.6150 9.5621 6.0434 3.0942 1.4801
710.0 702.0000 126.2457 0.0471 140.0510 17.7426
1.9714 67.2005 105.1759 171.6172 351.8572 766.9560 -
172.2801 14.8808 9.5079 5.8269 2.8421 1.3039
709.5 689.0000 125.6932 0.0467 139.0848 17.7719
1.9123 66.3734 107.0949 168.5261 346.5432 737.5959 -
178.9097 15.0663 9.3375 5.9338 2.8856 1.3558
709.0 691.0000 122.3055 0.0455 134.2092 17.2571
1.6998 65.5992 106.6757 166.7417 346.4445 618.9910 -
161.6067 15.2441 9.3742 5.9973 2.8865 1.6155
708.5 684.0000 123.2118 0.0459 135.7620 17.3533
1.7922 65.0986 105.1384 166.9794 352.7733 515.2687 -
179.0596 15.3613 9.5113 5.9888 2.8347 1.9407
708.0 680.0000 122.1272 0.0458 133.7854 17.0795
1.6648 62.6754 101.3202 162.0634 342.5223 451.0467 -
179.3240 15.9552 9.8697 6.1704 2.9195 2.2171
707.5 679.0000 120.9572 0.0455 131.7829 16.8474
1.5459 61.6366 92.2476 146.5140 327.6089 345.9924 -
200.1178 16.2241 10.8404 6.8253 3.0524 2.8902
707.0 681.0000 120.1774 0.0455 130.6135 16.6296
1.4903 57.6051 88.9857 143.3099 285.8177 334.1891 -
186.9416 17.3596 11.2378 6.9779 3.4987 2.9923
706.5 674.0000 120.0955 0.0454 130.6781 16.6331
1.5112 58.5766 91.9183 152.8578 305.4778 371.3576 -
237.7414 17.0717 10.8792 6.5420 3.2736 2.6928
706.0 690.0000 121.4143 0.0458 132.9342 16.8578
1.6450 61.4328 94.8318 160.2519 303.2678 371.2574 -
237.8260 16.2779 10.5450 6.2402 3.2974 2.6935
705.5 688.0000 125.7533 0.0479 142.4566 17.2788
2.3852 66.5092 106.1682 182.8868 310.6712 383.1385 -
227.6151 15.0355 9.4190 5.4679 3.2188 2.6100
705.0 684.0000 130.0668 0.0503 149.6216 17.5087
2.7924 72.1655 118.4532 215.7466 283.1538 338.3042 -
249.1484 13.8570 8.4422 4.6351 3.5316 2.9559
704.5 689.0000 131.4806 0.0511 151.0426 17.6241
2.7935 75.2813 120.6586 221.3966 280.5615 335.7961 -
285.4370 13.2835 8.2878 4.5168 3.5643 2.9780
704.0 678.0000 131.1991 0.0508 148.8569 17.6412
2.5215 74.2209 122.8346 218.3084 312.8881 343.4194 -
278.3119 13.4733 8.1410 4.5807 3.1960 2.9119

703.5 693.0000 130.9158 0.0505 148.4679 17.7114
2.5064 66.1277 95.8992 181.7421 287.8417 280.5545 -
263.4585 15.1223 10.4276 5.5023 3.4741 3.5644
703.0 688.0000 136.8633 0.0522 156.9667 18.7500
2.8708 67.4687 98.3022 148.3922 235.0325 221.4480 -
250.3661 14.8217 10.1727 6.7389 4.2547 4.5157
702.5 691.0000 133.7330 0.0509 153.1203 18.3880
2.7685 61.8678 85.5653 126.9711 207.6447 180.1235 -
259.7673 16.1635 11.6870 7.8758 4.8159 5.5517
702.0 688.0000 135.9580 0.0512 155.5229 18.9023
2.7939 59.2499 77.7841 106.3534 172.2747 152.4819 -
254.1461 16.8777 12.8561 9.4026 5.8047 6.5582
701.5 684.0000 131.1438 0.0486 148.8232 18.5709
2.5246 54.1847 83.2821 102.6311 152.1318 147.7569 -
232.8260 18.4554 12.0074 9.7436 6.5732 6.7679
701.0 691.0000 133.4604 0.0493 151.8801 18.9858
2.6303 55.7508 83.1397 99.3849 144.6038 147.0841 -
216.0779 17.9370 12.0279 10.0619 6.9154 6.7988
700.5 691.0000 134.7621 0.0494 152.7902 19.3203
2.5744 57.6959 83.7270 103.1990 147.2972 158.2828 -
199.5071 17.3323 11.9436 9.6900 6.7890 6.3178
700.0 677.0000 132.1244 0.0485 148.9573 18.9485
2.4037 59.1657 88.4511 108.9439 147.1789 156.3188 -
239.1506 16.9017 11.3057 9.1790 6.7945 6.3972
699.5 692.0000 124.5477 0.0450 134.3236 18.1758
1.3960 56.9436 96.4270 125.3505 172.1821 178.4714 -
234.4363 17.5612 10.3705 7.9776 5.8078 5.6031
699.0 691.0000 123.9859 0.0452 134.2168 17.8789
1.4610 69.0108 109.8668 159.6183 219.6576 231.6281 -
243.9864 14.4905 9.1019 6.2649 4.5525 4.3173
698.5 681.0000 124.5102 0.0461 134.7228 17.6871
1.4584 95.3938 149.9157 190.7624 257.5142 256.7345 -
249.3345 10.4829 6.6704 5.2421 3.8833 3.8951
698.0 670.0000 125.4265 0.0468 136.4070 17.6222
1.5680 82.4104 145.7673 267.5791 288.3044 272.6903 -
255.1776 12.1344 6.8602 3.7372 3.4686 3.6672
697.5 681.0000 126.6943 0.0474 137.2383 17.7562
1.5057 75.7136 123.7145 194.3894 258.2681 247.7941 -
264.8150 13.2077 8.0831 5.1443 3.8719 4.0356
697.0 682.0000 124.3723 0.0466 133.4986 17.4007
1.3032 69.0585 101.0898 163.1228 235.8708 248.7899 -
276.8500 14.4805 9.8922 6.1304 4.2396 4.0195
696.5 676.0000 126.5023 0.0475 136.3521 17.6500
1.4065 62.3879 86.1754 153.7336 194.8500 239.8945 -
239.3457 16.0288 11.6042 6.5048 5.1322 4.1685
696.0 674.0000 127.5734 0.0478 138.5034 17.8504
1.5608 59.9403 80.5025 126.4939 188.0626 212.6345 -
209.3682 16.6833 12.4220 7.9055 5.3174 4.7029
695.5 685.0000 127.6276 0.0475 138.1575 18.0135
1.5037 61.8173 77.3193 117.9950 187.9015 205.7282 -
208.7782 16.1767 12.9334 8.4749 5.3219 4.8608
695.0 696.0000 131.3114 0.0483 143.6619 18.7876
1.7637 60.5736 81.4680 121.3964 192.4076 229.4950 -
225.2929 16.5088 12.2748 8.2375 5.1973 4.3574
694.5 686.0000 133.6926 0.0488 147.0826 19.2741
1.9121 62.0522 91.1018 133.4236 211.9433 270.3810 -
208.1176 16.1155 10.9767 7.4949 4.7182 3.6985

694.0	684.0000	134.6950	0.0490	148.3059	19.5026	1.9436	61.9389	99.2535	141.3252	224.9540	303.8027	-193.0145	16.1450	10.0752	7.0759	4.4454	3.2916
693.5	682.0000	134.1842	0.0488	147.3372	19.4156	1.8782	62.1553	102.4040	145.8920	229.5927	326.6745	-200.7693	16.0887	9.7652	6.8544	4.3555	3.0612
693.0	680.0000	131.1183	0.0477	143.3891	18.9833	1.7523	63.7133	100.8282	143.4582	226.1395	315.8242	-222.2910	15.6953	9.9179	6.9707	4.4220	3.1663
692.5	684.0000	128.8011	0.0468	140.4901	18.6785	1.6692	63.1868	102.3418	139.5132	222.5252	299.3554	-201.7856	15.8261	9.7712	7.1678	4.4939	3.3405
692.0	685.0000	130.3464	0.0473	142.9380	18.9038	1.7981	63.5499	104.9372	141.5101	227.2675	283.3659	-149.5810	15.7357	9.5295	7.0666	4.4001	3.5290
691.5	688.0000	128.7660	0.0467	140.5602	18.6898	1.6842	63.3932	106.5555	146.6283	240.5985	279.1650	-157.9392	15.7746	9.3848	6.8200	4.1563	3.5821
691.0	691.0000	125.8820	0.0457	136.6516	18.2716	1.5379	62.4610	111.0318	144.1768	248.1939	299.5841	-109.2805	16.0100	9.0064	6.9359	4.0291	3.3380
690.5	686.0000	115.5312	0.0437	125.8061	15.9993	1.4673	63.0020	112.3360	150.3409	273.3766	332.6252	-127.1212	15.8725	8.9019	6.6516	3.6580	3.0064
690.0	686.0000	116.6204	0.0443	126.9788	16.0495	1.4792	65.5130	108.9533	155.3490	303.1657	407.7607	-168.8781	15.2641	9.1782	6.4371	3.2985	2.4524
689.5	689.0000	118.3821	0.0453	129.9320	16.1817	1.6493	73.3517	115.0001	171.7242	346.5852	497.2690	-185.0618	13.6330	8.6956	5.8233	2.8853	2.0110
689.0	680.0000	118.5378	0.0454	130.1251	16.1669	1.6547	75.3912	118.6825	199.1276	334.2918	500.9286	-230.8254	13.2642	8.4258	5.0219	2.9914	1.9963
688.5	684.0000	118.4220	0.0454	129.7229	16.1373	1.6138	95.1536	124.0721	219.4540	306.2527	391.1472	-261.1664	10.5093	8.0598	4.5568	3.2653	2.5566
688.0	676.0000	116.3458	0.0445	126.3234	15.8879	1.4248	88.9670	99.7348	186.8591	189.3757	249.5996	-209.2153	11.2401	10.0266	5.3516	5.2805	4.0064
687.5	681.0000	115.2746	0.0441	124.7623	15.7555	1.3548	89.2449	79.4215	115.7943	139.8874	124.1960	-210.2087	11.2051	12.5910	8.6360	7.1486	8.0518
687.0	684.0000	113.3755	0.0432	121.7205	15.5671	1.1917	56.6870	49.2011	64.4858	73.4302	66.3166	-207.4496	17.6407	20.3247	15.5073	13.6184	15.0792
686.5	678.0000	112.4949	0.0428	120.4394	15.4788	1.1345	53.8841	36.1301	42.9332	46.7405	41.6031	-191.1638	18.5583	27.6778	23.2920	21.3947	24.0366
686.0	681.0000	111.0528	0.0419	118.7113	15.4069	1.0936	39.0592	29.3754	31.0565	32.4336	29.6798	-187.3193	25.6022	34.0421	32.1993	30.8322	33.6929
685.5	691.0000	115.2541	0.0430	125.1062	16.2103	1.4069	25.4387	22.0095	22.3499	23.3827	19.7141	-199.8611	39.3102	45.4350	44.7430	42.7666	50.7251
685.0	681.0000	111.0708	0.0407	119.2200	15.9457	1.1637	19.4473	17.9961	17.1586	16.8322	15.4049	-189.6289	51.4211	55.5676	58.2797	59.4098	64.9146

684.5 688.0000 110.0663 0.0403 117.3250 15.8148
1.0365 15.2191 14.5780 13.6411 13.1756 12.1829 -
201.2313 65.7070 68.5966 73.3081 75.8980 82.0821
684.0 685.0000 111.3223 0.0406 119.5319 16.0642
1.1723 13.3107 12.9531 11.8199 11.3274 10.7273 -
216.9476 75.1274 77.2018 84.6034 88.2816 93.2204
683.5 681.0000 111.5630 0.0406 120.0167 16.1357
1.2072 13.6246 13.1955 12.2203 11.5242 11.0469 -
231.4653 73.3966 75.7833 81.8311 86.7741 90.5230
683.0 685.0000 111.7674 0.0406 120.7359 16.2007
1.2807 17.5984 16.4909 15.4400 14.4031 13.7217 -
242.3264 56.8235 60.6394 64.7668 69.4295 72.8774
682.5 684.0000 118.6479 0.0417 132.3405 17.8148
1.9553 25.4267 24.0372 22.8664 20.2637 18.6800 -
215.3870 39.3287 41.6023 43.7322 49.3492 53.5331
682.0 686.0000 130.3275 0.0433 147.7775 20.6511
2.4919 36.6124 38.3238 34.4749 31.3607 29.9276 -
198.3008 27.3131 26.0935 29.0066 31.8871 33.4140
681.5 681.0000 135.4086 0.0446 154.5429 21.5881
2.7324 60.6516 52.6823 45.4924 42.2597 40.6305 -
190.1333 16.4876 18.9817 21.9817 23.6632 24.6120
681.0 688.0000 138.6075 0.0457 158.8476 22.0849
2.8903 100.8816 74.1254 66.3566 62.6105 61.9788 -
188.4719 9.9126 13.4907 15.0701 15.9718 16.1345
680.5 685.0000 138.0404 0.0454 157.3316 22.0466
2.7548 105.0611 95.3599 92.9788 115.6117 119.4518 -
218.0644 9.5183 10.4866 10.7551 8.6496 8.3716
680.0 682.0000 138.7246 0.0456 157.8418 22.1905
2.7299 141.7873 117.8957 110.3719 118.0584 174.5014 -
186.6774 7.0528 8.4821 9.0603 8.4704 5.7306
679.5 671.0000 138.2148 0.0449 157.1110 22.3387
2.6984 156.7664 147.4037 170.8210 134.6570 431.6124 -
146.6401 6.3789 6.7841 5.8541 7.4263 2.3169
679.0 676.0000 137.7102 0.0443 155.8984 22.4148
2.5973 153.4960 325.0323 214.1653 334.0460 316.4437 -
162.4924 6.5148 3.0766 4.6693 2.9936 3.1601
678.5 689.0000 139.5189 0.0448 158.3244 22.7632
2.6854 141.6932 163.1141 156.0971 213.4127 270.8921 -
192.6611 7.0575 6.1307 6.4063 4.6858 3.6915
678.0 681.0000 137.8163 0.0440 155.3330 22.6013
2.5014 135.4697 149.9767 129.2945 195.6258 211.5377 -
193.6077 7.3817 6.6677 7.7343 5.1118 4.7273
677.5 681.0000 138.1497 0.0440 155.8824 22.6837
2.5322 105.6996 113.2317 97.2590 146.2740 152.1942 -
194.6373 9.4608 8.8314 10.2818 6.8365 6.5706
677.0 679.0000 137.5386 0.0437 154.9077 22.6258
2.4803 114.7534 114.8365 85.1502 125.0977 109.9534 -
215.0712 8.7143 8.7080 11.7440 7.9938 9.0948
676.5 674.0000 138.3427 0.0442 156.1640 22.6843
2.5449 115.0985 142.0378 79.9900 116.0639 94.8001 -
225.3582 8.6882 7.0404 12.5016 8.6159 10.5485
676.0 686.0000 131.0008 0.0448 142.5483 20.1941
1.6490 111.3446 137.0282 83.8888 98.7893 88.8809 -
241.5043 8.9811 7.2978 11.9205 10.1226 11.2510
675.5 673.0000 127.7293 0.0441 136.7248 19.4963
1.2846 108.6226 140.0285 77.1545 91.8591 73.7815 -
241.8788 9.2062 7.1414 12.9610 10.8862 13.5535

675.0 673.0000 88.9169 0.0325 93.8270 12.8037
0.7012 100.3183 124.5780 80.9114 72.8867 72.2097 -
251.7419 9.9683 8.0271 12.3592 13.7199 13.8486
674.5 673.0000 73.6502 0.0232 74.2897 12.2055
0.0913 101.2945 100.1158 69.8584 78.5684 66.2940 -
251.4798 9.8722 9.9884 14.3147 12.7278 15.0843
674.0 663.0000 61.8125 0.0217 62.7121 9.2656
0.1285 90.2040 79.7635 75.7512 75.4242 61.8700 -
247.1220 11.0860 12.5371 13.2011 13.2583 16.1629
673.5 668.0000 63.0802 0.0221 65.4872 9.5019
0.3437 91.6742 58.7779 74.6101 67.8440 46.2555 -
242.8335 10.9082 17.0132 13.4030 14.7397 21.6191
673.0 670.0000 62.7356 0.0217 64.3747 9.5588
0.2341 59.8427 50.5229 60.0696 44.4916 37.0449 -
236.5055 16.7105 19.7930 16.6474 22.4761 26.9942
672.5 674.0000 62.1977 0.0216 62.7204 9.4507
0.0746 91.1651 59.4211 80.4421 67.4541 67.5255 -
238.3596 10.9691 16.8290 12.4313 14.8249 14.8092
672.0 687.0000 63.0603 0.0220 64.0650 9.5386
0.1435 123.6836 89.8187 108.2538 93.1566 86.3194 -
240.4817 8.0851 11.1335 9.2375 10.7346 11.5849
671.5 679.0000 62.9029 0.0220 63.4261 9.5037
0.0747 142.9170 85.6678 109.0216 82.3875 109.1324 -
241.8392 6.9971 11.6730 9.1725 12.1378 9.1632
671.0 686.0000 64.0464 0.0224 64.9507 9.6561
0.1291 127.8886 73.5147 101.2851 108.0912 126.4528 -
235.0014 7.8193 13.6027 9.8731 9.2514 7.9081
670.5 677.0000 62.7975 0.0218 63.6703 9.5284
0.1246 116.2825 77.3834 109.9648 119.3783 156.7560 -
247.0929 8.5997 12.9227 9.0938 8.3767 6.3793
670.0 675.0000 63.0189 0.0222 63.5900 9.4377
0.0816 99.5436 80.4970 106.9485 137.3505 197.1646 -
246.9681 10.0459 12.4228 9.3503 7.2806 5.0719
669.5 670.0000 62.6930 0.0221 63.5025 9.3911
0.1156 82.0333 81.8056 110.3407 157.8159 279.8782 -
273.4688 12.1902 12.2241 9.0628 6.3365 3.5730
669.0 667.0000 62.4621 0.0220 63.2387 9.3494
0.1109 75.9040 82.2013 114.4098 177.4397 423.4476 -
276.6578 13.1745 12.1653 8.7405 5.6357 2.3616
668.5 682.0000 62.3272 0.0219 63.4045 9.3679
0.1538 65.7284 80.8636 118.7674 193.5125 629.5981 -
214.5665 15.2141 12.3665 8.4198 5.1676 1.5883
668.0 673.0000 60.1092 0.0213 60.8961 8.9406
0.1124 66.0887 80.5504 120.5686 209.1083 830.2972 -
176.1592 15.1312 12.4146 8.2940 4.7822 1.2044
667.5 676.0000 60.7873 0.0216 62.6460 9.0269
0.2654 65.8426 78.4220 126.1733 219.6040 858.4969 -
184.5701 15.1877 12.7515 7.9256 4.5537 1.1648
667.0 687.0000 56.1168 0.0196 57.4717 8.4682
0.1935 67.8358 74.6027 131.5502 233.4360 714.2949 -
202.3466 14.7415 13.4043 7.6017 4.2838 1.4000
666.5 687.0000 57.2673 0.0201 59.0073 8.6008
0.2485 69.9135 79.9355 135.6547 243.9932 535.8923 -
210.2669 14.3034 12.5101 7.3717 4.0985 1.8660
666.0 685.0000 56.8662 0.0202 58.6420 8.4231
0.2536 64.5329 73.4435 129.6526 239.6625 399.8499 -
222.1012 15.4960 13.6159 7.7129 4.1725 2.5009

665.5	684.0000	59.1985	0.0212	61.7977	8.7137	0.3712	61.7557	70.5196	127.0152	218.4980	303.7625	-204.3014	16.1928
14.1804	7.8731	4.5767	3.2920										
665.0	685.0000	59.2430	0.0211	62.2755	8.7470	0.4330	63.0648	66.0696	121.4391	199.9505	240.1021	-194.6980	15.8567
15.1355	8.2346	5.0012	4.1649										
664.5	677.0000	59.2895	0.0213	63.0176	8.7150	0.5324	62.4157	70.1886	131.6469	202.8025	226.3436	-226.7925	16.0216
14.2473	7.5961	4.9309	4.4181										
664.0	671.0000	58.4562	0.0207	62.3218	8.6901	0.5520	64.2237	72.2838	134.3039	184.8477	201.5368	-177.5059	15.5706
13.8344	7.4458	5.4099	4.9619										
663.5	666.0000	56.1804	0.0195	59.7593	8.5204	0.5111	65.0875	74.2977	139.3733	173.4877	184.3176	-228.6101	15.3639
13.4594	7.1750	5.7641	5.4254										
663.0	667.0000	57.4656	0.0197	62.1016	8.8350	0.6620	65.5716	75.4160	136.3887	164.1356	168.4839	-207.0228	15.2505
13.2598	7.3320	6.0925	5.9353										
662.5	676.0000	57.7962	0.0196	63.3504	8.9711	0.7931	67.4122	77.8105	133.8177	152.3295	151.1554	-206.6191	14.8341
12.8517	7.4729	6.5647	6.6157										
662.0	670.0000	56.5458	0.0190	61.9700	8.8519	0.7746	67.7766	72.4604	116.0166	131.5350	130.1191	-212.8796	14.7543
13.8007	8.6195	7.6025	7.6853										
661.5	671.0000	56.5547	0.0193	62.1887	8.7455	0.8045	68.5240	75.9896	108.1165	125.2368	120.1348	-219.2924	14.5934
13.1597	9.2493	7.9849	8.3240										
661.0	674.0000	54.9297	0.0186	60.2351	8.5352	0.7576	71.0462	93.8192	124.1703	153.4128	145.0419	-248.0524	14.0753
10.6588	8.0535	6.5184	6.8946										
660.5	669.0000	55.2396	0.0187	61.1051	8.6005	0.8376	72.9878	120.7875	150.3284	181.5076	164.7879	-264.0052	13.7009
8.2790	6.6521	5.5094	6.0684										
660.0	663.0000	53.4534	0.0181	58.3642	8.3036	0.7013	74.9367	110.8004	131.2633	190.2616	165.7347	-250.1628	13.3446
9.0252	7.6183	5.2559	6.0337										
659.5	670.0000	54.1975	0.0188	59.7057	8.2594	0.7866	70.9752	97.7054	112.4757	162.1598	135.5385	-246.4834	14.0894
10.2349	8.8908	6.1668	7.3780										
659.0	667.0000	52.7941	0.0183	58.0336	8.0502	0.7482	75.9214	101.9414	112.2112	165.6629	123.8277	-241.6076	13.1715
9.8096	8.9118	6.0364	8.0757										
658.5	679.0000	54.3948	0.0188	60.2978	8.2852	0.8429	88.5100	103.2283	143.6779	174.2507	155.5694	-245.3186	11.2982
9.6873	6.9600	5.7389	6.4280										
658.0	675.0000	54.7590	0.0193	61.0996	8.1720	0.9054	88.4759	82.8880	107.2459	121.8586	99.9504	-251.3443	11.3025
12.0645	9.3244	8.2062	10.0050										
657.5	675.0000	56.5760	0.0204	62.9670	8.2727	0.9126	78.3373	62.5851	83.6184	82.9335	70.1732	-256.4446	12.7653
15.9783	11.9591	12.0579	14.2504										
657.0	680.0000	57.5158	0.0209	63.7086	8.3229	0.8843	77.0756	56.5675	77.2440	72.8390	60.0521	-265.8876	12.9743
17.6780	12.9460	13.7289	16.6522										
656.5	670.0000	58.3812	0.0215	64.7132	8.3279	0.9042	80.3735	65.8545	90.3135	83.2833	70.4382	-276.2729	12.4419
15.1850	11.0725	12.0072	14.1968										

656.0 674.0000 56.5543 0.0212 61.7970 7.9295
0.7487 79.5266 82.9578 109.9831 99.3468 89.6570 -
273.4764 12.5744 12.0543 9.0923 10.0658 11.1536
655.5 673.0000 57.0095 0.0215 62.3309 7.9167
0.7599 82.3061 96.3557 134.1698 106.5009 97.8890 -
253.7789 12.1498 10.3782 7.4532 9.3896 10.2157
655.0 674.0000 56.7389 0.0215 62.0581 7.8402
0.7596 88.2831 102.9258 143.1566 139.8377 132.7091 -
259.2939 11.3272 9.7157 6.9854 7.1511 7.5353
654.5 677.0000 56.8016 0.0216 62.0886 7.7973
0.7550 79.9533 99.1380 128.7240 145.6272 141.2692 -
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654.0 676.0000 57.7609 0.0221 63.5604 7.9026
0.8282 74.0265 92.4105 125.1463 156.9825 158.5141 -
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0.8304 74.0807 83.9204 122.2791 175.2210 185.4796 -
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0.6867 80.9282 84.0941 134.9991 208.2390 214.8152 -
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0.6741 96.0687 93.5572 152.8589 261.6726 268.4427 -
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0.5630 138.4462 104.0969 159.0815 282.5112 290.6575 -
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0.4745 133.3944 108.7730 185.4374 282.9563 282.0746 -
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-0.0292 62.9412 81.5351 154.3982 316.0060 723.5096 -
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0.1340 64.8587 81.7273 154.6286 269.1570 454.4690 -
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0.1620 64.5742 76.8400 148.3579 245.1772 357.7312 -
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630.5 668.0000 63.0420 0.0234 65.3310 8.9098
0.3269 65.3988 65.4198 121.5036 190.6087 257.8919 -
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0.2181 68.5105 58.7034 106.3657 152.8121 182.2281 -
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0.3111 68.6023 58.5039 98.6214 136.7293 143.2467 -
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0.3716 69.3624 59.4922 91.1903 115.9440 106.9837 -
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0.4663 67.5390 80.7235 82.2647 100.4395 95.0804 -
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627.0 676.0000 58.9058 0.0223 61.7765 8.1541
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0.3782 137.7726 154.7133 158.4540 231.3375 213.0203 -
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0.4196 117.3521 146.6434 127.4982 160.2045 158.7691 -
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0.6428 48.8209 74.6100 63.7874 69.4776 68.5335 -
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0.5302 100.2280 94.9597 96.9267 103.3935 117.1079 -
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624.0 658.0000 61.6901 0.0238 67.6534 8.3269
0.8516 176.8976 164.3963 148.7924 166.5124 171.7701 -
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0.8054 602.5008 147.9007 182.8851 200.3120 202.9874 -
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0.8201 178.9017 94.2185 194.6602 197.0297 168.4279 -
264.4029 5.5897 10.6136 5.1372 5.0754 5.9373
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0.8736 420.6442 154.6536 307.2996 306.9853 243.8737 -
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0.8379 1224.4407 230.5873 494.0940 505.8805 486.1925 -
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0.9032 709.1087 163.4955 277.6476 273.1790 203.6900 -
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0.4364 140.2000 101.5648 183.0267 342.1524 1118.8169 -
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0.6604 126.4216 95.3526 159.2382 336.3502 1161.1906 -
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359.4175 8.5678 10.1793 6.7267 2.8996 0.8972
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0.4817 84.2693 92.4542 153.2451 396.0103 1268.8967 -
364.5024 11.8667 10.8162 6.5255 2.5252 0.7881
614.5 660.0000 60.0497 0.0242 64.5978 7.6727
0.6495 88.4177 92.5385 163.6727 477.8651 1384.7709 -
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372.3494 10.3115 10.5596 5.2678 1.7788 0.6750
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0.7296 90.1057 100.4145 224.1439 617.6924 1450.7498 -
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0.8014 75.5464 90.3135 219.6170 678.7922 1264.2208 -
353.4101 13.2369 11.0725 4.5534 1.4732 0.7910
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0.6770 73.0825 83.6863 206.1041 635.2554 989.6611 -
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0.8766 66.2143 78.8271 196.0173 570.9280 793.3896 -
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0.7255 58.9615 73.0686 158.4963 446.7941 541.0383 -
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0.7610 64.3522 90.2294 187.8707 434.4149 731.7802 -
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0.6054 60.7729 86.3530 181.7811 423.4255 733.3583 -
201.9463 16.4547 11.5804 5.5011 2.3617 1.3636

608.5	666.0000	56.6491	0.0213	58.5686	7.9013	0.2741	60.4400	82.6206	173.6468	411.4185	675.3183	-198.0820	16.5453
12.1035	5.7588	2.4306	1.4808										
608.0	665.0000	60.7718	0.0228	63.6385	8.4722	0.4094	58.8059	76.1778	160.0105	396.2391	580.2612	-200.2815	17.0051
13.1272	6.2496	2.5237	1.7234										
607.5	656.0000	59.5688	0.0223	61.8898	8.3484	0.3314	59.2170	79.0099	163.1952	430.9171	554.4383	-220.5131	16.8870
12.6566	6.1276	2.3206	1.8036										
607.0	653.0000	60.6551	0.0224	63.6618	8.6471	0.4293	57.6385	83.3998	168.4031	495.9552	598.4930	-241.6634	17.3495
11.9904	5.9381	2.0163	1.6709										
606.5	653.0000	59.4721	0.0219	62.5946	8.4875	0.4459	58.1822	88.0329	181.6222	604.3784	755.3301	-249.8698	17.1874
11.3594	5.5059	1.6546	1.3239										
606.0	660.0000	60.9903	0.0225	65.2140	8.6853	0.6031	57.8434	98.2681	187.3136	718.5283	924.8373	-238.8731	17.2881
10.1762	5.3386	1.3917	1.0813										
605.5	663.0000	59.7261	0.0219	63.9205	8.5688	0.5990	59.0032	105.1364	189.3193	933.4090	1169.6190	-205.4640	16.9482
9.5115	5.2821	1.0713	0.8550										
605.0	653.0000	58.3329	0.0213	62.3233	8.3867	0.5698	63.5814	125.9831	220.4253	1173.4253	1473.0919	-181.8314	15.7279
7.9376	4.5367	0.8522	0.6788										
604.5	657.0000	56.8619	0.0210	60.6874	8.1072	0.5463	70.7594	188.8953	346.4472	1354.6942	1582.9103	-180.3482	14.1324
5.2939	2.8864	0.7382	0.6317										
604.0	667.0000	58.0850	0.0214	63.1665	8.2793	0.7256	74.1220	181.8327	571.2095	1069.8760	1686.0371	-206.5432	13.4913
5.4996	1.7507	0.9347	0.5931										
603.5	658.0000	57.7852	0.0212	63.0953	8.2887	0.7583	71.5609	181.1938	414.5600	1197.1810	1123.6394	-229.5303	13.9741
5.5190	2.4122	0.8353	0.8900										
603.0	656.0000	62.0235	0.0236	70.0766	8.5422	1.1500	66.1548	130.6893	273.5515	866.1448	744.2886	-249.9596	15.1161
7.6517	3.6556	1.1545	1.3436										
602.5	655.0000	60.4144	0.0229	67.9187	8.3545	1.0716	59.5391	103.6673	208.4649	592.9996	518.6949	-268.2529	16.7957
9.6462	4.7970	1.6863	1.9279										
602.0	656.0000	59.2378	0.0225	66.5120	8.1727	1.0388	56.3976	85.0921	169.1238	435.9083	380.9795	-284.2909	17.7312
11.7520	5.9128	2.2941	2.6248										
601.5	652.0000	55.7288	0.0208	61.7731	7.8237	0.8631	52.7009	69.4117	133.7856	339.5946	275.4423	-298.7227	18.9750
14.4068	7.4746	2.9447	3.6305										
601.0	654.0000	56.4812	0.0210	63.4542	7.9745	0.9958	56.8612	64.5809	119.2526	254.2607	237.2753	-311.4786	17.5867
15.4844	8.3856	3.9330	4.2145										
600.5	660.0000	56.7514	0.0209	64.5489	8.1218	1.1135	60.6584	70.4962	124.8676	206.8159	224.4670	-322.8951	16.4858
14.1852	8.0085	4.8352	4.4550										
600.0	660.0000	54.6685	0.0199	61.7556	7.9098	1.0120	67.1868	80.5428	130.1549	186.9823	195.8219	-333.0295	14.8839
12.4158	7.6832	5.3481	5.1067										
599.5	652.0000	54.4156	0.0196	61.7021	7.9774	1.0405	66.3773	86.9622	123.6676	154.3007	151.8003	-339.7565	15.0654
11.4992	8.0862	6.4809	6.5876										

599.0	654.0000	53.2853	0.0188	59.7383	7.9421	0.9215	62.5702	73.7874	101.5588	120.9696	119.0769	-337.3941	15.9820
13.5525	9.8465	8.2665	8.3979										
598.5	653.0000	50.9771	0.0178	56.9318	7.6920	0.8503	55.3440	62.0801	81.4457	98.9216	88.9735	-330.1895	18.0688
16.1082	12.2781	10.1090	11.2393										
598.0	653.0000	49.9097	0.0174	55.8111	7.5554	0.8427	51.0253	60.7801	67.5530	79.2869	69.3201	-322.1354	19.5981
16.4528	14.8032	12.6124	14.4258										
597.5	649.0000	49.6064	0.0172	56.2180	7.5337	0.9441	44.2417	56.2442	61.9030	77.2795	60.3882	-315.0653	22.6031
17.7796	16.1543	12.9400	16.5595										
597.0	649.0000	50.3868	0.0176	57.9499	7.6134	1.0800	42.0681	55.1034	58.4016	70.7328	59.8899	-306.9628	23.7710
18.1477	17.1228	14.1377	16.6973										
596.5	653.0000	49.2412	0.0174	57.1584	7.3402	1.1306	40.1831	53.7520	51.5461	60.5941	53.9424	-297.3200	24.8861
18.6040	19.4001	16.5032	18.5383										
596.0	663.0000	49.8122	0.0182	58.1954	7.1534	1.1971	40.2812	63.9689	57.9241	66.9902	62.6507	-282.7917	24.8255
15.6326	17.2640	14.9276	15.9615										
595.5	649.0000	48.3987	0.0181	56.2340	6.7824	1.1189	50.9644	72.3176	64.4656	76.6512	72.9783	-274.5919	19.6215
13.8279	15.5121	13.0461	13.7027										
595.0	655.0000	48.9563	0.0184	57.1909	6.8231	1.1759	53.8163	80.0125	73.4384	93.7181	93.1578	-270.1977	18.5817
12.4980	13.6169	10.6703	10.7345										
594.5	658.0000	50.1979	0.0188	59.3741	7.0175	1.3104	61.6725	91.1202	85.7248	107.1916	125.4235	-247.2711	16.2147
10.9745	11.6652	9.3291	7.9730										
594.0	649.0000	53.2668	0.0194	64.4367	7.6941	1.5951	74.7978	109.4578	109.5435	140.2130	158.1088	-207.0493	13.3694
9.1359	9.1288	7.1320	6.3248										
593.5	646.0000	52.1000	0.0189	62.6725	7.5772	1.5098	66.8664	100.9183	117.7795	168.2062	203.0625	-203.9497	14.9552
9.9090	8.4904	5.9451	4.9246										
593.0	649.0000	55.4914	0.0204	66.8791	7.9343	1.6262	66.0919	90.3430	127.0865	192.3654	250.4468	-216.5631	15.1304
11.0689	7.8687	5.1984	3.9929										
592.5	641.0000	55.6435	0.0204	67.0758	7.9808	1.6325	65.0162	87.1589	128.7298	206.7740	277.9742	-200.7002	15.3808
11.4733	7.7682	4.8362	3.5975										
592.0	648.0000	54.1509	0.0200	64.4688	7.7233	1.4734	64.1162	82.9798	126.8287	209.5113	285.6470	-198.2504	15.5967
12.0511	7.8847	4.7730	3.5008										
591.5	646.0000	54.6441	0.0203	64.6947	7.7071	1.4352	61.2080	76.2510	124.4342	202.4152	297.3164	-213.3694	16.3377
13.1146	8.0364	4.9403	3.3634										
591.0	647.0000	54.4532	0.0228	56.9050	6.5713	0.3501	60.7644	77.3934	128.3391	203.2555	332.1602	-188.3687	16.4570
12.9210	7.7919	4.9199	3.0106										
590.5	658.0000	54.3948	0.0229	56.2574	6.5205	0.2660	58.8876	80.7600	136.7413	242.3422	417.8840	-162.3022	16.9815
12.3824	7.3131	4.1264	2.3930										
590.0	649.0000	54.5856	0.0230	55.8035	6.5442	0.1739	56.2113	85.0567	144.8056	276.9617	512.2991	-205.3939	17.7900
11.7569	6.9058	3.6106	1.9520										

589.5	655.0000	60.8283	0.0248	63.2559	7.6474	0.3467	56.0330	82.6293	146.2104	319.3761	610.2864
-155.6012	17.8466	12.1022	6.8395	3.1311	1.6386						
589.0	654.0000	58.6683	0.0242	58.6163	7.2732	-0.0074	54.6723	81.0228	146.2845	366.4611	704.4573
-157.5825	18.2908	12.3422	6.8360	2.7288	1.4195						
588.5	646.0000	59.3480	0.0243	59.9954	7.4228	0.0924	55.4557	86.4167	153.3570	449.1011	836.8258
-185.3768	18.0324	11.5718	6.5207	2.2267	1.1950						
588.0	647.0000	58.5819	0.0241	58.5453	7.2659	-0.0052	57.1553	91.7708	165.0649	479.0038	911.8100
-211.5903	17.4962	10.8967	6.0582	2.0877	1.0967						
587.5	642.0000	57.7308	0.0236	57.6667	7.2151	-0.0091	55.4860	89.8358	158.1097	455.1026	857.8028
-234.1873	18.0226	11.1314	6.3247	2.1973	1.1658						
587.0	642.0000	57.0146	0.0232	57.3029	7.2039	0.0412	57.1255	86.8234	151.5745	390.3707	715.5581
-254.0520	17.5053	11.5176	6.5974	2.5617	1.3975						
586.5	646.0000	57.5986	0.0234	59.1239	7.2889	0.2178	56.5566	84.0753	142.7603	334.3367	551.1236
-271.8024	17.6814	11.8941	7.0047	2.9910	1.8145						
586.0	646.0000	52.3059	0.0214	53.3057	6.5303	0.1428	58.6067	85.7221	141.8448	290.1888	440.4429
-287.6506	17.0629	11.6656	7.0500	3.4460	2.2704						
585.5	643.0000	51.5530	0.0215	52.1841	6.2822	0.0901	60.0151	84.8728	137.2158	266.5028	357.4245
-301.5515	16.6625	11.7823	7.2878	3.7523	2.7978						
585.0	651.0000	53.9617	0.0227	58.7523	6.4800	0.6841	58.8488	78.5792	122.7072	233.7810	292.8250
-313.7239	16.9927	12.7260	8.1495	4.2775	3.4150						
584.5	641.0000	53.0776	0.0223	57.4403	6.3734	0.6230	53.3897	66.6774	103.3690	196.4214	238.4438
-324.6857	18.7302	14.9976	9.6741	5.0911	4.1939						
584.0	642.0000	55.9073	0.0234	62.0174	6.7703	0.8725	53.3249	62.5278	98.9663	195.5227	248.7756
-332.1963	18.7530	15.9929	10.1045	5.1145	4.0197						
583.5	647.0000	53.9429	0.0227	59.1439	6.4609	0.7427	69.3100	79.4173	135.6214	288.3569	371.5362
-334.0765	14.4279	12.5917	7.3735	3.4679	2.6915						
583.0	642.0000	53.4339	0.0227	58.5273	6.3072	0.7273	92.4582	108.7703	212.2876	418.1257	504.7245
-335.3436	10.8157	9.1937	4.7106	2.3916	1.9813						
582.5	639.0000	53.9774	0.0228	59.4131	6.4402	0.7762	102.6905	118.5289	244.7210	517.2517	647.3627
-334.2166	9.7380	8.4368	4.0863	1.9333	1.5447						
582.0	646.0000	51.9960	0.0220	56.5457	6.1944	0.6497	93.1336	94.6944	225.6346	589.5912	731.6376
-336.1757	10.7373	10.5603	4.4319	1.6961	1.3668						
581.5	648.0000	53.3037	0.0225	58.6546	6.3620	0.7641	81.6986	96.3010	201.2323	527.3068	665.5921
-339.0344	12.2401	10.3841	4.9694	1.8964	1.5024						
581.0	648.0000	55.2674	0.0233	61.3494	6.5982	0.8685	77.8539	93.3461	197.9491	465.2444	562.7032
-344.5547	12.8446	10.7128	5.0518	2.1494	1.7771						
580.5	648.0000	52.1136	0.0223	56.3552	6.1142	0.6057	72.6676	93.3726	178.0619	368.5414	454.6469
-350.2158	13.7613	10.7098	5.6160	2.7134	2.1995						

580.0	652.0000	54.7197	0.0232	60.4121	6.4988	0.8129	71.4128	90.8162	162.3923	331.1715	435.6837
-355.2384	14.0031	11.0113	6.1579	3.0196	2.2952						
579.5	646.0000	55.2795	0.0232	61.6974	6.6500	0.9165	70.6526	89.4720	163.9648	359.1237	512.7648
-359.6844	14.1538	11.1767	6.0989	2.7846	1.9502						
579.0	641.0000	55.5579	0.0235	62.2033	6.6271	0.9490	68.9529	84.8358	154.1114	322.2502	462.2591
-364.0235	14.5027	11.7875	6.4888	3.1032	2.1633						
578.5	637.0000	54.3120	0.0229	60.6201	6.5004	0.9008	65.9035	86.3489	149.9965	317.8820	480.7680
-368.2410	15.1737	11.5809	6.6668	3.1458	2.0800						
578.0	638.0000	53.9984	0.0228	60.2043	6.4664	0.8862	67.1695	81.0057	152.1199	358.6643	555.4773
-371.8776	14.8877	12.3448	6.5738	2.7881	1.8003						
577.5	646.0000	55.2041	0.0235	62.3932	6.5240	1.0266	67.5029	78.2248	151.8265	394.9865	615.1558
-375.3410	14.8142	12.7837	6.5865	2.5317	1.6256						
577.0	638.0000	54.4126	0.0233	61.3249	6.3632	0.9871	67.2225	76.4213	160.2808	434.4548	615.4198
-378.4859	14.8760	13.0854	6.2391	2.3017	1.6249						
576.5	646.0000	51.4866	0.0222	57.0012	5.9348	0.7875	67.0875	83.2808	173.3408	449.5349	613.0363
-381.4172	14.9059	12.0076	5.7690	2.2245	1.6312						
576.0	642.0000	53.4046	0.0227	60.2699	6.2938	0.9804	63.7505	86.2797	187.6757	442.9457	580.7639
-384.0359	15.6862	11.5902	5.3283	2.2576	1.7219						
575.5	643.0000	52.9252	0.0224	59.6570	6.3120	0.9613	64.6071	103.5105	201.1214	425.1428	539.9814
-386.0557	15.4782	9.6609	4.9721	2.3522	1.8519						
575.0	631.0000	51.5451	0.0217	57.5785	6.1819	0.8616	63.6615	98.6925	193.9444	380.8944	479.6611
-378.2228	15.7081	10.1325	5.1561	2.6254	2.0848						
574.5	635.0000	50.1470	0.0209	55.6987	6.1000	0.7928	60.6996	94.7269	182.9631	377.9800	480.6256
-328.5012	16.4746	10.5567	5.4656	2.6456	2.0806						
574.0	642.0000	51.3035	0.0214	57.6565	6.2517	0.9072	57.3779	92.6151	165.3834	347.0729	439.4809
-262.4877	17.4283	10.7974	6.0466	2.8812	2.2754						
573.5	632.0000	50.5155	0.0209	56.4109	6.1991	0.8419	59.9025	89.5502	158.7387	372.2753	469.8166
-265.1015	16.6938	11.1669	6.2997	2.6862	2.1285						
573.0	639.0000	54.4323	0.0232	62.5712	6.4087	1.1622	60.5506	98.9952	182.0309	465.6108	634.9938
-268.5656	16.5151	10.1015	5.4936	2.1477	1.5748						
572.5	639.0000	50.5795	0.0219	55.3987	5.8095	0.6882	60.0364	103.6180	189.4579	554.1729	822.3975
-251.3030	16.6566	9.6508	5.2782	1.8045	1.2160						
572.0	642.0000	55.0871	0.0236	60.5827	6.4288	0.7848	64.4799	113.0196	209.2424	666.6033	1106.3776
-253.5870	15.5087	8.8480	4.7791	1.5001	0.9039						
571.5	644.0000	53.8601	0.0232	58.8453	6.2434	0.7119	63.9772	111.2379	208.5808	717.1635	1394.7467
-257.6353	15.6306	8.9897	4.7943	1.3944	0.7170						
571.0	643.0000	55.0173	0.0238	60.2793	6.3271	0.7514	63.3236	106.8305	203.7449	713.2529	1571.7218
-256.6842	15.7919	9.3606	4.9081	1.4020	0.6362						

570.5 646.0000 54.8974 0.0234 60.4552 6.4480
0.7937 62.7111 109.0349 206.8184 741.3179 1748.3768 -
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480.0	558.0000	39.5885	0.0153	45.5908	5.3257	0.8571	71.9651	100.9926	160.0037	354.3408	655.2937
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479.5	552.0000	39.4416	0.0151	45.0152	5.3612	0.7959	76.0553	101.5896	161.7551	374.3467	666.0121
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479.0	552.0000	39.6293	0.0152	44.5806	5.4128	0.7070	81.3415	106.8934	171.1154	376.5922	695.2722
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478.5	549.0000	39.4105	0.0148	43.8541	5.4921	0.6345	91.6906	112.9018	194.2210	390.7116	676.4760
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478.0	552.0000	41.1111	0.0157	45.7611	5.6373	0.6640	91.3139	102.9455	194.1485	385.1380	602.7687
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477.5	547.0000	40.5518	0.0156	44.3391	5.4861	0.5408	84.3361	86.6353	165.1032	331.0709	504.2550
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456.5	548.0000	36.8003	0.0134	43.6832	5.3227	0.9829	96.2375	144.1054	260.8051	609.9903	937.1846
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456.0	548.0000	36.3012	0.0131	43.4651	5.3005	1.0230	88.9926	133.4152	254.4624	627.7081	926.8577
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455.5	545.0000	35.9578	0.0130	43.1744	5.2542	1.0305	89.4713	128.0175	255.1583	666.6888	952.0986
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455.0	547.0000	35.3933	0.0129	41.9922	5.0900	0.9423	96.3912	138.7776	271.9857	759.1890	1085.0902
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454.5	537.0000	36.0507	0.0134	42.4286	5.1048	0.9108	98.9229	154.6812	295.5198	834.9067	1196.3833
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454.0	537.0000	37.5358	0.0141	44.3723	5.2228	0.9763	107.9260	131.5106	262.4090	844.9868	1269.0756
-272.0638	9.2656	7.6040	3.8108	1.1835	0.7880						
453.5	540.0000	37.4154	0.0142	44.1182	5.1612	0.9572	108.3862	107.0346	224.6824	799.9106	1314.5061
-263.0087	9.2263	9.3428	4.4507	1.2501	0.7607						
453.0	547.0000	37.2605	0.0146	43.7112	4.9405	0.9212	108.5743	98.1317	214.8256	709.3854	1137.1061
-263.2947	9.2103	10.1904	4.6549	1.4097	0.8794						
452.5	544.0000	37.5741	0.0148	44.5983	4.9306	1.0031	106.2160	102.9893	235.5456	808.5847	1295.4060
-242.3001	9.4148	9.7097	4.2455	1.2367	0.7720						
452.0	544.0000	36.7328	0.0146	43.0912	4.7730	0.9080	106.1459	111.5546	265.2604	815.2953	1229.8882
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451.5	542.0000	36.5762	0.0146	42.9005	4.7289	0.9031	105.9444	115.3295	278.9109	789.6974	1129.5114
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451.0	540.0000	36.5448	0.0149	42.4423	4.6030	0.8422	102.8160	105.6417	269.1328	716.9923	998.5979
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450.5	550.0000	35.7506	0.0148	41.1108	4.4057	0.7654	97.6490	93.4946	240.6940	604.3793	831.1900
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450.0	537.0000	38.0708	0.0155	44.7301	4.7828	0.9510	101.5629	89.3235	226.2011	562.7681	776.8710
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449.5	534.0000	37.8127	0.0154	44.4086	4.7747	0.9419	98.6651	95.6340	242.6513	637.1185	928.5462
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449.0	531.0000	38.1484	0.0156	44.7310	4.7687	0.9400	100.3213	101.7211	252.9750	669.7790	1056.6495
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447.5	539.0000	40.6935	0.0157	43.1514	5.5201	0.3510	95.9139	109.7254	267.3979	731.5820	1547.0931
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428.0	526.0000	53.1119	0.0203	61.8153	7.2661	1.2429	75.6924	129.4273	261.2115	1110.9043	1708.0823	-374.0613	13.2114
7.7263	3.8283	0.9002	0.5855										
427.5	523.0000	51.0126	0.0193	58.5912	7.0424	1.0822	75.3677	125.4456	258.8209	1037.4307	1642.9202	-381.2442	13.2683
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427.0	518.0000	51.0586	0.0196	58.6725	6.9643	1.0873	75.7102	126.1530	259.9151	995.5257	1684.9183	-387.3548	13.2083
7.9269	3.8474	1.0045	0.5935										
426.5	522.0000	49.6036	0.0191	56.5442	6.7015	0.9911	76.7262	125.3391	259.7771	975.5665	1724.8300	-393.0187	13.0334
7.9784	3.8495	1.0250	0.5798										
426.0	525.0000	50.2560	0.0197	57.0137	6.6581	0.9650	78.4698	126.9986	262.9943	929.7659	1800.3242	-398.0177	12.7438
7.8741	3.8024	1.0755	0.5555										
425.5	521.0000	50.1045	0.0198	56.7020	6.5612	0.9421	78.7529	127.1491	261.7031	976.2289	1853.9960	-402.8388	12.6979
7.8648	3.8211	1.0243	0.5394										
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8.1371	3.9074	1.0270	0.5331										
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8.3932	4.0708	1.0362	0.5278										
424.0	510.0000	50.5162	0.0191	57.4596	6.9805	0.9915	80.3018	119.6569	248.2972	971.3423	1866.6794	-414.2509	12.4530
8.3572	4.0274	1.0295	0.5357										
423.5	514.0000	51.3614	0.0193	58.6623	7.1770	1.0426	80.4083	125.0236	254.9441	1016.9448	1892.7849	-417.2984	12.4365
7.9985	3.9224	0.9833	0.5283										
423.0	513.0000	49.5058	0.0183	56.1336	7.0193	0.9465	81.7010	131.7147	263.5909	1064.5565	1875.7135	-420.2869	12.2398
7.5922	3.7938	0.9394	0.5331										
422.5	512.0000	49.2990	0.0179	56.4668	7.1291	1.0236	81.8992	136.1002	269.8504	1066.5811	1841.2130	-422.8627	12.2101
7.3475	3.7058	0.9376	0.5431										
422.0	511.0000	49.9738	0.0183	58.2673	7.1904	1.1843	83.3056	136.0810	261.4188	1047.8114	1752.8199	-425.1483	12.0040
7.3486	3.8253	0.9544	0.5705										
421.5	503.0000	49.7094	0.0183	58.1225	7.1076	1.2014	85.6135	134.4769	264.4345	1065.7036	1617.6862	-427.0601	11.6804
7.4362	3.7817	0.9383	0.6182										
421.0	503.0000	45.0671	0.0168	51.2571	6.3321	0.8839	83.5351	127.8431	252.1420	947.4843	1470.3856	-428.6444	11.9710
7.8221	3.9660	1.0554	0.6801										
420.5	520.0000	48.4869	0.0188	56.6766	6.5282	1.1695	82.1904	113.5304	227.2428	829.1408	1330.5199	-427.0515	12.1669
8.8082	4.4006	1.2061	0.7516										
420.0	516.0000	47.6866	0.0187	55.3647	6.3184	1.0964	77.9262	105.0665	211.7847	653.7471	1122.7476	-320.6806	12.8327
9.5178	4.7218	1.5296	0.8907										
419.5	525.0000	48.4553	0.0189	56.7815	6.4620	1.1890	79.3258	110.2294	229.9175	633.7719	1267.2472	-269.8073	12.6062
9.0720	4.3494	1.5779	0.7891										
419.0	514.0000	49.6020	0.0192	58.8605	6.6616	1.3221	81.8198	119.8607	244.4049	678.7145	1407.3036	-289.5167	12.2220
8.3430	4.0916	1.4734	0.7106										

418.5 511.0000 49.1212 0.0188 58.2817 6.7165
1.3081 83.3535 117.8627 249.9677 681.3207 1543.0361 -
289.1538 11.9971 8.4844 4.0005 1.4677 0.6481
418.0 514.0000 48.3227 0.0178 57.1853 6.9154
1.2656 86.7348 119.7870 251.2678 725.5618 1672.5232 -
305.5542 11.5294 8.3482 3.9798 1.3782 0.5979
417.5 510.0000 47.9214 0.0171 56.6638 7.0742
1.2484 86.4151 118.8880 236.6298 737.8008 1795.7523 -
323.3461 11.5721 8.4113 4.2260 1.3554 0.5569
417.0 511.0000 49.6352 0.0176 59.4789 7.3856
1.4057 85.0485 118.6988 234.8420 807.4276 1876.1338 -
277.6612 11.7580 8.4247 4.2582 1.2385 0.5330
416.5 507.0000 49.9778 0.0180 59.6581 7.2890
1.3823 84.7437 115.6131 225.6409 850.1022 1927.8816 -
274.8556 11.8003 8.6495 4.4318 1.1763 0.5187
416.0 495.0000 49.7876 0.0179 59.1715 7.2829
1.3400 83.3730 117.1825 227.5365 859.8162 1950.0000 -
283.3367 11.9943 8.5337 4.3949 1.1630 0.5109
415.5 503.0000 44.5131 0.0153 51.3633 6.8212
0.9782 84.1505 120.7913 237.8988 920.7722 1950.0000 -
291.2997 11.8835 8.2787 4.2035 1.0860 0.5106
415.0 501.0000 47.6206 0.0166 55.8955 7.1992
1.1817 85.3404 123.4644 243.7813 913.7598 1922.9537 -
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414.5 501.0000 48.4212 0.0170 56.7079 7.2532
1.1833 85.7840 123.7068 242.7493 894.4248 1843.9642 -
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414.0 506.0000 49.0023 0.0177 57.9434 7.1505
1.2768 87.6587 122.9066 237.9622 879.4764 1723.4055 -
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1.2046 87.0701 122.4442 236.9718 868.4903 1565.3602 -
294.4925 11.4850 8.1670 4.2199 1.1514 0.6388
413.0 505.0000 46.3148 0.0174 54.4357 6.4422
1.1597 85.5564 114.9576 220.1178 840.9473 1429.3342 -
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1.1783 84.3958 111.8507 208.7006 736.6031 1190.0006 -
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412.0 509.0000 48.1859 0.0184 57.4949 6.5910
1.3293 87.3685 122.1171 235.2000 749.1862 1198.3112 -
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1.3721 90.3540 137.2169 260.3896 750.1116 1130.9572 -
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411.0 507.0000 46.4693 0.0180 54.1996 6.2378
1.1039 87.0227 128.5648 247.1784 675.4744 1018.8684 -
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1.3292 83.9025 121.1774 231.9914 585.9296 854.4332 -
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1.2101 83.5167 120.4368 225.9370 545.3218 737.5999 -
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1.1413 85.6597 122.1903 236.4911 520.6805 727.8853 -
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409.0 516.0000 47.6801 0.0189 55.7864 6.2360
1.1576 86.8857 126.9900 244.7298 501.3108 715.3166 -
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1.1587 85.0705 123.5459 234.6682 510.1187 717.1853 -
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408.0 505.0000 47.2089 0.0190 53.9032 6.0524
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1.0924 80.4992 113.2035 222.3945 532.3418 969.7946 -
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0.9050 79.6073 112.0055 241.8304 1321.4425 1950.0000 -
335.9294 12.5617 8.9281 4.1351 0.7567 0.5088
402.0 495.0000 53.8316 0.0189 59.6844 8.0924
0.8358 78.8218 111.7881 247.1967 1466.4149 1950.0000 -
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401.5 499.0000 53.5017 0.0187 59.0271 8.0714
0.7890 78.0904 112.2297 251.1301 1521.9202 1950.0000 -
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0.7718 77.5344 112.3011 254.0099 1506.2759 1950.0000 -
366.5619 12.8975 8.9046 3.9369 0.6639 0.5007
400.5 492.0000 57.7430 0.0209 64.6301 8.4068
0.9835 77.0325 112.6488 254.8120 1484.6031 1950.0000 -
374.3459 12.9815 8.8771 3.9245 0.6736 0.5071
400.0 500.0000 53.6055 0.0196 58.2130 7.7058
0.6580 76.6628 111.7088 250.9484 1454.2527 1906.8936 -
382.0139 13.0441 8.9518 3.9849 0.6876 0.5244

399.5	491.0000	54.8416	0.0202	59.6276	7.8163	0.6834	76.3513	111.8820	245.1022	1362.8933	1779.8745	-388.6774	13.0974
8.9380	4.0799	0.7337	0.5618										
399.0	502.0000	54.5715	0.0202	59.4552	7.7464	0.6974	75.9083	113.2754	242.6156	1251.2596	1587.1934	-394.7202	13.1738
8.8280	4.1217	0.7992	0.6300										
398.5	495.0000	55.6234	0.0208	60.3974	7.8091	0.6817	75.8077	115.6382	243.7630	1113.1749	1393.2357	-400.3878	13.1913
8.6477	4.1023	0.8983	0.7178										
398.0	499.0000	56.6131	0.0212	61.4255	7.9318	0.6872	76.3587	114.6582	242.7946	950.9896	1185.2446	-405.3249	13.0961
8.7216	4.1187	1.0515	0.8437										
397.5	499.0000	55.9379	0.0211	60.3660	7.7748	0.6323	74.6227	111.2873	236.0093	811.1003	1009.7104	-409.7878	13.4007
8.9858	4.2371	1.2329	0.9904										
397.0	496.0000	54.7685	0.0206	59.1457	7.6435	0.6251	74.9423	106.9143	240.7323	749.9314	921.8104	-412.5335	13.3436
9.3533	4.1540	1.3335	1.0848										
396.5	499.0000	53.9084	0.0199	58.4212	7.6854	0.6444	75.3862	107.7648	236.5392	666.8937	809.4892	-410.3105	13.2650
9.2795	4.2276	1.4995	1.2353										
396.0	505.0000	55.5875	0.0201	61.2940	8.1135	0.8149	75.8842	108.8640	239.3078	630.5373	744.0065	-401.0579	13.1780
9.1858	4.1787	1.5859	1.3441										
395.5	487.0000	53.6806	0.0190	58.3283	7.9899	0.6637	75.4576	104.6773	237.1954	591.8854	679.3109	-386.8431	13.2525
9.5532	4.2159	1.6895	1.4721										
395.0	499.0000	53.6421	0.0188	58.6472	8.0770	0.7147	74.3353	94.7703	218.4857	513.7067	559.4522	-375.2418	13.4526
10.5518	4.5770	1.9466	1.7875										
394.5	493.0000	52.9144	0.0182	58.2635	8.1038	0.7638	75.0925	90.1773	207.7232	465.6924	513.1595	-363.8770	13.3169
11.0893	4.8141	2.1473	1.9487										
394.0	491.0000	53.1566	0.0188	58.9360	7.9178	0.8253	78.2486	107.7443	249.8577	606.0569	662.8068	-354.6620	12.7798
9.2812	4.0023	1.6500	1.5087										
393.5	504.0000	53.5420	0.0193	59.1556	7.8230	0.8016	81.7190	144.1340	296.0814	650.8205	721.4415	-347.1976	12.2371
6.9380	3.3774	1.5365	1.3861										
393.0	491.0000	53.9121	0.0194	59.2178	7.9005	0.7577	80.1950	131.0748	296.4872	657.2398	740.6225	-343.5415	12.4696
7.6292	3.3728	1.5215	1.3502										
392.5	495.0000	53.4885	0.0189	58.4524	7.9611	0.7088	78.4492	109.5787	249.3514	622.9108	721.9409	-341.4208	12.7471
9.1259	4.0104	1.6054	1.3852										
392.0	492.0000	54.2097	0.0189	59.4465	8.1788	0.7478	75.9304	88.1092	189.3311	461.4263	543.8174	-338.4952	13.1700
11.3496	5.2818	2.1672	1.8389										
391.5	499.0000	54.2545	0.0183	59.2552	8.4786	0.7141	76.4802	104.5043	233.7575	633.3560	851.8178	-332.0517	13.0753
9.5690	4.2779	1.5789	1.1740										
391.0	494.0000	55.3234	0.0185	60.9272	8.6902	0.8002	82.9317	120.5761	261.7141	653.1353	954.6008	-320.6217	12.0581
8.2935	3.8210	1.5311	1.0476										
390.5	500.0000	52.8606	0.0171	56.7954	8.5500	0.5619	83.2465	123.9121	284.6783	722.4794	1189.9561	-306.5172	12.0125
8.0702	3.5127	1.3841	0.8404										

390.0 494.0000 52.9931 0.0172 56.8499 8.5848
0.5508 84.0350 136.4983 303.0705 834.6335 1431.1671 -
291.0763 11.8998 7.3261 3.2996 1.1981 0.6987
389.5 479.0000 54.7532 0.0179 59.2288 8.8059
0.6391 89.6447 135.7496 296.3107 964.7546 1559.5980 -
267.5376 11.1551 7.3665 3.3748 1.0365 0.6412
389.0 490.0000 56.4245 0.0188 61.2167 8.9294
0.6843 90.8917 134.8211 291.5884 1014.7078 1521.9735 -
273.7208 11.0021 7.4172 3.4295 0.9855 0.6570
388.5 491.0000 57.4597 0.0191 62.4933 9.0940
0.7188 80.8177 113.0109 235.8863 1052.0247 1376.0005 -
260.9131 12.3735 8.8487 4.2393 0.9505 0.7267
388.0 499.0000 57.3614 0.0189 62.4315 9.1486
0.7240 80.0198 93.9904 189.5159 1017.8312 1220.8354 -
258.9191 12.4969 10.6394 5.2766 0.9825 0.8191
387.5 499.0000 55.6714 0.0183 60.4427 8.9087
0.6813 65.9020 82.9891 175.7052 931.2260 955.7025 -
244.3492 15.1740 12.0498 5.6914 1.0739 1.0464
387.0 495.0000 52.7741 0.0177 56.6927 8.3053
0.5596 68.9084 86.1202 190.3439 894.2239 913.6748 -
237.4827 14.5120 11.6117 5.2536 1.1183 1.0945
386.5 494.0000 52.9916 0.0180 57.1037 8.2186
0.5872 79.1203 100.4956 244.6122 880.8405 889.5909 -
244.6850 12.6390 9.9507 4.0881 1.1353 1.1241
386.0 488.0000 54.9683 0.0203 64.6660 7.8257
1.3848 90.9385 116.4805 271.7067 787.2546 756.0432 -
263.4551 10.9964 8.5851 3.6804 1.2702 1.3227
385.5 505.0000 54.2402 0.0199 63.3681 7.7663
1.3035 116.2147 135.2162 318.8353 706.1893 634.2824 -
264.4374 8.6048 7.3956 3.1364 1.4161 1.5766
385.0 494.0000 53.4928 0.0197 62.7999 7.6254
1.3291 127.1694 134.9947 335.7327 628.7318 503.8112 -
274.2009 7.8635 7.4077 2.9786 1.5905 1.9849
384.5 493.0000 53.4821 0.0196 63.2703 7.6634
1.3978 162.7299 149.4724 362.0749 563.6326 419.5965 -
278.8040 6.1452 6.6902 2.7619 1.7742 2.3832
384.0 501.0000 54.3171 0.0198 63.9929 7.8535
1.3817 172.4463 184.6046 407.2139 565.7634 377.1996 -
279.7731 5.7989 5.4170 2.4557 1.7675 2.6511
383.5 487.0000 52.0560 0.0183 60.1342 7.7904
1.1536 213.0168 231.2127 478.5920 600.4692 361.9840 -
280.8606 4.6945 4.3250 2.0895 1.6654 2.7626
383.0 492.0000 53.7414 0.0189 62.2970 8.0398
1.2217 213.2177 280.5417 557.1501 669.6171 369.8723 -
280.2896 4.6900 3.5645 1.7948 1.4934 2.7036
382.5 499.0000 54.8269 0.0195 64.0661 8.1232
1.3194 220.8218 349.7938 651.7910 813.0383 359.8468 -
277.1316 4.5285 2.8588 1.5342 1.2300 2.7790
382.0 487.0000 52.5315 0.0186 61.4634 7.8006
1.2755 214.0955 431.6724 687.1942 747.9996 365.1166 -
271.3743 4.6708 2.3166 1.4552 1.3369 2.7389
381.5 489.0000 53.1448 0.0189 62.5404 7.8745
1.3417 210.0186 472.5541 612.2162 677.9014 404.9685 -
264.2808 4.7615 2.1162 1.6334 1.4751 2.4693
381.0 488.0000 52.4560 0.0188 62.4626 7.7190
1.4289 205.3427 556.5667 598.0090 551.2308 396.2700 -
256.5022 4.8699 1.7967 1.6722 1.8141 2.5235

380.5 492.0000 51.2585 0.0185 60.4692 7.4856
1.3153 221.1025 779.2632 628.7543 562.1299 465.3152 -
248.6991 4.5228 1.2833 1.5904 1.7789 2.1491
380.0 488.0000 52.1785 0.0191 61.5332 7.4935
1.3359 221.3975 1071.0219 705.6478 359.5745 381.9917 -
241.9958 4.5168 0.9337 1.4171 2.7811 2.6179
379.5 484.0000 54.2518 0.0202 64.5566 7.6694
1.4715 184.2604 737.1126 554.5911 319.7216 390.2742 -
240.6053 5.4271 1.3566 1.8031 3.1277 2.5623
379.0 498.0000 52.5084 0.0198 61.7637 7.3043
1.3217 133.0946 421.2070 358.1107 256.0486 318.6540 -
244.5506 7.5135 2.3741 2.7924 3.9055 3.1382
378.5 495.0000 52.4100 0.0199 61.2016 7.2151
1.2554 112.0194 312.4472 238.3761 246.1529 392.6799 -
255.3158 8.9270 3.2005 4.1951 4.0625 2.5466
378.0 487.0000 54.5351 0.0205 64.4092 7.5861
1.4100 94.9729 197.2356 159.7245 187.7781 338.0358 -
266.9433 10.5293 5.0701 6.2608 5.3254 2.9583
377.5 492.0000 54.5941 0.0204 64.8822 7.6559
1.4691 93.1263 142.4332 121.8741 197.8866 357.4638 -
273.2549 10.7381 7.0208 8.2052 5.0534 2.7975
377.0 489.0000 53.9035 0.0200 63.7180 7.6407
1.4015 89.0504 120.5314 110.8706 197.9815 347.1279 -
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1.4830 79.9157 103.3781 105.6264 177.2729 320.9503 -
258.2096 12.5132 9.6732 9.4673 5.6410 3.1157
376.0 487.0000 50.8466 0.0180 59.6655 7.5589
1.2593 73.2594 104.2518 119.6831 214.9040 384.4219 -
257.3336 13.6501 9.5922 8.3554 4.6532 2.6013
375.5 487.0000 52.7378 0.0187 61.8315 7.8432
1.2986 86.2404 122.2729 152.4315 267.8721 427.3452 -
260.5702 11.5955 8.1784 6.5603 3.7331 2.3400
375.0 492.0000 52.9963 0.0188 62.2140 7.8949
1.3163 84.1620 115.0190 148.4255 260.0736 394.2689 -
299.2295 11.8818 8.6942 6.7374 3.8451 2.5363
374.5 495.0000 54.8517 0.0193 64.9496 8.2003
1.4420 74.1914 97.8702 144.7001 253.1851 331.4023 -
283.1234 13.4787 10.2176 6.9108 3.9497 3.0175
374.0 488.0000 54.8106 0.0190 64.9747 8.3163
1.4514 67.1241 92.0018 129.4368 209.3089 232.0807 -
286.6241 14.8978 10.8694 7.7258 4.7776 4.3088
373.5 489.0000 53.0760 0.0181 62.7280 8.2140
1.3783 66.9988 90.3054 135.2416 218.3045 264.5401 -
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373.0 500.0000 56.4687 0.0197 68.7365 8.5497
1.7519 67.3101 85.7505 125.2763 194.2136 238.3573 -
290.5861 14.8566 11.6617 7.9824 5.1490 4.1954
372.5 499.0000 56.2106 0.0199 68.5258 8.3592
1.7586 68.8888 83.5848 122.5595 187.7635 236.8893 -
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372.0 495.0000 54.1552 0.0191 65.9387 8.0742
1.6827 67.9081 73.9963 115.7212 162.7033 211.2719 -
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371.5 501.0000 57.1506 0.0205 70.7934 8.4054
1.9482 68.0736 70.5131 104.7348 131.8847 187.6345 -
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371.0 499.0000 54.9162 0.0195 67.7653 8.1530
1.8349 65.6457 66.0600 99.1261 135.0991 176.8866 -
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1.9059 62.9401 63.1395 95.9936 136.2457 169.5232 -
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370.0 488.0000 55.3606 0.0194 68.4495 8.3158
1.8691 61.6220 60.0660 95.0288 127.4595 156.4178 -
172.4848 16.2280 16.6484 10.5231 7.8456 6.3931
369.5 498.0000 55.6841 0.0197 69.1352 8.2885
1.9208 61.0601 59.4055 95.2573 121.8529 149.0625 -
192.0987 16.3773 16.8335 10.4979 8.2066 6.7086
369.0 499.0000 54.0832 0.0193 66.8892 7.9797
1.8287 61.2033 59.2603 94.4523 123.6869 142.8910 -
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368.5 496.0000 55.9788 0.0200 69.8164 8.2385
1.9760 61.8902 60.2729 92.0373 120.6340 129.3902 -
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1.9360 64.3885 60.3007 88.7984 110.3022 126.9685 -
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1.9128 70.3210 69.3519 104.0538 131.2816 152.9380 -
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2.1802 76.3512 77.3754 118.3723 152.1938 178.3610 -
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1.6016 98.8833 76.5495 120.2585 161.1728 207.2773 -
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1.4050 110.3660 82.3666 138.2200 202.7578 277.1506 -
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1.3663 121.3938 114.2238 223.6700 319.5651 416.4383 -
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1.1312 123.6885 136.0350 307.3256 462.3878 601.4370 -
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1.2475 189.0356 252.2689 530.7701 776.1085 976.4740 -
186.1032 5.2900 3.9640 1.8841 1.2885 1.0241
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1.0965 203.7685 306.9713 1721.0442 1852.7552 1930.0436 -
200.5498 4.9075 3.2576 0.5810 0.5397 0.5181
363.0 498.0000 37.1760 0.0155 44.9688 4.5269
1.1128 199.3119 345.3133 1948.3381 1950.0000 1950.0000 -
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1.0088 102.0648 128.1325 231.3859 361.7087 501.7424 -
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0.9025 104.8312 104.6301 196.8783 474.2207 452.4002 -
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1.0049 118.5140 126.4018 241.7729 560.2086 567.2065 -
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360.0 499.0000 37.8247 0.0161 45.1789 4.4552
1.0502 151.4532 150.1658 253.5128 598.4457 547.2428 -
323.4546 6.6027 6.6593 3.9446 1.6710 1.8273
359.5 500.0000 33.7374 0.0142 40.0038 4.0550
0.8948 126.8125 129.4190 222.1147 573.8385 476.1070 -
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359.0 498.0000 34.2718 0.0150 45.5410 3.8680
1.6093 97.8801 94.0255 165.1260 541.3519 422.9625 -
348.3224 10.2166 10.6354 6.0560 1.8472 2.3643
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1.7411 87.4303 82.1678 129.4817 375.1200 233.6021 -
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1.4642 261.9950 416.4835 681.4177 1043.7526 893.0859 -
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1.4161 257.5535 698.5406 1950.0000 1751.4426 1882.3696 -
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1.4999 260.5865 1056.7565 1950.0000 1035.3884 1138.4523 -
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355.5 504.0000 34.7636 0.0153 44.5315 3.8938
1.3949 246.5546 1447.5948 1950.0000 1211.3667 1111.4290 -
401.1866 4.0559 0.6908 0.5000 0.8255 0.8997
355.0 504.0000 35.4705 0.0156 45.1026 3.9843
1.3755 229.2863 1796.1129 1950.0000 1470.1693 1257.7012 -
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1.2826 211.0110 1950.0000 1940.8280 1723.2192 1308.0668 -
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1.2392 192.9098 1950.0000 1824.6602 1707.6892 1261.1196 -
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1.2672 157.3768 1397.9126 1498.4038 1950.0000 1524.5862 -
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1.1945 135.9614 627.6417 925.0472 1877.7156 1950.0000 -
420.6853 7.3550 1.5933 1.0810 0.5326 0.5029
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1.2578 122.6075 287.4309 456.0063 675.9700 786.6599 -
423.6286 8.1561 3.4791 2.1930 1.4794 1.2712

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426.4453 10.4679 5.9854 5.0579 2.4829 2.1014
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351.0 506.0000 47.5650 0.0187 55.1853 6.2748
1.0882 82.6323 104.2600 164.2631 291.9843 292.6293 -
431.1389 12.1018 9.5914 6.0878 3.4248 3.4173
350.5 503.0000 46.9300 0.0183 54.9572 6.2437
1.1463 82.3813 127.5943 256.9892 471.0412 473.8439 -
433.2280 12.1387 7.8373 3.8912 2.1230 2.1104
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1.2664 93.8528 146.0634 312.9602 598.7706 585.1859 -
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349.5 495.0000 46.2827 0.0183 54.8140 6.0692
1.2183 78.3463 141.6986 421.9415 825.1114 794.4992 -
436.6466 12.7638 7.0572 2.3700 1.2120 1.2587
349.0 495.0000 50.9534 0.0179 61.8275 7.6569
1.5528 76.8639 150.7877 482.1340 1146.4518 1110.3441 -
438.0663 13.0100 6.6318 2.0741 0.8723 0.9006
348.5 493.0000 53.3557 0.0186 65.3629 8.0597
1.7146 73.1293 175.7094 637.2086 1456.7920 1530.4252 -
439.8822 13.6744 5.6912 1.5693 0.6864 0.6534
348.0 491.0000 55.0418 0.0189 67.7638 8.4435
1.8167 74.5485 203.4675 586.0776 1435.1934 1811.6154 -
441.2941 13.4141 4.9148 1.7063 0.6968 0.5520
347.5 491.0000 62.1078 0.0177 77.1469 11.0894
2.1476 68.2579 197.1112 777.7190 1544.7283 1932.0635 -
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347.0 499.0000 63.1883 0.0180 78.7125 11.2952
2.2169 56.7019 156.9855 254.7716 569.5507 1465.9932 -
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346.5 506.0000 67.5475 0.0178 87.0641 12.6998
2.7870 44.2364 95.2728 133.3876 308.4204 977.4227 -
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3.9175 31.9853 68.0705 88.3998 167.5729 599.9767 -
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4.2444 24.0962 44.5971 55.1922 102.6828 367.0260 -
445.2243 41.5004 22.4230 18.1185 9.7387 2.7246
345.0 505.0000 83.2202 0.0228 125.8996 15.2912
6.0946 19.4670 28.3088 37.0367 73.1338 245.1828 -
445.3954 51.3689 35.3247 27.0002 13.6736 4.0786
344.5 503.0000 90.7248 0.0230 138.6386 17.4603
6.8421 15.7572 21.1439 25.3299 45.2424 178.6366 -
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6.8062 15.2786 19.6642 23.2895 39.2124 136.7190 -
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343.5 501.0000 90.2106 0.0224 137.9218 17.5655
6.8132 14.9510 18.4337 22.6709 38.3437 128.1477 -
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343.0 495.0000 88.0665 0.0214 134.4627 17.3577
6.6254 16.3686 21.4021 27.0276 48.4843 177.2876 -
445.3255 61.0926 46.7244 36.9993 20.6252 5.6406

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5.6018 31.0279 54.2892 70.8415 116.3676 287.0956 -
431.8341 32.2291 18.4199 14.1160 8.5935 3.4832
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4.0663 36.2338 76.1724 112.7887 194.4619 350.2824 -
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2.2799 36.5228 82.9041 158.6706 337.4560 291.4621 -
375.7321 27.3802 12.0621 6.3024 2.9633 3.4310
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1.4036 42.3276 86.8190 209.5085 540.1588 274.6595 -
348.7225 23.6252 11.5182 4.7731 1.8513 3.6409
340.0 500.0000 39.3259 0.0150 47.3847 5.3860
1.1508 59.9722 93.7868 265.2112 649.3604 303.6154 -
313.7948 16.6744 10.6625 3.7706 1.5400 3.2936
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1.1459 68.3155 122.5854 328.1411 587.7794 319.4554 -
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0.6350 75.9609 107.9089 272.9334 477.0009 273.9518 -
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0.6431 73.1510 99.0680 262.9175 361.2465 254.0043 -
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338.0 494.0000 36.6944 0.0179 41.0032 3.3432
0.6153 89.3493 101.6613 250.7130 318.8593 271.9762 -
273.7804 11.1920 9.8366 3.9886 3.1362 3.6768
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0.5667 101.4190 109.7078 290.1250 361.1693 319.0844 -
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0.5278 112.8154 123.4869 328.4353 410.4167 390.4003 -
322.1039 8.8640 8.0980 3.0447 2.4365 2.5615
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0.6343 109.1587 131.0793 335.6902 505.5060 397.0576 -
320.5535 9.1610 7.6290 2.9789 1.9782 2.5185
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1.1656 108.4378 116.9893 312.5462 581.4136 381.2426 -
318.2653 9.2219 8.5478 3.1995 1.7199 2.6230
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1.1229 102.3647 115.4692 279.6830 637.3240 324.9230 -
331.5138 9.7690 8.6603 3.5755 1.5691 3.0777
335.0 520.0000 35.5949 0.0142 43.7048 4.6173
1.1581 113.3937 118.9993 281.1219 773.8352 324.2200 -
343.4778 8.8188 8.4034 3.5572 1.2923 3.0843
334.5 514.0000 35.3480 0.0140 43.0585 4.6199
1.1011 112.0316 126.5831 270.9527 945.8387 309.0956 -
353.9306 8.9261 7.8999 3.6907 1.0573 3.2352
334.0 514.0000 37.2806 0.0148 45.5529 4.8409
1.1813 111.2440 131.7336 308.1930 1029.8601 389.7326 -
363.3342 8.9892 7.5911 3.2447 0.9710 2.5659
333.5 515.0000 35.8320 0.0132 38.9796 5.1078
0.4495 126.5534 154.6038 381.7668 1144.4736 468.9755 -
371.5758 7.9018 6.4681 2.6194 0.8738 2.1323

333.0	507.0000	39.8406	0.0150	44.1229	5.5320	0.6115	149.2087	189.8455	440.1269	1242.1609	486.0519	-377.3320	6.7020	5.2674
2.2721	0.8050	2.0574												
332.5	501.0000	40.1459	0.0151	44.4430	5.5739	0.6136	184.2861	247.9223	660.7672	853.1881	518.2261	-375.2844	5.4263	4.0335
1.5134	1.1721	1.9297												
332.0	513.0000	43.0812	0.0155	49.5349	6.3176	0.9216	220.8047	315.6113	1519.4164	1821.1687	1410.9274	-367.5654	4.5289	3.1685
0.6581	0.5491	0.7088												
331.5	520.0000	44.4248	0.0158	51.6492	6.5771	1.0316	225.0069	320.7917	1770.3417	1911.1244	1775.1118	-366.4617	4.4443	3.1173
0.5649	0.5233	0.5633												
331.0	521.0000	43.5031	0.0154	50.4018	6.4941	0.9851	199.0709	284.1540	714.1595	1129.6556	964.4801	-356.5596	5.0233	3.5192
1.4002	0.8852	1.0368												
330.5	493.0000	42.0433	0.0148	48.4433	6.2921	0.9139	156.3605	203.1238	474.3390	883.2162	840.7634	-331.4904	6.3955	4.9231
2.1082	1.1322	1.1894												
330.0	505.0000	45.2406	0.0168	53.1461	6.4081	1.1289	129.8993	165.7664	373.9277	681.6368	627.6595	-325.4261	7.6983	6.0326
2.6743	1.4671	1.5932												
329.5	500.0000	42.2093	0.0161	48.4879	5.7786	0.8966	125.8566	156.4778	331.5604	668.7142	789.7620	-328.0283	7.9455	6.3907
3.0160	1.4954	1.2662												
329.0	511.0000	43.4542	0.0166	50.2162	5.9315	0.9656	118.4682	159.2812	294.4251	628.1537	789.7953	-328.0296	8.4411	6.2782
3.3964	1.5920	1.2662												
328.5	505.0000	42.1969	0.0163	48.0084	5.6884	0.8299	119.1868	164.8377	314.9596	636.7208	944.2755	-325.3103	8.3902	6.0666
3.1750	1.5705	1.0590												
328.0	506.0000	42.3101	0.0162	48.0236	5.7661	0.8159	119.6655	161.6999	330.8292	695.8716	1064.3104	-314.5542	8.3566	6.1843
3.0227	1.4370	0.9396												
327.5	514.0000	43.4501	0.0165	49.7740	5.9681	0.9030	121.6972	172.4882	343.0831	777.9576	1284.4763	-301.4590	8.2171	5.7975
2.9147	1.2854	0.7785												
327.0	509.0000	42.3294	0.0164	47.4740	5.6992	0.7347	129.2682	184.1579	378.4887	1003.0427	1531.2305	-306.8643	7.7359	5.4301
2.6421	0.9970	0.6531												
326.5	512.0000	40.8154	0.0161	44.6272	5.3839	0.5443	108.6586	186.0343	393.2416	1277.0330	1737.4260	-315.8658	9.2031	5.3754
2.5430	0.7831	0.5756												
326.0	513.0000	39.0965	0.0154	41.6808	5.1589	0.3690	100.3508	171.8722	382.1581	1528.8306	1876.3666	-319.8286	9.9650	5.8183
2.6167	0.6541	0.5329												
325.5	505.0000	39.0460	0.0153	41.1215	5.1758	0.2964	94.1160	143.2719	323.1406	1682.4548	1938.0815	-323.1895	10.6252	6.9797
3.0946	0.5944	0.5160												
325.0	520.0000	39.8439	0.0157	42.4438	5.2422	0.3713	86.8697	133.2510	293.7936	1785.1116	1950.0000	-322.9630	11.5115	7.5046
3.4037	0.5602	0.5058												
324.5	512.0000	39.6546	0.0156	42.3638	5.2217	0.3869	83.1884	140.7124	310.9382	1786.9132	1950.0000	-322.3187	12.0209	7.1067
3.2161	0.5596	0.5029												
324.0	502.0000	44.2853	0.0176	48.7928	5.7740	0.6437	80.5739	137.2777	313.5256	1730.1025	1927.8175	-322.9599	12.4110	7.2845
3.1895	0.5780	0.5187												

323.5 513.0000 44.7848 0.0179 49.2320 5.7848
0.6351 78.2449 133.4648 296.0937 1451.6436 1697.8857 -
322.1122 12.7804 7.4926 3.3773 0.6889 0.5890
323.0 513.0000 40.6534 0.0123 43.8387 6.9444
0.4549 79.4056 122.0873 263.6826 1016.0140 1239.2521 -
321.0637 12.5936 8.1909 3.7924 0.9842 0.8069
322.5 516.0000 39.9063 0.0118 42.4366 6.9525
0.3613 79.6152 106.1302 217.4171 601.2864 722.7973 -
320.2305 12.5604 9.4224 4.5995 1.6631 1.3835
322.0 509.0000 39.2059 0.0113 41.1034 6.9358
0.2710 80.8913 91.2257 173.5437 326.2607 370.2062 -
319.5585 12.3623 10.9618 5.7622 3.0650 2.7012
321.5 512.0000 41.2759 0.0122 43.7900 7.1895
0.3590 96.0772 82.5810 130.7707 177.3427 185.8620 -
321.8918 10.4083 12.1093 7.6470 5.6388 5.3803
321.0 512.0000 41.4506 0.0121 44.1876 7.2957
0.3908 82.3182 58.4808 81.8696 106.9903 100.4161 -
283.4836 12.1480 17.0996 12.2145 9.3466 9.9586
320.5 513.0000 41.5889 0.0121 44.6766 7.3232
0.4409 63.8611 41.8770 56.1355 66.0124 61.3731 -
320.6132 15.6590 23.8795 17.8140 15.1487 16.2938
320.0 509.0000 45.3289 0.0137 55.4888 7.7536
1.4508 46.6997 36.1272 40.3552 45.4757 40.2358 -
327.6368 21.4134 27.6799 24.7799 21.9898 24.8535
319.5 505.0000 54.1186 0.0161 66.5409 9.4016
1.7739 31.6847 28.9017 29.4632 30.2827 27.4574 -
311.5930 31.5610 34.6001 33.9407 33.0221 36.4201
319.0 507.0000 57.1609 0.0168 71.2271 9.9826
2.0087 22.8389 20.2515 20.1489 20.4580 18.2898 -
328.7049 43.7850 49.3792 49.6305 48.8805 54.6752
318.5 506.0000 61.7730 0.0167 80.1085 11.4432
2.6183 18.2317 15.4644 14.8687 14.9024 13.6174 -
281.4010 54.8497 64.6649 67.2555 67.1034 73.4352
318.0 507.0000 63.6034 0.0174 82.9820 11.6898
2.7673 14.7779 13.7314 12.8922 12.4967 11.5843 -
307.5374 67.6685 72.8259 77.5662 80.0214 86.3235
317.5 527.0000 65.4952 0.0182 85.9152 11.9234
2.9160 12.6845 12.7145 11.8505 11.1823 10.5256 -
264.0131 78.8365 78.6504 84.3844 89.4271 95.0062
317.0 522.0000 70.7359 0.0207 92.2486 12.4152
3.0720 13.1262 13.1194 11.9237 10.9532 10.5775 -
234.4721 76.1837 76.2232 83.8667 91.2975 94.5402
316.5 526.0000 87.6180 0.0240 112.0579 16.1019
3.4900 17.6500 17.1404 16.1534 15.2155 14.4877 -
270.9428 56.6573 58.3417 61.9066 65.7225 69.0240
316.0 516.0000 125.1566 0.0279 160.4050 25.7313
5.0335 30.4629 28.4186 29.1184 24.8208 23.4365 -
229.7214 32.8269 35.1882 34.3426 40.2888 42.6686
315.5 505.0000 140.9043 0.0296 182.5887 29.7393
5.9525 62.0733 49.3104 41.8642 38.3775 38.4342 -
274.0156 16.1100 20.2797 23.8867 26.0569 26.0185
315.0 520.0000 156.2552 0.0294 207.5341 34.4925
7.3226 128.1248 71.2949 58.5772 55.3895 52.7392 -
284.4588 7.8049 14.0263 17.0715 18.0540 18.9612
314.5 509.0000 156.3344 0.0300 231.7745 34.2302
10.7729 122.7056 93.7472 96.8208 92.9853 85.6433 -
294.5439 8.1496 10.6670 10.3284 10.7544 11.6763

314.0 501.0000 179.1840 0.0338 260.9913 39.4866
11.6821 177.3325 126.2757 142.7492 149.7944 160.1527 -
304.0732 5.6391 7.9192 7.0053 6.6758 6.2440
313.5 509.0000 180.7875 0.0345 262.8358 39.6930
11.7165 278.1767 167.0029 176.3488 277.5829 344.8222 -
311.7563 3.5948 5.9879 5.6706 3.6025 2.9000
313.0 500.0000 184.9806 0.0362 267.4379 40.2212
11.7749 413.9225 253.7112 238.6328 665.8167 871.7739 -
312.0702 2.4159 3.9415 4.1905 1.5019 1.1471
312.5 509.0000 186.4476 0.0369 271.4871 40.3399
12.1437 517.0348 451.5530 554.0434 1950.0000 1950.0000 -
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12.5151 350.4029 1950.0000 1198.0873 1950.0000 1950.0000 -
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311.0 496.0000 191.1727 0.0385 279.0655 41.1078
12.5511 298.2846 1950.0000 1580.6464 1950.0000 1950.0000 -
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310.5 506.0000 192.0635 0.0389 282.5508 41.1900
12.9216 248.2705 1747.9342 1950.0000 1950.0000 1950.0000 -
320.6632 4.0279 0.5721 0.5000 0.5000 0.5000
310.0 502.0000 191.9627 0.0387 281.7474 41.2592
12.8213 222.2776 1277.3489 1950.0000 1950.0000 1950.0000 -
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309.5 506.0000 196.7496 0.0404 288.3247 41.9411
13.0769 207.6786 989.7065 1941.5917 1950.0000 1950.0000 -
308.9139 4.8151 1.0104 0.5150 0.5108 0.5103
309.0 512.0000 195.2133 0.0400 286.5537 41.6688
13.0434 201.1052 811.6411 1533.6393 1561.7417 1549.0542 -
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308.5 502.0000 197.2301 0.0409 289.1099 41.8899
13.1204 187.8925 589.7169 1501.6736 1483.3915 1435.6207 -
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308.0 515.0000 197.8228 0.0413 290.6630 41.8837
13.2576 182.1031 543.5999 1122.2056 1295.3240 1399.7562 -
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307.5 513.0000 198.2424 0.0416 290.4989 41.9042
13.1743 174.6756 468.7266 925.0861 928.1553 878.8813 -
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307.0 510.0000 198.3549 0.0417 290.6486 41.8833
13.1796 187.9060 656.7989 1526.4515 1295.9261 1089.1311 -
295.0515 5.3218 1.5225 0.6551 0.7716 0.9182
306.5 516.0000 192.5446 0.0422 275.6103 39.9237
11.8618 196.5837 845.3649 1913.5631 1919.3444 1857.2620 -
299.5653 5.0869 1.1829 0.5226 0.5210 0.5384
306.0 504.0000 196.5044 0.0437 281.1081 40.4413
12.0814 192.8365 937.9167 1809.2975 1833.7864 1739.2650 -
316.5688 5.1857 1.0662 0.5527 0.5453 0.5750
305.5 509.0000 195.9098 0.0437 279.7282 40.2886
11.9693 196.3066 918.5895 1714.6948 1822.3938 1617.6641 -
331.5878 5.0941 1.0886 0.5832 0.5487 0.6182
305.0 509.0000 196.4139 0.0441 279.7082 40.2744
11.8944 194.6721 747.6197 1737.7899 1914.3090 1614.6787 -
344.6646 5.1368 1.3376 0.5754 0.5224 0.6193

304.5	513.0000	196.8614	0.0444	280.0490	40.2521	11.8792	190.8188	734.8519	1229.1587	1950.0000	1062.2859	-356.7883	5.2406
1.3608	0.8136	0.5073	0.9414										
304.0	516.0000	196.3966	0.0445	279.3072	40.0830	11.8397	186.6588	628.6542	1491.2770	1950.0000	1720.0426	-368.2917	5.3574
1.5907	0.6706	0.5066	0.5814										
303.5	516.0000	192.1434	0.0437	270.9497	39.1501	11.2536	181.1674	515.6453	1551.7727	1950.0000	1719.7698	-377.3125	5.5198
1.9393	0.6444	0.5112	0.5815										
303.0	506.0000	187.9007	0.0429	262.2330	38.1852	10.6147	178.8198	491.5886	1470.5835	1950.0000	1771.8368	-384.9356	5.5922
2.0342	0.6800	0.5112	0.5644										
302.5	526.0000	186.2070	0.0424	258.6207	37.9060	10.3407	173.7277	423.8352	1410.2581	1946.7667	1866.0328	-392.5240	5.7561
2.3594	0.7091	0.5137	0.5359										
302.0	511.0000	181.8949	0.0410	251.0448	37.2206	9.8746	166.6101	362.2395	1256.7312	1945.0378	1928.0844	-394.6624	6.0020
2.7606	0.7957	0.5141	0.5186										
301.5	517.0000	180.9428	0.0405	249.5655	37.1203	9.7993	172.6163	443.7101	1652.8561	1936.3632	1906.4834	-387.3579	5.7932
2.2537	0.6050	0.5164	0.5245										
301.0	506.0000	181.2928	0.0407	248.9118	37.1499	9.6560	181.1099	441.7892	1617.4729	1883.8809	1791.9192	-375.8494	5.5215
2.2635	0.6182	0.5308	0.5581										
300.5	518.0000	182.3876	0.0413	251.1448	37.2285	9.8185	184.4643	467.6951	1712.6564	1858.6869	1631.2688	-362.9435	5.4211
2.1381	0.5839	0.5380	0.6130										
300.0	514.0000	181.2046	0.0410	249.2048	37.0105	9.7105	188.8335	490.5854	1691.6647	1762.9769	1415.8351	-347.3000	5.2957
2.0384	0.5911	0.5672	0.7063										
299.5	512.0000	171.2602	0.0434	233.7571	32.9469	8.9246	195.6845	496.3943	1542.2450	1613.8866	1137.6327	-329.6856	5.1103
2.0145	0.6484	0.6196	0.8790										
299.0	511.0000	168.8806	0.0427	229.7002	32.5314	8.6851	194.6414	430.3358	1284.2225	1405.5146	814.5471	-314.3199	5.1377
2.3238	0.7787	0.7115	1.2277										
298.5	516.0000	167.8131	0.0425	226.6252	32.3238	8.3984	188.1797	401.8466	978.9461	1191.1476	723.3633	-306.8635	5.3141
2.4885	1.0215	0.8395	1.3824										
298.0	523.0000	150.0748	0.0465	205.4107	25.2308	7.9020	176.8435	393.9179	647.8367	937.3745	669.6865	-302.7846	5.6547
2.5386	1.5436	1.0668	1.4932										
297.5	518.0000	144.9391	0.0445	197.7299	24.5394	7.5385	163.3121	319.7310	636.3301	902.4067	463.1474	-297.9976	6.1232
3.1276	1.5715	1.1081	2.1591										
297.0	523.0000	145.2211	0.0445	197.5941	24.6015	7.4789	145.9874	273.2439	441.7127	705.7440	474.5983	-293.1495	6.8499
3.6597	2.2639	1.4169	2.1070										
296.5	517.0000	149.6828	0.0463	203.4078	25.1640	7.6719	134.1720	228.6063	391.0914	599.6600	489.7663	-289.8995	7.4531
4.3743	2.5569	1.6676	2.0418										
296.0	516.0000	149.9511	0.0464	203.2672	25.2388	7.6136	123.3682	189.8384	273.6686	457.4553	374.1351	-284.7889	8.1058
5.2676	3.6541	2.1860	2.6728										
295.5	517.0000	151.4451	0.0468	203.7836	25.4930	7.4740	144.6085	221.4346	278.2986	389.5318	428.6452	-276.7316	6.9152
4.5160	3.5933	2.5672	2.3329										

295.0 513.0000 150.2591 0.0464 201.6596 25.2995
7.3400 125.6842 203.6032 310.1218 408.0719 495.2110 -
270.9569 7.9564 4.9115 3.2245 2.4505 2.0193
294.5 512.0000 151.5272 0.0469 202.4527 25.4747
7.2722 131.3290 199.2096 308.8382 385.6145 531.3288 -
262.6216 7.6145 5.0198 3.2379 2.5933 1.8821
294.0 510.0000 150.5834 0.0466 201.1853 25.3224
7.2260 150.7226 206.5724 330.3871 369.0937 534.6035 -
261.5275 6.6347 4.8409 3.0268 2.7093 1.8705
293.5 506.0000 150.8648 0.0467 201.5397 25.3711
7.2364 137.9061 189.1181 325.9776 409.2067 511.8268 -
268.9033 7.2513 5.2877 3.0677 2.4438 1.9538
293.0 506.0000 150.8517 0.0465 200.8756 25.4599
7.1434 109.2930 177.6592 298.2048 398.1004 439.7708 -
245.1992 9.1497 5.6288 3.3534 2.5119 2.2739
292.5 513.0000 151.1886 0.0469 201.4899 25.3993
7.1830 95.4556 147.0395 260.5976 431.0590 364.3033 -
235.6831 10.4761 6.8009 3.8373 2.3199 2.7450
292.0 509.0000 151.9308 0.0473 203.3201 25.4348
7.3384 93.4419 151.3223 255.0048 546.0184 415.0440 -
222.0113 10.7018 6.6084 3.9215 1.8314 2.4094
291.5 516.0000 154.1069 0.0481 206.7284 25.7460
7.5144 95.3139 162.8742 249.7398 610.9656 560.3133 -
235.3322 10.4917 6.1397 4.0042 1.6368 1.7847
291.0 514.0000 153.7501 0.0479 205.5134 25.7286
7.3918 102.1982 174.5443 283.6993 644.7128 664.0891 -
225.2980 9.7849 5.7292 3.5249 1.5511 1.5058
290.5 514.0000 154.2811 0.0481 205.6623 25.7761
7.3373 112.9244 186.2099 304.8997 618.2112 780.0413 -
220.3448 8.8555 5.3703 3.2798 1.6176 1.2820
290.0 507.0000 155.5706 0.0486 207.3420 25.9689
7.3930 119.1807 195.7451 319.3835 466.8354 778.5640 -
240.0821 8.3906 5.1087 3.1310 2.1421 1.2844
289.5 504.0000 155.8698 0.0487 207.3090 26.0073
7.3455 120.8723 207.3289 340.0720 467.4386 651.3416 -
253.2567 8.2732 4.8233 2.9406 2.1393 1.5353
289.0 502.0000 154.1177 0.0480 205.2722 25.7920
7.3049 110.8941 182.3873 369.9840 468.9907 645.2725 -
220.2514 9.0176 5.4828 2.7028 2.1322 1.5497
288.5 501.0000 154.6790 0.0483 205.6907 25.8192
7.2845 103.8768 170.7017 340.0913 419.8820 509.3035 -
151.4646 9.6268 5.8582 2.9404 2.3816 1.9635
288.0 503.0000 154.7518 0.0485 204.3439 25.7803
7.0818 94.2961 176.4065 300.7660 480.9610 465.3491 -
194.1307 10.6049 5.6687 3.3248 2.0792 2.1489
287.5 504.0000 156.5338 0.0490 205.6378 26.0909
7.0121 89.3130 159.2297 273.4703 527.5074 397.0100 -
203.0470 11.1966 6.2802 3.6567 1.8957 2.5188
287.0 506.0000 158.9067 0.0499 208.2959 26.4308
7.0528 81.3489 144.7159 233.2576 577.6383 364.9926 -
223.6471 12.2927 6.9101 4.2871 1.7312 2.7398
286.5 506.0000 155.6111 0.0486 204.3675 25.9665
6.9624 85.4612 140.2361 216.5896 606.2258 358.6748 -
219.0612 11.7012 7.1308 4.6170 1.6496 2.7880
286.0 516.0000 154.9237 0.0480 203.5651 26.0402
6.9460 92.2895 164.8182 250.7459 614.7173 467.7445 -
208.8881 10.8355 6.0673 3.9881 1.6268 2.1379

285.5	502.0000	153.9045	0.0476	202.1309	25.8811	6.8867	98.3594	163.4223	289.7561	605.9727	577.9269
-240.8741	10.1668	6.1191	3.4512	1.6502	1.7303						
285.0	505.0000	157.0335	0.0487	205.5036	26.3573	6.9215	104.6677	177.9734	324.9710	613.1801	649.6276
-258.6174	9.5540	5.6188	3.0772	1.6308	1.5393						
284.5	511.0000	156.7670	0.0488	205.2124	26.2541	6.9180	99.4935	168.7840	349.9835	624.8360	680.9442
-263.6827	10.0509	5.9247	2.8573	1.6004	1.4685						
284.0	500.0000	154.7125	0.0480	202.2616	25.9814	6.7900	107.8017	174.2622	359.3121	601.9061	646.7213
-264.2976	9.2763	5.7385	2.7831	1.6614	1.5463						
283.5	506.0000	156.2328	0.0485	203.7647	26.2305	6.7876	92.7642	160.9822	337.3977	551.7593	516.3510
-200.6803	10.7800	6.2119	2.9639	1.8124	1.9367						
283.0	506.0000	154.0498	0.0477	201.6069	25.9161	6.7912	83.2480	140.1922	287.1245	587.4678	479.4753
-218.4661	12.0123	7.1331	3.4828	1.7022	2.0856						
282.5	510.0000	155.2205	0.0481	204.3379	26.0787	7.0140	81.2271	140.7608	271.5239	531.4650	490.6136
-238.3695	12.3112	7.1043	3.6829	1.8816	2.0383						
282.0	522.0000	156.9845	0.0484	205.5875	26.4638	6.9405	79.4824	143.5007	235.8677	464.8042	467.2153
-222.7323	12.5814	6.9686	4.2397	2.1514	2.1403						
281.5	507.0000	156.3045	0.0479	204.1740	26.4943	6.8358	75.1951	130.1386	210.8832	445.9239	452.5379
-232.1805	13.2987	7.6841	4.7420	2.2425	2.2098						
281.0	509.0000	157.8726	0.0484	207.5928	26.7553	7.1001	74.1802	124.7969	189.1334	373.7966	449.2681
-238.2485	13.4807	8.0130	5.2873	2.6753	2.2258						
280.5	513.0000	157.3551	0.0479	206.9676	26.7919	7.0847	71.8522	134.9094	193.5054	376.1606	514.2867
-219.6049	13.9175	7.4124	5.1678	2.6584	1.9444						
280.0	521.0000	156.8515	0.0474	206.7574	26.8607	7.1266	78.0790	137.7905	207.6267	406.3860	633.0129
-193.4155	12.8075	7.2574	4.8163	2.4607	1.5797						
279.5	509.0000	157.9485	0.0475	208.2126	27.1434	7.1777	86.0346	146.0598	231.0844	438.5478	741.1658
-193.6946	11.6232	6.8465	4.3274	2.2803	1.3492						
279.0	506.0000	155.9253	0.0467	204.6232	26.8978	6.9541	92.8196	179.2140	297.6182	440.2894	820.1721
-225.2954	10.7736	5.5799	3.3600	2.2712	1.2193						
278.5	511.0000	155.9294	0.0468	204.7655	26.8694	6.9738	89.5407	157.1163	290.4867	537.9944	750.2745
-215.2392	11.1681	6.3647	3.4425	1.8588	1.3328						
278.0	516.0000	156.7480	0.0469	206.1474	27.0608	7.0542	92.9197	160.0796	293.4975	617.5452	611.7057
-198.0456	10.7620	6.2469	3.4072	1.6193	1.6348						
277.5	513.0000	158.3259	0.0474	210.1794	27.3345	7.4047	89.5037	156.8101	306.1714	682.4497	526.3814
-215.6123	11.1727	6.3771	3.2661	1.4653	1.8998						
277.0	509.0000	158.3834	0.0473	210.7542	27.3682	7.4786	89.7722	160.1548	285.9782	661.1654	403.9545
-234.2944	11.1393	6.2440	3.4968	1.5125	2.4755						
276.5	523.0000	159.3316	0.0475	213.2289	27.5770	7.6965	97.0924	179.3188	270.8357	723.3427	376.5260
-252.5060	10.2995	5.5767	3.6923	1.3825	2.6559						

276.0	525.0000	158.0152	0.0471	212.0836	27.3432	7.7210	91.5031	174.8773	276.5582	721.3277	390.5555	-244.5645	10.9286
5.7183	3.6159	1.3863	2.5605										
275.5	499.0000	162.9080	0.0494	217.8053	27.8269	7.8393	98.3944	190.3080	301.4399	701.0341	485.2307	-241.0403	10.1632
5.2546	3.3174	1.4265	2.0609										
275.0	516.0000	165.2217	0.0504	220.6166	28.0926	7.9104	107.2425	199.3977	330.2428	758.2209	571.3868	-220.9821	9.3247
5.0151	3.0281	1.3189	1.7501										
274.5	507.0000	164.9408	0.0505	220.1872	27.9751	7.8892	118.9712	225.9502	394.4841	704.2545	638.5223	-235.5817	8.4054
4.4258	2.5350	1.4199	1.5661										
274.0	515.0000	163.4949	0.0499	217.8092	27.7949	7.7561	122.3290	231.2397	500.5965	557.7418	546.5931	-247.6867	8.1747
4.3245	1.9976	1.7929	1.8295										
273.5	514.0000	165.0531	0.0505	219.7708	27.9972	7.8137	121.5479	228.8884	478.4654	613.9201	527.3815	-252.6633	8.2272
4.3689	2.0900	1.6289	1.8962										
273.0	518.0000	166.7421	0.0512	222.9623	28.2150	8.0283	112.9852	180.0011	452.1515	683.5164	594.5255	-267.4454	8.8507
5.5555	2.2116	1.4630	1.6820										
272.5	516.0000	165.5052	0.0506	220.9232	28.1149	7.9137	105.1272	174.0098	409.4680	675.1882	533.8963	-208.3807	9.5123
5.7468	2.4422	1.4811	1.8730										
272.0	516.0000	162.4331	0.0494	217.2870	27.6745	7.8331	95.4415	161.3730	369.3379	658.2593	487.4029	-205.0072	10.4776
6.1968	2.7075	1.5192	2.0517										
271.5	515.0000	161.6304	0.0489	215.3702	27.6825	7.6741	94.2224	153.0523	296.5024	565.7031	392.5493	-204.3170	10.6132
6.5337	3.3727	1.7677	2.5475										
271.0	511.0000	159.8330	0.0481	213.4361	27.4795	7.6545	95.4004	169.9079	302.0991	585.5228	441.4910	-199.0059	10.4821
5.8855	3.3102	1.7079	2.2651										
270.5	511.0000	162.2430	0.0487	217.1026	27.9322	7.8340	91.2162	164.3724	282.8264	581.6850	452.2498	-207.3235	10.9630
6.0837	3.5357	1.7191	2.2112										
270.0	515.0000	161.8360	0.0484	216.2682	27.9531	7.7729	86.0223	179.7555	289.4116	534.3702	469.8123	-238.4183	11.6249
5.5631	3.4553	1.8714	2.1285										
269.5	502.0000	161.9535	0.0483	217.2080	28.0354	7.8903	96.0571	169.5788	277.4811	488.4160	485.3267	-236.9567	10.4105
5.8970	3.6038	2.0474	2.0605										
269.0	506.0000	163.6174	0.0489	219.6071	28.2510	7.9953	86.8252	150.4809	256.3009	460.2290	496.9928	-237.5079	11.5174
6.6454	3.9017	2.1728	2.0121										
268.5	507.0000	162.3841	0.0484	218.0805	28.1041	7.9535	76.4669	141.6624	233.8025	409.2220	472.0233	-258.7121	13.0776
7.0590	4.2771	2.4437	2.1185										
268.0	512.0000	162.4884	0.0481	216.4222	28.2919	7.7018	76.3109	129.4826	225.6611	392.9808	486.2115	-240.0611	13.1043
7.7230	4.4314	2.5447	2.0567										
267.5	523.0000	161.3840	0.0475	215.0272	28.1920	7.6603	78.9059	131.5905	214.1010	385.5015	490.4597	-242.0596	12.6733
7.5993	4.6707	2.5940	2.0389										
267.0	520.0000	164.1429	0.0484	218.8793	28.6457	7.8164	71.6054	123.7704	203.1597	372.7984	509.9829	-271.4173	13.9654
8.0795	4.9222	2.6824	1.9609										

266.5	514.0000	163.5992	0.0482	218.3658	28.5636	7.8207	70.4442	118.4838	186.2643	426.5920	517.6223
-271.4280	14.1956	8.4400	5.3687	2.3442	1.9319						
266.0	511.0000	168.5718	0.0501	224.7401	29.2297	8.0209	75.3418	133.3343	212.6469	431.0406	536.7741
-185.2317	13.2728	7.4999	4.7026	2.3200	1.8630						
265.5	509.0000	170.8350	0.0511	228.4542	29.4955	8.2280	76.2679	139.7242	233.3034	458.4332	556.2739
-224.2284	13.1117	7.1570	4.2863	2.1813	1.7977						
265.0	516.0000	171.3860	0.0514	229.7021	29.5529	8.3275	79.4686	153.8251	262.5979	605.2762	669.0273
-253.6025	12.5836	6.5009	3.8081	1.6521	1.4947						
264.5	499.0000	167.1768	0.0498	224.2034	28.9534	8.1434	79.5993	146.6163	277.3190	606.8762	624.3383
-279.0074	12.5629	6.8205	3.6060	1.6478	1.6017						
264.0	516.0000	166.5353	0.0496	223.6908	28.8540	8.1618	85.1131	147.1772	272.5622	571.2630	539.6677
-301.4485	11.7491	6.7945	3.6689	1.7505	1.8530						
263.5	506.0000	168.0705	0.0501	225.8305	29.0865	8.2481	81.0244	149.2699	263.6350	541.7270	477.0866
-321.2659	12.3420	6.6993	3.7931	1.8459	2.0961						
263.0	518.0000	168.2942	0.0502	226.2987	29.1392	8.2831	80.9118	149.0340	242.0133	482.1252	410.6022
-337.8023	12.3591	6.7099	4.1320	2.0742	2.4354						
262.5	513.0000	169.2781	0.0505	227.0619	29.3016	8.2515	74.2639	138.0287	237.0597	459.9448	380.8348
-352.4941	13.4655	7.2449	4.2183	2.1742	2.6258						
262.0	511.0000	171.6389	0.0512	230.2146	29.6933	8.3646	72.0428	130.0608	227.2741	454.0364	393.6390
-365.9108	13.8806	7.6887	4.4000	2.2025	2.5404						
261.5	523.0000	171.8312	0.0512	230.0634	29.7776	8.3156	77.9637	129.6706	217.3460	474.4080	397.9812
-377.7654	12.8265	7.7118	4.6010	2.1079	2.5127						
261.0	499.0000	171.9051	0.0510	229.2752	29.8513	8.1925	69.8755	123.4017	199.4822	445.1453	406.2262
-388.3980	14.3112	8.1036	5.0130	2.2465	2.4617						
260.5	501.0000	172.7031	0.0513	230.8970	29.9959	8.3101	70.2770	130.5509	205.1472	489.2950	479.3510
-397.6813	14.2294	7.6598	4.8745	2.0438	2.0862						
260.0	513.0000	170.4036	0.0503	228.5367	29.6962	8.3014	81.0646	139.8695	220.3762	514.6778	570.1395
-405.9174	12.3358	7.1495	4.5377	1.9430	1.7540						
259.5	501.0000	172.5688	0.0511	231.9765	30.0083	8.4834	88.7327	151.2473	250.2904	536.2095	657.1604
-413.2874	11.2698	6.6117	3.9954	1.8649	1.5217						
259.0	515.0000	166.0308	0.0486	221.6349	29.1359	7.9403	89.5359	157.4737	295.3122	455.2203	642.6745
-419.7306	11.1687	6.3503	3.3862	2.1967	1.5560						
258.5	506.0000	167.7163	0.0493	224.6532	29.3342	8.1306	89.0523	168.4681	297.5172	566.2367	670.7131
-425.1574	11.2294	5.9358	3.3612	1.7660	1.4910						
258.0	515.0000	168.4073	0.0498	226.4609	29.3313	8.2901	85.1207	140.7086	304.7308	578.3584	638.5661
-429.9683	11.7480	7.1069	3.2816	1.7290	1.5660						
257.5	520.0000	168.2415	0.0499	226.7537	29.2452	8.3555	76.2411	137.1602	272.0964	530.2040	521.9127
-434.3674	13.1163	7.2907	3.6752	1.8861	1.9160						

257.0	498.0000	167.5009	0.0495	225.9011	29.1898	8.3396	77.3192	137.0170	240.3053	490.0161	431.1572
-438.2690	12.9334	7.2984	4.1614	2.0407	2.3193						
256.5	509.0000	165.7603	0.0488	223.5863	28.9731	8.2576	72.5411	121.3498	209.4716	452.4901	364.0098
-441.6703	13.7853	8.2406	4.7739	2.2100	2.7472						
256.0	517.0000	164.6595	0.0482	221.7661	28.8867	8.1548	72.2573	119.4242	191.6786	394.0965	344.2878
-444.8904	13.8394	8.3735	5.2171	2.5374	2.9045						
255.5	506.0000	165.8356	0.0485	222.6495	29.1008	8.1130	71.5922	120.1863	185.7749	380.2906	366.5031
-447.6942	13.9680	8.3204	5.3829	2.6296	2.7285						
255.0	504.0000	165.2729	0.0484	222.4999	28.9845	8.1720	72.3456	120.8677	188.9069	390.5009	430.8751
-450.0539	13.8225	8.2735	5.2936	2.5608	2.3209						
254.5	510.0000	163.7235	0.0478	218.7657	28.7803	7.8600	73.7265	126.1718	195.8718	421.1801	515.4199
-452.3151	13.5636	7.9257	5.1054	2.3743	1.9402						
254.0	516.0000	162.8431	0.0475	217.0772	28.6499	7.7446	73.7756	129.0444	205.3866	454.8296	603.6005
-454.1685	13.5546	7.7493	4.8689	2.1986	1.6567						
253.5	512.0000	162.2787	0.0473	216.7973	28.5464	7.7853	73.9032	129.3613	212.5063	502.5443	655.7445
-455.7799	13.5312	7.7303	4.7057	1.9899	1.5250						
253.0	520.0000	163.2232	0.0477	217.2715	28.6610	7.7181	73.9948	130.9210	226.3151	539.3199	623.0097
-457.2499	13.5145	7.6382	4.4186	1.8542	1.6051						
252.5	509.0000	163.3297	0.0479	216.7605	28.6244	7.6299	74.1918	134.3683	229.9955	514.6374	627.7870
-458.4612	13.4786	7.4422	4.3479	1.9431	1.5929						
252.0	518.0000	162.5890	0.0478	216.1079	28.4480	7.6425	74.5052	137.8800	240.8997	561.2631	608.4942
-459.8182	13.4219	7.2527	4.1511	1.7817	1.6434						
251.5	514.0000	159.9942	0.0470	210.6933	27.9856	7.2398	71.1279	132.8740	230.6116	517.4564	556.9918
-461.1554	14.0592	7.5259	4.3363	1.9325	1.7954						
251.0	512.0000	161.7572	0.0477	213.2338	28.2158	7.3509	71.4187	128.1028	210.5605	483.6386	507.3252
-461.2693	14.0019	7.8062	4.7492	2.0677	1.9711						
250.5	517.0000	161.1623	0.0477	213.1192	28.0495	7.4195	68.8569	117.4803	191.1116	430.8460	443.1520
-450.9816	14.5229	8.5121	5.2325	2.3210	2.2566						
250.0	520.0000	163.7440	0.0488	216.0805	28.3599	7.4737	62.8074	109.6116	176.7108	426.5919	421.2776
-435.7968	15.9217	9.1231	5.6590	2.3442	2.3737						
249.5	505.0000	161.4568	0.0483	212.5177	27.8961	7.2915	70.9764	120.3256	193.1414	529.4731	508.9704
-423.2914	14.0892	8.3108	5.1776	1.8887	1.9648						
249.0	523.0000	160.3826	0.0482	210.7689	27.6166	7.1952	78.4370	136.5352	224.8002	576.0475	659.1495
-401.9688	12.7491	7.3241	4.4484	1.7360	1.5171						
248.5	509.0000	162.5793	0.0492	214.2373	27.8416	7.3768	83.4687	158.1104	273.5022	600.4265	796.9698
-381.9840	11.9805	6.3247	3.6563	1.6655	1.2548						
248.0	520.0000	162.9176	0.0494	214.4000	27.8496	7.3517	81.4621	155.2397	261.0779	633.2648	837.0266
-353.8701	12.2756	6.4416	3.8303	1.5791	1.1947						

247.5	509.0000	165.6613	0.0502	216.4421	28.3122	7.2515	83.3037	143.1345	275.7666	692.3218	778.8651	-339.2496	12.0043
6.9864	3.6263	1.4444	1.2839										
247.0	494.0000	164.5543	0.0498	214.8870	28.1480	7.1875	81.8867	135.9308	297.0995	696.7896	690.4541	-350.5370	12.2120
7.3567	3.3659	1.4352	1.4483										
246.5	513.0000	162.1321	0.0489	210.7483	27.8192	6.9424	79.9624	144.7306	301.5128	635.3143	547.3381	-360.5287	12.5059
6.9094	3.3166	1.5740	1.8270										
246.0	502.0000	162.0935	0.0489	210.0359	27.8282	6.8462	78.2217	146.8424	280.2219	687.9384	547.9895	-369.3319	12.7842
6.8100	3.5686	1.4536	1.8249										
245.5	506.0000	161.2344	0.0486	208.6627	27.6937	6.7728	77.3947	139.7485	271.5117	703.6129	566.0063	-377.3915	12.9208
7.1557	3.6831	1.4212	1.7668										
245.0	517.0000	158.8102	0.0479	206.0833	27.2425	6.7506	79.5820	141.3863	273.5700	615.3051	549.8682	-385.0009	12.5657
7.0728	3.6554	1.6252	1.8186										
244.5	511.0000	160.8708	0.0488	209.5338	27.4716	6.9491	82.7456	145.2201	258.9875	585.8253	568.2846	-391.6503	12.0852
6.8861	3.8612	1.7070	1.7597										
244.0	516.0000	162.1066	0.0493	211.1111	27.6602	6.9978	85.0336	148.3020	256.7597	511.9033	559.4069	-397.6293	11.7601
6.7430	3.8947	1.9535	1.7876										
243.5	502.0000	160.2979	0.0487	208.6671	27.3523	6.9071	84.6634	142.7907	245.3845	373.6726	464.7749	-403.1036	11.8115
7.0033	4.0752	2.6761	2.1516										
243.0	522.0000	159.8242	0.0487	207.4980	27.2037	6.8078	82.3695	137.5413	226.4267	416.6425	541.3062	-407.9867	12.1404
7.2705	4.4164	2.4001	1.8474										
242.5	503.0000	158.5684	0.0484	205.8841	26.9652	6.7567	78.5393	128.1023	224.0072	401.5982	556.8583	-412.3632	12.7325
7.8063	4.4641	2.4901	1.7958										
242.0	501.0000	149.5599	0.0463	188.6557	25.1639	5.5829	74.8497	117.8943	220.6096	366.8985	555.8467	-415.6977	13.3601
8.4822	4.5329	2.7255	1.7991										
241.5	500.0000	151.8309	0.0471	191.7291	25.5065	5.6975	71.3930	112.1907	198.6583	468.5194	533.8731	-412.2718	14.0070
8.9134	5.0338	2.1344	1.8731										
241.0	498.0000	151.8012	0.0472	192.8856	25.4479	5.8669	67.4532	110.2629	192.6843	598.8657	533.5254	-403.5077	14.8251
9.0692	5.1898	1.6698	1.8743										
240.5	505.0000	149.6438	0.0465	191.0415	25.1062	5.9116	72.3463	114.8638	196.3222	787.4160	597.3951	-405.1599	13.8224
8.7060	5.0937	1.2700	1.6739										
240.0	509.0000	148.9636	0.0462	190.0355	25.0204	5.8651	82.6508	134.6660	253.6432	1012.7462	804.7254	-406.3683	12.0991
7.4258	3.9425	0.9874	1.2427										
239.5	506.0000	148.3401	0.0459	189.4388	24.9364	5.8689	90.0672	170.1600	294.5833	1237.4231	986.5347	-393.7851	11.1028
5.8768	3.3946	0.8081	1.0136										
239.0	511.0000	148.5473	0.0459	189.4371	25.0268	5.8391	96.9637	198.7995	360.3639	1327.9746	1184.5404	-359.9592	10.3131
5.0302	2.7750	0.7530	0.8442										
238.5	509.0000	147.6791	0.0454	188.2056	24.9808	5.7872	111.7615	232.9067	475.6014	1266.4501	1171.5414	-343.7198	8.9476
4.2936	2.1026	0.7896	0.8536										

238.0 499.0000 150.4810 0.0461 191.5426 25.5240
5.8636 138.1827 259.2038 823.5447 838.8130 1019.2998 -
334.1887 7.2368 3.8580 1.2143 1.1922 0.9811
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6.0202 158.7961 244.9521 543.5598 710.3489 584.0566 -
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317.2849 9.5572 5.1267 2.5692 1.0425 1.1871
224.5 506.0000 142.5720 0.0434 184.6280 24.2861
6.0056 101.1366 171.3510 359.0435 1005.9668 880.0986 -
332.5300 9.8876 5.8360 2.7852 0.9941 1.1362
224.0 506.0000 140.4136 0.0428 180.5996 23.9155
5.7386 104.0629 182.5629 436.8579 949.1910 915.2280 -
346.1768 9.6096 5.4776 2.2891 1.0535 1.0926
223.5 507.0000 138.9444 0.0425 178.1248 23.5821
5.5950 113.0360 204.8927 482.5054 844.7759 909.8113 -
357.9887 8.8467 4.8806 2.0725 1.1837 1.0991
223.0 489.0000 138.6335 0.0428 178.8742 23.3816
5.7464 117.5674 223.1260 552.7800 838.2288 851.1782 -
367.5042 8.5058 4.4818 1.8090 1.1930 1.1748
222.5 500.0000 136.0805 0.0422 175.3417 22.8314
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367.8802 7.6860 3.7564 1.6781 1.2121 1.2857
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5.1866 124.3285 203.6731 374.9719 529.0369 434.6192 -
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220.5 500.0000 131.0168 0.0411 166.6324 21.8178
5.0859 125.9148 213.1693 351.2905 484.0422 420.3744 -
365.2304 7.9419 4.6911 2.8466 2.0659 2.3788
220.0 511.0000 127.8806 0.0399 162.4889 21.3673
4.9421 119.5353 207.8833 318.2583 407.2627 367.7314 -
356.9313 8.3657 4.8104 3.1421 2.4554 2.7194
219.5 495.0000 126.3130 0.0396 160.6761 21.0275
4.9071 123.1231 210.6587 287.5874 367.1683 336.6057 -
235.0287 8.1220 4.7470 3.4772 2.7235 2.9708

219.0	502.0000	127.7114	0.0403	162.7310	21.1507	5.0008	130.9875	227.7116	289.6364	352.3988	337.5454	-207.4903	7.6343
4.3915	3.4526	2.8377	2.9626										
218.5	512.0000	126.1215	0.0398	161.1094	20.8591	4.9963	136.6100	240.3956	314.4807	383.7609	373.9951	-217.9609	7.3201
4.1598	3.1798	2.6058	2.6738										
218.0	498.0000	127.8328	0.0406	163.0959	21.0398	5.0356	137.5869	261.0383	336.7215	432.8409	416.4250	-228.3961	7.2681
3.8309	2.9698	2.3103	2.4014										
217.5	506.0000	127.7367	0.0407	163.3878	20.9645	5.0910	139.4830	279.6571	371.9903	495.6500	489.0762	-230.9908	7.1693
3.5758	2.6882	2.0176	2.0447										
217.0	501.0000	128.5095	0.0412	164.6074	20.9961	5.1548	142.9964	268.1231	400.7941	578.7251	582.6708	-235.7855	6.9932
3.7296	2.4950	1.7279	1.7162										
216.5	495.0000	125.6382	0.0402	160.9436	20.5781	5.0416	143.9137	265.0452	405.4302	684.5062	710.0825	-239.3558	6.9486
3.7729	2.4665	1.4609	1.4083										
216.0	504.0000	123.2544	0.0392	158.0163	20.2705	4.9640	139.1427	294.0214	422.8587	763.8104	853.3989	-238.6879	7.1869
3.4011	2.3649	1.3092	1.1718										
215.5	494.0000	121.8026	0.0386	156.0372	20.0937	4.8887	134.3399	298.0835	420.3457	796.2315	1072.6102	-240.9443	7.4438
3.3548	2.3790	1.2559	0.9323										
215.0	509.0000	124.3283	0.0396	159.3797	20.4424	5.0053	135.1966	286.4904	385.7850	749.7344	1199.0022	-247.3128	7.3966
3.4905	2.5921	1.3338	0.8340										
214.5	499.0000	127.0046	0.0403	162.3727	20.9175	5.0506	119.5005	251.6980	330.7351	647.9431	1246.9711	-252.2249	8.3682
3.9730	3.0236	1.5433	0.8019										
214.0	499.0000	127.4022	0.0405	163.3771	20.9680	5.1372	108.1923	232.0691	297.1832	603.2126	1140.6028	-245.9750	9.2428
4.3091	3.3649	1.6578	0.8767										
213.5	506.0000	127.3820	0.0405	163.1402	20.9543	5.1063	102.1213	197.2249	250.0947	598.7422	997.2549	-201.2777	9.7923
5.0704	3.9985	1.6702	1.0028										
213.0	500.0000	124.4108	0.0396	157.7503	20.4362	4.7609	103.4646	192.4773	265.5223	538.2197	902.0195	-235.5809	9.6651
5.1954	3.7662	1.8580	1.1086										
212.5	511.0000	128.1413	0.0409	162.0538	20.9969	4.8427	109.5596	211.7808	317.1544	659.3970	1140.1095	-243.3816	9.1275
4.7219	3.1530	1.5165	0.8771										
212.0	489.0000	129.2129	0.0411	162.5349	21.2475	4.7584	118.1655	248.5831	417.1601	659.8331	1044.7518	-255.8581	8.4627
4.0228	2.3972	1.5155	0.9572										
211.5	493.0000	132.6140	0.0427	167.6338	21.6036	5.0008	116.1357	200.1615	352.5547	565.2336	852.2210	-257.1769	8.6106
4.9960	2.8364	1.7692	1.1734										
211.0	504.0000	130.8068	0.0419	166.0369	21.3786	5.0309	97.1902	186.1033	321.0698	443.5040	701.1642	-283.0516	10.2891
5.3734	3.1146	2.2548	1.4262										
210.5	501.0000	128.6173	0.0411	163.3865	21.0778	4.9651	91.1020	165.2363	277.6123	412.2706	526.5719	-266.8270	10.9767
6.0519	3.6021	2.4256	1.8991										
210.0	503.0000	128.3593	0.0411	163.1882	20.9878	4.9736	85.7866	164.4961	272.6900	422.8925	476.4450	-260.7924	11.6568
6.0792	3.6672	2.3647	2.0989										

209.5	499.0000	129.0963	0.0416	164.0396	21.0129	4.9899	80.3821	165.7691	260.2929	421.5082	413.5618	-252.8869	12.4406
6.0325	3.8418	2.3724	2.4180										
209.0	496.0000	130.9645	0.0422	165.6528	21.2848	4.9535	76.1369	145.8660	216.8203	407.2996	438.8897	-246.1617	13.1342
6.8556	4.6121	2.4552	2.2785										
208.5	491.0000	132.6759	0.0429	167.9735	21.5360	5.0405	71.4405	130.5862	192.0963	414.2775	473.5465	-239.2023	13.9977
7.6578	5.2057	2.4138	2.1117										
208.0	495.0000	133.4092	0.0432	168.8561	21.6007	5.0618	77.6810	142.2880	203.8550	583.7673	639.7465	-234.0977	12.8732
7.0280	4.9054	1.7130	1.5631										
207.5	503.0000	133.0546	0.0434	168.1941	21.4291	5.0179	89.0346	154.7270	251.5781	692.8560	787.4512	-220.5416	11.2316
6.4630	3.9749	1.4433	1.2699										
207.0	492.0000	133.9822	0.0439	169.2033	21.4882	5.0296	101.1449	193.5799	292.5219	812.4485	937.0688	-227.0297	9.8868
5.1658	3.4185	1.2308	1.0672										
206.5	488.0000	135.2562	0.0447	170.8898	21.5179	5.0885	118.7356	231.4243	379.0576	1176.0377	1291.9088	-238.5549	8.4221
4.3211	2.6381	0.8503	0.7740										
206.0	503.0000	137.7377	0.0459	174.2491	21.7621	5.2138	135.5029	249.7736	537.8264	1422.9150	1384.2853	-244.1320	7.3799
4.0036	1.8593	0.7028	0.7224										
205.5	500.0000	139.3659	0.0466	177.0355	21.9256	5.3792	138.3141	335.4337	700.6833	1631.8073	1353.9401	-272.0087	7.2299
2.9812	1.4272	0.6128	0.7386										
205.0	501.0000	139.6519	0.0469	176.6314	21.8894	5.2807	143.0929	370.9276	897.3317	1745.8792	1218.1960	-294.1759	6.9885
2.6959	1.1144	0.5728	0.8209										
204.5	492.0000	142.8065	0.0480	180.3297	22.3543	5.3583	149.4458	400.9967	946.9650	1767.4484	960.0907	-313.3037	6.6914
2.4938	1.0560	0.5658	1.0416										
204.0	495.0000	144.6746	0.0491	182.5755	22.4749	5.4123	152.5778	349.1037	839.7230	1743.2878	915.4356	-325.0436	6.5540
2.8645	1.1909	0.5736	1.0924										
203.5	480.0000	146.8211	0.0502	184.8318	22.6232	5.4279	160.6058	354.5361	770.3658	1633.1624	740.3394	-329.3837	6.2264
2.8206	1.2981	0.6123	1.3507										
203.0	496.0000	147.4330	0.0507	184.1019	22.6083	5.2363	162.7094	309.3711	689.0546	1706.8572	668.1887	-331.0750	6.1459
3.2324	1.4513	0.5859	1.4966										
202.5	495.0000	147.0548	0.0507	182.7917	22.4970	5.1032	166.4471	318.0452	703.8569	1720.8019	765.0259	-333.5746	6.0079
3.1442	1.4207	0.5811	1.3071										
202.0	487.0000	147.0053	0.0510	182.8797	22.3370	5.1229	179.8301	346.0808	812.9441	1723.6489	720.0833	-332.8574	5.5608
2.8895	1.2301	0.5802	1.3887										
201.5	500.0000	145.2260	0.0509	180.1984	21.8488	4.9941	177.2542	420.6898	918.6888	1768.7003	741.8641	-333.2373	5.6416
2.3770	1.0885	0.5654	1.3480										
201.0	479.0000	145.0827	0.0511	178.4525	21.7111	4.7652	181.9943	400.6957	977.5970	1681.5352	740.9153	-332.1493	5.4947
2.4957	1.0229	0.5947	1.3497										
200.5	499.0000	145.8273	0.0518	179.3907	21.6338	4.7929	193.0951	453.5207	1116.6866	1703.5970	812.2249	-327.8125	5.1788
2.2050	0.8955	0.5870	1.2312										

200.0	500.0000	145.2996	0.0519	178.1381	21.4402	4.6894	198.1323	510.2608	1232.6273	1677.1405	919.5275	-322.4957	5.0471	1.9598	0.8113	0.5963	1.0875
199.5	492.0000	146.2059	0.0525	179.7444	21.4562	4.7893	202.2995	565.9499	1342.9445	1599.0391	982.0097	-319.1734	4.9432	1.7669	0.7446	0.6254	1.0183
199.0	484.0000	145.3777	0.0522	178.1779	21.3149	4.6839	199.4899	558.2744	1392.1168	1462.7664	1244.8077	-315.3452	5.0128	1.7912	0.7183	0.6836	0.8033
198.5	495.0000	149.0033	0.0535	183.3943	21.8606	4.9110	188.0697	484.3530	1189.9814	1246.0763	1247.9153	-309.5924	5.3172	2.0646	0.8403	0.8025	0.8013
198.0	483.0000	146.9822	0.0528	180.7219	21.5530	4.8180	165.8918	414.0903	860.6943	779.0361	959.7629	-297.6356	6.0280	2.4149	1.1619	1.2836	1.0419
197.5	499.0000	149.0382	0.0537	183.4578	21.8088	4.9151	135.4876	265.6248	549.9718	625.3453	788.4750	-292.5257	7.3808	3.7647	1.8183	1.5991	1.2683
197.0	499.0000	149.5902	0.0539	184.3123	21.8652	4.9583	113.6860	205.2217	408.2044	573.6336	748.3586	-280.2149	8.7962	4.8728	2.4498	1.7433	1.3363
196.5	495.0000	148.7552	0.0537	182.2950	21.7192	4.7895	102.2547	186.0842	361.1409	474.4410	611.0953	-239.8084	9.7795	5.3739	2.7690	2.1077	1.6364
196.0	491.0000	147.2481	0.0531	179.6636	21.5102	4.6289	93.7367	171.1274	308.4716	454.9221	620.9293	-241.8543	10.6682	5.8436	3.2418	2.1982	1.6105
195.5	491.0000	147.2931	0.0531	179.4689	21.5073	4.5947	87.9685	160.5403	266.3722	520.2390	769.4360	-236.3646	11.3677	6.2290	3.7541	1.9222	1.2997
195.0	500.0000	148.3322	0.0537	180.4587	21.5840	4.5877	80.7287	142.2411	238.8927	484.2259	742.2910	-209.3779	12.3872	7.0303	4.1860	2.0652	1.3472
194.5	510.0000	149.1024	0.0540	180.3766	21.6598	4.4660	76.8503	133.4930	211.3711	458.7040	744.4208	-201.6975	13.0123	7.4910	4.7310	2.1801	1.3433
194.0	502.0000	155.7347	0.0573	189.4935	22.2683	4.8208	75.1336	122.6375	185.4228	430.1273	689.6334	-204.0571	13.3096	8.1541	5.3931	2.3249	1.4500
193.5	498.0000	146.0555	0.0505	172.7774	22.2572	3.8159	73.6488	122.5646	183.0853	441.9406	723.5107	-180.0109	13.5780	8.1590	5.4619	2.2627	1.3821
193.0	500.0000	146.7200	0.0508	174.9999	22.3567	4.0384	72.1413	125.5072	189.3300	483.5547	859.3747	-182.9290	13.8617	7.9677	5.2818	2.0680	1.1636
192.5	501.0000	146.8047	0.0511	176.5924	22.2399	4.2537	73.0626	130.6152	204.2802	563.6714	962.2692	-196.1259	13.6869	7.6561	4.8952	1.7741	1.0392
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191.5	501.0000	148.4185	0.0521	179.2360	22.2962	4.4007	74.4193	141.6217	236.0518	747.8502	1081.8594	-209.2790	13.4374	7.0611	4.2364	1.3372	0.9243
191.0	488.0000	151.0978	0.0530	182.8195	22.7169	4.5299	76.6021	149.2646	270.9250	851.8373	1091.9065	-232.9591	13.0545	6.6995	3.6911	1.1739	0.9158

190.5 491.0000 147.9610 0.0517 179.1508 22.3389
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5.3480 124.4391 218.1104 382.2058 930.7405 986.9705 -
353.2368 8.0361 4.5848 2.6164 1.0744 1.0132
178.0 485.0000 152.2551 0.0489 188.3888 24.8256
5.1599 140.7417 258.3584 521.9216 973.1281 1010.8763 -
366.3622 7.1052 3.8706 1.9160 1.0276 0.9892
177.5 490.0000 154.5172 0.0495 191.1011 25.2488
5.2242 153.6259 293.0965 650.3066 1125.5439 931.1097 -
378.0504 6.5093 3.4118 1.5377 0.8885 1.0740
177.0 491.0000 154.3377 0.0493 191.6157 25.2920
5.3233 168.5136 308.2454 747.9252 1220.8193 747.3113 -
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176.5 490.0000 154.4496 0.0494 193.0343 25.2795
5.5099 172.6914 302.1982 734.4037 1160.8103 598.8951 -
397.6535 5.7907 3.3091 1.3616 0.8615 1.6697
176.0 488.0000 156.2237 0.0500 194.7639 25.5424
5.5036 170.6657 266.5800 608.0164 955.9391 477.6424 -
405.5339 5.8594 3.7512 1.6447 1.0461 2.0936
175.5 491.0000 159.7910 0.0515 198.8395 26.0081
5.5761 168.2100 239.3490 520.1884 758.1659 388.9919 -
412.2367 5.9449 4.1780 1.9224 1.3190 2.5707
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423.6772 5.7236 4.7322 2.5727 2.0147 3.1429
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4.8805 170.4349 216.1530 371.1238 470.2849 369.9477 -
422.8954 5.8673 4.6264 2.6945 2.1264 2.7031
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5.0665 240.5527 568.0164 746.4954 771.4822 582.9987 -
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168.0 480.0000 160.6061 0.0530 196.7307 25.5985
5.1586 88.9682 153.4246 174.4717 318.6007 382.5240 -
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167.5 484.0000 161.1908 0.0531 196.2954 25.7044
5.0129 95.8389 151.7285 194.1730 349.8470 468.5513 -
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4.9037 101.7340 158.9314 219.8533 385.4564 563.8556 -
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5.0428 97.4023 163.5667 241.3220 263.8238 452.5666 -
330.5429 10.2667 6.1137 4.1438 3.7904 2.2096
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5.2305 92.6960 169.8109 213.8849 404.5932 651.0123 -
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5.2540 84.8785 138.9582 228.3773 426.9837 646.7076 -
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244.4089 13.6265 8.0097 5.0444 2.6496 1.8550
164.0 472.0000 160.6100 0.0528 197.1590 25.6878
5.2192 67.3211 115.8635 182.4642 350.6048 505.1135 -
249.8745 14.8542 8.6308 5.4805 2.8522 1.9798
163.5 477.0000 161.6185 0.0529 197.6705 25.9499
5.1482 67.7349 116.0998 181.3780 334.9430 524.6211 -
270.8799 14.7634 8.6133 5.5133 2.9856 1.9061
163.0 479.0000 160.5924 0.0525 197.3730 25.7927
5.2523 69.1963 118.6972 184.1525 348.2598 566.3726 -
293.0486 14.4516 8.4248 5.4303 2.8714 1.7656
162.5 480.0000 161.9915 0.0533 201.0022 25.8685
5.5707 72.3575 123.2764 190.9855 370.0148 589.8256 -
306.1065 13.8203 8.1119 5.2360 2.7026 1.6954

162.0	478.0000	158.5085	0.0523	197.2468	25.2582	5.5318	73.4595	120.5743	187.6716	387.6311	596.3419	-322.4688	13.6129	8.2936
5.3285	2.5798	1.6769												
161.5	488.0000	156.1652	0.0518	193.5680	24.7556	5.3411	68.2220	118.1601	189.7831	422.4293	568.2478	-339.4149	14.6580	8.4631
5.2692	2.3673	1.7598												
161.0	469.0000	154.2603	0.0515	191.2361	24.3181	5.2802	65.1390	111.5067	182.8260	471.6160	545.8693	-354.1430	15.3518	8.9681
5.4697	2.1204	1.8319												
160.5	478.0000	155.7711	0.0523	193.2231	24.4358	5.3481	67.4295	119.3411	195.0535	596.1522	659.1055	-367.4816	14.8303	8.3793
5.1268	1.6774	1.5172												
160.0	481.0000	154.9437	0.0521	191.0826	24.2808	5.1607	72.2314	135.3102	227.2776	684.2292	758.7248	-379.0744	13.8444	7.3904
4.3999	1.4615	1.3180												
159.5	471.0000	154.9589	0.0522	190.3064	24.2279	5.0476	79.9265	150.0542	265.0582	776.8069	868.7781	-389.4980	12.5115	6.6643
3.7728	1.2873	1.1510												
159.0	474.0000	155.7130	0.0526	191.3919	24.3022	5.0950	91.3628	168.7577	313.7043	801.1412	922.7082	-398.5774	10.9454	5.9257
3.1877	1.2482	1.0838												
158.5	468.0000	156.3599	0.0529	192.5831	24.3599	5.1727	93.3341	192.2729	387.1000	812.4535	937.8102	-406.3863	10.7142	5.2009
2.5833	1.2308	1.0663												
158.0	474.0000	154.3862	0.0519	188.9882	24.1905	4.9412	90.1963	169.8183	339.5431	695.0374	711.9114	-413.4018	11.0869	5.8886
2.9451	1.4388	1.4047												
157.5	482.0000	154.4917	0.0519	189.5527	24.2266	5.0067	82.5090	153.2052	345.7378	740.1974	746.1238	-419.5734	12.1199	6.5272
2.8924	1.3510	1.3403												
157.0	487.0000	157.0431	0.0528	193.2512	24.6014	5.1705	80.0923	136.2200	303.8461	691.7374	671.6278	-425.0090	12.4856	7.3411
3.2911	1.4456	1.4889												
156.5	481.0000	156.4085	0.0526	192.7861	24.5024	5.1947	76.9054	136.1039	258.6282	648.6171	583.5144	-430.0339	13.0030	7.3473
3.8666	1.5417	1.7138												
156.0	487.0000	153.9896	0.0516	189.7871	24.1881	5.1119	72.0045	120.5183	224.8723	587.4870	502.4305	-434.4926	13.8880	8.2975
4.4470	1.7022	1.9903												
155.5	483.0000	155.8816	0.0524	192.9651	24.4331	5.2955	70.7308	115.5378	200.1527	517.3036	470.9336	-438.5890	14.1381	8.6552
4.9962	1.9331	2.1234												
155.0	485.0000	155.7111	0.0523	192.0712	24.4219	5.1922	71.1860	119.2157	194.9835	467.2773	507.7074	-441.9276	14.0477	8.3882
5.1286	2.1401	1.9696												
154.5	489.0000	154.5011	0.0519	190.1450	24.2384	5.0900	70.7229	122.3251	198.4921	456.1015	583.3439	-445.1211	14.1397	8.1749
5.0380	2.1925	1.7143												
154.0	477.0000	154.2348	0.0520	191.0880	24.1123	5.2626	71.1932	124.5648	205.5553	466.0381	676.8585	-447.7276	14.0463	8.0279
4.8649	2.1457	1.4774												
153.5	478.0000	158.1539	0.0533	196.8326	24.7176	5.5233	70.8218	128.3628	218.1823	496.1669	773.3787	-449.7524	14.1200	7.7904
4.5833	2.0155	1.2930												
153.0	474.0000	159.6218	0.0540	198.6276	24.8700	5.5700	70.9595	128.5597	227.1423	546.7012	829.0127	-452.0072	14.0925	7.7785
4.4025	1.8292	1.2063												

152.5	476.0000	160.2112	0.0542	198.7530	24.9537	5.5038	71.4019	128.7668	234.3200	613.2114	846.2809	-454.3214	14.0052
7.7660	4.2677	1.6308	1.1816										
152.0	466.0000	155.6197	0.0525	192.0338	24.2834	5.1999	71.3869	129.1994	238.6702	689.4474	856.0791	-455.6045	14.0082
7.7400	4.1899	1.4504	1.1681										
151.5	485.0000	157.6083	0.0534	194.9403	24.4908	5.3310	70.9370	129.4945	240.0139	754.3745	875.6279	-455.3424	14.0970
7.7223	4.1664	1.3256	1.1420										
151.0	478.0000	156.1828	0.0530	191.9633	24.2500	5.1095	71.0734	131.6064	240.1215	781.6647	899.6660	-453.6180	14.0700
7.5984	4.1646	1.2793	1.1115										
150.5	478.0000	157.2016	0.0535	193.0990	24.3350	5.1262	71.0812	130.7314	237.1187	763.6975	918.0174	-446.5518	14.0684
7.6493	4.2173	1.3094	1.0893										
150.0	483.0000	156.4215	0.0534	192.3896	24.1464	5.1363	70.6367	125.4665	227.8791	709.2159	912.3428	-431.5736	14.1570
7.9703	4.3883	1.4100	1.0961										
149.5	466.0000	157.4372	0.0542	194.3315	24.1159	5.2685	70.9826	124.5344	226.8351	670.6331	943.2940	-385.8026	14.0880
8.0299	4.4085	1.4911	1.0601										
149.0	472.0000	156.2720	0.0541	191.4968	23.8192	5.0301	71.0586	127.0345	228.7460	660.4022	1007.2936	-334.8695	14.0729
7.8719	4.3717	1.5142	0.9928										
148.5	472.0000	154.9846	0.0537	187.7371	23.5655	4.6771	71.2225	128.6689	235.9721	668.5585	1113.9535	-286.2464	14.0405
7.7719	4.2378	1.4958	0.8977										
148.0	481.0000	155.8633	0.0542	188.5726	23.6135	4.6709	71.0807	124.6935	236.1122	672.2841	1201.1189	-289.1429	14.0685
8.0197	4.2353	1.4875	0.8326										
147.5	479.0000	157.0436	0.0549	190.2869	23.7061	4.7471	70.8940	126.2021	234.3532	703.7017	1265.6982	-288.1669	14.1056
7.9238	4.2671	1.4211	0.7901										
147.0	478.0000	153.5264	0.0534	185.0285	23.2672	4.4985	70.1663	125.4635	234.4727	752.9014	1278.1465	-288.2988	14.2519
7.9704	4.2649	1.3282	0.7824										
146.5	485.0000	153.6957	0.0533	186.2200	23.3684	4.6445	69.4306	124.5142	235.3517	792.5208	1229.0748	-287.5847	14.4029
8.0312	4.2490	1.2618	0.8136										
146.0	489.0000	154.6982	0.0535	187.8671	23.5939	4.7365	68.8220	125.5208	234.8803	818.9802	1164.3745	-293.1917	14.5302
7.9668	4.2575	1.2210	0.8588										
145.5	484.0000	156.9809	0.0542	190.6545	23.9906	4.8086	69.1307	125.7451	235.7780	836.5613	1111.4205	-313.7146	14.4654
7.9526	4.2413	1.1954	0.8997										
145.0	474.0000	155.3536	0.0532	188.0949	23.9075	4.6755	69.5589	125.1940	238.6799	827.1188	1071.2570	-333.1863	14.3763
7.9876	4.1897	1.2090	0.9335										
144.5	483.0000	157.5598	0.0539	191.7357	24.2758	4.8803	69.6124	124.8340	237.5044	788.0551	1017.3000	-348.2670	14.3653
8.0106	4.2104	1.2689	0.9830										
144.0	488.0000	155.7588	0.0532	189.8824	24.0428	4.8729	70.2991	126.2184	237.0462	734.5238	943.9552	-357.8305	14.2249
7.9228	4.2186	1.3614	1.0594										
143.5	477.0000	156.3190	0.0532	190.1688	24.1933	4.8338	69.7356	126.0123	235.4779	691.4295	878.4056	-369.5792	14.3399
7.9357	4.2467	1.4463	1.1384										

143.0 484.0000 162.2087 0.0548 199.4252 25.2913
5.3145 69.3209 124.6472 235.2403 662.3561 839.4415 -
378.0114 14.4257 8.0226 4.2510 1.5098 1.1913
142.5 482.0000 161.1941 0.0540 198.5003 25.3321
5.3273 69.1307 124.2322 232.4134 670.6649 819.9456 -
374.6214 14.4654 8.0494 4.3027 1.4911 1.2196
142.0 477.0000 160.6523 0.0535 197.9714 25.3669
5.3292 69.0665 124.3534 233.4539 686.7061 838.6790 -
369.3072 14.4788 8.0416 4.2835 1.4562 1.1924
141.5 474.0000 158.6508 0.0526 195.1771 25.1470
5.2160 69.2654 124.0986 234.7838 750.5935 878.5514 -
364.9653 14.4372 8.0581 4.2592 1.3323 1.1382
141.0 478.0000 155.3309 0.0514 191.1909 24.6650
5.1208 68.6811 123.4146 242.5856 826.1586 908.4716 -
352.1969 14.5601 8.1028 4.1223 1.2104 1.1007
140.5 487.0000 157.1862 0.0520 193.9924 24.9759
5.2559 69.3611 124.5968 240.5367 912.1879 921.7781 -
340.4726 14.4173 8.0259 4.1574 1.0963 1.0849
140.0 481.0000 156.8551 0.0518 193.5295 24.9564
5.2371 70.5096 127.1246 244.0771 981.3173 887.2870 -
328.1479 14.1825 7.8663 4.0971 1.0190 1.1270
139.5 482.0000 158.2515 0.0523 194.4895 25.1949
5.1748 73.2924 135.8910 261.2511 979.2585 922.7443 -
315.5153 13.6440 7.3588 3.8277 1.0212 1.0837
139.0 471.0000 160.3431 0.0530 197.6872 25.5008
5.3327 75.9782 143.2358 282.6167 894.2970 837.4516 -
305.7882 13.1617 6.9815 3.5384 1.1182 1.1941
138.5 480.0000 159.6410 0.0527 196.4462 25.4416
5.2558 77.0519 150.1240 293.7737 929.3223 880.4942 -
295.6710 12.9783 6.6612 3.4040 1.0761 1.1357
138.0 480.0000 158.9410 0.0521 194.8527 25.4595
5.1282 74.4542 135.5360 270.1001 831.4974 803.9691 -
290.5996 13.4311 7.3781 3.7023 1.2026 1.2438
137.5 474.0000 159.1083 0.0521 195.8944 25.5384
5.2531 74.1494 132.4400 254.6528 709.5153 731.5457 -
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137.0 487.0000 151.6089 0.0488 185.3647 24.6847
4.8203 73.6577 125.0670 229.7580 644.3833 646.1000 -
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4.8129 73.6504 125.5393 226.7705 604.9810 641.8848 -
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4.9297 73.1962 126.8365 229.0119 613.9512 685.4771 -
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135.5 479.0000 153.1612 0.0494 187.9239 24.8748
4.9641 73.7823 127.7561 232.8716 651.6606 749.2275 -
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135.0 466.0000 153.2797 0.0498 189.4567 24.7533
5.1661 71.7606 129.0436 235.8691 710.1536 814.2052 -
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134.5 460.0000 152.2251 0.0498 187.8354 24.4512
5.0852 71.4407 129.2467 235.7014 785.0209 858.9855 -
231.8539 13.9976 7.7371 4.2427 1.2739 1.1642
134.0 446.0000 153.0192 0.0503 188.7037 24.4435
5.0958 70.6274 128.3366 236.7172 873.3762 903.4868 -
216.5793 14.1588 7.7920 4.2245 1.1450 1.1068

133.5	452.0000	156.3143	0.0519	194.2204	24.7731	5.4130	68.2434	124.7929	231.9510	969.5276	912.3579	-247.0725	14.6534
8.0133	4.3113	1.0314	1.0961										
133.0	467.0000	155.6826	0.0517	192.9597	24.6583	5.3232	69.0914	127.5660	241.3868	1036.8792	949.0803	-239.2559	14.4736
7.8391	4.1427	0.9644	1.0537										
132.5	458.0000	152.4871	0.0507	189.2434	24.1423	5.2488	70.4373	130.3121	253.6649	1009.1668	928.2115	-255.2987	14.1970
7.6739	3.9422	0.9909	1.0773										
132.0	471.0000	150.8929	0.0503	188.2759	23.8215	5.3383	71.9152	132.0660	259.6804	1014.1041	841.8135	-267.0410	13.9053
7.5720	3.8509	0.9861	1.1879										
131.5	474.0000	150.0765	0.0501	187.9313	23.6434	5.4057	72.0843	129.9040	268.9772	976.7192	723.6884	-278.4241	13.8726
7.6980	3.7178	1.0238	1.3818										
131.0	471.0000	150.0402	0.0504	188.6623	23.5259	5.5152	70.7538	134.4432	261.7327	876.7328	676.7294	-256.3488	14.1335
7.4381	3.8207	1.1406	1.4777										
130.5	468.0000	150.6792	0.0509	190.2224	23.5104	5.6468	70.2553	135.4458	258.0963	812.8236	618.5971	-241.4331	14.2338
7.3830	3.8745	1.2303	1.6166										
130.0	466.0000	152.4500	0.0516	192.0817	23.7091	5.6594	69.6561	141.0637	250.3298	729.0564	545.3981	-258.7318	14.3563
7.0890	3.9947	1.3716	1.8335										
129.5	460.0000	151.5801	0.0515	191.1414	23.4917	5.6494	74.0524	137.3489	243.0637	630.5635	468.3649	-255.1139	13.5040
7.2807	4.1141	1.5859	2.1351										
129.0	462.0000	151.6960	0.0519	192.1866	23.3707	5.7821	76.2081	147.1488	231.6513	542.2411	418.7667	-241.0963	13.1220
6.7958	4.3168	1.8442	2.3880										
128.5	474.0000	149.4575	0.0513	188.9892	22.9406	5.6451	70.2850	147.9000	212.3769	495.1968	401.6575	-234.9710	14.2278
6.7613	4.7086	2.0194	2.4897										
128.0	478.0000	156.5603	0.0548	200.0634	23.6033	6.2122	69.6483	138.0531	210.6853	468.3686	401.6410	-201.5779	14.3578
7.2436	4.7464	2.1351	2.4898										
127.5	479.0000	156.4384	0.0550	199.7020	23.4675	6.1781	70.6684	146.8829	200.2442	481.4614	470.9648	-227.9912	14.1506
6.8081	4.9939	2.0770	2.1233										
127.0	488.0000	154.6922	0.0546	196.2255	23.1067	5.9310	71.8759	138.4770	206.8687	567.9147	591.2807	-237.7240	13.9129
7.2214	4.8340	1.7608	1.6912										
126.5	469.0000	155.5226	0.0549	196.8869	23.2111	5.9068	73.4894	138.6483	213.6823	673.4414	813.8334	-240.0582	13.6074
7.2125	4.6798	1.4849	1.2288										
126.0	480.0000	153.4339	0.0543	195.4584	22.8354	6.0011	77.5326	142.3290	229.5718	892.5361	1123.9951	-221.8306	12.8978
7.0260	4.3559	1.1204	0.8897										
125.5	473.0000	151.7998	0.0536	193.8483	22.6546	6.0045	84.0423	153.3782	273.1676	1106.1614	1451.6047	-228.1253	11.8988
6.5198	3.6608	0.9040	0.6889										
125.0	479.0000	151.6337	0.0535	194.4052	22.6481	6.1078	88.1755	157.3314	328.7331	1240.3959	1506.5254	-241.8284	11.3410
6.3560	3.0420	0.8062	0.6638										
124.5	474.0000	151.9670	0.0535	195.4047	22.7618	6.2029	90.7215	152.8078	298.7435	1095.5950	1274.5930	-252.3599	11.0227
6.5442	3.3474	0.9127	0.7846										

124.0	472.0000	148.7782	0.0518	189.2809	22.5177	5.7838	85.5635	130.5261	288.2483	912.0220	916.0540	-257.7645	11.6872
7.6613	3.4692	1.0965	1.0916										
123.5	476.0000	147.7514	0.0513	187.6440	22.4461	5.6967	81.9589	120.6664	253.5444	689.0002	651.0542	-265.2299	12.2012
8.2873	3.9441	1.4514	1.5360										
123.0	478.0000	146.9789	0.0510	186.3491	22.3200	5.6221	81.9776	117.4699	217.6815	526.7397	488.1644	-257.7907	12.1985
8.5128	4.5939	1.8985	2.0485										
122.5	474.0000	145.6296	0.0504	184.2290	22.1841	5.5120	75.0444	104.3366	188.3682	425.7917	383.1561	-246.7894	13.3254
9.5844	5.3088	2.3486	2.6099										
122.0	473.0000	148.6440	0.0514	187.8772	22.6782	5.6025	74.6812	103.9577	172.5770	375.6912	354.3276	-415.9028	13.3902
9.6193	5.7945	2.6618	2.8222										
121.5	473.0000	150.6385	0.0520	190.7492	22.9908	5.7278	76.3261	103.0124	164.7874	364.1388	365.3905	-568.8615	13.1017
9.7076	6.0684	2.7462	2.7368										
121.0	472.0000	149.1360	0.0517	188.4062	22.6828	5.6078	70.4560	103.1943	163.6387	381.8380	435.5791	-575.5522	14.1933
9.6905	6.1110	2.6189	2.2958										
120.5	462.0000	150.2079	0.0524	190.9431	22.6899	5.8170	74.1369	110.2366	180.2601	466.4462	505.6605	-488.6031	13.4886
9.0714	5.5475	2.1439	1.9776										
120.0	460.0000	158.3048	0.0555	200.2354	23.7908	5.9877	79.6945	121.4856	199.5964	543.0816	582.8206	-387.9220	12.5479
8.2314	5.0101	1.8413	1.7158										
119.5	466.0000	156.8684	0.0548	196.9476	23.6704	5.7233	88.1104	126.9969	234.3248	636.9210	639.6709	-286.9522	11.3494
7.8742	4.2676	1.5701	1.5633										
119.0	458.0000	155.7020	0.0543	195.8340	23.5275	5.7309	89.0299	142.8053	265.7909	580.4174	599.2520	-319.0909	11.2322
7.0025	3.7624	1.7229	1.6687										
118.5	462.0000	153.8958	0.0536	192.8810	23.2957	5.5671	90.0676	148.4063	253.4017	468.2386	420.2008	-402.5825	11.1028
6.7383	3.9463	2.1357	2.3798										
118.0	463.0000	154.7758	0.0541	193.9599	23.3304	5.5955	83.4868	149.7505	285.9556	611.2101	525.0526	-387.4389	11.9779
6.6778	3.4970	1.6361	1.9046										
117.5	467.0000	156.3171	0.0548	195.7684	23.5196	5.6337	77.1102	117.0829	238.4855	541.0115	451.3236	-262.9273	12.9685
8.5410	4.1931	1.8484	2.2157										
117.0	460.0000	156.6239	0.0549	195.7218	23.5657	5.5832	74.9995	115.2732	200.8854	463.8669	387.6552	-242.1977	13.3334
8.6750	4.9780	2.1558	2.5796										
116.5	460.0000	155.1585	0.0541	193.6266	23.4639	5.4933	69.6968	96.8074	171.4730	395.5510	325.5351	-267.6461	14.3479
10.3298	5.8318	2.5281	3.0719										
116.0	456.0000	155.0608	0.0539	193.8844	23.5018	5.5440	68.7521	88.4691	153.9580	364.3274	312.2651	-269.1845	14.5450
11.3034	6.4953	2.7448	3.2024										
115.5	452.0000	155.0973	0.0536	193.2298	23.6557	5.4453	66.2746	88.1250	152.4682	369.8467	356.6294	-251.0897	15.0887
11.3475	6.5587	2.7038	2.8040										
115.0	467.0000	155.2235	0.0535	193.1090	23.7526	5.4101	66.3451	93.5725	164.7296	406.6750	468.1858	-257.0469	15.0727
10.6869	6.0706	2.4590	2.1359										

114.5	465.0000	160.0119	0.0550	199.7793	24.5271	5.6788	68.3391	94.7082	171.1207	426.4644	601.5557	-277.0914	14.6329
10.5587	5.8438	2.3449	1.6624										
114.0	465.0000	160.7448	0.0551	198.3009	24.7366	5.3630	68.8534	97.9059	178.0687	447.2709	731.6659	-274.1226	14.5236
10.2139	5.6158	2.2358	1.3667										
113.5	467.0000	161.5107	0.0555	198.3042	24.7871	5.2541	69.6857	97.1668	176.8119	429.4429	740.0995	-287.5947	14.3501
10.2916	5.6557	2.3286	1.3512										
113.0	452.0000	163.0916	0.0562	199.9989	24.9570	5.2704	68.5288	93.6461	171.1274	412.2441	617.0464	-270.5468	14.5924
10.6785	5.8436	2.4257	1.6206										
112.5	469.0000	162.7276	0.0562	200.3690	24.8314	5.3752	67.2680	90.4358	162.2775	367.6023	470.3859	-252.9696	14.8659
11.0576	6.1623	2.7203	2.1259										
112.0	468.0000	162.4275	0.0564	200.8992	24.6727	5.4938	66.2178	87.8609	154.9827	315.9927	346.6187	-275.2231	15.1017
11.3816	6.4523	3.1646	2.8850										
111.5	464.0000	161.1467	0.0560	198.3686	24.4356	5.3153	65.7098	83.6076	145.8552	261.0586	262.2798	-286.5352	15.2184
11.9606	6.8561	3.8306	3.8127										
111.0	467.0000	159.8407	0.0559	197.5230	24.0894	5.3810	66.0393	80.7259	137.1464	209.6185	198.8253	-266.2401	15.1425
12.3876	7.2915	4.7706	5.0295										
110.5	460.0000	160.1969	0.0560	197.8806	24.1703	5.3812	67.5687	75.8783	135.4593	169.8311	156.7819	-251.3354	14.7998
13.1790	7.3823	5.8882	6.3783										
110.0	473.0000	157.2045	0.0548	194.2469	23.7708	5.2897	72.1995	73.5291	125.7080	136.7878	125.4890	-392.8322	13.8505
13.6001	7.9549	7.3106	7.9688										
109.5	464.0000	158.0347	0.0550	195.8461	23.9416	5.3995	80.7077	75.8818	129.0148	118.4152	107.8367	-476.4570	12.3904
13.1784	7.7510	8.4449	9.2733										
109.0	467.0000	158.5038	0.0551	196.3515	24.0473	5.4047	97.7242	78.0965	143.0522	100.1890	92.3570	-450.9905	10.2329
12.8047	6.9905	9.9811	10.8276										
108.5	463.0000	158.7321	0.0553	197.2974	24.0225	5.5071	119.5037	81.1610	145.3085	79.9974	75.3578	-447.3979	8.3679
12.3212	6.8819	12.5004	13.2700										
108.0	464.0000	159.4633	0.0557	198.3933	24.0898	5.5592	159.2184	84.4830	157.9741	75.8119	75.0970	-474.1528	6.2807
11.8367	6.3302	13.1905	13.3161										
107.5	457.0000	157.3289	0.0548	195.1612	23.8175	5.4025	125.9313	76.8588	147.4010	66.2093	62.9590	-485.1284	7.9408
13.0109	6.7842	15.1036	15.8834										
107.0	460.0000	161.4144	0.0565	200.6931	24.3148	5.6090	154.7498	69.3481	135.4226	57.3878	54.2194	-455.3664	6.4620
14.4200	7.3843	17.4253	18.4436										
106.5	465.0000	160.8737	0.0565	200.6153	24.1700	5.6751	158.7921	63.4599	121.9996	51.0512	47.5760	-461.7924	6.2975
15.7580	8.1967	19.5882	21.0190										
106.0	458.0000	158.6537	0.0558	197.4709	23.7729	5.5431	151.2754	57.3861	106.1686	45.0329	41.0849	-478.1995	6.6105
17.4258	9.4190	22.2060	24.3398										
105.5	465.0000	156.9240	0.0553	194.3239	23.4974	5.3407	154.0148	53.9206	88.1486	39.8691	37.6891	-409.6876	6.4929
18.5458	11.3445	25.0821	26.5329										

105.0	464.0000	157.0907	0.0554	194.3417	23.4975	5.3194	158.9280	49.2163	79.7571	37.5430	35.6384
-354.7386	6.2922	20.3185	12.5381	26.6361	28.0597						
104.5	463.0000	154.7737	0.0546	190.0646	23.1275	5.0396	150.9604	44.7875	75.6186	34.2948	32.5265
-446.5376	6.6243	22.3277	13.2243	29.1590	30.7442						
104.0	457.0000	153.2412	0.0541	187.2719	22.8973	4.8596	181.0631	43.7776	65.0582	30.2556	29.4311
-450.2030	5.5229	22.8427	15.3708	33.0517	33.9776						
103.5	462.0000	148.1241	0.0528	180.2076	21.9189	4.5815	202.7708	44.1547	61.7515	28.1749	28.0270
-452.9435	4.9317	22.6476	16.1939	35.4926	35.6799						
103.0	473.0000	143.6992	0.0512	173.6166	21.2636	4.2722	202.5600	42.0689	60.4623	26.5916	24.7383
-455.3072	4.9368	23.7705	16.5392	37.6058	40.4232						
102.5	472.0000	143.8193	0.0513	174.0427	21.2607	4.3159	205.7057	41.2631	56.5470	24.5542	22.5641
-457.5716	4.8613	24.2347	17.6844	40.7263	44.3181						
102.0	456.0000	141.8303	0.0505	171.1496	21.0038	4.1868	203.7816	39.4384	55.6846	22.7529	20.5956
-459.5558	4.9072	25.3560	17.9583	43.9503	48.5541						
101.5	466.0000	142.7257	0.0507	172.7426	21.1608	4.2864	176.3797	39.0422	53.7004	21.4680	19.2540
-461.2770	5.6696	25.6133	18.6218	46.5811	51.9372						
101.0	462.0000	144.7152	0.0486	185.4196	22.6807	5.8126	129.6421	36.4339	52.1578	20.4535	18.3760
-463.0042	7.7135	27.4470	19.1726	48.8915	54.4188						
100.5	467.0000	145.5966	0.0486	187.0702	22.9453	5.9224	118.6925	34.3047	51.3463	19.6579	18.1625
-464.6069	8.4251	29.1505	19.4756	50.8701	55.0584						
100.0	474.0000	149.2791	0.0494	193.4296	23.7334	6.3047	160.3058	35.0818	54.0255	19.6970	18.1755
-466.0014	6.2381	28.5048	18.5098	50.7693	55.0191						
99.5	460.0000	149.5562	0.0492	194.1295	23.8819	6.3651	173.2344	38.3828	59.4882	19.5422	18.6962
-466.6610	5.7725	26.0533	16.8101	51.1714	53.4869						
99.0	462.0000	150.3480	0.0490	195.4555	24.2299	6.4414	169.7355	37.2913	59.8353	19.7105	19.0719
-467.8581	5.8915	26.8159	16.7125	50.7343	52.4332						
98.5	468.0000	149.5103	0.0482	193.8190	24.2922	6.3273	147.1840	33.2497	56.1859	19.8925	20.0029
-469.1091	6.7942	30.0754	17.7981	50.2703	49.9928						
98.0	471.0000	146.4489	0.0468	190.1308	23.9854	6.2378	114.6744	30.5570	52.0320	19.7372	20.0318
-470.1544	8.7203	32.7257	19.2190	50.6657	49.9207						
97.5	468.0000	147.8082	0.0469	191.6054	24.3468	6.2542	105.9968	29.5285	49.7732	19.5670	20.1071
-470.9929	9.4342	33.8656	20.0911	51.1064	49.7336						
97.0	469.0000	145.9994	0.0460	188.3010	24.2127	6.0407	96.1656	28.1229	47.9872	19.0071	19.5350
-471.9242	10.3987	35.5583	20.8389	52.6118	51.1902						
96.5	458.0000	148.3099	0.0468	192.2175	24.5639	6.2700	97.6440	28.5101	47.3432	18.7292	19.2080
-472.5756	10.2413	35.0753	21.1223	53.3925	52.0617						
96.0	460.0000	147.3516	0.0463	190.1410	24.4900	6.1103	109.1059	27.2429	49.1463	18.2491	18.7853
-473.1211	9.1654	36.7068	20.3474	54.7972	53.2332						

95.5	465.0000	147.0141	0.0460	189.7647	24.5101	6.1048	119.6590	26.6232	50.5299	17.8321	18.2764
-473.3887	8.3571	37.5613	19.7903	56.0785	54.7153						
95.0	453.0000	152.2891	0.0478	196.5333	25.3444	6.3181	128.9467	26.9718	52.5039	17.3898	17.8675
-473.8694	7.7551	37.0757	19.0462	57.5050	55.9674						
94.5	461.0000	151.8525	0.0475	194.9188	25.3136	6.1499	135.1461	25.7081	51.1526	16.8938	17.2928
-474.5364	7.3994	38.8983	19.5493	59.1932	57.8277						
94.0	453.0000	152.0100	0.0476	195.4384	25.3156	6.2016	121.1270	24.0347	48.5886	16.5423	16.8271
-474.9730	8.2558	41.6064	20.5810	60.4513	59.4280						
93.5	456.0000	143.9247	0.0479	183.6663	22.7442	5.6751	97.9213	22.9494	44.7443	15.8534	15.9037
-475.3532	10.2123	43.5741	22.3492	63.0781	62.8785						
93.0	457.0000	142.1942	0.0475	181.5877	22.4060	5.6254	72.0188	21.2349	40.8794	14.9927	14.8082
-475.8974	13.8853	47.0923	24.4622	66.6990	67.5300						
92.5	457.0000	148.8221	0.0495	192.6193	23.5243	6.2543	74.7844	20.4661	37.9879	14.1374	13.8125
-476.2625	13.3718	48.8614	26.3242	70.7346	72.3982						
92.0	450.0000	144.8226	0.0481	187.7760	22.9339	6.1337	84.2317	20.1330	37.5896	13.2185	12.9233
-476.4582	11.8720	49.6697	26.6031	75.6516	77.3796						
91.5	433.0000	147.1290	0.0490	192.1384	23.2597	6.4274	90.6897	19.4542	37.4660	12.4726	12.4029
-476.8333	11.0266	51.4027	26.6909	80.1758	80.6261						
91.0	428.0000	151.0310	0.0505	198.1632	23.7756	6.7305	99.2670	18.8716	36.9725	11.7785	12.1420
-477.2366	10.0738	52.9898	27.0471	84.9002	82.3589						
90.5	435.0000	152.2874	0.0509	199.8316	23.9759	6.7893	109.7468	18.5006	38.2275	11.3141	11.9169
-477.5873	9.1119	54.0524	26.1592	88.3852	83.9146						
90.0	442.0000	149.8686	0.0499	195.7627	23.6757	6.5537	111.3776	17.6390	38.3463	10.8325	11.9829
-477.9006	8.9785	56.6926	26.0781	92.3147	83.4525						
89.5	441.0000	151.2531	0.0501	194.9075	24.0181	6.2339	104.7587	16.3842	36.6873	10.7763	11.5626
-478.3414	9.5457	61.0345	27.2574	92.7963	86.4857						
89.0	447.0000	156.0885	0.0512	197.0518	24.9957	5.8496	98.4422	14.8718	33.6178	10.5685	10.8902
-478.7013	10.1582	67.2413	29.7462	94.6205	91.8261						
88.5	456.0000	172.0118	0.0522	208.5207	29.3664	5.2135	87.6655	13.4008	31.0155	10.3648	10.1762
-478.8987	11.4070	74.6225	32.2420	96.4806	98.2689						
88.0	450.0000	176.2890	0.0508	194.4970	31.2818	2.6001	78.4065	12.3598	29.5972	10.2771	9.6687
-478.8947	12.7540	80.9076	33.7870	97.3040	103.4262						
87.5	453.0000	210.0785	0.0583	201.0084	38.2447	-1.2952	69.7351	11.6776	29.4862	10.0823	9.5731
-479.2745	14.3400	85.6339	33.9142	99.1838	104.4592						
87.0	453.0000	204.4808	0.0568	203.6293	37.2087	-0.1216	62.5594	10.7442	31.3618	9.5468	10.1034
-479.1706	15.9848	93.0735	31.8860	104.7475	98.9766						
86.5	457.0000	205.1871	0.0570	206.6731	37.3357	0.2122	74.5801	9.7619	30.8681	8.7089	11.2069
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86.0 457.0000 206.8070 0.0574 209.5625 37.6489
0.3935 92.2104 10.6335 35.6500 7.4732 12.4805 -
474.5053 10.8448 94.0423 28.0505 133.8123 80.1247
85.5 451.0000 209.7587 0.0583 213.7716 38.1312
0.5730 287.0436 9.6241 26.3430 6.4398 10.6886 -
470.8805 3.4838 103.9053 37.9607 155.2833 93.5580
85.0 438.0000 210.8384 0.0586 214.5224 38.3351
0.5261 605.7369 8.3227 15.6373 4.6728 7.0348 -
465.7325 1.6509 120.1537 63.9497 214.0041 142.1509
84.5 453.0000 209.3524 0.0580 211.1275 38.1539
0.2535 73.9620 5.7899 8.9124 3.4264 4.4912 -
459.3512 13.5204 172.7154 112.2027 291.8541 222.6599
84.0 443.0000 221.5833 0.0594 189.4188 41.2418
-4.5931 7.5868 3.4557 6.1585 2.7819 2.9564 -
453.8355 131.8071 289.3799 162.3775 359.4690 338.2500
83.5 443.0000 222.1865 0.0598 188.9164 41.2575
-4.7510 3.1609 2.6747 3.2055 2.9403 2.6235 -
419.2391 316.3612 373.8722 311.9616 340.1067 381.1698
83.0 434.0000 221.9514 0.0598 186.3289 41.1618
-5.0869 2.2830 2.0510 2.0293 2.1387 2.1861 -
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82.5 445.0000 225.6354 0.0612 188.9426 41.6992
-5.2397 1.5047 1.3822 2.4545 1.8058 1.5335 -
327.4031 664.6040 723.5044 407.4079 553.7748 652.1138
82.0 442.0000 227.4542 0.0619 188.2799 41.9260
-5.5941 1.4733 1.3204 3.0012 3.3716 1.9581 -
298.1283 678.7538 757.3584 333.2004 296.5964 510.7019
81.5 446.0000 228.3867 0.0624 185.3559 41.9795
-6.1448 0.9551 0.7440 1.8419 1.6629 1.1817 -
242.2365 1046.9646 1344.0179 542.9321 601.3639 846.2253
81.0 442.0000 236.6738 0.0659 176.9101 42.9919
-8.5343 0.8837 0.5100 0.9015 1.0716 1.2908 -
179.8091 1131.5679 1960.8536 1109.2944 933.2266 774.6899
80.5 441.0000 302.1696 0.0780 164.1741 57.5374
-19.7058 0.6831 0.4271 0.9615 0.9416 0.6710 -
144.5629 1463.9706 2341.2231 1039.9967 1062.0050 1490.2842
80.0 458.0000 370.4120 0.0797 126.3914 77.4284
-34.8462 0.6854 0.4842 0.7715 0.7873 0.4039 -
47.4775 1459.0200 2065.4131 1296.1703 1270.1659 2475.7258
79.5 457.0000 495.5841 0.0861 139.0499 112.4613
-50.9132 0.7501 0.4680 2.0328 0.8843 0.6144 -
39.4198 1333.1246 2136.8660 491.9308 1130.8477 1627.7029
79.0 447.0000 678.8838 0.0621 163.5039 178.2386
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26.3120 1891.8022 1507.0194 696.3000 1579.4534 2553.6333
78.5 457.0000 1316.4182 -0.0182 602.0118 405.5440 -
102.0174 0.4083 0.7484 2.9051 1.0779 0.5152 -
51.4682 2449.1714 1336.1727 344.2271 927.7459 1940.8094
78.0 452.0000 1618.8936 0.0754 559.8761 456.4600 -
151.2280 0.3451 1.1910 5.9999 0.5891 0.4002 -
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174.3798 0.2463 1.5226 4.0080 0.6988 0.3911 -
126.5168 4060.0735 656.7604 249.5036 1431.0183 2556.9731
77.0 439.0000 1078.4005 -0.1696 230.4315 399.1780 -
121.0902 0.2176 2.2993 5.1853 0.5654 0.3447 -
160.7847 4595.1079 434.9065 192.8513 1768.5215 2900.9231

76.5	453.0000	776.6967	-0.2430	600.9879	339.8072	-25.0913	0.2013	5.8498	3.4620	0.4944	0.3282	-190.2837	4968.4395
170.9465	288.8513	2022.8160	3047.3137										
76.0	451.0000	507.9849	-0.3169	791.7466	290.6042	40.5213	0.1863	61.5498	3.6299	0.4724	0.3320	-215.4408	5366.7349
16.2470	275.4865	2116.6563	3011.7629										
75.5	441.0000	276.2974	-0.3830	850.2498	249.1791	81.9605	0.1761	111.0785	3.7530	0.4741	0.3442	-236.7301	5679.0703
9.0026	266.4508	2109.4678	2904.9602										
75.0	440.0000	266.8381	-0.3825	863.9769	246.1036	85.2716	0.1681	1306.8828	4.0922	0.4882	0.3593	-255.9942	5949.6440
0.7652	244.3658	2048.5127	2782.8169										
74.5	443.0000	256.9075	-0.3830	875.3804	243.3184	88.3181	0.1618	1950.0000	4.4260	0.5084	0.3749	-272.9587	6181.6006
0.5000	225.9398	1967.1381	2667.6411										
74.0	451.0000	106.2367	-0.3643	823.9172	189.7336	102.4850	0.1595	1950.0000	4.6656	0.5299	0.3900	-277.8781	6269.2456
0.5000	214.3348	1887.3195	2564.2236										
73.5	441.0000	-30.0015	-0.4081	789.8593	167.5007	117.0763	0.1590	1950.0000	4.8948	0.5499	0.4049	-114.8386	6290.7158
0.5000	204.2987	1818.5479	2469.9973										
73.0	446.0000	-160.6595	-0.4539	902.9415	147.8794	151.8825	0.1596	1950.0000	5.1522	0.5666	0.4189	-41.1950	6263.9873
0.5000	194.0900	1764.9867	2387.1621										
72.5	453.0000	-157.9093	-0.4527	912.0904	148.1741	152.7962	0.1609	1950.0000	5.4444	0.5791	0.4310	-24.5639	6213.8877
0.5000	183.6743	1726.7977	2320.3440										
72.0	454.0000	-161.0451	-0.4537	910.2157	147.6804	152.9763	0.1623	1950.0000	5.7270	0.5872	0.4398	-12.0743	6161.6401
0.5000	174.6109	1702.9661	2273.8455										
71.5	443.0000	-242.7705	-0.4521	874.0835	122.2816	159.4870	0.1634	1950.0000	5.9350	0.5910	0.4447	-118.0663	6118.7104
0.5000	168.4913	1692.0771	2248.7483										
71.0	446.0000	-243.9353	-0.4526	865.9893	122.1571	158.4975	0.1638	1950.0000	6.0398	0.5913	0.4462	-87.0740	6106.6787
0.5000	165.5672	1691.2607	2241.3408										
70.5	450.0000	-238.7578	-0.4508	870.9866	122.9255	158.4718	0.1636	1950.0000	6.0796	0.5895	0.4455	-79.1402	6113.2397
0.5000	164.4853	1696.2629	2244.7080										
70.0	449.0000	-237.9321	-0.4507	880.1833	123.1412	159.6672	0.1633	1950.0000	6.1322	0.5874	0.4441	-30.7363	6122.2056
0.5000	163.0732	1702.5305	2251.9189										
69.5	462.0000	-192.8534	-0.4526	944.7656	137.5799	162.4523	0.1636	1950.0000	6.2631	0.5860	0.4427	-104.4113	6113.4937
0.5000	159.6660	1706.5186	2259.0850										
69.0	460.0000	-278.1064	-0.4523	873.0978	111.6743	164.3923	0.1643	1950.0000	6.4994	0.5860	0.4414	-68.9007	6087.0649
0.5000	153.8604	1706.4303	2265.6079										
68.5	457.0000	-341.5314	-0.4539	820.5861	93.2107	165.9507	0.1649	1950.0000	6.8409	0.5876	0.4402	-24.8731	6064.7700
0.5000	146.1793	1701.9376	2271.7480										
68.0	452.0000	-352.6678	-0.4584	780.0324	91.8029	161.7499	0.1655	1950.0000	7.2867	0.5905	0.4393	-29.2964	6044.0005
0.5000	137.2372	1693.5248	2276.2856										
67.5	445.0000	-356.4421	-0.4616	813.3289	92.0419	167.0436	0.1657	1950.0000	7.8435	0.5943	0.4392	-30.2638	6035.2612
0.5000	127.4941	1682.6996	2276.7446										

67.0	439.0000	-363.1205	-0.4654	914.2485	91.6645	182.4086	0.1657	1950.0000	8.4778	0.5978	0.4399	-87.0602	6034.7729
0.5000	117.9548	1672.8782	2273.2073										
66.5	442.0000	-371.6663	-0.4631	737.5377	88.0929	158.3946	0.1653	1950.0000	9.0319	0.5997	0.4406	-72.8677	6049.0381
0.5000	110.7189	1667.6320	2269.8755										
66.0	439.0000	-376.8022	-0.4664	891.7582	87.9739	181.1508	0.1647	1950.0000	9.1840	0.5991	0.4397	-101.9823	6072.1704
0.5000	108.8851	1669.1224	2274.2471										
65.5	444.0000	-376.4581	-0.4663	891.8089	88.0188	181.1089	0.1638	1950.0000	8.6465	0.5959	0.4359	-78.3876	6106.0684
0.5000	115.6534	1678.0615	2293.9063										
65.0	446.0000	-360.0375	-0.4595	835.7900	90.0744	170.7645	0.1625	1950.0000	7.5358	0.5905	0.4295	-40.4426	6153.8477
0.5000	132.6999	1693.4701	2328.1221										
64.5	443.0000	-344.6221	-0.4509	892.3938	91.0034	176.6462	0.1611	1950.0000	6.2764	0.5834	0.4227	-51.9333	6206.5913
0.5000	159.3270	1713.9939	2365.9927										
64.0	447.0000	-350.7986	-0.4522	879.5474	89.6983	175.6937	0.1601	1950.0000	5.2268	0.5756	0.4185	-71.1396	6246.3530
0.5000	191.3234	1737.3516	2389.3303										
63.5	441.0000	-316.7473	-0.4349	825.3964	92.5001	163.0984	0.1594	1950.0000	4.4366	0.5665	0.4187	-71.5061	6275.0078
0.5000	225.3969	1765.1682	2388.3044										
63.0	454.0000	-276.1399	-0.4145	905.0538	95.9154	168.6748	0.1593	1950.0000	3.8062	0.5542	0.4215	-62.4858	6275.9536
0.5000	262.7312	1804.2607	2372.6040										
62.5	440.0000	-273.2678	-0.4128	907.7073	96.0694	168.6436	0.1603	1950.0000	3.2757	0.5385	0.4237	-51.4514	6238.1250
0.5000	305.2744	1856.9027	2360.1858										
62.0	446.0000	-210.4759	-0.3778	866.2280	99.8739	153.7536	0.1576	1950.0000	2.8642	0.5235	0.4243	-36.1496	6346.4600
0.5000	349.1372	1910.1715	2357.0938										
61.5	436.0000	-205.7157	-0.3750	870.8586	100.1219	153.7351	0.1565	1950.0000	2.6291	0.5165	0.4260	-39.0062	6389.4409
0.5000	380.3592	1936.0321	2347.2456										
61.0	436.0000	-111.5615	-0.3218	460.3097	105.5533	81.6634	0.1651	1950.0000	2.6153	0.5238	0.4333	-82.4800	6056.3052
0.5000	382.3657	1909.2577	2308.1194										
60.5	438.0000	-77.2738	-0.3013	433.4032	107.0431	72.9248	0.1536	1950.0000	2.8526	0.5461	0.4465	-124.3260	6508.8047
0.5000	350.5559	1831.0145	2239.4065										
60.0	441.0000	-84.8754	-0.3077	866.4265	107.4972	135.8462	0.1533	1950.0000	3.3422	0.5773	0.4609	-162.0701	6524.7915
0.5000	299.2038	1732.2279	2169.6755										
59.5	435.0000	-75.9298	-0.3037	827.8334	108.4900	129.0576	0.1547	1950.0000	3.9588	0.6050	0.4686	-194.9801	6463.4795
0.5000	252.6016	1652.8828	2134.2207										
59.0	435.0000	-73.3917	-0.3024	830.7252	108.6862	129.1081	0.1530	1950.0000	4.3846	0.6187	0.4659	-224.4563	6537.3965
0.5000	228.0704	1616.3160	2146.4460										
58.5	441.0000	-28.6035	-0.2751	694.8366	110.3826	103.3074	0.1499	1950.0000	4.4213	0.6174	0.4567	-250.3676	6669.0527
0.5000	226.1761	1619.8264	2189.5503										
58.0	440.0000	26.0114	-0.2418	850.9918	112.4728	117.8074	0.1469	1950.0000	4.2476	0.6072	0.4470	-272.5667	6809.1499
0.5000	235.4249	1646.9064	2237.2175										

57.5 432.0000 436.6221 -0.1961 629.5682 216.7652
27.5528 0.1444 1950.0000 4.1077 0.5947 0.4399 -
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15.1874 0.1431 1950.0000 4.0821 0.5830 0.4353 -
260.2079 6987.0176 0.5000 244.9708 1715.3527 2297.5242
56.5 444.0000 352.9229 -0.1274 431.2045 161.7308
11.1786 0.1424 1950.0000 4.1443 0.5736 0.4316 -
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56.0 445.0000 553.0403 -0.0918 612.8714 206.8121
8.5439 0.1421 1950.0000 4.2533 0.5678 0.4282 -
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4.6889 0.1421 1950.0000 4.3617 0.5652 0.4250 -
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55.0 438.0000 0.0062 -0.0000 0.0013 0.0024
-0.0007 0.1420 1950.0000 4.4457 0.5652 0.4221 -
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54.5 439.0000 0.3077 0.0001 0.0991 0.0309
-0.0298 0.1422 1950.0000 4.4943 0.5665 0.4198 -
111.7024 7032.3540 0.5000 222.5029 1765.2380 2382.1392
54.0 438.0000 3.3889 -0.0004 17.1734 1.1887
1.9684 0.1423 1950.0000 4.4965 0.5676 0.4179 -
133.6584 7026.2935 0.5000 222.3959 1761.7251 2392.6938
53.5 443.0000 68.6613 0.0221 81.1434 11.1717
1.7825 0.1427 1950.0000 4.4449 0.5676 0.4164 -
132.6674 7008.1392 0.5000 224.9791 1761.6687 2401.3225
53.0 429.0000 70.1250 0.0225 83.3585 11.4506
1.8897 0.1429 1950.0000 4.3438 0.5663 0.4152 -
103.9901 6997.3789 0.5000 230.2131 1765.8510 2408.6763
52.5 436.0000 70.4835 0.0225 84.0902 11.5475
1.9430 0.1424 1950.0000 4.2216 0.5639 0.4141 -
67.5808 7024.0127 0.5000 236.8756 1773.2554 2414.7717
52.0 446.0000 66.1429 0.0279 75.2097 7.9081
1.2947 0.1420 1950.0000 4.1254 0.5614 0.4135 -
72.5661 7042.9961 0.5000 242.3988 1781.3259 2418.3774
51.5 436.0000 67.9491 0.0288 77.6251 8.0488
1.3817 0.1412 1950.0000 4.0969 0.5595 0.4135 -
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1.5329 0.1409 1950.0000 4.1543 0.5586 0.4140 -
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1.3543 0.1412 1950.0000 4.2919 0.5587 0.4147 -
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50.0 438.0000 64.2965 0.0277 69.6941 7.4465
0.7708 0.1412 1950.0000 4.4886 0.5597 0.4151 -
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0.7549 0.1418 1950.0000 4.7158 0.5617 0.4151 -
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49.0 434.0000 67.1280 0.0289 73.4103 7.7581
0.8971 0.1418 1950.0000 4.9424 0.5648 0.4148 -
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0.8701 0.1422 1950.0000 5.1323 0.5685 0.4147 -
123.2957 7031.1978 0.5000 194.8458 1758.9979 2411.1680

48.0 439.0000 65.0399 0.0281 70.4946 7.4941
0.7789 0.1428 1950.0000 5.2413 0.5720 0.4155 -
94.3979 7002.2397 0.5000 190.7927 1748.3098 2406.8481
47.5 430.0000 65.5784 0.0283 71.4842 7.5793
0.8433 0.1433 1950.0000 5.2377 0.5743 0.4176 -
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47.0 428.0000 66.4366 0.0286 73.0652 7.6856
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0.8098 0.1419 1950.0000 4.6644 0.5734 0.4289 -
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1.0282 0.1414 1950.0000 4.3703 0.5728 0.4300 -
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45.0 439.0000 65.1381 0.0288 71.7463 7.2189
0.9437 0.1409 1950.0000 4.0553 0.5728 0.4280 -
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1.0750 0.1403 1950.0000 3.7411 0.5727 0.4239 -
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44.0 440.0000 67.6548 0.0299 75.6359 7.5212
1.1397 0.1394 1950.0000 3.4712 0.5716 0.4200 -
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1.0758 0.1394 1950.0000 3.2657 0.5676 0.4174 -
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1.0340 0.1390 1950.0000 3.1025 0.5577 0.4150 -
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1.2337 0.1407 1950.0000 2.9565 0.5417 0.4110 -
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1.2643 0.1416 1950.0000 2.8375 0.5247 0.4060 -
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1.1856 0.1430 1950.0000 2.7965 0.5141 0.4031 -
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0.8112 0.1478 1950.0000 2.8958 0.5154 0.4053 -
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40.5 418.0000 83.7994 0.0324 88.0614 11.3011
0.6086 0.1482 1950.0000 3.1762 0.5292 0.4128 -
327.1995 6748.1870 0.5000 314.8416 1889.4980 2422.5347
40.0 434.0000 83.7994 0.0324 88.0614 11.3011
0.6086 0.1472 1950.0000 3.6167 0.5508 0.4220 -
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29.0 429.0000 83.7994 0.0324 88.0614 11.3011
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~Version Information
VERS  .          2.0                              :CWLS Log Ascii Standard -
Version 2.0
WRAP  .          NO                               :One line per depth step
~Well Information Block
#MNEM.UNIT       Data Type                        Information
#---------       ---------                        ------------------------------
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STRT  .F         30.00000                         :START DEPTH
STOP  .F         1005.00000                       :STOP DEPTH
STEP  .F          0.50000                         :INCREMENT
NULL  .          -999.25                          :NULL DATA VALUE
COMP  .          Kleinfelder                      :COMPANY
WELL  .          R-28                             :WELL
FLD   .          Los Alamos Characterization and Monitoring Wells   :FIELD
LOC   .                                           :LOCATION
PROV  .                                           :PROVINCE
STAT  .                                           :STATE
CNTY  .                                           :COUNTY
CTRY  .                                           :COUNTRY
DATE  .                                           :DATE
UWI   .          R-28                             :UNIQUE WELL UWI
LIC   .                                           :LICENSE NUMBER
API   .                                           :API NUMBER
SRVC  .          SLB                              :SERVICE COMPANY
~Parameter Information Block
#MNEM.UNIT       Value                            Description
#---------       ---------                        -------------
LONG  .DEG       -106.250000                      :Well Surface Location
LATI  .DEG       35.840000                        :Well Surface Location
XWELL .F         YWELL .F         ~Curve Information Block
#MNEM.UNIT       API Code            Curve    Description
#--------        --------------      -----    -------------------
DEPT  .F                             :0       Index
GR    .GAPI                          :1       Gamma Ray - environmentally
corrected and depth-matched to NGS
~Ascii Data Section
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     30.50000     189.86873
     31.00000     190.82631
     31.50000     185.64140
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711.00000	111.53363
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715.50000	92.70171
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717.00000	100.44448
717.50000	101.21664
718.00000	103.64205
718.50000	105.87046
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720.50000	111.53746
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723.50000	97.30984

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771.50000	101.28048
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778.50000	142.58723
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779.50000	142.68463
780.00000	138.70947
780.50000	133.52968

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782.50000	130.60864
783.00000	130.21165
783.50000	130.64818
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784.50000	135.76176
785.00000	137.90565
785.50000	136.75848
786.00000	136.44908
786.50000	135.49152
787.00000	134.86903
787.50000	134.09837
788.00000	134.61301
788.50000	134.59207
789.00000	135.99452
789.50000	137.84566
790.00000	137.94267
790.50000	139.78438
791.00000	136.16966
791.50000	133.47847
792.00000	121.33423
792.50000	108.50979
793.00000	94.84215
793.50000	88.40240
794.00000	83.16567
794.50000	79.64748
795.00000	78.85349
795.50000	78.86089
796.00000	79.07854
796.50000	79.19180
797.00000	83.28667
797.50000	84.91505
798.00000	84.55288
798.50000	83.77385
799.00000	82.71503
799.50000	82.55504
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803.00000	82.92090
803.50000	82.51225
804.00000	82.19398
804.50000	82.88516
805.00000	81.10708
805.50000	82.44071
806.00000	83.13016
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807.50000	86.84676
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809.00000	121.18221

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837.00000	137.54379
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842.50000	136.94460
843.00000	139.67043
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844.50000	139.81406
845.00000	137.51224
845.50000	137.44745
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855.00000	145.21449
855.50000	146.11386
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861.50000	141.81793
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862.50000	144.60007
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893.00000	108.39381
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1002.50000	130.15829
1003.00000	130.15829
1003.50000	130.15829
1004.00000	130.15829
1004.50000	130.15829
1005.00000	130.15829

Appendix D

Lithology Log

Lithologic Descriptions of Drill Cuttings at Borehole R-28

Geologic Unit	Lithologic Description*	Sample Interval (ft)	Elevation Range (ft above msl)
Qal, alluvium	Unconsolidated sediments, silty sand (SM) with gravel, grayish orange pink (5YR 7/2), sand grains subangular to sub rounded, gravel clasts up to 1.5 cm. +10F (i.e., plus No. 10 sieve-size fraction): 50% lithics, 50% volcanics. +35F (i.e., plus No. 35 sieve-size fraction): 80% quartz and sanidine crystals, 20% lithics.	0-15	6728.53-6713.53
	Unconsolidated sediments, silty sand (SM) with gravel, grayish orange pink (5YR 7/2), sand grains subangular to subrounded, gravel clasts up to 1.5 cm. +10F: similar to previous interval, 50% lithics, 50% volcanics. +35F: 80% quartz and sanidine crystals, 20% lithics. No core recovered in the interval 14.0-16.5 ft bgs.	15-25	6713.53-6703.53
	Unconsolidated sediments, silty sand to clayey sand (SM-SC) with gravel, grayish orange (10YR 7/4).	25-30	6703.53-6698.53
	Unconsolidated sediments, silty sand (SM) with gravel, grayish orange pink (5YR 7/2), sand grains subangular to subrounded, gravel clasts up to 1.5 cm. WR (i.e., unseived whole rock sample): 50-70% quartz and sanidine crystals, 30-50% tuff fragments and volcanic lithics. Core in the interval 34.0-36.0 ft bgs is comprised of reddish gray (5YR 4/2), very fine sand (SP) containing 70% fragments of moderately welded tuff, 10% orange-colored pumices (up to 0.5 cm), and 20% quartz and sanidine crystals.	30-55	6698.53-6673.53
	Unconsolidated sediments, silty sand (SM) with gravel, light brown (5YR 5/6), sand grains angular to subangular, gravel clasts up to 2.8 cm. WR: 50-60% quartz and sanidine crystals, 40-60% volcanic lithics and tuff fragments.	55-65	6673.53-6663.53
	Unconsolidated sediments, silty sand (SM) with clay and gravel, light brown (5YR 6/4), fine to medium sand, grains subangular to subrounded, gravel clasts up to 2.2 cm. WR: 20-30% quartz and sanidine crystals, 70-80% tuff fragments. Core in the interval 64.0-66.3 ft bgs is comprised of light brownish gray (7.5YR 6/4) fine sand (SP) containing 50% weakly welded tuff fragments; 10% vitric pumice; 10% glassy shards and ash, and 30% quartz and sanidine phenocrysts.	65-80	6663.53-6648.53
	Unconsolidated sediments, silty sand (SM), light to medium brown (5YR 6/4), fine to medium sand, grains subangular to subrounded, gravel clasts up to 2.2 cm. WR: 60% quartz and sanidine crystals, 40% tuff fragments. Note: the base of alluvium and contact with the underlying Otowi Member of the Bandelier Tuff is estimated to be at 90 ft bgs.	80-90	6648.53-6638.53
Qbo, Ash flows of the Otowi Member of the Bandelier Tuff	Volcanic tuff, grayish orange pink (5YR 7/2), pumice-rich, moderately welded. +10F: 99% vitric pumice (2 to 10 mm, fresh), trace quartz and sanidine crystals plus lithics.	90-95	6638.53-6633.53
	Volcanic tuff, grayish orange pink (5YR 7/2), pumice-rich, moderately welded. +10F: similar to the previous interval, 60-70% vitric pumice (2 to 5 mm), trace quartz and sanidine crystals plus lithics. No core recovered in the interval 95.0-105.0 ft bgs.	95-100	6633.53-6628.53

Lithologic Descriptions of Drill Cuttings at Borehole R-28

Geologic Unit	Lithologic Description*	Sample Interval (ft)	Elevation Range (ft above msl)
	Volcanic tuff, moderate orange pink (5YR 7/4), pumice-rich, moderately welded. +10F: 60-80% Fe-oxide-stained vitric pumice (3 to 20 mm), 20-40% dacite and andesite lithic fragments. +35F: dominantly pumice with minor quartz and sanidine crystals, minor lithics; strong Fe-oxide staining.	100-110	6628.53-6608.53
	Volcanic tuff, grayish orange pink (5YR 7/2), pumice-rich, moderately welded. +10F: 60-80% Fe-oxide-stained vitric pumice (2 to 9 mm), 20-40% dacite and andesite lithic fragments. Core in the interval 122.5-123.5 ft bgs is weakly welded to nonwelded tuff composed of 10% vitric pumice and 10% glassy shards in a matrix of fine ash (80% by volume). No core recovery at 110.0-116.5 ft bgs.	110-125	6608.53-6603.53
	Volcanic tuff, grayish orange pink (5YR 7/2), pumice-rich, moderately welded. +10F: similar to previous interval, 75-90% vitric pumice (2 to 3 mm), 20-40% dacite and andesite lithic fragments.	125-140	6603.53-6588.53
	Volcanic tuff, grayish orange pink (5YR 7/2), pumice-rich, moderately welded. +10F: similar to previous interval, 50% vitric pumice, 50% volcanic lithic fragments. No core attempted at 142.0-144.0 ft bgs.	140-145	6588.53-6583.53
	Volcanic tuff, grayish orange pink (5YR 7/2). +10F: composed of 10-20% Fe-oxide stained vitric pumice (3 to 12 mm), 80-90% volcanic lithic fragments, trace quartz and sanidine crystals. +35F: dominantly volcanic lithic fragments including dacite, rhyodacite, and andesite.	145-165	6583.53-6563.53
	Volcanic tuff, grayish orange pink (10YR 7/2), moderately welded. +10F: composed of 10-20% vitric pumice (2 to 7 mm), some Fe-oxide stained; 80-90% volcanic lithic fragments (1 to 5 mm), plus trace quartz and sanidine crystals. +35F: dominantly quartz and sanidine crystals and volcanic lithics, 20-30% pumice. Core in the interval 171.5-172.1 ft bgs is weakly welded tuff composed of 10% vitric pumice (up to 0.5 cm), 10% quartz and sanidine phenocrysts, and 5% dacitic xenoliths (up to 0.5 cm) in a matrix of fine ash (75% by volume).	165-185	6563.53-6543.53
	Volcanic tuff, grayish orange pink (10YR 7/2), moderately welded. +10F: similar to previous interval, composed of 10-20% vitric pumice (2 to 7 mm), some Fe-oxide stained; 80-90% volcanic lithic fragments (1 to 5 mm), plus trace quartz and sanidine crystals. +35F: dominantly quartz and sanidine crystals and volcanic lithics, 20-30% pumice.	185-205	6543.53-6523.53
	Volcanic tuff, grayish orange pink (10YR 7/2), pumice-rich, crystal-rich, moderately welded. +10F: composed of 30-40% vitric pumice, some Fe-oxide stained; 50-60% volcanic lithic fragments (2 to 7 mm), plus trace quartz and sanidine crystals. +35F: dominantly quartz and sanidine crystals and volcanic lithics, 5-10% pumice.	205-225	6523.53-6503.53
	Volcanic tuff, grayish orange pink (10YR 7/2), pumice-rich, crystal-rich, moderately welded. +10F: similar to previous interval; composed of 30-40% vitric pumice, some Fe-oxide stained; 50-60% volcanic lithic fragments (2 to 7 mm), plus trace quartz and sanidine crystals. +35F: dominantly quartz and sanidine crystals and volcanic lithics, 5-10% pumice.	225-245	6503.53-6483.53

Lithologic Descriptions of Drill Cuttings at Borehole R-28

Geologic Unit	Lithologic Description*	Sample Interval (ft)	Elevation Range (ft above msl)
	Volcanic tuff, grayish orange pink (10YR 7/2), pumice-rich, crystal-rich, moderately welded. +10F: similar to previous interval; composed of 70-80% vitric pumice, some Fe-oxide stained; 10-15% volcanic lithic fragments (2 to 7 mm), plus trace quartz and sanidine crystals. +35F: dominantly quartz and sanidine crystals and volcanic lithics, 5-10% pumice. No core attempted from 246.5-249.0 ft bgs.	245-255	6483.53-6473.53
	Volcanic tuff, grayish orange pink (5YR 7/2), crystal-rich, nonwelded. +10F: composed of vitric pumice (2- 6mm), andesitic and dacitic lithic fragments (2 to 5 mm), plus quartz and sanidine crystals. +35F: dominantly quartz and sanidine crystals and volcanic lithics, 10-15% pumice.	255-275	6473.53-6453.53
	Volcanic tuff, grayish orange pink (5YR 7/2), crystal-rich, nonwelded. +10F: similar to previous interval; composed of vitric pumice (2- 6mm), andesitic and dacitic lithic fragments (2 to 5 mm), plus quartz and sanidine crystals. +35F: dominantly quartz and sanidine crystals and volcanic lithics, 10-15% pumice.	275-295	6453.53-6433.53
	Volcanic tuff/tuffaceous sediments, pinkish gray (5YR 8/1) to grayish orange pink (5YR 7/2), pumice-rich, nonwelded. +10F: composed of 95% fresh vitric pumice (up to 0.7 cm), 5% dacite and basalt lithic fragments (up to 0.3 cm). Note: The base of the Otowi Member and contact with the underlying Guaje Pumice Bed is interpreted to be at 297 ft bgs	295-305	6433.53-6423.53
Qbog, Guaje Pumice Bed of the Otowi member Tb, Cerros del Rio Basalt	Volcanic tuff/tuffaceous sediments, grayish orange pink (5YR 7/2) to very pale orange (10YR 8/2), pumice-rich, nonwelded. +10F: no sample represented in this sieve fraction. +35F: dominantly fresh pumice fragments, some quartz and sanidine crystals, trace volcanic lithics. Core in the interval 299.0-302.8 ft bgs is white (N9), nonwelded, friable vitric tuff/tephra composed of 40% pumice fragments, 40% quartz and sanidine crystals, and 10-20% volcanic lithic clasts. Note: the base of the Guaje Pumice Bed and contact with the underlying soil is interpreted to be at 315 ft bgs. Soil layer is probable from 315 ft to 318 ft bgs.	305-325	6423.53-6403.53
Tb, Cerros del Rio Basalt	Basalt, medium dark gray (N4). WR/+10F: composed dominantly of porphyritic basalt with aphanitic groundmass, vesicular; phenocrysts of olivine, pyroxene, plagioclase; groundmass pitted, corroded; some white pumice present in sample (probable contamination from higher in borehole).	325-340	6403.53-6388.53
	Basalt, medium dark gray (N4) to black WR/+10F: composed dominantly of porphyritic basalt with aphanitic groundmass, vesicular; phenocrysts of olivine, pyroxene, plagioclase; groundmass pitted, corroded; trace white pumice.	340-350	6388.53-6378.53
	Volcanic sediments/tuffaceous sediments, very light gray (N8), pumice-rich. +10F: 90-95% vitric pumice, fresh (up to 6 mm); 5-10% basalt and dacite lithic clasts. +35F: crystal-rich, rare pumice fragments.	350-365	6378.53-6363.53

Lithologic Descriptions of Drill Cuttings at Borehole R-28

Geologic Unit	Lithologic Description*	Sample Interval (ft)	Elevation Range (ft above msl)
	Volcanic sediments, very light gray (N8), pumice-rich. +10F: similar to previous interval; 85-90% pumice, fresh (up to 4 mm); 5-10% basalt and dacite lithic clasts. +35F: crystal-rich, 10-15% pumice fragments. The crystal-rich, rhyolitic mixture of the pumices in this interval suggests they may represent cuttings recirculated from the Otowi Member.	365-375	6363.53-6353.53
	No cuttings returned; no sample available for examination.	375-395	6353.53-6333.53
	Basalt, medium gray (N5). WR/+10F: composed dominantly of porphyritic basalt with aphanitic groundmass, vesicular; phenocrysts of olivine, pyroxene, plagioclase; groundmass pitted; white amygdaloidal clay filling vesicles.	395-400	6333.53-6328.53
	No cuttings returned; no sample available for examination.	400-415	6328.53-6313.53
	Basalt, medium dark gray (N4). WR/+10F: composed dominantly of porphyritic basalt with aphanitic groundmass, vesicular; phenocrysts of olivine, pyroxene, plagioclase; locally pitted groundmass; 5-10% pumice. +35F: reddish, weathered basalt.	415-435	6313.53-6293.53
	Basalt/dacite, medium gray (N5), porphyritic with aphanitic groundmass, vesicular. +10F: dacite fragments (up to 1.1 cm); phenocrysts (15-20% volume) include pyroxene and feldspar; groundmass strongly sericitized; 10-15% vesicular basalt fragments.	435-450	6293.53-6278.53
	Basalt/dacite, medium gray (N5), porphyritic with aphanitic groundmass, vesicular. WR/+10F: dacite fragments (up to 6 mm); phenocrysts (15-20% volume) include pyroxene and feldspar; groundmass strongly sericitized; 10% vesicular basalt fragments.	450-475	6278.53-6253.53
	Basalt/dacite, medium gray (N5), porphyritic with aphanitic groundmass, vesicular. WR/+10F: similar to the previous sample interval; dacite fragments (up to 6 mm); phenocrysts (15-20% volume) include pyroxene and feldspar; groundmass strongly sericitized; 10% vesicular basalt fragments.	475-490	6253.53-6238.53
	Basalt/dacite, medium gray (N5), porphyritic with aphanitic groundmass, vesicular. WR/+10F: similar to the previous sample interval; dacite fragments (up to 6 mm); phenocrysts (15-20% volume) include pyroxene and feldspar; groundmass strongly sericitized and bleached; 10% vesicular basalt fragments.	490-510	6238.53-6218.53
	Basalt/dacite, medium gray (N5) to dark gray (N3), porphyritic with aphanitic groundmass, massive. +10F: phenocrysts are highly weathered (1-2 mm); chip fragments increasingly rounded with depth.	510-535	6218.53-6193.53
	Basalt/dacite, medium red (5YR 4/6), porphyritic with aphanitic groundmass, massive to vesicular. +10F: similar to previous interval; 20-30% weathered basalt, phenocrysts are highly weathered (1-2mm).	535-545	6193.53-6183.53
	Basalt, medium gray (N5) to dark gray (N3), porphyritic with aphanitic groundmass, massive to vesicular. +10F: 60% reddish (5YR 4/6) weathered basalt, vesicular; phenocrysts are highly weathered (1-2 mm); groundmass pitted, local white to light brown clay filling cavities.	545-565	6183.53-6163.53
	Basalt, medium gray (N5) to dark gray (N3), porphyritic with aphanitic groundmass, vesicular to scoriaceous. WR/+10F: 60-70% gray basalt, 30-40% reddish scoria with corroded appearance; local white to light brown clay filling some vesicles.	565-590	6163.53-6138.53

Lithologic Descriptions of Drill Cuttings at Borehole R-28

Geologic Unit	Lithologic Description*	Sample Interval (ft)	Elevation Range (ft above msl)
	Basalt, medium gray (N5) to dark gray (N3), porphyritic with aphanitic groundmass, vesicular to scoriaceous. WR/+10F: similar to previous sample interval; 60-70% gray basalt, 30-40% reddish scoria with corroded appearance; local white to light brown clay filling some vesicles.	590-610	6138.53-6118.53
	Basalt, medium gray (N5) to dark gray (N3), porphyritic with aphanitic groundmass, vesicular to scoriaceous. WR/+10F: similar to previous sample interval; 60-70% gray basalt, 30-40% reddish scoria with corroded appearance; local white to light brown clay filling some vesicles.	610-630	6118.53-6098.53
	Basalt, medium gray (N5) to dark gray (N3), porphyritic with aphanitic groundmass, massive to vesicular. WR/+10F: similar to previous sample interval; 80-90% gray massive basalt, 10-20% weathered basalt.	630-645	6098.53-6083.53
	Basalt, medium gray (N5) to dark gray (N3), massive to vesicular. WR/+10F: similar to previous sample interval; dominantly gray massive basalt with minor vesicular basalt; no weathered basalt present.	645-665	6083.53-6063.53
Tpf, Puye Formation	Volcaniclastic sediments, sand with gravel (SW), very light gray (N8) to medium dark gray (N4), fine to coarse sand, gravel clasts broken to subrounded (up to 1.2 cm). +10F: detrital clasts composed of porphyritic dacite, andesite, pumice, and various felsic volcanic rocks.	665-675	6063.53-6053.53
	Volcaniclastic sediments, sand (SW) with gravel, very light gray (N8) to medium dark gray (N4), fine to coarse sand, gravel clasts broken to subrounded. +10F: similar to previous sample interval, detrital clasts composed of porphyritic dacite, minor basalt, andesite, pumice, and various felsic volcanic rocks.	675-695	6053.53-6033.53
	Volcaniclastic sediments, silty sand (SM) with gravel, very light gray (N8) to medium dark gray (N4), silty sand (SM) with gravel, gravel clasts broken to subrounded (up to 1.0 cm). +10F: detrital clasts composed of porphyritic dacite, minor basalt, andesite, pumice, and trace Precambrian granitic rock.	695-715	6033.53-6013.53
	Volcaniclastic sediments, silty sand (SM) with gravel, very light gray (N8) to medium gray (N5), gravel clasts broken to subrounded (up to 1.5 cm). +10F: similar to previous sample interval; detrital clasts composed of porphyritic andesite, rhyolite, minor basalt, trace quartzite and pumice.	715-730	6013.53-5998.53
	Volcaniclastic sediments, silty sand (SM) with gravel, very light gray (N8) to medium gray (N5), gravel clasts broken to subrounded (up to 1.5 cm). +10F: similar to previous sample interval; detrital clasts composed of andesite, rhyolite, quartzite, plus minor basalt and dacite.	730-745	5998.53-5983.53
	Clastic sediments, silty sand (SM) with gravel, very light gray (N8), gravel clasts broken to subrounded (up to 5 mm). +10F: detrital clasts composed of porphyritic dacite, andesite, granitic rocks, quartzite, plus trace basalt, pumice, and rhyolite.	745-765	5983.53-5963.53
	Clastic sediments, silty sand (SM) with gravel, very light gray (N8), gravel clasts broken to subrounded (up to 5 mm). +10F: similar to previous sample interval; detrital clasts composed of porphyritic dacite, andesite, granitic rocks, quartzite, plus minor basalt, pumice, and rhyolite.	765-780	5963.53-5948.53

Lithologic Descriptions of Drill Cuttings at Borehole R-28

Geologic Unit	Lithologic Description*	Sample Interval (ft)	Elevation Range (ft above msl)
	Clastic sediments, silty sand (SM) with gravel, very light gray (N8), gravel clasts broken to subrounded (up to 5 mm). +10F: similar to previous sample interval; detrital clasts composed of porphyritic dacite, rhyodacite, andesite, minor quartzite, basalt, and trace pumice.	780-800	5948.53-5928.53
	Volcaniclastic sediments, gravelly sand (SP), light brownish gray (5YR 6/1) to medium light gray (N6), gravel clasts broken to subrounded (up to 9 mm). +10F: detrital clasts composed of porphyritic dacite, rhyodacite, andesite, plus minor basalt and quartzite.	800-820	5928.53-5908.53
	Volcaniclastic sediments, gravelly sand (SP), light brownish gray (5YR 6/1) to medium light gray (N6), gravel clasts broken to subrounded (up to 9 mm). +10F: similar to previous sample interval, detrital clasts composed of porphyritic dacite, rhyodacite, andesite, plus minor basalt and quartzite.	820-840	5908.53-5888.53
	Volcaniclastic sediments, gravelly sand (SP), light brownish gray (5YR 6/1) to medium light gray (N6), gravel clasts broken to subrounded (up to 9 mm). +10F: similar to previous sample interval, detrital clasts composed of porphyritic dacite, rhyodacite, andesite, plus minor basalt and quartzite.	840-860	5888.53-5868.53
	Volcaniclastic sediments, clayey sand (SC) with gravel, light brownish gray (5YR 6/1) to medium light gray (N6), gravel clasts broken to subrounded (up to 1.2 cm). +10F: detrital clasts composed of porphyritic dacite, rhyodacite, andesite, and minor basalt.	860-880	5868.53-5848.53
	Volcaniclastic sediments, clayey sand (SC) with gravel, light brownish gray (5YR 6/1) to medium light gray (N6), gravel clasts broken to subrounded (up to 1.2 cm). +10F: similar to previous sample interval; detrital clasts composed of porphyritic dacite, rhyodacite, andesite, and minor basalt.	880-890	5848.53-5838.53
	No cuttings returned; no sample available for examination.	890-900	5838.53-5828.53
	Volcaniclastic sediments, gravelly sand (SP), light brownish gray (5YR 6/1) to medium light gray (N6), gravel clasts broken to subrounded (up to 1.0 cm). +10F: detrital clasts composed of porphyritic dacite, andesite, minor basalt, pumice, and quartzite.	900-920	5828.53-5808.53
	Volcaniclastic sediments, gravelly sand (SP), light brownish gray (5YR 6/1) to medium light gray (N6), gravel clasts broken to subrounded (up to 1.0 cm). +10F: similar to previous sample interval; detrital clasts composed of porphyritic dacite, andesite, minor basalt, pumice, and quartzite.	920-945	5808.53-5783.53
	Volcaniclastic sediments, sand (SW) with gravel, light brownish gray (5YR 6/1) to medium light gray (N6), gravel clasts broken to subrounded. +10F: similar to previous sample interval; detrital clasts composed of porphyritic dacite, andesite, minor basalt, and quartzite; contains up to 10% fresh vitric pumice fragments.	945-970	5783.53-5758.53
	Volcaniclastic sediments, sand (SW) with gravel, light brownish gray (5YR 6/1) to medium light gray (N6), broken to subrounded pebbles up to 1.4 cm. +10F: detrital clasts composed of porphyritic dacite, andesite, up to 10% pumice fragments, minor basalt, vitrophyre, and rhyodacite.	970-990	5758.53-5738.53

Lithologic Descriptions of Drill Cuttings at Borehole R-28

Geologic Unit	Lithologic Description*	Sample Interval (ft)	Elevation Range (ft above msl)
	Volcaniclastic sediments, sand (SW) with gravel, light brownish gray (5YR 6/1) to medium light gray (N6), pumiceous, broken to subrounded pebbles up to 1.4 cm. +10F: similar to previous sample interval; detrital clasts composed of porphyritic dacite, andesite, up to 40% pumice fragments, minor basalt, vitrophyre, and rhyodacite.	990-995	5738.53-5733.53
	Volcaniclastic sediments, sand (SW) with gravel, light brownish gray (5YR 6/1) to medium light gray (N6), broken to subrounded pebbles up to 1.4 cm. +10F: similar to interval 970-990 ft bgs; detrital clasts composed of porphyritic dacite, andesite, up to 10% pumice fragments, minor basalt, vitrophyre, and rhyodacite.	995-1005	5733.53-5723.53
	BOREHOLE TOTAL DEPTH IS 1005 FT BGS.		

*Descriptions presented in this lithlog are primarily based on those made during visual examination of the drill cuttings. Descriptions are supplemented with descriptions of core from 0 ft to 325 ft.

REFERENCE

ASTM D 2488-90. Standard Practice and Identification of Soils (Visual-Manual Procedure)

Munsell Color Chart, 1988. Color Identification System.

American Society for Testing Materials (ASTM) standards were used in describing the texture of drill chip samples for sedimentary rocks such as alluvium and the Puye Fanglomerate. ASTM method D 2488-90 incorporates the Unified Soil Classification System (USCS) as a standard for field examination and description of soils. The following is a glossary of standard USCS symbols used in the R-28 lithlog.

SW	Well-graded sand	SM	Silty sand
SP	Poorly graded sand	SM-SC	Silty sand to clayey sand, transitional

Note: The term "per cent" (%), as used in the above descriptions, refers to relative abundance by volume for a given sample component.

Note: Contact locations are based on cuttings retrieval. There is general agreement between this borehole log and the geophysics report, but some differences will be noted.

Note: Core samples were collected and described in the R-28 interval from 0 to 325 ft bgs. Samples of drill cuttings were collected in the interval from 0 to 1005 ft bgs.

Note: Cuttings were collected at nominal 5-ft intervals and divided into three sample splits: (1) unsieved, or whole rock (WR), sample; (2) +10F sieved fraction (No. 10 sieve equivalent to 2.0 mm); and (3) +35F sieved fraction (No. 35 sieve equivalent to 0.5 mm).

Appendix E

Hydrologic Testing Report and Test Data
(CD included)

Introduction

This section describes the analysis of constant-rate pumping tests conducted on R-28. The primary objective of the analysis was to determine the hydraulic properties of the sediments screened in R-28. Similar to the pumping test conducted previously in R-1, the R-28 testing incorporated an inflatable packer above the pump to isolate the producing zone, minimize barometric effects, and eliminate the effects of casing storage on the measured data.

R-28 was first test pumped in early February 2004. Results of that test were not entirely satisfactory because of leaks in the pumping string installed in the well. First, the 1-inch drop pipe used to hang the pump leaked during the test, allowing water to enter the annulus between the drop pipe and the 5-inch OD well casing, above the packer. It is likely that water accumulated above the packer, eventually creating enough head to force water past the packer and back into the producing zone. The result of this was a changing (decreasing) discharge rate during the test.

Second, the check valve on the pump leaked following both the constant-rate pumping test and the step-drawdown test (prior to the constant-rate test), allowing water in the lower portion of the drop pipe to drain back into the well. This affected both the time-drawdown and recovery data sets. During pumping, with the drop pipe partially drained at the time of startup, the initial pumping operated against low head and, therefore, produced more water than the design rate until the drop pipe was full. During recovery, water draining back into the producing zone artificially raised the water level in the well.

Because of these occurrences, the test was rerun in early March to obtain additional hydraulic data, particularly early recovery data. During the second test, despite installing two additional check valves immediately above the pump, a very slow check valve leak occurred, affecting the time-drawdown data slightly, but having no effect on the recovery data. The rerun test in March used a 100-psi pressure transducer, providing better precision than the 30-psi unit used in the first test.

Test 1 was started at 11:02 am on February 5, 2004 at 9.8 gpm and continued for 24 hours until 11:02 am on February 6. Following pump shutoff, recovery data were measured for an additional 24 hours. After collecting the recovery data set, water level monitoring continued until 10:50 am on February 9. The late data served as a background data set.

Test 2 was started at 9:36 pm on March 7 at 12.9 gpm and continued for 300 minutes until 2:36 am on March 8. Recovery data were measured for 515 minutes until 11:11 am on March 8.

Background Data

The background water level data collected in conjunction with running the pumping test allow the analyst to see what water level fluctuations occur naturally in the aquifer and help distinguish between water level changes caused by conducting the pumping test and changes associated with other causes.

Background water level fluctuations have several causes, among them barometric pressure changes, operation of other wells in the aquifer, earth tides and long-term trends related to

weather patterns. The background data hydrograph from the R-28 tests was compared to barometric pressure data from the area to determine if a correlation existed.

Previous pumping tests have demonstrated a barometric efficiency for most wells of between 90 and 100 percent. Barometric efficiency is defined as the ratio of water level change divided by barometric pressure change, expressed as a percentage. In the early pumping tests conducted as part of this project, down hole pressure was monitored using a vented transducer. This equipment measures the difference between the total pressure applied to the transducer and the barometric pressure, this difference being the true height of water above the transducer.

The R-28 pumping test, on the other hand, utilized a non-vented transducer. This device simply records the total pressure on the transducer, that is, the sum of the water height plus the barometric pressure. This results in an attenuated "apparent" hydrograph in a barometrically efficient well. Take as an example a 90 percent barometrically efficient well. When monitored using a vented transducer, an increase in barometric pressure of 1 unit causes a decrease in recorded down-hole pressure of 0.9 units, because the water level is forced downward 0.9 units by the barometric pressure change. However, using a non-vented transducer, the total measured pressure increases by 0.1 units (the combination of the barometric pressure increase and the water level decrease). Thus, the resulting apparent hydrograph changes by a factor of 100 minus the barometric efficiency, and in the same direction as the barometric pressure change, rather than in the opposite direction.

Barometric pressure data were obtained from the Los Alamos National Laboratory TA-54 tower site from RRES-Meteorology and Air Quality. The TA-54 measurement location is at an elevation of 6548 feet above mean sea level (amsl), whereas the wellhead elevation is 6739 feet amsl. Furthermore, the static water level in R-28 was about 892 feet below land surface, making the water table elevation 5847 feet amsl. Therefore, the measured barometric pressure data from TA-54 had to be adjusted to reflect the pressure at the elevation of the water table within R-28.

The following formula was used to adjust the measured barometric pressure data:

$$P_{WT} = P_{TA54} \exp\left[-\frac{g}{3.281R} \left(\frac{E_{R28} - E_{TA54}}{T_{TA54}} + \frac{E_{WT} - E_{R28}}{T_{WELL}} \right) \right] \tag{1}$$

where,

P_{WT} = barometric pressure at the water table inside R4
P_{TA54} = barometric pressure measured at TA-54
g = acceleration of gravity, in m/sec^2 (9.80665 m/sec^2)
R = gas constant, in J/Kg/degree Kelvin (287.04 J/Kg/degree Kelvin)
E_{R28} = land surface elevation at R-28, in feet (6739 feet)
E_{TA54} = elevation of barometric pressure measuring point at TA-54, in feet (6548 feet)
E_{WT} = elevation of the water level in R-28, in feet (5847 feet)
T_{TA54} = air temperature near TA-54, in degrees Kelvin (assigned a value of 22 degrees Fahrenheit, or 267.6 degrees Kelvin)
T_{WELL} = air temperature inside R-28, in degrees Kelvin (assigned a value of 69 degrees Fahrenheit, or 293.7 degrees Kelvin)

This formula is an adaptation of an equation provided by RRES-Meteorology and Air Quality. It can be derived from the ideal gas law and standard physics principles. An inherent assumption in the derivation of the equation is that the air temperature between TA-54 and the well is temporally and spatially constant, and that the temperature of the air column in the well is similarly constant.

The corrected barometric pressure data reflecting pressure conditions at the water table were compared to water level hydrograph to discern the correlation between the two.

Thick Aquifer Response

A complicating aspect of the R-well pumping tests is that the wells are severely partially penetrating. The typical well design incorporates a relatively short well screen (a few feet to tens of feet in length) installed within a massively thick aquifer (many hundreds of feet or more). As a result, during pumping, the cone of depression expands not only horizontally, but also vertically, throughout the test. As the cone intercepts a greater and greater aquifer thickness, the data plot reflects a steadily flattening slope, corresponding to the continuously increasing vertical height of the zone of investigation. As a result, later data tend to produce a greater calculated transmissivity than do early data. This complicates the analysis because, for any given slope (or transmissivity value), it is not possible to know what the corresponding aquifer thickness is (vertical extent of the cone of depression).

If an aquitard is encountered at depth, limiting the vertical growth of the cone of depression, the data curve may reach a steady slope, reflecting the transmissivity of the sediments above the aquitard. In that case, a definitive transmissivity can be determined and the hydraulic conductivity can be calculated by dividing the transmissivity by the saturated thickness above the aquitard (if that dimension is known). If no aquitard is encountered, the drawdown curve gets steadily flatter, reflecting a continuum of transmissivities corresponding to the effective depth of the cone of depression at any given time.

Importance of Early Data

When pumping or recovery first begins, the vertical extent of the cone of depression is limited to approximately the well screen length. For most R-well pumping tests, these first few moments of pumping are the only time that the effective height of the cone of depression is known with certainty. Thus, the early data potentially offer the best opportunity to obtain hydraulic conductivity information, because conductivity would equal the earliest-time transmissivity divided by the well screen length.

Unfortunately, in the R-wells, casing storage effects dominate the early-time data, hindering the effort to determine the transmissivity of the screened interval. The duration of casing storage effects can be estimated using the following equation (Schafer, 1978).

$$t_c = \frac{0.6\left(D^2 - d^2\right)}{\frac{Q}{s}} \qquad (2)$$

where,

t_c = duration of casing storage effect, in minutes
D = inside diameter of well casing, in inches (4.5 inches)
d = outside diameter of column pipe, in inches (2.375 inches)
Q = discharge rate, in gpm
s = drawdown observed in pumped well at time t_c, in feet

In some instances, it may be possible to eliminate casing storage effects by setting an inflatable packer above the tested screen interval prior to conducting the test. Therefore, this option was implemented for the R-28 pumping test. As described later, using the packer was effective at preventing casing drainage during the test, thereby eliminating casing storage effects.

Time-Drawdown Methods

Time-drawdown data can be analyzed using a variety of methods. Among them is the Cooper-Jacob method (1946), a simplification of the Theis equation (1935) that is mathematically equivalent to the Theis equation for pumped well data. The Cooper-Jacob equation describes drawdown around a pumping well as follows:

$$s = \frac{264Q}{T} \log \frac{0.3Tt}{r^2 S} \tag{3}$$

where,

s = drawdown, in feet
Q = discharge rate, in gpm
T = transmissivity, in gpd/ft
t = pumping time, in days
r = distance from center of pumpage, in feet
S = storage coefficient (dimensionless)

The Cooper-Jacob equation is a simplified approximation of the Theis equation and is valid whenever the u value is less than about 0.05, where u is defined as follows:

$$u = \frac{1.87 r^2 S}{Tt} \tag{4}$$

For small radius values (e.g., corresponding to borehole radii), u is less than 0.05 at very early pumping times and, therefore, is less than 0.05 for all measured drawdown values. Thus, for the pumped well, the Cooper-Jacob equation can be considered a valid approximation of the Theis equation.

According to the Cooper-Jacob method, the time-drawdown data are plotted on a semilog graph, with time plotted on the logarithmic scale. Then a straight line of best fit is constructed through the data points and transmissivity is calculated using:

$$T = \frac{264Q}{\Delta s} \tag{5}$$

where,

T = transmissivity, in gpd/ft
Q = discharge rate, in gpm
Δs = change in head over one log cycle of the graph, in feet

Because the R-wells are severely partially penetrating, an alternate solution considered for determining aquifer parameters is the Hantush equation for partially penetrating wells (1961a, b). The Hantush equation is as follows:

$$s = \frac{Q}{4\pi T}\left(W(u) + \frac{2b^2}{\pi^2 (l-d)(l'-d')}\sum_{n=1}^{\infty}\frac{1}{n^2}\left[\sin\frac{n\pi l}{b} - \sin\frac{n\pi d}{b}\right]\left[\sin\frac{n\pi l'}{b} - \sin\frac{n\pi d'}{b}\right]W\left(u, \sqrt{\frac{K_z}{K_r}}\frac{n\pi r}{b}\right)\right) \quad (6)$$

where, in consistent units, s, Q, T, t, r, S, and u are as previously defined and

b = aquifer thickness
d = distance from top of aquifer to top of well screen in pumped well
l = distance from top of aquifer to bottom of well screen in pumped well
d' = distance from top of aquifer to top of well screen in observation well
l' = distance from top of aquifer to bottom of well screen in observation well
K_z = vertical hydraulic conductivity
K_r = horizontal hydraulic conductivity

In this equation, W(u) is the Theis well function and W(u,β) is the Hantush well function for leaky aquifers. For single-well tests, d = d' and l = l'.

Recovery Methods

Recovery data were analyzed by the several methods. One of the methods used was the Theis Recovery Method. This is a semi-log analysis method similar to the Cooper-Jacob procedure.

In this method, residual drawdown is plotted on a semi-log graph versus the ratio t/t', where t is the time since pumping began and t' is the time since pumping stopped. A straight line of best fit is constructed through the data points and T is calculated from the slope of the line as follows:

$$T = \frac{264Q}{\Delta s} \quad (5)$$

The recovery data are particularly useful compared to time-drawdown data. Because the pump is not running, spurious data responses associated with dynamic discharge rate fluctuations are eliminated. The result is that the data set is generally "smoother" and easier to analyze.

Recovery data also were analyzed using the Cooper-Jacob method and Hantush method described above. In applying these procedures, simple recovery (difference between residual drawdown and maximum drawdown observed at the end of the pumping period) was plotted versus recovery time (t'). Such a plot can be considered analogous to a time-drawdown plot and is accurate for early and middle data. For late data, this approach can lose accuracy.

Specific Capacity Method

The specific capacity of the pumped well can be used to obtain a lower-bound value of hydraulic conductivity. The hydraulic conductivity is computed using formulas that are based on the assumption that the pumped well is 100 percent efficient. The resulting hydraulic conductivity is the value required to sustain the observed specific capacity. If the actual well is less than 100 percent efficient, it follows that the actual hydraulic conductivity would have to be greater than calculated to compensate for well inefficiency. Thus, because the efficiency is unknown, the computed hydraulic conductivity value represents a lower bound. The actual conductivity is known to be greater than or equal to the computed value.

For fully penetrating wells, the Cooper-Jacob equation can be iterated to solve for the lower-bound hydraulic conductivity. However, the Cooper-Jacob equation (assuming full penetration) ignores the contribution to well yield from permeable sediments above and below the screened interval. To account for this contribution, it is necessary to use a computation algorithm that includes the effects of partial penetration. One such approach was introduced by Brons & Marting (1961) and augmented by Bradbury & Rothchild (1985).

Brons and Marting introduced a dimensionless drawdown correction factor, S_P, approximated by Bradbury and Rothschild as follows:

$$s_P = \frac{1-\frac{L}{b}}{\frac{L}{b}}\left[\ln\frac{b}{r_w} - 2.948 + 7.363\frac{L}{b} - 11.447\left(\frac{L}{b}\right)^2 + 4.675\left(\frac{L}{b}\right)^3\right] \tag{7}$$

In this equation, L is the well screen length, in feet. Incorporating the dimensionless drawdown parameter, the conductivity is obtained by iterating the following formula:

$$K = \frac{264Q}{sb}\left(\log\frac{0.3Tt}{r_w^2 S} + \frac{2s_P}{\ln 10}\right) \tag{8}$$

To apply this formula, a storage coefficient value must be assigned. Storage coefficient values for unconfined sand and gravel aquifers, such as the Puye Formation in which many of the R-wells are completed, typically range from a few percent to 20 percent or more, with the majority of the values falling between approximately 5 and 15 percent. Thus, in the absence of site-specific storage coefficient data for the Puye, a value of 0.1 is deemed to be a reasonable choice for performing the calculations for unconfined conditions. When confined conditions are encountered, the storage coefficient can be expected to range from about 10^{-5} to 10^{-3}, depending on aquifer thickness (the thicker the aquifer, the greater the storage coefficient). Typically, a value of 5×10^{-4} may be assigned for calculation purposes. The calculation result is not particularly sensitive to the choice of storage coefficient value, so a rough estimate of the storage coefficient is adequate to support the calculations.

The analysis also requires assigning a value for the saturated aquifer thickness, b, which is generally not known. Fortunately, the calculated value of hydraulic conductivity is usually insensitive to the selected aquifer thickness value, as long as the aquifer thickness is significantly greater than the screen length. This is because saturated aquifer materials far above or below the

screened interval contribute little to the yield of the well. Thus, it was expected that an approximate aquifer thickness estimate would suffice for the calculations.

Computing the lower-bound estimate of hydraulic conductivity can provide a useful frame of reference for evaluating the other pumping test calculations.

Data Analysis

This section presents the data obtained from the R-28 pumping tests and the results of the analytical analyses.

Background Data

Figure 1 shows the "apparent" water level hydrograph and the barometric pressure data recorded on February 8 and 9. The barometric pressure fluctuated over a range of more than 0.2 feet while the apparent hydrograph changed only a few hundredths of a foot. These data were recorded using a non-vented pressure transducer and with the packer deflated. The muted response range of the apparent hydrograph means that changes in the actual water levels in the well were nearly as great as the barometric pressure changes, and of opposite sign, so that the sum of the two (the apparent hydrograph) changed very little.

The barometric pressure data were corrected for barometric efficiency, which was adjusted until an optimum match was achieved. Figure 2 shows the correlation obtained for an assigned barometric efficiency of 92 percent. The correlation is not perfect, but shows some similarity between the corrected barometric pressure data and the apparent hydrograph. However, the disparity between the two data sets is sufficient to preclude correcting the pumping test data mathematically for barometric effects.

The data show that the effect of background influences, including barometric pressure, had relatively little effect on the measured pressures in the well.

Test 1

Test 1 was started at 11:02 am on February 5, 2004 at 9.8 gpm and continued for 24 hours until 11:02 am on February 6. Following pump shutoff, recovery data were measured for an additional 24 hours. Time-drawdown and recovery data were plotted and analyzed as described below.

Test 1 Drawdown

Figure 3 shows the time-drawdown data recorded during the pumping test. Water levels were recorded at 6-second intervals throughout the monitoring period. Subsequently, the data set was filtered so that the high-density data were retained only for early time. Figure 4 shows the time-drawdown data on an expanded scale.

The early data (prior to 1 minute) were affected indirectly by antecedent draining of a portion of the pump drop pipe through a leaky check valve in the pump. Because of the drainage that occurred prior to the test, the initial pumping was against lower head than when the drop pipe was full. Against the reduced head, the pump produced more than 20 gpm (inferred from the magnitude of the early drawdown). After 1 minute of pumping, the drained portion of the drop

pipe had refilled, and the pumping rate stabilized at 9.8 gpm. Subsequently, the rate declined slightly, reaching about 9.45 gpm by the morning of February 6. The drawdown remained fairly steady at about 0.8 feet throughout the test, plotting in a nearly horizontal line on Figure 1.

Figure 2 shows an expanded-scale plot of the drawdown data. Even with the expanded scale, the data were not readily analyzable because of the discharge rate reductions that occurred. It was surmised that the discharge rate reductions in the middle and late portions of the test resulted from water leaking through the pump drop pipe, as discussed later in this report.

Test 1 Recovery

Following pump shutoff, recovery data were measured for 24 hours. Figure 5 shows a plot of the residual drawdown versus t/t'. Implementation of the inflatable packer successfully eliminated the effects of casing storage, thus providing a valid early snapshot of the expansion of the recovery cone of impression adjacent to the well screen. (The cone of impression during recovery is analogous to the cone of depression during pumping.)

For the early data, there was no way of knowing more accurately than a 6-second window exactly when the pumping stopped. It was possible that the first data point could have corresponded to an elapsed recovery time anywhere between 0 and 6 seconds. Therefore, the time values were modified by a time delay offset ranging from 0 to 6 seconds. The offset was adjusted until the first three data points plotted in a straight line on a semi-log graph, as they should theoretically. For the recovery data, an offset of 5 seconds was required for this. In other words, the first data point corresponded to an elapsed recovery time of about 1 second.

The transmissivity calculated from the early data was 28,100 gallons per day per foot (gpd/ft). At such early time (about half a minute) the cone of impression can be assumed to have a vertical amplitude roughly equal to the well screen length of 23.8 feet. Hydraulic conductivity was computed as 28,100/23.8 = 1180 gallons per day per square foot (gpd/ft^2) = 158 feet per day.

Note that the early data used here to estimate hydraulic conductivity would have been masked by casing storage effects had a packer not been used. Using the casing storage equation presented earlier, the calculation produced an estimated tc value of about 1 minute, which is longer than the data interval used to compute K.

During the first minute of recovery, the drawdown curve began to flatten as expected in a partially penetrating well in a thick aquifer. However, the flattening effect became masked briefly by water draining from the drop pipe through the leaky check valve in the pump, ultimately causing the measured water level to rise above the static level temporarily. Once the drainage event ended, the recovery data followed an orderly, gradual rise toward static.

An attempt was made to analyze the middle and late recovery data. Figure 6 shows an expanded-scale plot of the data with a straight line of best fit constructed through the data points recorded after the drop pipe had drained. A transmissivity value of 147,000 gpd/ft was calculated from the data. This value is considered very rough because (1) it was computed from an observed water level change of just a few hundredths of a foot (comparable in magnitude to potential background fluctuations), (2) there was substantial scatter in the data points, and (3) it is possible that there were still lingering effects of water draining from the drop pipe. What's more, even if the computed transmissivity value were valid, there would be no way of knowing

what the effective aquifer thickness was corresponding to this value. Nevertheless, the analysis was useful in that it demonstrated that not only is the screened interval highly transmissive (28,100 gpd/ft over just 23.8 feet of thickness), but that the larger aquifer is also highly permeable and transmissive at R-28.

Drop Pipe Leakage

Following the collection of recovery data, the down-hole packer was deflated. When this was done, there was a transient rise in the water level of more than 8 feet, as shown on Figure 7. This apparently was caused by water suspended above the packer, between the 1-inch drop pipe and the 5-inch OD well casing, that had leaked out of the drop pipe during the pumping test.

Earlier in the project, it was observed that the 1-inch drop pipe permitted passage of water through imperfections in the wall of the pipe. It is possible that this mechanism was at work here. Alternatively, it is possible that the leaks were in the threaded joints in the pipe string.

An attempt was made to approximate the volume of water suspended above the packer by utilizing the head buildup information. During test 1, the well had a specific capacity of 9.45 gpm/0.8 feet of drawdown, or 11.8 gpm per foot of drawdown. Therefore, the well would be expected to accept 11.8 gpm for each foot of head buildup, because injection response is equal in magnitude to pumping response. For example, at the peak head buildup level of 8.1 feet shown on Figure 7, the expected injection rate would be 11.8 gpm/ft x 8.1 feet = 95.6 gpm.

The data shown on Figure 7 were integrated between 0 and 2.5 minutes to determine the average injection rate during each time step and the corresponding injection volume. The calculations produced an estimated injection volume of about 82 gallons. The annulus between the 1-inch drop pipe and 5-inch OD well casing holds 0.756 gallons of water per foot. This means that the height of the column of water above the packer was around 108 feet, corresponding to a pressure of about 47 psi.

Based on the packer characteristics (required stretch and seating pressures) and the inflation pressure applied to the packer during the test, it is possible that the column of water met or exceeded the leakage limit of the packer. Thus, it is possible that more than 82 gallons of water had leaked through the drop pipe during the test and that, once the required packer bypass pressure had been reached, additional water leaking into the annulus moved past the packer and back into the production zone. This mechanism could have contributed to discharge rate changes observed during the pumping test.

Test 2

Because of the drop pipe and check valve leakage that occurred in test 1, the decision was made to remobilize to the R-28 site at the conclusion of the hydraulic testing phase of the project and run a second pumping test, with an emphasis on collecting valid early data, unaffected by leaks and drainage. The 1-inch drop pipe was discarded and replaced with 2-inch. Five check valves were used in the drop pipe, two directly above the pump and three more interspersed throughout the pipe string.

Drawdown information from the first test was used to design a pump and packer casing string configuration that could accommodate a 30-psi transducer rather than the 100-psi unit that had

been used in test 1. The advantage of this change was an improvement in the precision of the measured data. Also, the transducer was programmed to record data at 2-second intervals rather 6-second intervals as in test 1.

Test 2 was started at 9:36 pm on March 7 at 12.9 gpm and continued for 300 minutes until 2:36 am on March 8. Recovery data were measured for 515 minutes until 11:11 am on March 8. Time-drawdown and recovery data were plotted and analyzed as described below.

Test 2 Drawdown

Figure 8 shows the time-drawdown data recorded during the pumping test. The frequency of water level measurements was increased to incorporate 2-second intervals throughout the monitoring period. Subsequently, the data set was filtered so that the high-density data were retained only for early time.

Despite the inclusion of five check valves in the pipe string, the early data were affected indirectly by antecedent draining of a limited portion of the pump drop pipe. The effect was much smaller than in test 1, with less than 0.1 minutes of data affected in test 2 compared to nearly 1 minute of data in the previous test. Nevertheless, this effect made analysis of the very early data impossible. Also, the middle and late data were a little uneven due to the inevitable, although minor, discharge rate variations associated with thermal effects in the pump and/or electric generator. Because of this, data analysis was limited to the recovery data, which were of excellent quality.

Test 2 Recovery

Following pump shutoff, recovery data were measured for 515 minutes. Figure 9 shows a plot of the residual drawdown versus t/t'. Implementation of the inflatable packer successfully eliminated the effects of casing storage, thus providing a valid early snapshot of the expansion of the cone of impression adjacent to the well screen. There was no evidence of drop pipe leakage in any portion of the recovery data set.

Similar to test 1, for the early data, there was no way of knowing more accurately than a 2-second window exactly when the pumping stopped. It was possible that the first data point could have corresponded to an elapsed recovery time anywhere between 0 and 2 seconds. Therefore, the time values were modified by a time delay offset ranging from 0 to 2 seconds. The offset was adjusted until the first three data points plotted approximately in a straight line on a semi-log graph, as they should theoretically. For the recovery data, an offset of 1.7 seconds was required for this. In other words, the first data point corresponded to an elapsed recovery time of about 0.3 seconds.

The transmissivity calculated from the early data was 26,600 gpd/ft. At such early time (about half a minute) the cone of impression can be assumed to have a vertical amplitude roughly equal to the well screen length of 23.8 feet. Hydraulic conductivity was computed as 26,600/23.8 = 1120 gpd/ft^2 = 149 feet per day. The high quality of the data from the test 2 recovery suggests that this is a reliable estimate of the hydraulic conductivity of the screened portion of the aquifer at this location.

Note that, as occurred in test 1, the early data used here to estimate hydraulic conductivity would have been masked by casing storage effects had a packer not been used.

The data curve flattened steadily throughout recovery. The late data were used to quantify the transmissivity of a greater thickness of the aquifer. Figure 10 shows an expanded-scale plot of the late recovery data. The late slope gives a transmissivity value of 184,000 gpd/ft. The calculation should be considered only approximate because it is based on observed pressure changes of just a couple hundredths of a foot. This means that slight background fluctuations or muted delayed yield effects could affect the calculated value by a considerable amount.

The data spanned by the line of best fit run from t/t' values of 20 to 2.5, corresponding to recovery times from 16 to 200 minutes. This is ample time for significant vertical expansion of the cone of depression, although there is no way to know what the effective aquifer thickness is corresponding to this transmissivity. Nevertheless, the computation confirms that the aquifer is highly transmissive at the R-28 location.

The recovery data were re-plotted on Figure 11 as feet of recovery versus time since pumping stopped, a form analogous to a time-drawdown graph. The early data from this plot produced a transmissivity of 25,600 gpd/ft for the screened interval, corresponding to a hydraulic conductivity of 144 feet per day.

Because the flattening of the time-drawdown graph was likely related to partial penetration effects, the recovery versus time data were analyzed using the Hantush Method. Figures 12, 13, 14 and 15 show log-log curve matching results for assumed vertical anisotropy ratios of 1.0, 0.1, 0.01 and 0.001, respectively. All calculations were performed for an arbitrary assigned aquifer thickness of 400 feet. The resulting hydraulic conductivity values were 64, 83, 103 and 121 feet per day, respectively. Inspection of Figures 12 through 15 shows that the data match was poorest for assumed isotropic conditions and became better with increasingly severe anisotropy ratio. The best match occurred for an anisotropy ratio of 10^{-3}. While this may seem like an extreme anisotropy value, the horizontal conductivity is great – 121 feet per day – so the resulting vertical hydraulic conductivity is really not all that low – 0.121 feet per day – a plausible value if the formation is laminated, i.e., interspersed with low-permeability layers. The steep vertical gradients generally observed in multi-screened wells on the Pajarito Plateau lend credence to the idea of low average vertical permeability. The Hantush partial penetration analyses imply that the vertical anisotropy ratio is on the order of 10^{-3}, possibly lower, and that the hydraulic conductivity is likely greater than 120 feet per day. This result is consistent with results of the Theis Recovery and Cooper-Jacob analyses above.

Specific Capacity Analysis

Well R-28 produced 12.9 gpm with a drawdown of 0.97 feet after 300 minutes of pumping. This information was used to compute a lower-bound estimate of hydraulic conductivity using the Brons and Marting method described earlier. Calculations were performed using an assumed aquifer thickness of 400 feet and an unconfined storage coefficient of 0.1. These values were as good as any, considering the insensitivity of the calculations to these parameters. The resulting lower-bound hydraulic conductivity was 73 feet per day.

This result provides excellent corroboration of the hydraulic conductivity values calculated previously. The values of conductivity computed from time-drawdown and recovery data from

tests 1 and 2 averaged a little over 140 feet per day. The lower-bound value of 73 feet per day is entirely consistent with this, suggesting that the pumped well is around 50 percent efficient – a realistic result.

SUMMARY

The following information was determined from the pumping and recovery tests on R-28:

1. The barometric efficiency of R-28 was estimated to be approximately 92 percent. This suggests significant well response to barometric pressure when the water level is exposed to atmospheric pressure. This also implies that with an inflatable packer in place, isolating the water level from atmospheric pressure, the effect of changes in barometric pressure would cause corresponding aquifer fluctuations of only 8 percent of the magnitude of the barometric changes (100 percent minus 92 percent).
2. Implementation of the inflatable packer successfully eliminated casing storage effects, allowing analysis of very early recovery data and providing excellent estimates of the hydraulic conductivity of the screened interval.
3. Leaky check valves affected drawdown data, forcing reliance on recovery data for computing aquifer properties. This was not a serious limitation, because recovery data are generally more reliable than the drawdown data.
4. Test 1 produced a screen interval hydraulic conductivity of 158 feet per day using very early recovery data.
5. Test 2 produced screen interval hydraulic conductivities of 144 and 149 feet per day using very early recovery data.
6. Test 2 produced a hydraulic conductivity of greater than 120 feet per day and a vertical anisotropy of approximately 10^{-3} using the entire recovery data set and partial penetration analysis.
7. The specific capacity of R-28 implied a lower-bound conductivity of 73 feet per day, fully consistent with the above calculations.
8. Late data suggested a transmissivity possibly well in excess of 100,000 gpd/ft at the location of R-28. The effective thickness of the corresponding permeable sediments is not known.

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Figure 1. Comparison of R-28 Apparent Hydrograph and TA-54 Adjusted Barometric Pressure

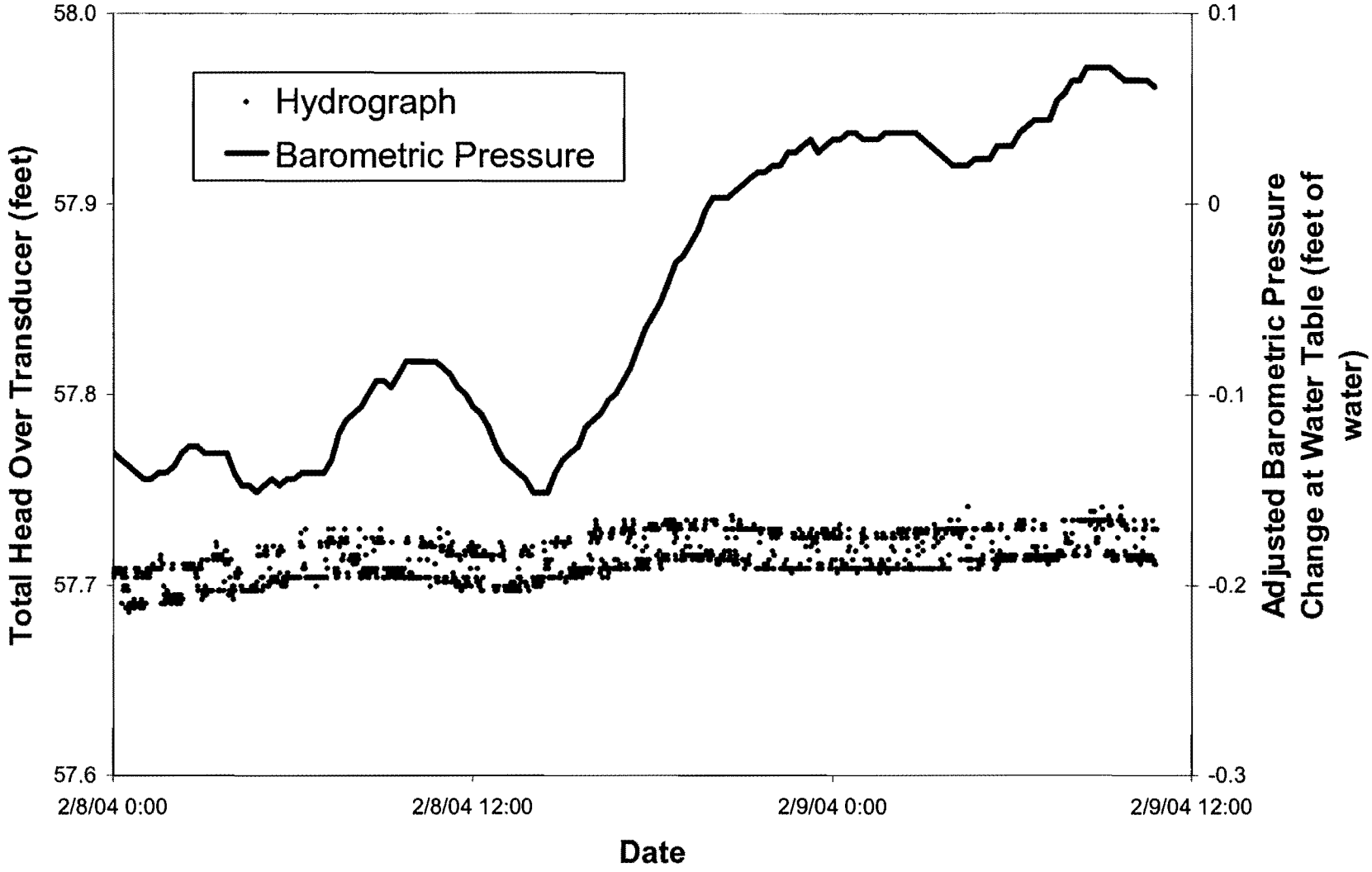


Figure 2. R-28 Apparent Hydrograph and TA-54 Barometric Pressure Adjusted For 92 Percent Barometric Efficiency

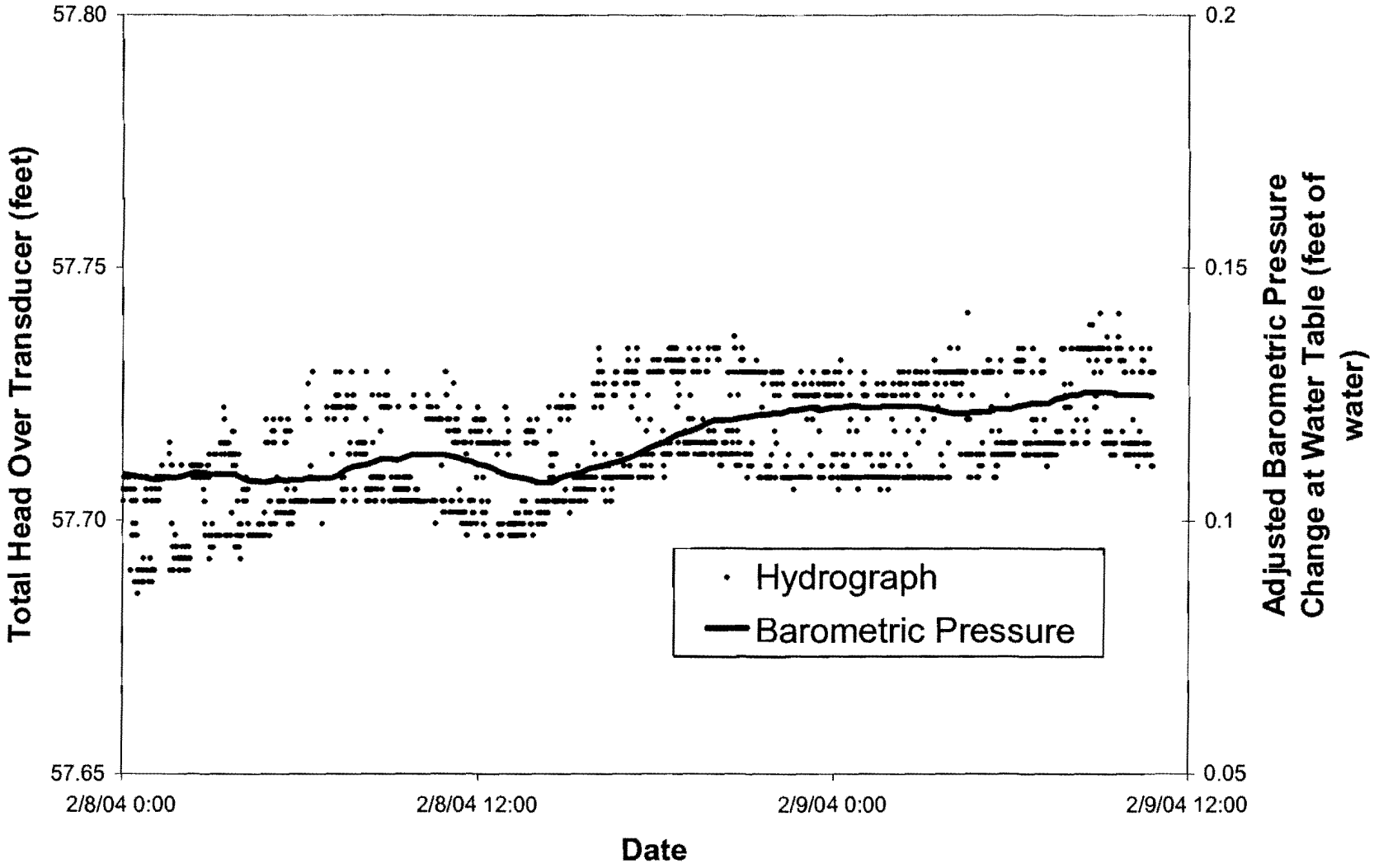


Figure 3. Well R-28 Drawdown - Test 1

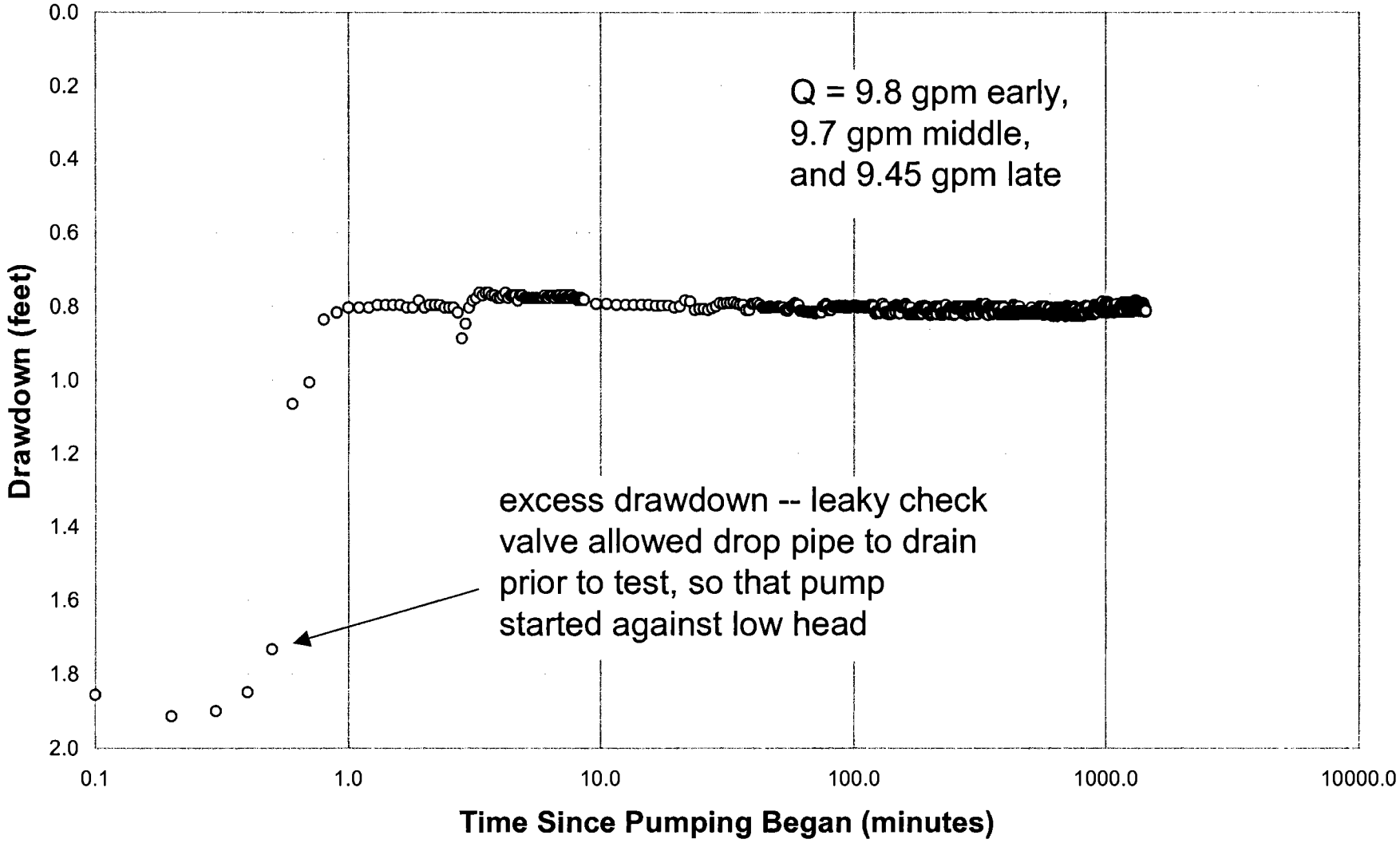


Figure 4. Well R-28 Drawdown - Test 1 - Expanded Scale

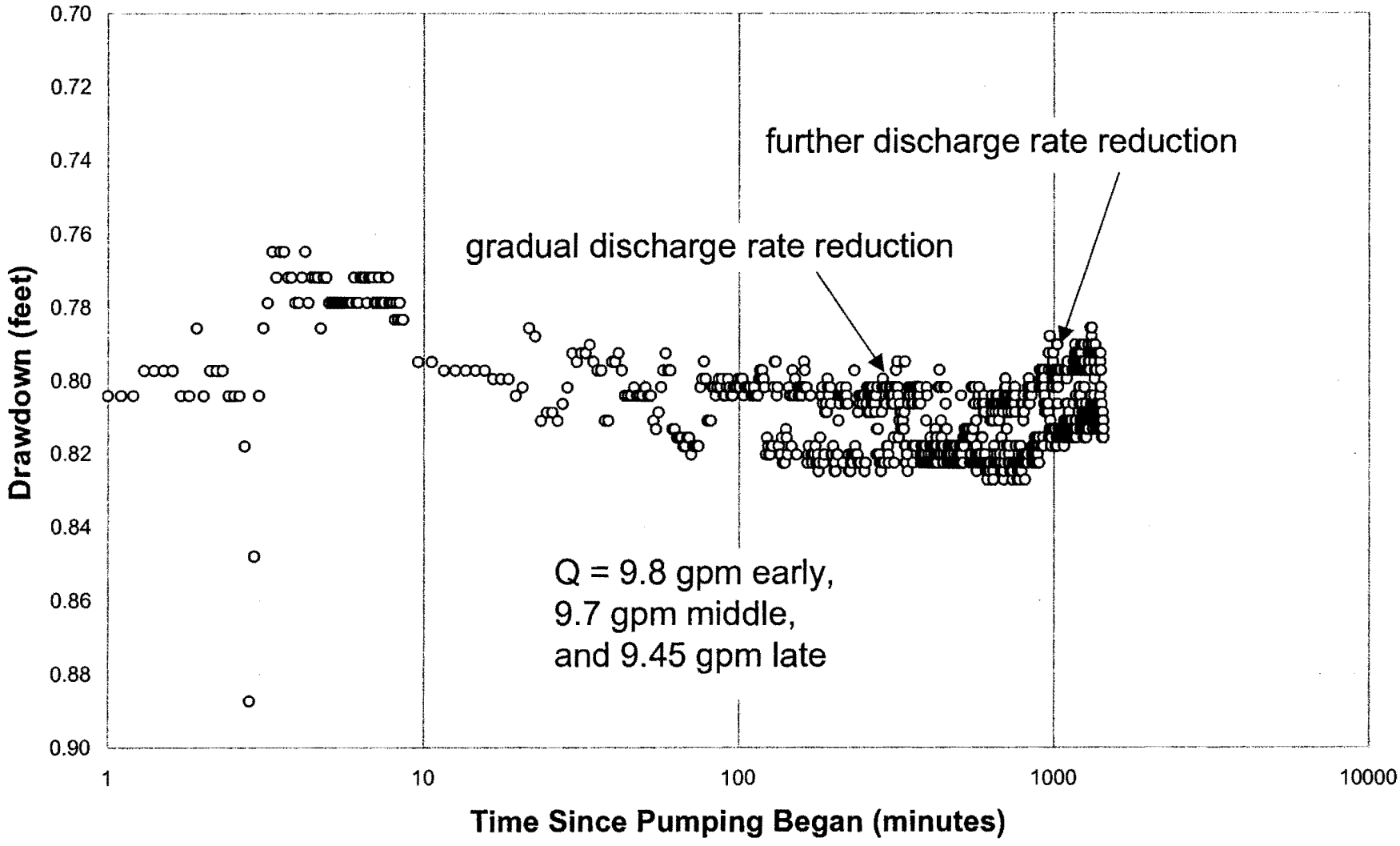


Figure 5. Well R-28 Recovery - Test 1

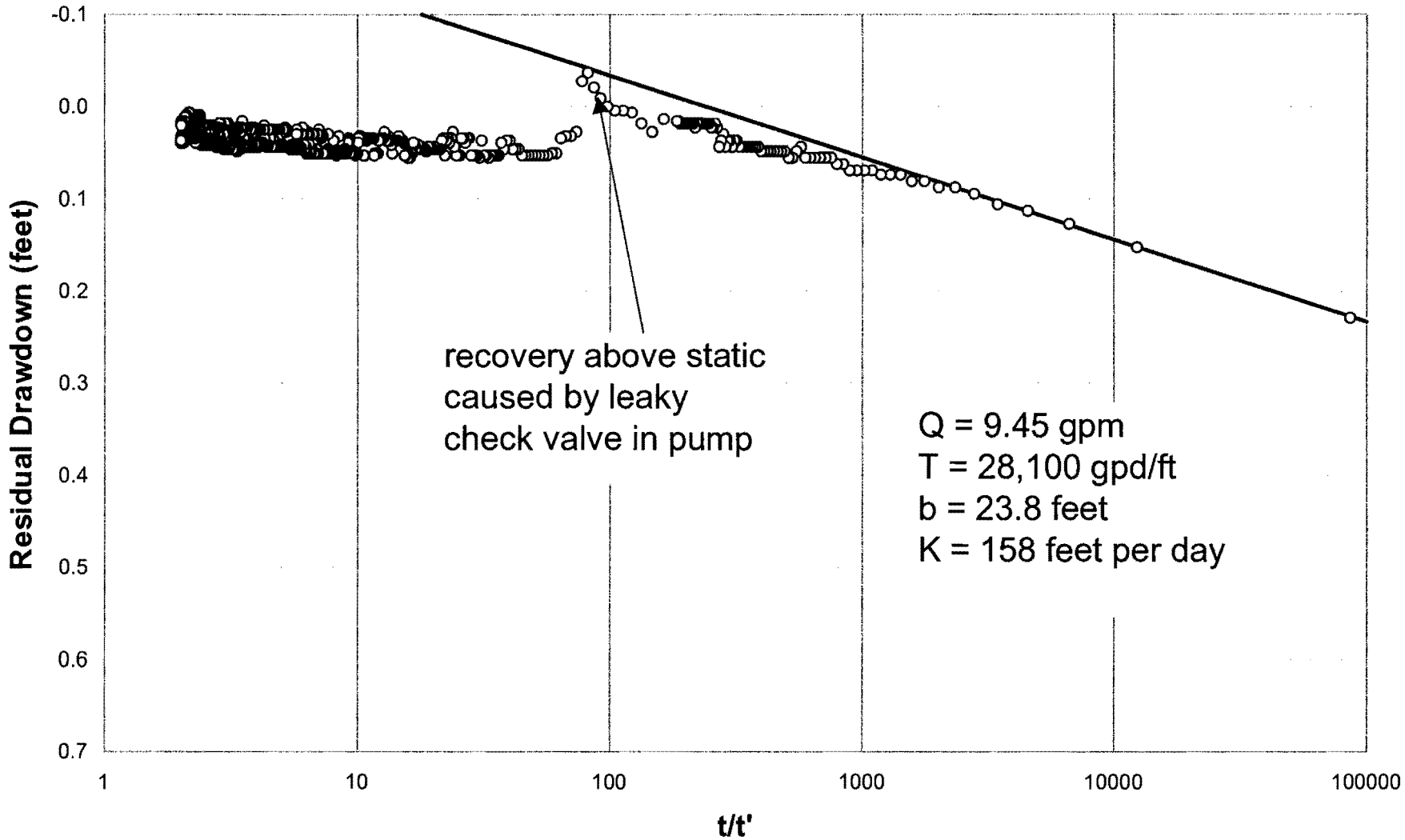


Figure 6. Well R-28 Recovery - Test 1 - Expanded Scale

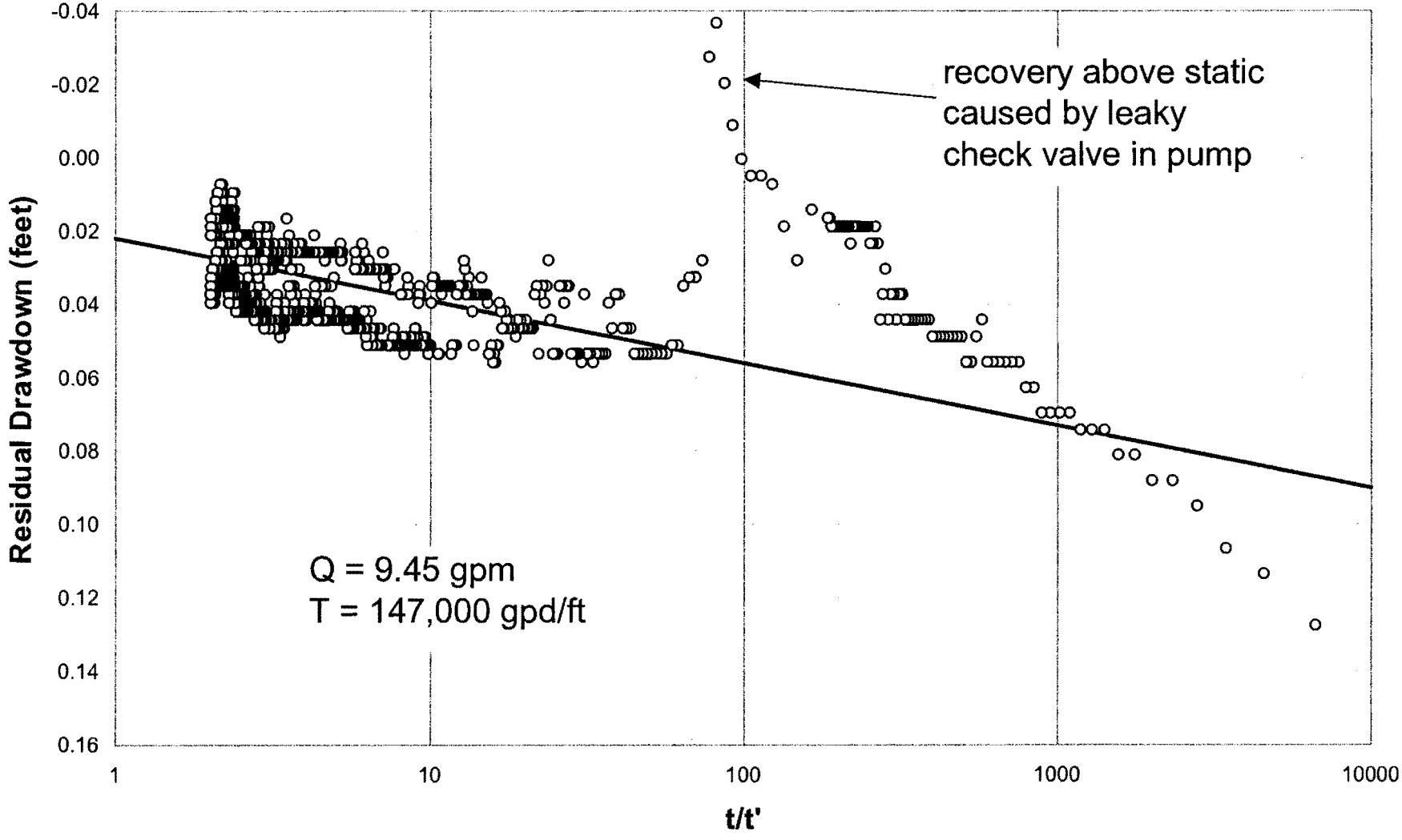


Figure 7. Well R-28 Packer Deflation - Test 1

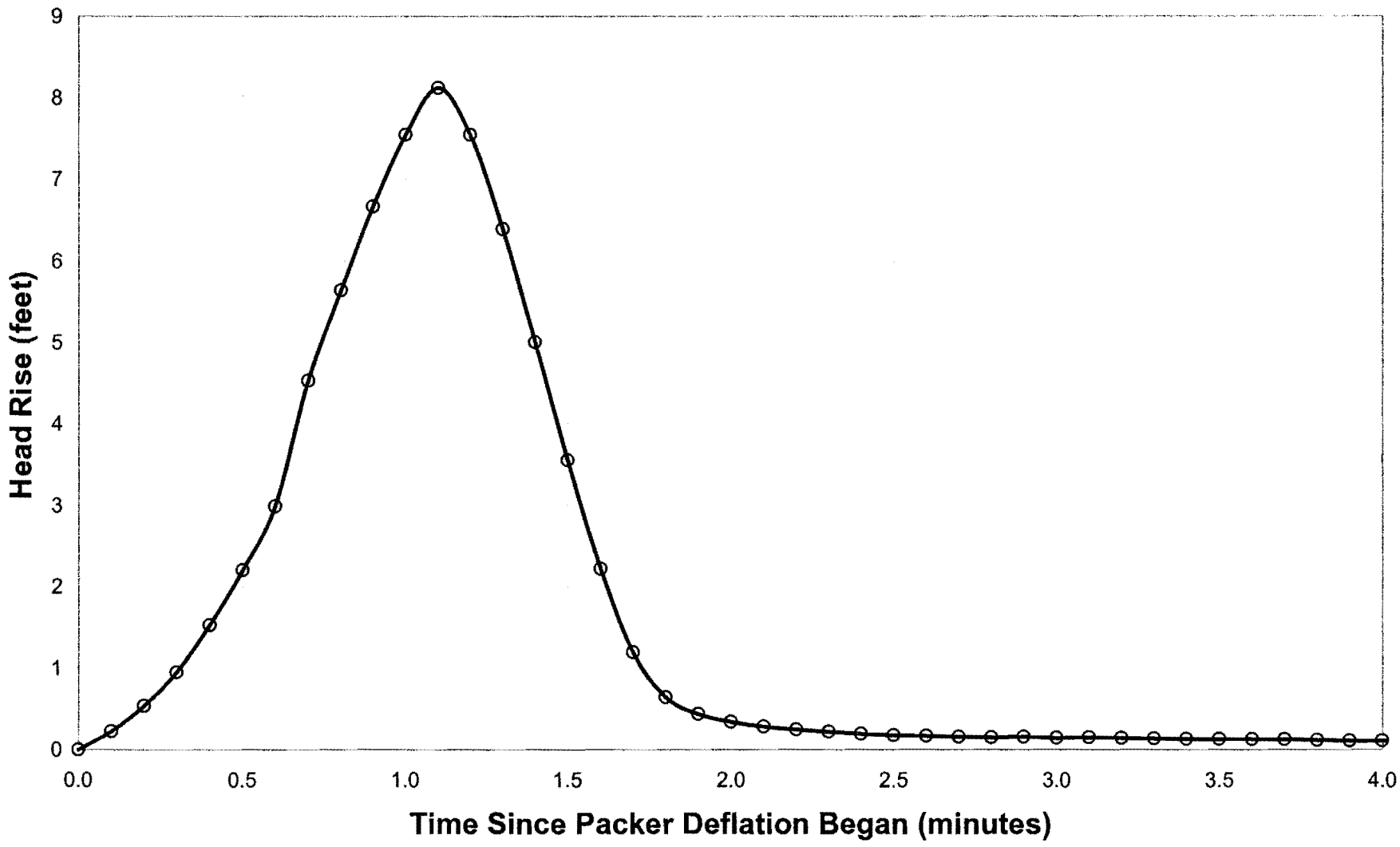


Figure 8. Well R-28 Drawdown - Test 2

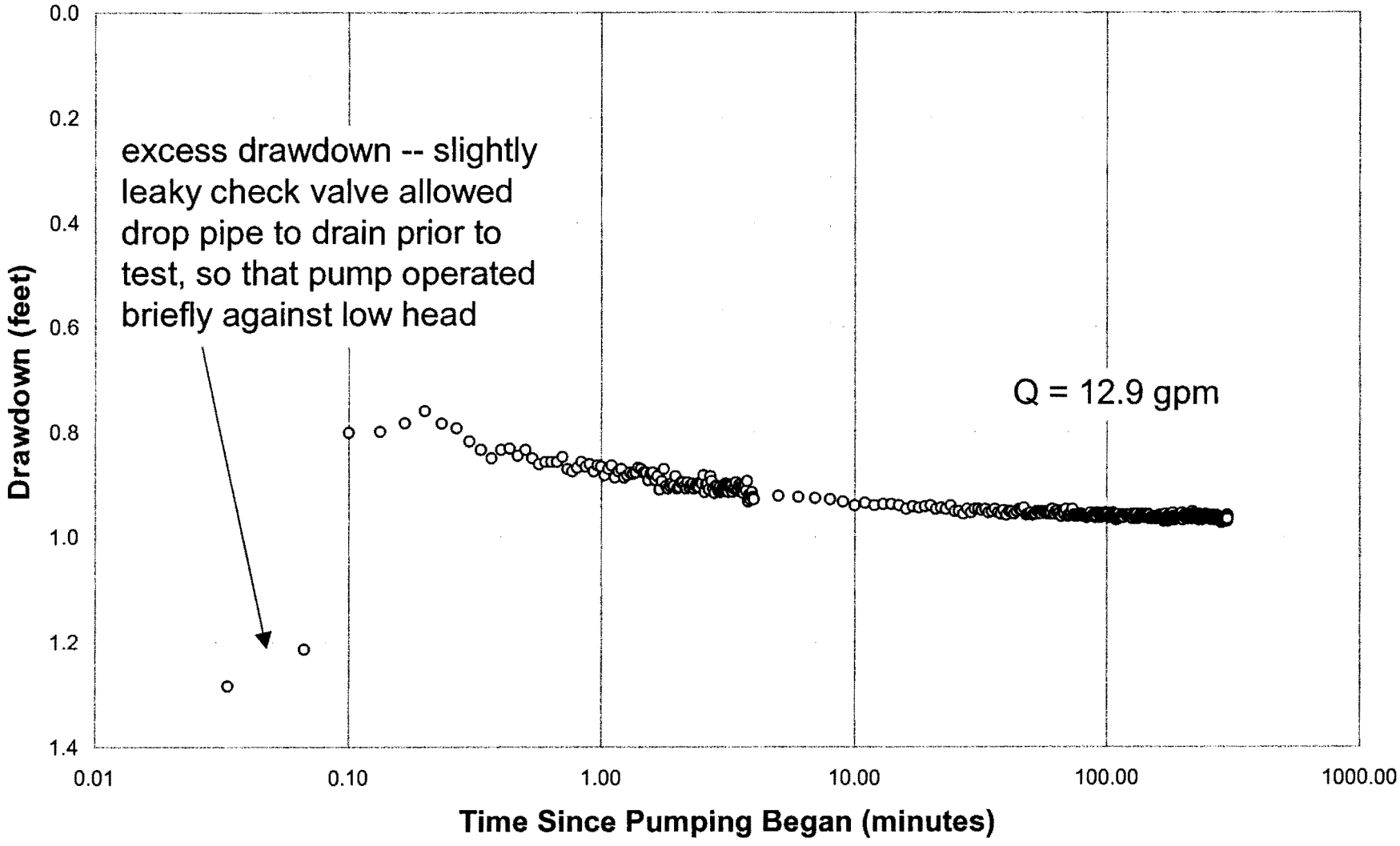


Figure 9. Well R-28 Recovery - Test 2

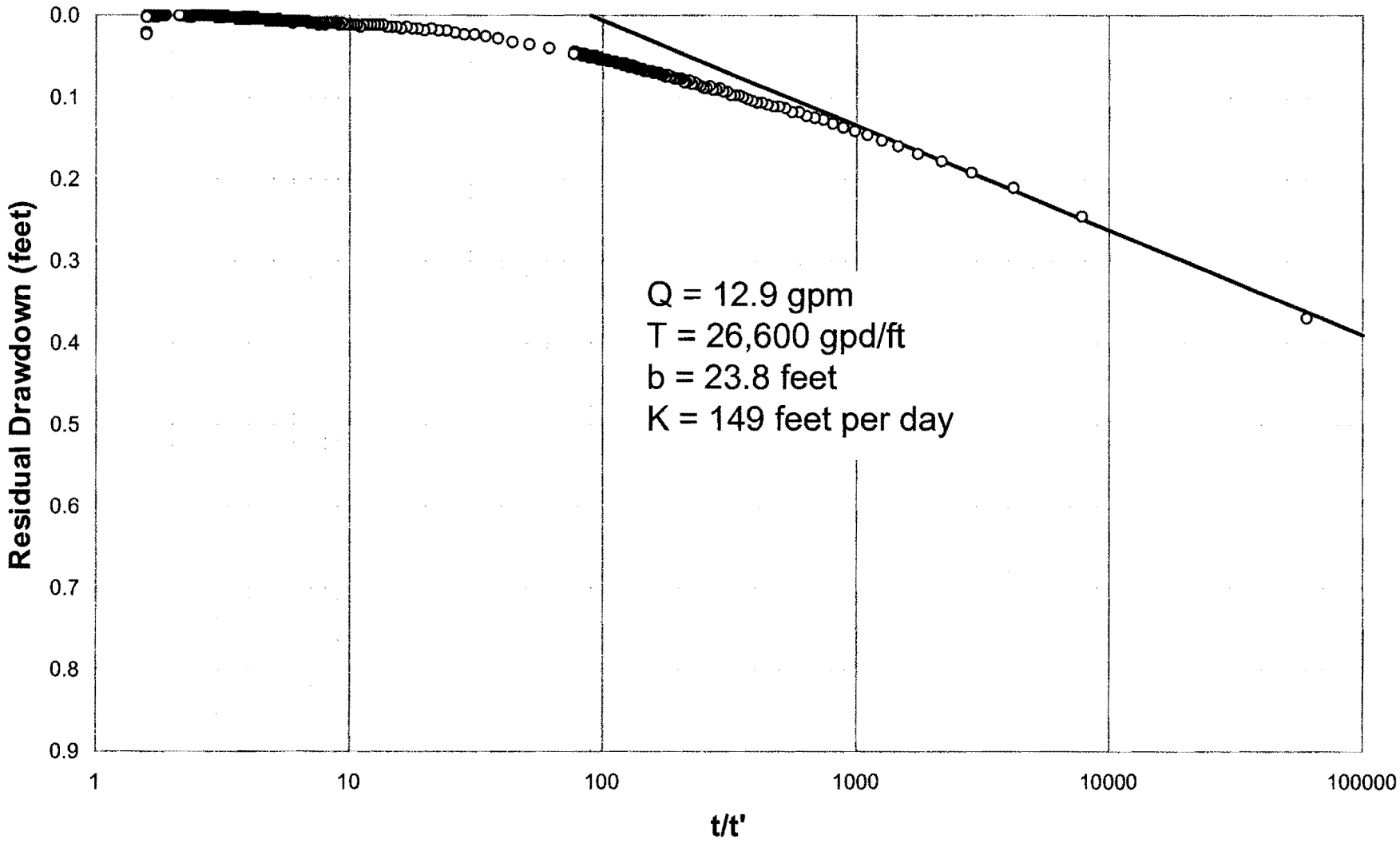


Figure 10. Well R-28 Recovery - Test 2 - Expanded Scale

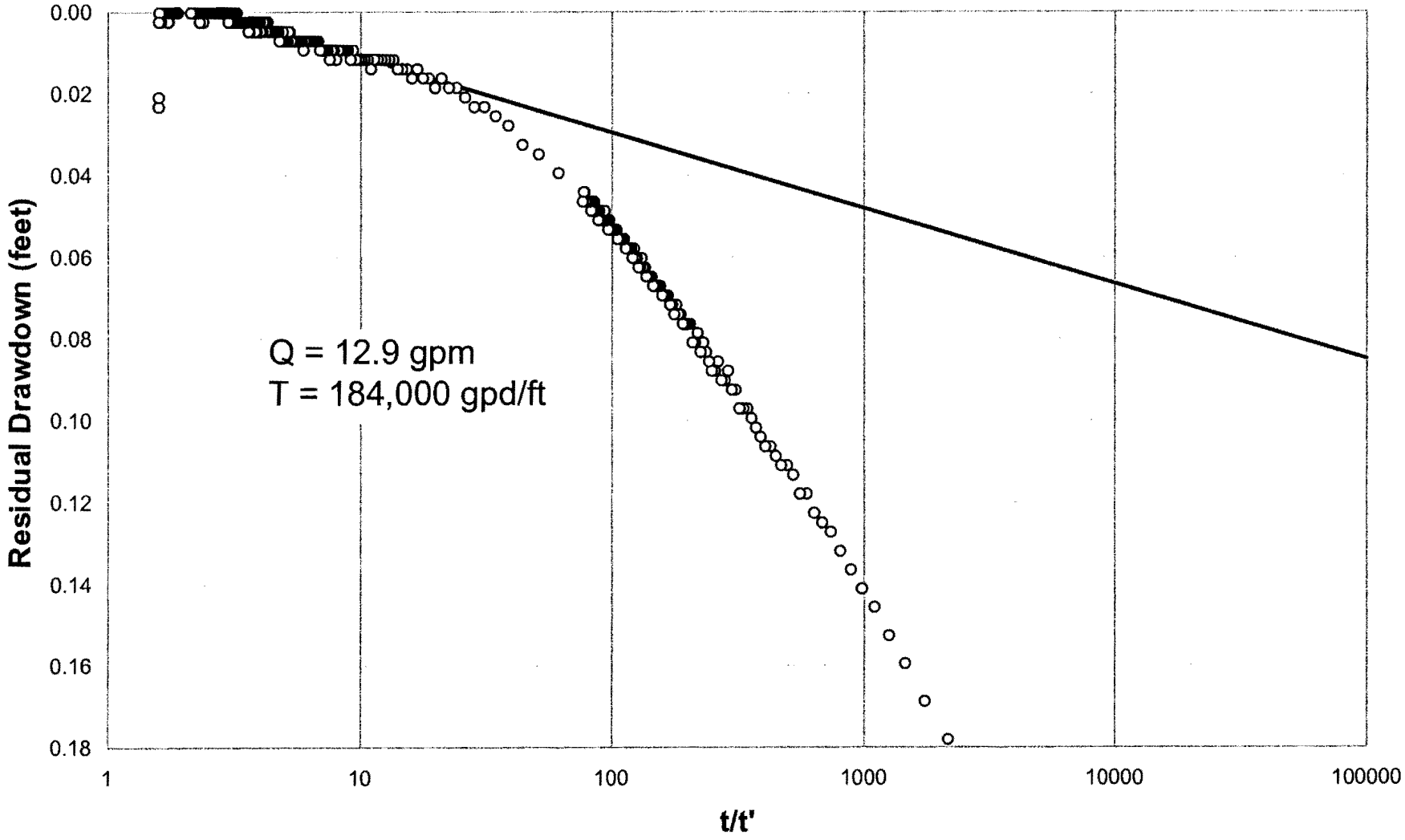


Figure 11. Well R-28 Recovery Versus Time - Test 2

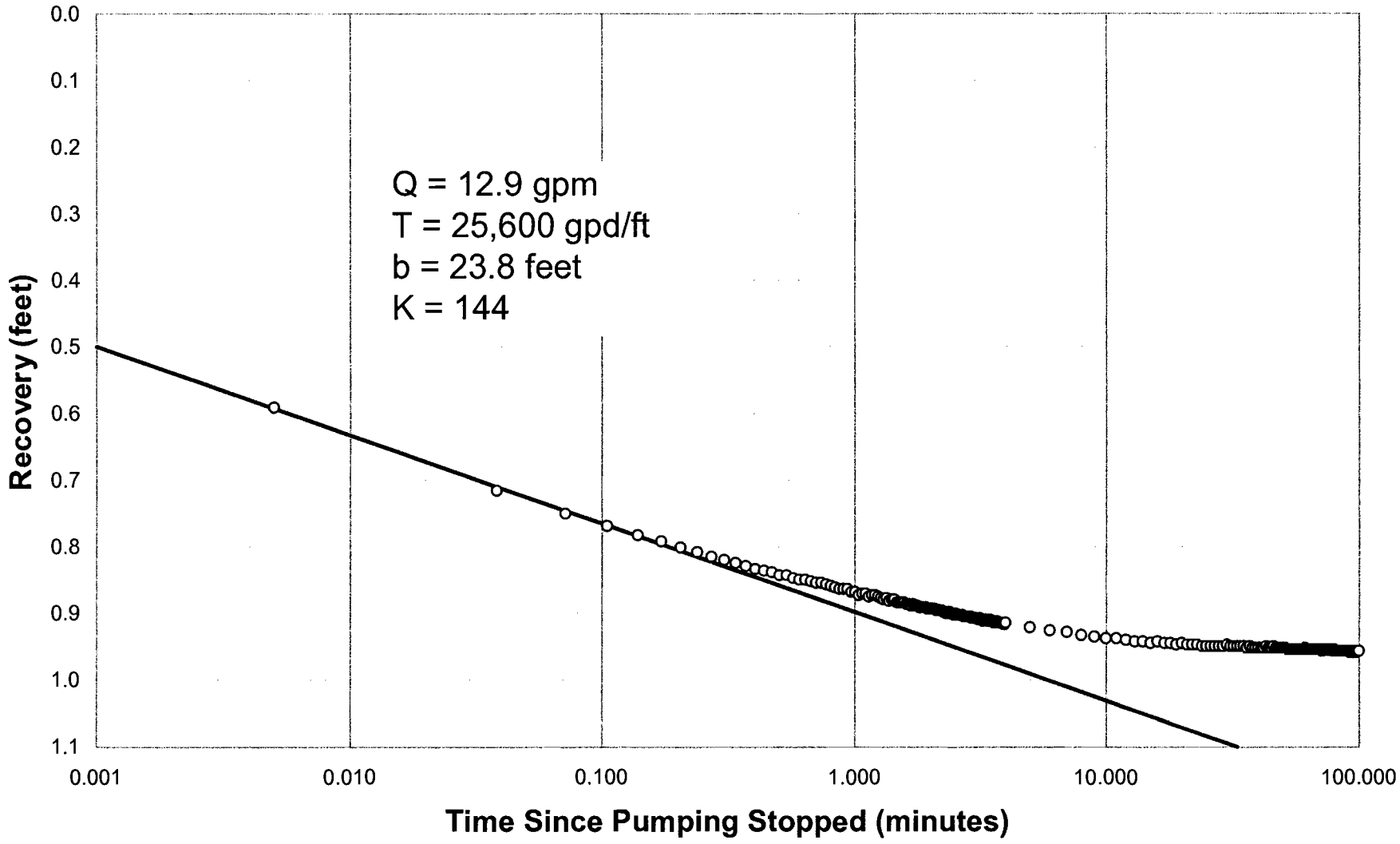


Figure 12. Well R-28 Recovery
Hantush Solution For Anisotropy of 1.0

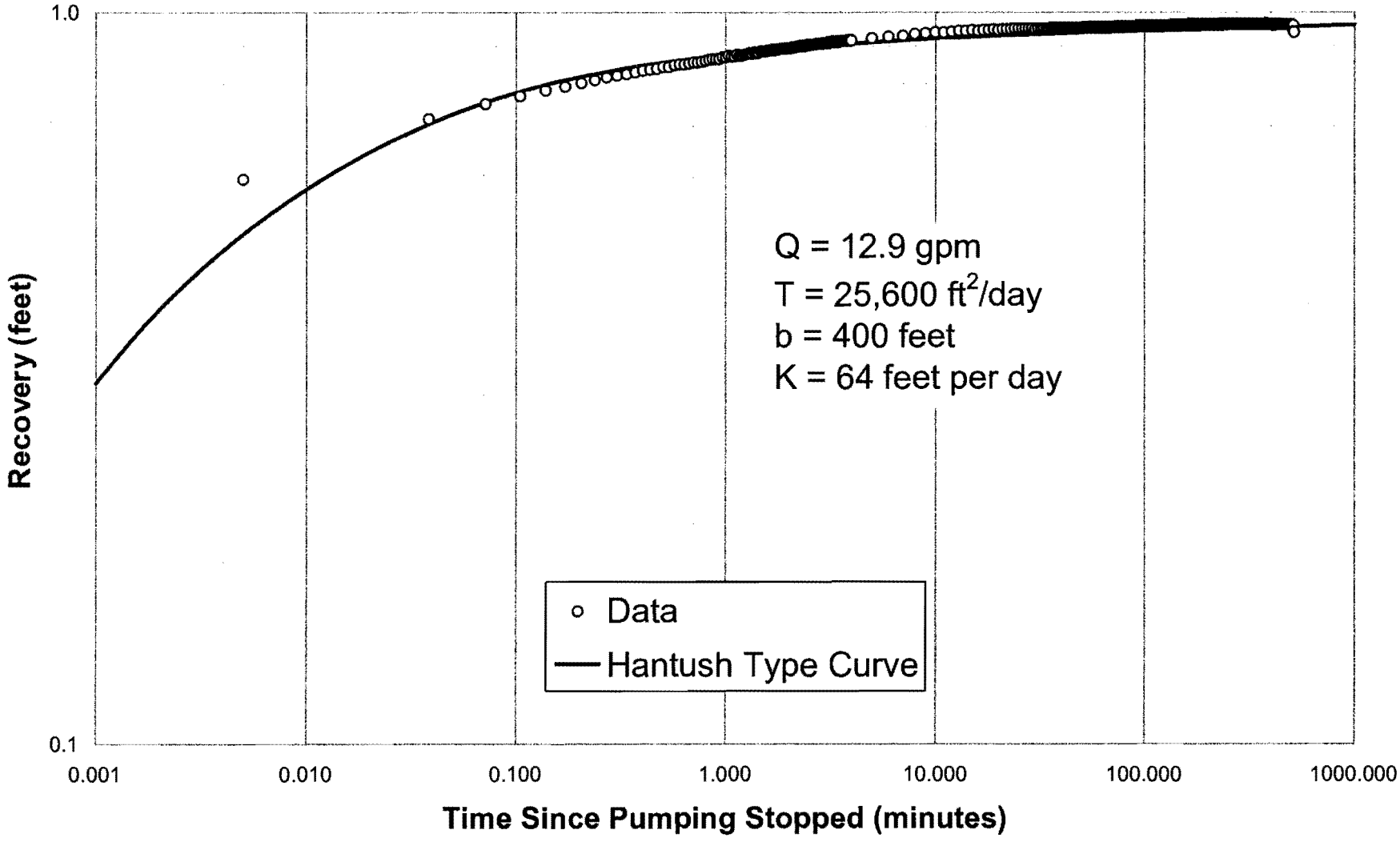


Figure 13. Well R-28 Recovery
Hantush Solution For Anisotropy of 0.1

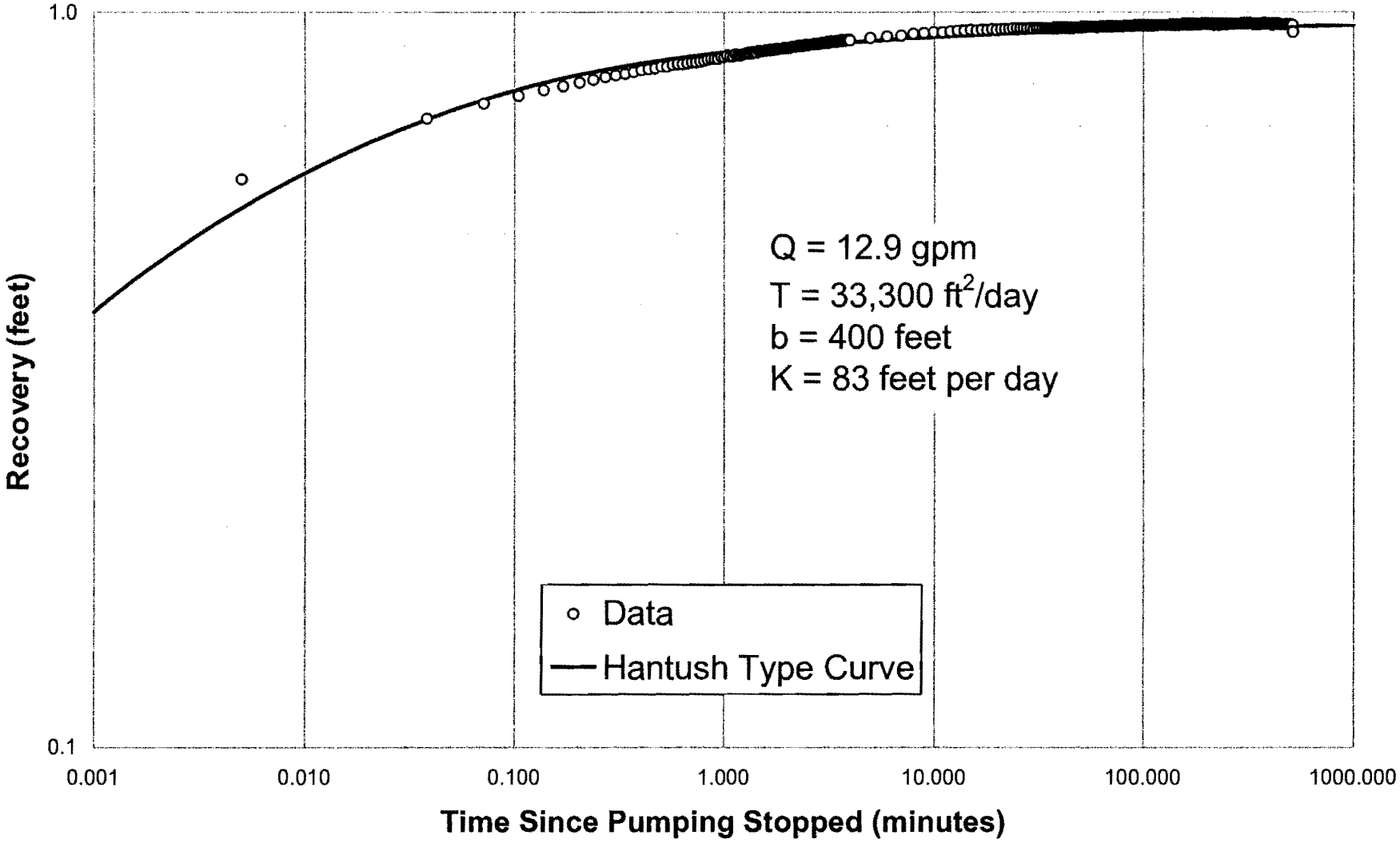


Figure 14. Well R-28 Recovery
Hantush Solution For Anisotropy of 0.01

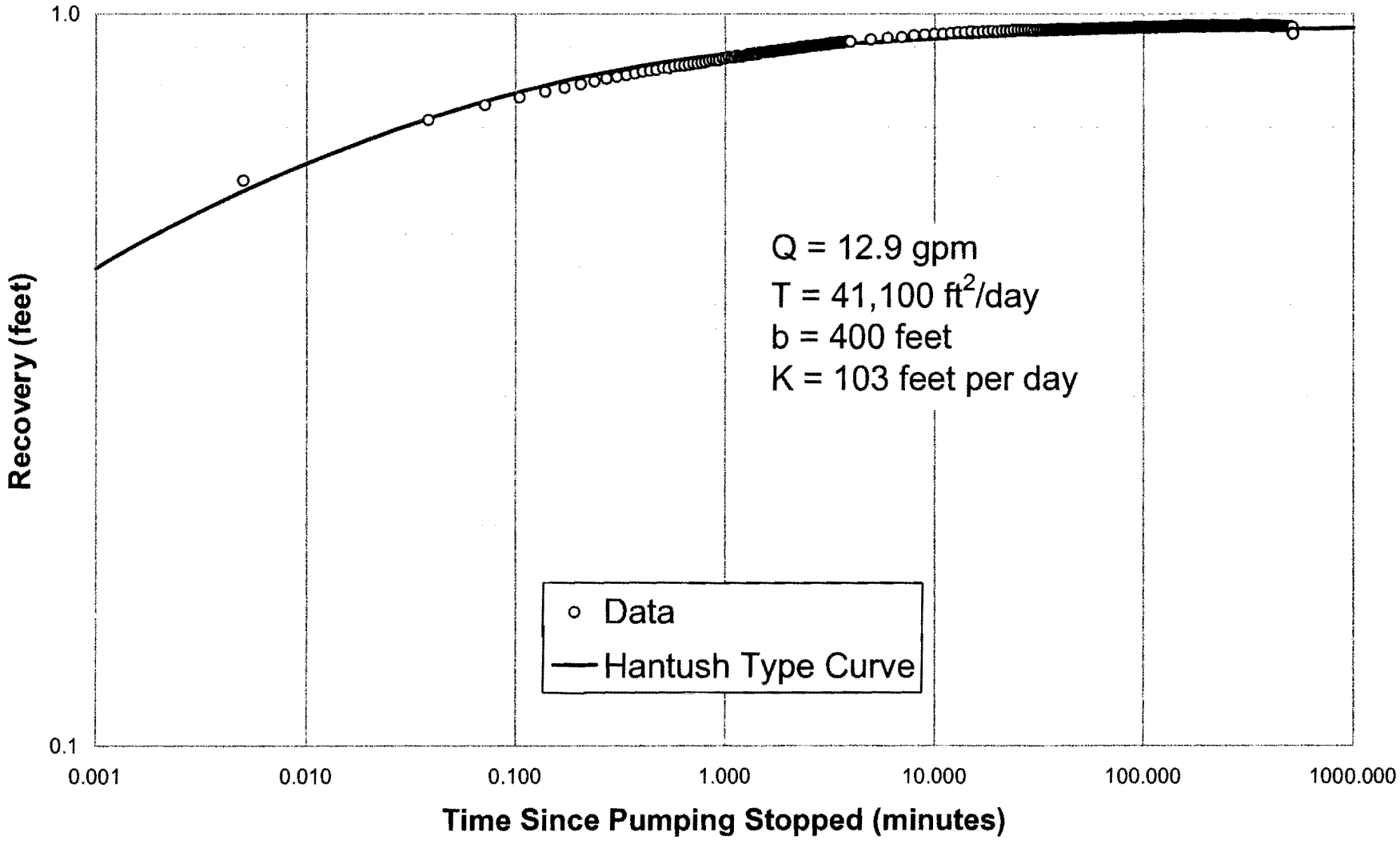
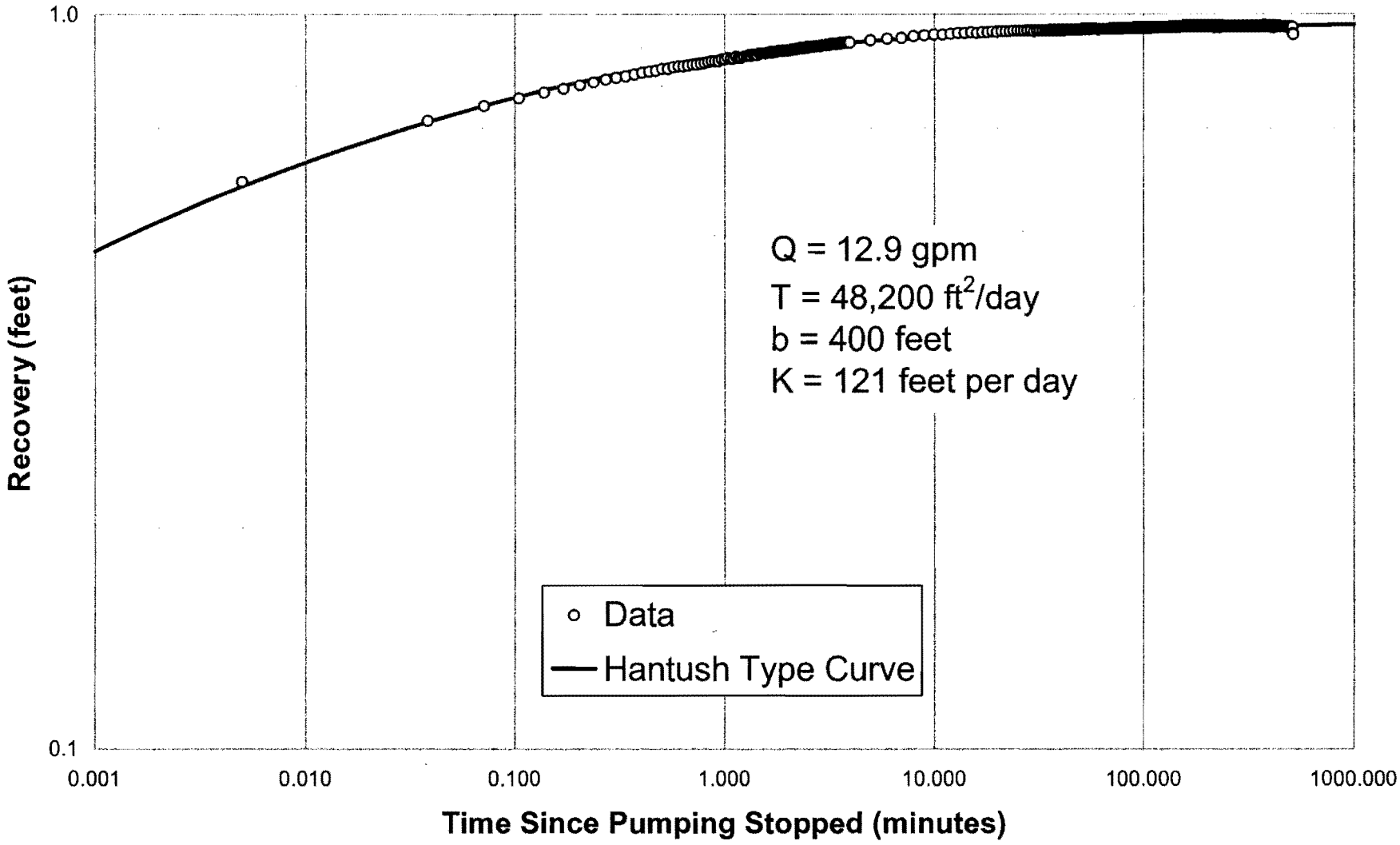
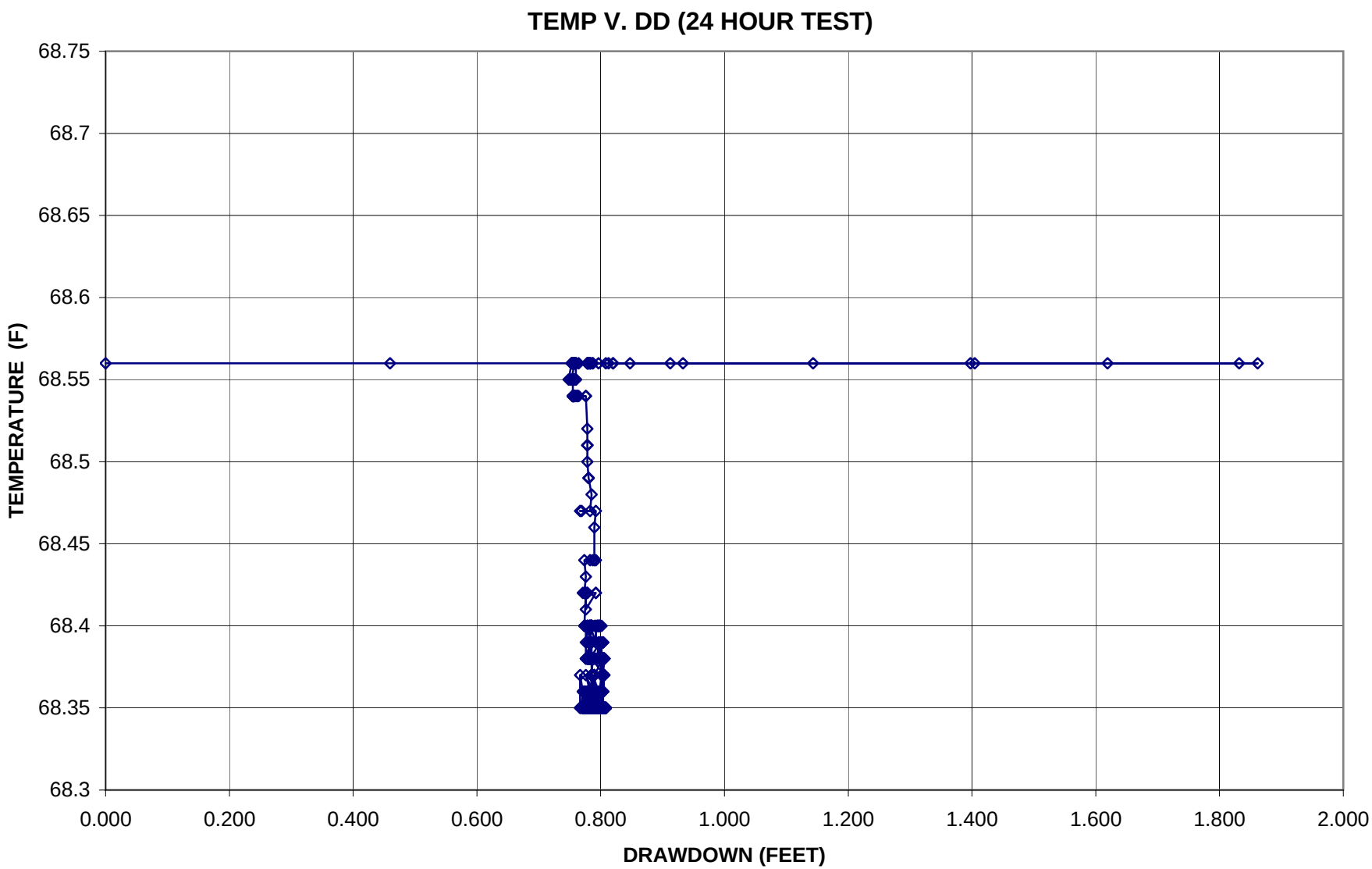


Figure 15. Well R-28 Recovery
Hantush Solution For Anisotropy of 0.001




TEMP V. DD (24 HOUR TEST)
TEMPERATURE (F)
68.75
68.7
68.65
68.6
68.55
68.5
68.45
68.4
68.35
68.3
0.000
0.200
0.400
0.600
0.800
1.000
1.200
1.400
1.600
1.800
2.000
DRAWDOWN (FEET)

LANL R28 PRELIMINARY DATA AND TEST PUMPING

DATE-TIME	TEMP	HEAD	S	NOTES
1/26/04 17:00:00	59.65	-1.575		
1/26/04 17:01:00	59.63	-1.575		
1/26/04 17:02:00	59.61	-1.573		
1/26/04 17:03:00	59.58	-1.572		
1/26/04 17:04:00	59.56	-1.571		
1/26/04 17:05:00	59.54	-1.569		
1/26/04 17:06:00	59.52	-1.567		
1/26/04 17:07:00	59.49	-1.566		
1/26/04 17:08:00	59.47	-1.563		
1/26/04 17:09:00	59.44	-1.561		
1/26/04 17:10:00	59.41	-1.559		
1/26/04 17:11:00	59.40	-1.558		
1/26/04 17:12:00	59.36	-1.556		
1/26/04 17:13:00	59.35	-1.554		
1/26/04 17:14:00	59.33	-1.552		
1/26/04 17:15:00	59.30	-1.549		
1/26/04 17:16:00	59.27	-1.547		
1/26/04 17:17:00	59.26	-1.547		
1/26/04 17:18:00	59.24	-1.545		
1/26/04 17:19:00	59.22	-1.543		
1/26/04 17:20:00	59.20	-1.542		
1/26/04 17:21:00	59.18	-1.540		
1/26/04 17:22:00	59.15	-1.538		
1/26/04 17:23:00	59.13	-1.537		
1/26/04 17:24:00	59.11	-1.536		
1/26/04 17:25:00	59.10	-1.533		
1/26/04 17:26:00	59.09	-1.533		
1/26/04 17:27:00	59.06	-1.531		
1/26/04 17:28:00	59.04	-1.529		
1/26/04 17:29:00	59.02	-1.528		
1/26/04 17:30:00	59.00	-1.526		
1/26/04 17:31:00	58.98	-1.524		
1/26/04 17:32:00	58.97	-1.524		
1/26/04 17:33:00	58.95	-1.523		
1/26/04 17:34:00	58.93	-1.520		
1/26/04 17:35:00	58.92	-1.519		
1/26/04 17:36:00	58.90	-1.517		
1/26/04 17:37:00	58.88	-1.517		
1/26/04 17:38:00	58.86	-1.515		
1/26/04 17:39:00	58.85	-1.515		
1/26/04 17:40:00	58.84	-1.513		
1/26/04 17:41:00	58.81	-1.512		
1/26/04 17:42:00	58.81	-1.511		
1/26/04 17:43:00	58.79	-1.510		
1/26/04 17:44:00	58.77	-1.508		
1/26/04 17:45:00	58.76	-1.506		
1/26/04 17:46:00	58.75	-1.505		
1/26/04 17:47:00	58.72	-1.504		
1/26/04 17:48:00	58.72	-1.502		
1/26/04 17:49:00	58.70	-1.501		
1/26/04 17:50:00	58.68	-1.499		
1/26/04 17:51:00	58.68	-1.498		
1/26/04 17:52:00	58.65	-1.497		
1/26/04 17:53:00	58.65	-1.495		
1/26/04 17:54:00	58.63	-1.494		
1/26/04 17:55:00	58.63	-1.492		
1/26/04 17:56:00	58.61	-1.492		
1/26/04 17:57:00	58.59	-1.490		
1/26/04 17:58:00	58.59	-1.489		
1/26/04 17:59:00	58.56	-1.488		
1/26/04 18:00:00	58.56	-1.487		
1/26/04 18:01:00	58.55	-1.486		
1/26/04 18:02:00	58.54	-1.485		
1/26/04 18:03:00	58.52	-1.485		
1/26/04 18:04:00	58.52	-1.485		
1/26/04 18:05:00	58.50	-1.483		
1/26/04 18:06:00	58.50	-1.483		
1/26/04 18:07:00	58.47	-1.483		
1/26/04 18:08:00	58.47	-1.481		
1/26/04 18:09:00	58.46	-1.480		
1/26/04 18:10:00	58.45	-1.478		
1/26/04 18:11:00	58.45	-1.478		
1/26/04 18:12:00	58.43	-1.478		
1/26/04 18:13:00	58.43	-1.477		
1/26/04 18:14:00	58.41	-1.476		
1/26/04 18:15:00	58.41	-1.475		
1/26/04 18:16:00	58.41	-1.474		
1/26/04 18:17:00	58.38	-1.474		
1/26/04 18:18:00	58.38	-1.472		
1/26/04 18:19:00	58.36	-1.471		
1/26/04 18:20:00	58.36	-1.470		
1/26/04 18:21:00	58.34	-1.469		
1/26/04 18:22:00	58.34	-1.468		
1/26/04 18:23:00	58.34	-1.467		
1/26/04 18:24:00	58.31	-1.465		
1/26/04 18:25:00	58.31	-1.465		
1/26/04 18:26:00	58.31	-1.464		
1/26/04 18:27:00	58.29	-1.463		
1/26/04 18:28:00	58.29	-1.462		
1/26/04 18:29:00	58.28	-1.461		
1/26/04 18:30:00	58.27	-1.460		
1/26/04 18:31:00	58.27	-1.458		
1/26/04 18:32:00	58.26	-1.457		
1/26/04 18:33:00	58.25	-1.456		
1/26/04 18:34:00	58.25	-1.455		
1/26/04 18:35:00	58.24	-1.454		
1/26/04 18:36:00	58.22	-1.454		
1/26/04 18:37:00	58.22	-1.453		
1/26/04 18:38:00	58.22	-1.452		
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1/26/04 18:41:00	58.20	-1.451		
1/26/04 18:42:00	58.19	-1.449		
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1/26/04 18:45:00	58.17	-1.447		
1/26/04 18:46:00	58.16	-1.447		
1/26/04 18:47:00	58.16	-1.445		
1/26/04 18:48:00	58.16	-1.445		
1/26/04 18:49:00	58.14	-1.443		
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1/26/04 18:51:00	58.13	-1.441		
1/26/04 18:52:00	58.13	-1.441		
1/26/04 18:53:00	58.13	-1.439		
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1/26/04 18:56:00	58.11	-1.437		
1/26/04 18:57:00	58.11	-1.438		
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1/26/04 18:59:00	58.09	-1.436		
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1/26/04 19:01:00	58.09	-1.434		
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1/26/04 19:07:00	58.07	-1.432		
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1/26/04 19:11:00	58.04	-1.428		
1/26/04 19:12:00	58.04	-1.428		
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1/26/04 19:14:00	58.02	-1.426		
1/26/04 19:15:00	58.02	-1.426		
1/26/04 19:16:00	58.02	-1.425		
1/26/04 19:17:00	58.02	-1.426		
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1/26/04 19:22:00	58.00	-1.422		
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1/26/04 19:29:00	57.97	-1.419		
1/26/04 19:30:00	57.97	-1.417		
1/26/04 19:31:00	57.97	-1.417		
1/26/04 19:32:00	57.97	-1.416		
1/26/04 19:33:00	57.96	-1.416		
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1/26/04 19:35:00	57.95	-1.414		
1/26/04 19:36:00	57.95	-1.414		
1/26/04 19:37:00	57.95	-1.413		
1/26/04 19:38:00	57.95	-1.413		
1/26/04 19:39:00	57.95	-1.412		
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1/26/04 19:41:00	57.95	-1.412		
1/26/04 19:42:00	57.95	-1.411		
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1/26/04 19:44:00	57.93	-1.411		
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1/26/04 19:46:00	57.93	-1.409		
1/26/04 19:47:00	57.93	-1.407		
1/26/04 19:48:00	57.93	-1.406		
1/26/04 19:49:00	57.93	-1.407		
1/26/04 19:50:00	57.92	-1.407		
1/26/04 19:51:00	57.93	-1.407		
1/26/04 19:52:00	57.91	-1.405		
1/26/04 19:53:00	57.91	-1.405		
1/26/04 19:54:00	57.91	-1.404		
1/26/04 19:55:00	57.91	-1.404		
1/26/04 19:56:00	57.91	-1.402		
1/26/04 19:57:00	57.91	-1.402		
1/26/04 19:58:00	57.91	-1.402		
1/26/04 19:59:00	57.91	-1.402		
1/26/04 20:00:00	57.90	-1.402		
1/26/04 20:01:00	57.91	-1.401		
1/26/04 20:02:00	57.89	-1.400		
1/26/04 20:03:00	57.88	-1.400		
1/26/04 20:04:00	57.88	-1.400		
1/26/04 20:05:00	57.88	-1.398		
1/26/04 20:06:00	57.88	-1.398		
1/26/04 20:07:00	57.88	-1.396		
1/26/04 20:08:00	57.88	-1.396		
1/26/04 20:09:00	57.88	-1.395		
1/26/04 20:10:00	57.88	-1.396		
1/26/04 20:11:00	57.88	-1.396		
1/26/04 20:12:00	57.88	-1.395		
1/26/04 20:13:00	57.87	-1.395		
1/26/04 20:14:00	57.87	-1.394		
1/26/04 20:15:00	57.87	-1.392		
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1/26/04 20:17:00	57.86	-1.390		
1/26/04 20:18:00	57.86	-1.390		
1/26/04 20:19:00	57.86	-1.390		
1/26/04 20:20:00	57.86	-1.389		
1/26/04 20:21:00	57.86	-1.388		
1/26/04 20:22:00	57.86	-1.388		
1/26/04 20:23:00	57.86	-1.388		
1/26/04 20:24:00	57.86	-1.389		
1/26/04 20:25:00	57.86	-1.389		
1/26/04 20:26:00	57.86	-1.388		
1/26/04 20:27:00	57.86	-1.388		
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1/26/04 20:29:00	57.85	-1.388		
1/26/04 20:30:00	57.84	-1.387		
1/26/04 20:31:00	57.84	-1.388		
1/26/04 20:32:00	57.84	-1.388		
1/26/04 20:33:00	57.84	-1.387		
1/26/04 20:34:00	57.84	-1.386		
1/26/04 20:35:00	57.84	-1.386		
1/26/04 20:36:00	57.84	-1.386		
1/26/04 20:37:00	57.84	-1.384		
1/26/04 20:38:00	57.84	-1.383		
1/26/04 20:39:00	57.84	-1.384		
1/26/04 20:40:00	57.84	-1.384		
1/26/04 20:41:00	57.84	-1.383		
1/26/04 20:42:00	57.84	-1.384		
1/26/04 20:43:00	57.83	-1.384		
1/26/04 20:44:00	57.83	-1.383		
1/26/04 20:45:00	57.84	-1.383		
1/26/04 20:46:00	57.84	-1.382		
1/26/04 20:47:00	57.83	-1.382		
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1/26/04 20:50:00	57.82	-1.381		
1/26/04 20:51:00	57.82	-1.381		
1/26/04 20:52:00	57.82	-1.379		
1/26/04 20:53:00	57.82	-1.379		
1/26/04 20:54:00	57.82	-1.378		
1/26/04 20:55:00	57.82	-1.377		
1/26/04 20:56:00	57.82	-1.377		
1/26/04 20:57:00	57.82	-1.376		
1/26/04 20:58:00	57.82	-1.375		
1/26/04 20:59:00	57.82	-1.375		
1/26/04 21:00:00	57.82	-1.373		
1/26/04 21:01:00	57.82	-1.373		
1/26/04 21:02:00	57.82	-1.373		
1/26/04 21:03:00	57.82	-1.373		
1/26/04 21:04:00	57.82	-1.373		
1/26/04 21:05:00	57.82	-1.373		
1/26/04 21:06:00	57.80	-1.371		
1/26/04 21:07:00	57.80	-1.372		
1/26/04 21:08:00	57.80	-1.372		
1/26/04 21:09:00	57.80	-1.371		
1/26/04 21:10:00	57.80	-1.371		
1/26/04 21:11:00	57.79	-1.371		
1/26/04 21:12:00	57.80	-1.371		
1/26/04 21:13:00	57.79	-1.370		
1/26/04 21:14:00	57.79	-1.370		
1/26/04 21:15:00	57.79	-1.369		
1/26/04 21:16:00	57.79	-1.369		
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1/26/04 21:20:00	57.79	-1.368		
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1/26/04 21:22:00	57.79	-1.369		
1/26/04 21:23:00	57.79	-1.368		
1/26/04 21:24:00	57.79	-1.367		
1/26/04 21:25:00	57.79	-1.368		
1/26/04 21:26:00	57.79	-1.368		
1/26/04 21:27:00	57.79	-1.369		
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1/26/04 21:35:00	57.79	-1.369		
1/26/04 21:36:00	57.79	-1.369		
1/26/04 21:37:00	57.79	-1.370		
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1/26/04 21:40:00	57.79	-1.371		
1/26/04 21:41:00	57.79	-1.370		
1/26/04 21:42:00	57.79	-1.370		
1/26/04 21:43:00	57.77	-1.370		
1/26/04 21:44:00	57.77	-1.371		
1/26/04 21:45:00	57.77	-1.370		
1/26/04 21:46:00	57.77	-1.370		
1/26/04 21:47:00	57.77	-1.371		
1/26/04 21:48:00	57.77	-1.370		
1/26/04 21:49:00	57.77	-1.369		
1/26/04 21:50:00	57.77	-1.370		
1/26/04 21:51:00	57.77	-1.370		
1/26/04 21:52:00	57.77	-1.371		
1/26/04 21:53:00	57.77	-1.371		
1/26/04 21:54:00	57.77	-1.372		
1/26/04 21:55:00	57.77	-1.371		
1/26/04 21:56:00	57.77	-1.372		
1/26/04 21:57:00	57.77	-1.373		
1/26/04 21:58:00	57.77	-1.373		
1/26/04 21:59:00	57.77	-1.373		
1/26/04 22:00:00	57.77	-1.373		
1/26/04 22:01:00	57.77	-1.373		
1/26/04 22:02:00	57.77	-1.373		
1/26/04 22:03:00	57.77	-1.373		
1/26/04 22:04:00	57.77	-1.373		
1/26/04 22:05:00	57.77	-1.373		
1/26/04 22:06:00	57.77	-1.372		
1/26/04 22:07:00	57.77	-1.372		
1/26/04 22:08:00	57.77	-1.371		
1/26/04 22:09:00	57.77	-1.371		
1/26/04 22:10:00	57.77	-1.371		
1/26/04 22:11:00	57.77	-1.371		
1/26/04 22:12:00	57.77	-1.371		
1/26/04 22:13:00	57.77	-1.371		
1/26/04 22:14:00	57.77	-1.371		
1/26/04 22:15:00	57.77	-1.371		
1/26/04 22:16:00	57.77	-1.369		
1/26/04 22:17:00	57.77	-1.370		
1/26/04 22:18:00	57.77	-1.369		
1/26/04 22:19:00	57.77	-1.371		
1/26/04 22:20:00	57.76	-1.370		
1/26/04 22:21:00	57.77	-1.371		
1/26/04 22:22:00	57.75	-1.370		
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1/27/04 11:06:00	57.75	-0.970		
1/27/04 11:07:00	57.82	-0.974		
1/27/04 11:08:00	57.87	-0.977		
1/27/04 11:09:00	57.94	-0.981		
1/27/04 11:10:00	58.01	-0.983		
1/27/04 11:11:00	58.07	-0.987		
1/27/04 11:12:00	58.14	-0.987		
1/27/04 11:13:00	58.20	-0.982		
1/27/04 11:14:00	58.26	-0.982		
1/27/04 11:15:00	58.33	-0.983		
1/27/04 11:16:00	58.40	-0.988		
1/27/04 11:17:00	58.47	-0.987		
1/27/04 11:18:00	58.53	-0.989		
1/27/04 11:19:00	58.60	-0.991		
1/27/04 11:20:00	58.67	-0.989		
1/27/04 11:21:00	58.73	-0.988		
1/27/04 11:22:00	58.79	-0.991		
1/27/04 11:23:00	58.85	-0.992		
1/27/04 11:24:00	58.92	-0.986		
1/27/04 11:25:00	58.98	-0.983		
1/27/04 11:26:00	59.03	-0.986		
1/27/04 11:27:00	59.10	-0.991		
1/27/04 11:28:00	59.16	-0.990		
1/27/04 11:29:00	59.22	-0.984		
1/27/04 11:30:00	59.27	-0.982		
1/27/04 11:31:00	59.33	-0.982		
1/27/04 11:32:00	59.38	-0.989		
1/27/04 11:33:00	59.44	-0.993		
1/27/04 11:34:00	59.50	-0.997		
1/27/04 11:35:00	59.56	-0.997		
1/27/04 11:36:00	59.61	-0.992		
1/27/04 11:37:00	59.66	-0.988		
1/27/04 11:38:00	59.71	-0.991		
1/27/04 11:39:00	59.77	-0.993		
1/27/04 11:40:00	59.81	-0.993		
1/27/04 11:41:00	59.87	-0.989		
1/27/04 11:42:00	59.92	-0.986		
1/27/04 11:43:00	59.97	-0.989		
1/27/04 11:44:00	60.01	-0.992		
1/27/04 11:45:00	60.07	-0.990		
1/27/04 11:46:00	60.12	-0.988		
1/27/04 11:47:00	60.17	-0.992		
1/27/04 11:48:00	60.22	-0.989		
1/27/04 11:49:00	60.26	-0.990		
1/27/04 11:50:00	60.31	-0.987		
1/27/04 11:51:00	60.35	-0.985		
1/27/04 11:52:00	60.40	-0.982		
1/27/04 11:53:00	60.44	-0.983		
1/27/04 11:54:00	60.50	-0.987		
1/27/04 11:55:00	60.54	-0.991		
1/27/04 11:56:00	60.59	-0.990		
1/27/04 11:57:00	60.63	-0.979		
1/27/04 11:58:00	60.68	-0.980		
1/27/04 11:59:00	60.73	-0.984		
1/27/04 12:00:00	60.77	-0.987		
1/27/04 12:01:00	60.81	-0.985		
1/27/04 12:02:00	60.86	-0.982		
1/27/04 12:03:00	60.90	-0.975		
1/27/04 12:04:00	60.94	-0.980		
1/27/04 12:05:00	60.99	-0.985		
1/27/04 12:06:00	61.03	-0.982		
1/27/04 12:07:00	61.07	-0.979		
1/27/04 12:08:00	61.11	-0.976		
1/27/04 12:09:00	61.15	-0.981		
1/27/04 12:10:00	61.20	-0.980		
1/27/04 12:11:00	61.24	-0.984		
1/27/04 12:12:00	61.28	-0.982		
1/27/04 12:13:00	61.32	-0.978		
1/27/04 12:14:00	61.37	-0.971		
1/27/04 12:15:00	61.40	-0.974		
1/27/04 12:16:00	61.45	-0.980		
1/27/04 12:17:00	61.49	-0.978		
1/27/04 12:18:00	61.53	-0.975		
1/27/04 12:19:00	61.57	-0.973		
1/27/04 12:20:00	61.61	-0.973		
1/27/04 12:21:00	61.65	-0.977		
1/27/04 12:22:00	61.70	-0.974		
1/27/04 12:23:00	61.74	-0.972		
1/27/04 12:24:00	61.78	-0.971		
1/27/04 12:25:00	61.83	-0.969		
1/27/04 12:26:00	61.87	-0.974		
1/27/04 12:27:00	61.91	-0.977		
1/27/04 12:28:00	61.95	-0.972		
1/27/04 12:29:00	62.00	-0.966		
1/27/04 12:30:00	62.04	-0.967		
1/27/04 12:31:00	62.08	-0.965		
1/27/04 12:32:00	62.12	-0.971		
1/27/04 12:33:00	62.16	-0.969		
1/27/04 12:34:00	62.21	-0.962		
1/27/04 12:35:00	62.25	-0.962		
1/27/04 12:36:00	62.29	-0.959		
1/27/04 12:37:00	62.33	-0.964		
1/27/04 12:38:00	62.38	-0.963		
1/27/04 12:39:00	62.42	-0.960		
1/27/04 12:40:00	62.46	-0.956		
1/27/04 12:41:00	62.51	-0.957		
1/27/04 12:42:00	62.54	-0.960		
1/27/04 12:43:00	62.59	-0.965		
1/27/04 12:44:00	62.63	-0.968		
1/27/04 12:45:00	62.67	-0.962		
1/27/04 12:46:00	62.71	-0.957		
1/27/04 12:47:00	62.76	-0.959		
1/27/04 12:48:00	62.80	-0.959		
1/27/04 12:49:00	62.83	-0.964		
1/27/04 12:50:00	62.87	-0.957		
1/27/04 12:51:00	62.91	-0.949		
1/27/04 12:52:00	62.95	-0.953		
1/27/04 12:53:00	62.98	-0.953		
1/27/04 12:54:00	63.02	-0.956		
1/27/04 12:55:00	63.05	-0.959		
1/27/04 12:56:00	63.10	-0.961		
1/27/04 12:57:00	63.12	-0.960		
1/27/04 12:58:00	63.16	-0.955		
1/27/04 12:59:00	63.21	-0.948		
1/27/04 13:00:00	63.24	-0.954		
1/27/04 13:01:00	63.28	-0.955		
1/27/04 13:02:00	63.32	-0.957		
1/27/04 13:03:00	63.36	-0.952		
1/27/04 13:04:00	63.41	-0.945		
1/27/04 13:05:00	63.44	-0.947		
1/27/04 13:06:00	63.48	-0.948		
1/27/04 13:07:00	63.53	-0.942		
1/27/04 13:08:00	63.57	-0.948		
1/27/04 13:09:00	63.61	-0.945		
1/27/04 13:10:00	63.66	-0.941		
1/27/04 13:11:00	63.70	-0.942		
1/27/04 13:12:00	63.75	-0.944		
1/27/04 13:13:00	63.80	-0.942		
1/27/04 13:14:00	63.84	-0.938		
1/27/04 13:15:00	63.89	-0.936		
1/27/04 13:16:00	63.93	-0.937		
1/27/04 13:17:00	63.98	-0.940		
1/27/04 13:18:00	64.02	-0.938		
1/27/04 13:19:00	64.07	-0.939		
1/27/04 13:20:00	64.11	-0.938		
1/27/04 13:21:00	64.17	-0.934		
1/27/04 13:22:00	64.22	-0.935		
1/27/04 13:23:00	64.26	-0.938		
1/27/04 13:24:00	64.30	-0.942		
1/27/04 13:25:00	64.35	-0.944		
1/27/04 13:26:00	64.40	-0.942		
1/27/04 13:27:00	64.44	-0.942		
1/27/04 13:28:00	64.48	-0.935		
1/27/04 13:29:00	64.53	-0.941		
1/27/04 13:30:00	64.58	-0.942		
1/27/04 13:31:00	64.64	-0.946		
1/27/04 13:32:00	64.70	-0.950		
1/27/04 13:33:00	64.78	-0.956		
1/27/04 13:34:00	64.86	-0.961		
1/27/04 13:35:00	64.94	-0.965		
1/27/04 13:36:00	65.03	-0.970		
1/27/04 13:37:00	65.10	-0.973		
1/27/04 13:38:00	65.18	-0.979		
1/27/04 13:39:00	65.29	2.016		INITIAL XD SUBMERGENCE
1/27/04 13:40:00	65.74	5.577		
1/27/04 13:41:00	66.05	13.795		
1/27/04 13:42:00	66.26	20.283		
1/27/04 13:43:00	66.42	20.916		
1/27/04 13:44:00	66.56	20.817		
1/27/04 13:45:00	66.66	25.101		
1/27/04 13:46:00	66.76	31.804		
1/27/04 13:47:00	66.85	38.726		
1/27/04 13:48:00	66.93	42.052		
1/27/04 13:49:00	67.02	42.049		
1/27/04 13:50:00	67.10	42.073		
1/27/04 13:51:00	67.18	44.391		
1/27/04 13:52:00	67.25	49.184		
1/27/04 13:53:00	67.32	52.035		
1/27/04 13:54:00	67.39	51.912		
1/27/04 13:55:00	67.47	55.131		
1/27/04 13:56:00	67.54	57.005		
1/27/04 13:57:00	67.62	56.995		XD AT MAX DEPTH
1/27/04 13:58:00	67.68	56.987		
1/27/04 13:59:00	67.75	56.980		
1/27/04 14:00:00	67.80	56.974		
1/27/04 14:01:00	67.85	56.971		
1/27/04 14:02:00	67.89	56.968		
1/27/04 14:03:00	67.93	56.964		
1/27/04 14:04:00	67.96	56.960		
1/27/04 14:05:00	68.00	56.957		
1/27/04 14:06:00	68.03	56.954		
1/27/04 14:07:00	68.05	56.954		
1/27/04 14:08:00	68.08	56.952		
1/27/04 14:09:00	68.10	56.949		
1/27/04 14:10:00	68.12	56.949		
1/27/04 14:11:00	68.14	56.947		
1/27/04 14:12:00	68.15	56.946		
1/27/04 14:13:00	68.17	56.944		
1/27/04 14:14:00	68.19	56.943		
1/27/04 14:15:00	68.19	56.943		
1/27/04 14:16:00	68.21	56.773		
1/27/04 14:17:00	68.21	56.669		STRING ADJUSTMENTS OR PACKER INFLATED
1/27/04 14:18:00	68.23	56.776		
1/27/04 14:19:00	68.23	56.800		
1/27/04 14:20:00	68.23	56.787		
1/27/04 14:21:00	68.25	56.762		
1/27/04 14:22:00	68.26	56.801		
1/27/04 14:23:00	68.26	56.739		
1/27/04 14:24:00	68.26	56.801		
1/27/04 14:25:00	68.28	56.792		
1/27/04 14:26:00	68.28	56.939	0.000	XD GOES TO EQUILIBRIUM
1/27/04 14:27:00	68.28	56.939	0.000	
1/27/04 14:28:00	68.28	56.939	0.000	
1/27/04 14:29:00	68.28	56.937	0.002	
1/27/04 14:30:00	68.28	56.936	0.003	
1/27/04 14:31:00	68.30	56.886	0.053	
1/27/04 14:32:00	68.30	56.959	-0.020	
1/27/04 14:33:00	68.30	56.936	0.003	
1/27/04 14:34:00	68.30	56.936	0.003	
1/27/04 14:35:00	68.30	56.937	0.002	
1/27/04 14:36:00	68.30	56.936	0.003	
1/27/04 14:37:00	68.30	56.936	0.003	
1/27/04 14:38:00	68.30	56.935	0.004	
1/27/04 14:39:00	68.30	56.936	0.003	
1/27/04 14:40:00	68.30	56.936	0.003	
1/27/04 14:41:00	68.30	56.935	0.004	
1/27/04 14:42:00	68.30	56.935	0.004	
1/27/04 14:43:00	68.30	56.935	0.004	
1/27/04 14:44:00	68.30	56.935	0.004	
1/27/04 14:45:00	68.30	56.935	0.004	
1/27/04 14:46:00	68.30	56.935	0.004	
1/27/04 14:47:00	68.30	56.934	0.005	
1/27/04 14:48:00	68.31	56.934	0.005	
1/27/04 14:49:00	68.30	56.935	0.004	
1/27/04 14:50:00	68.30	56.934	0.005	
1/27/04 14:51:00	68.30	56.935	0.004	
1/27/04 14:52:00	68.30	56.934	0.005	
1/27/04 14:53:00	68.30	56.427	0.512	PACKER INFLATION?
1/27/04 14:54:00	68.30	56.447	0.492	
1/27/04 14:55:00	68.30	56.491	0.448	
1/27/04 14:56:00	68.30	56.533	0.406	
1/27/04 14:57:00	68.31	56.573	0.366	
1/27/04 14:58:00	68.31	56.931	0.008	
1/27/04 14:59:00	68.32	56.955	-0.016	
1/27/04 15:00:00	68.31	56.962	-0.023	
1/27/04 15:01:00	68.32	56.966	-0.027	
1/27/04 15:02:00	68.32	56.968	-0.029	
1/27/04 15:03:00	68.32	55.784	1.155	STRING BRIEFLY RAISED?
1/27/04 15:04:00	68.32	56.974	-0.035	OR PUMP ON
1/27/04 15:05:00	68.32	56.985	-0.046	
1/27/04 15:06:00	68.32	56.986	-0.047	
1/27/04 15:07:00	68.32	56.983	-0.044	
1/27/04 15:08:00	68.31	56.984	-0.045	
1/27/04 15:09:00	68.32	56.984	-0.045	
1/27/04 15:10:00	68.32	56.979	-0.040	
1/27/04 15:11:00	68.32	56.975	-0.036	
1/27/04 15:12:00	68.32	56.980	-0.041	
1/27/04 15:13:00	68.32	56.922	0.017	PACKER INFLATION ?
1/27/04 15:14:00	68.32	56.668	0.271	
1/27/04 15:15:00	68.32	56.965	-0.026	
1/27/04 15:16:00	68.32	56.981	-0.042	
1/27/04 15:17:00	68.32	56.948	-0.009	
1/27/04 15:18:00	68.32	56.988	-0.049	
1/27/04 15:19:00	68.32	56.677	0.262	PACKER INFLATION ?
1/27/04 15:20:00	68.32	56.673	0.266	OR PUMP ON
1/27/04 15:21:00	68.32	56.671	0.268	
1/27/04 15:22:00	68.32	56.672	0.267	
1/27/04 15:23:00	68.32	56.981	-0.042	
1/27/04 15:24:00	68.32	56.995	-0.056	
1/27/04 15:25:00	68.32	57.000	-0.061	PACKER INFLATION ?
1/27/04 15:26:00	68.32	56.055	0.884	OR PUMP ON
1/27/04 15:27:00	68.32	56.253	0.686	
1/27/04 15:28:00	68.32	56.469	0.470	
1/27/04 15:29:00	68.32	56.623	0.316	
1/27/04 15:30:00	68.32	55.830	1.109	NEW ELEVATED PUMPING RATE?
1/27/04 15:31:00	68.32	55.879	1.060	
1/27/04 15:32:00	68.32	55.898	1.041	
1/27/04 15:33:00	68.32	55.903	1.036	
1/27/04 15:34:00	68.32	55.905	1.034	
1/27/04 15:35:00	68.32	55.893	1.046	
1/27/04 15:36:00	68.32	55.902	1.037	
1/27/04 15:37:00	68.32	55.910	1.029	
1/27/04 15:38:00	68.32	55.902	1.037	
1/27/04 15:39:00	68.32	55.900	1.039	
1/27/04 15:40:00	68.32	55.899	1.040	
1/27/04 15:41:00	68.32	55.898	1.041	
1/27/04 15:42:00	68.32	55.895	1.044	
1/27/04 15:43:00	68.32	55.899	1.040	
1/27/04 15:44:00	68.30	55.927	1.012	
1/27/04 15:45:00	68.30	55.942	0.997	
1/27/04 15:46:00	68.30	55.945	0.994	
1/27/04 15:47:00	68.30	55.949	0.990	
1/27/04 15:48:00	68.30	55.957	0.982	
1/27/04 15:49:00	68.30	55.958	0.981	
1/27/04 15:50:00	68.30	55.949	0.990	
1/27/04 15:51:00	68.30	55.950	0.989	
1/27/04 15:52:00	68.30	55.951	0.988	
1/27/04 15:53:00	68.30	55.951	0.988	
1/27/04 15:54:00	68.30	55.952	0.987	
1/27/04 15:55:00	68.30	55.945	0.994	
1/27/04 15:56:00	68.28	55.945	0.994	
1/27/04 15:57:00	68.28	55.947	0.992	
1/27/04 15:58:00	68.28	55.947	0.992	
1/27/04 15:59:00	68.28	55.964	0.975	
1/27/04 16:00:00	68.28	55.954	0.985	
1/27/04 16:01:00	68.28	55.954	0.985	
1/27/04 16:02:00	68.28	55.955	0.984	
1/27/04 16:03:00	68.28	55.955	0.984	
1/27/04 16:04:00	68.28	55.954	0.985	
1/27/04 16:05:00	68.27	55.960	0.979	
1/27/04 16:06:00	68.28	55.960	0.979	
1/27/04 16:07:00	68.27	55.959	0.980	
1/27/04 16:08:00	68.27	55.953	0.986	
1/27/04 16:09:00	68.26	55.953	0.986	
1/27/04 16:10:00	68.26	55.950	0.989	
1/27/04 16:11:00	68.26	55.947	0.992	
1/27/04 16:12:00	68.26	55.946	0.993	
1/27/04 16:13:00	68.26	55.946	0.993	
1/27/04 16:14:00	68.26	55.945	0.994	
1/27/04 16:15:00	68.26	55.943	0.996	
1/27/04 16:16:00	68.26	55.944	0.995	
1/27/04 16:17:00	68.26	55.945	0.994	
1/27/04 16:18:00	68.26	55.945	0.994	
1/27/04 16:19:00	68.26	56.881	0.058	PUMP OFF
1/27/04 16:20:00	68.26	56.936	0.003	
1/27/04 16:21:00	68.26	56.956	-0.017	
1/27/04 16:22:00	68.26	56.966	-0.027	
1/27/04 16:23:00	68.26	56.972	-0.033	
1/27/04 16:24:00	68.26	56.977	-0.038	
1/27/04 16:25:00	68.26	56.981	-0.042	
1/27/04 16:26:00	68.26	56.983	-0.044	
1/27/04 16:27:00	68.26	56.985	-0.046	
1/27/04 16:28:00	68.26	56.985	-0.046	
1/27/04 16:29:00	68.26	56.101	0.838	PUMP ON
1/27/04 16:30:00	68.26	55.871	1.068	
1/27/04 16:31:00	68.26	55.883	1.056	
1/27/04 16:32:00	68.26	55.925	1.014	
1/27/04 16:33:00	68.27	55.941	0.998	
1/27/04 16:34:00	68.28	55.939	1.000	
1/27/04 16:35:00	68.28	55.934	1.005	
1/27/04 16:36:00	68.28	55.934	1.005	
1/27/04 16:37:00	68.28	55.935	1.004	
1/27/04 16:38:00	68.27	55.934	1.005	
1/27/04 16:39:00	68.27	55.934	1.005	
1/27/04 16:40:00	68.26	55.931	1.008	
1/27/04 16:41:00	68.26	55.929	1.010	
1/27/04 16:42:00	68.26	55.924	1.015	
1/27/04 16:43:00	68.26	55.922	1.017	
1/27/04 16:44:00	68.26	55.923	1.016	
1/27/04 16:45:00	68.26	55.923	1.016	
1/27/04 16:46:00	68.26	55.922	1.017	
1/27/04 16:47:00	68.26	55.923	1.016	
1/27/04 16:48:00	68.26	55.921	1.018	
1/27/04 16:49:00	68.26	55.924	1.015	
1/27/04 16:50:00	68.26	55.923	1.016	
1/27/04 16:51:00	68.26	55.924	1.015	
1/27/04 16:52:00	68.26	55.926	1.013	
1/27/04 16:53:00	68.25	55.927	1.012	
1/27/04 16:54:00	68.23	55.927	1.012	
1/27/04 16:55:00	68.24	55.926	1.013	
1/27/04 16:56:00	68.24	55.928	1.011	
1/27/04 16:57:00	68.24	56.694	0.245	PUMP OFF
1/27/04 16:58:00	68.24	56.922	0.017	
1/27/04 16:59:00	68.25	56.945	-0.006	
1/27/04 17:00:00	68.25	56.958	-0.019	
1/27/04 17:01:00	68.24	56.966	-0.027	
1/27/04 17:02:00	68.24	56.972	-0.033	
1/27/04 17:03:00	68.25	56.977	-0.038	
1/27/04 17:04:00	68.23	56.980		
1/27/04 17:05:00	68.24	56.982	0.000	BEGIN BACKGROUND MONITORING (RESET DATUM)
1/27/04 17:06:00	68.23	56.984	-0.002	
1/27/04 17:07:00	68.23	56.985	-0.003	
1/27/04 17:08:00	68.25	56.985	-0.003	
1/27/04 17:09:00	68.26	56.986	-0.004	
1/27/04 17:10:00	68.26	56.987	-0.005	
1/27/04 17:11:00	68.26	56.987	-0.005	
1/27/04 17:12:00	68.26	56.987	-0.005	
1/27/04 17:13:00	68.26	56.987	-0.005	
1/27/04 17:14:00	68.26	56.987	-0.005	
1/27/04 17:15:00	68.26	56.988	-0.006	
1/27/04 17:16:00	68.26	56.988	-0.006	
1/27/04 17:17:00	68.26	56.987	-0.005	
1/27/04 17:18:00	68.26	56.987	-0.005	
1/27/04 17:19:00	68.26	56.987	-0.005	
1/27/04 17:20:00	68.26	56.988	-0.006	
1/27/04 17:21:00	68.27	56.986	-0.004	
1/27/04 17:22:00	68.27	56.987	-0.005	
1/27/04 17:23:00	68.28	56.987	-0.005	
1/27/04 17:24:00	68.28	56.986	-0.004	
1/27/04 17:25:00	68.28	56.986	-0.004	
1/27/04 17:26:00	68.28	56.986	-0.004	
1/27/04 17:27:00	68.28	56.985	-0.003	
1/27/04 17:28:00	68.28	56.986	-0.004	
1/27/04 17:29:00	68.28	56.984	-0.002	
1/27/04 17:30:00	68.28	56.985	-0.003	
1/27/04 17:31:00	68.28	56.985	-0.003	
1/27/04 17:32:00	68.28	56.985	-0.003	
1/27/04 17:33:00	68.28	56.984	-0.002	
1/27/04 17:34:00	68.28	56.984	-0.002	
1/27/04 17:35:00	68.28	56.984	-0.002	
1/27/04 17:36:00	68.28	56.984	-0.002	
1/27/04 17:37:00	68.28	56.982	0.000	
1/27/04 17:38:00	68.28	56.982	0.000	
1/27/04 17:39:00	68.28	56.982	0.000	
1/27/04 17:40:00	68.28	56.982	0.000	
1/27/04 17:41:00	68.28	56.981	0.001	
1/27/04 17:42:00	68.28	56.982	0.000	
1/27/04 17:43:00	68.28	56.980	0.002	
1/27/04 17:44:00	68.30	56.980	0.002	
1/27/04 17:45:00	68.30	56.979	0.003	
1/27/04 17:46:00	68.30	56.979	0.003	
1/27/04 17:47:00	68.30	56.979	0.003	
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1/27/04 17:50:00	68.30	56.978	0.004	
1/27/04 17:51:00	68.30	56.978	0.004	
1/27/04 17:52:00	68.30	56.978	0.004	
1/27/04 17:53:00	68.30	56.978	0.004	
1/27/04 17:54:00	68.30	56.978	0.004	
1/27/04 17:55:00	68.30	56.977	0.005	
1/27/04 17:56:00	68.30	56.976	0.006	
1/27/04 17:57:00	68.30	56.976	0.006	
1/27/04 17:58:00	68.30	56.975	0.007	
1/27/04 17:59:00	68.30	56.975	0.007	
1/27/04 18:00:00	68.30	56.975	0.007	
1/27/04 18:01:00	68.30	56.974	0.008	
1/27/04 18:02:00	68.30	56.974	0.008	
1/27/04 18:03:00	68.30	56.974	0.008	
1/27/04 18:04:00	68.30	56.975	0.007	
1/27/04 18:05:00	68.30	56.974	0.008	
1/27/04 18:06:00	68.31	56.974	0.008	
1/27/04 18:07:00	68.31	56.974	0.008	
1/27/04 18:08:00	68.30	56.974	0.008	
1/27/04 18:09:00	68.32	56.974	0.008	
1/27/04 18:10:00	68.32	56.974	0.008	
1/27/04 18:11:00	68.32	56.974	0.008	
1/27/04 18:12:00	68.32	56.973	0.009	
1/27/04 18:13:00	68.32	56.972	0.010	
1/27/04 18:14:00	68.32	56.972	0.010	
1/27/04 18:15:00	68.32	56.971	0.011	
1/27/04 18:16:00	68.32	56.971	0.011	
1/27/04 18:17:00	68.32	56.972	0.010	
1/27/04 18:18:00	68.32	56.970	0.012	
1/27/04 18:19:00	68.32	56.970	0.012	
1/27/04 18:20:00	68.32	56.971	0.011	
1/27/04 18:21:00	68.32	56.970	0.012	
1/27/04 18:22:00	68.32	56.969	0.013	
1/27/04 18:23:00	68.32	56.969	0.013	
1/27/04 18:24:00	68.32	56.970	0.012	
1/27/04 18:25:00	68.32	56.970	0.012	
1/27/04 18:26:00	68.32	56.970	0.012	
1/27/04 18:27:00	68.32	56.969	0.013	
1/27/04 18:28:00	68.32	56.970	0.012	
1/27/04 18:29:00	68.32	56.970	0.012	
1/27/04 18:30:00	68.32	56.969	0.013	
1/27/04 18:31:00	68.32	56.968	0.014	
1/27/04 18:32:00	68.32	56.968	0.014	
1/27/04 18:33:00	68.32	56.968	0.014	
1/27/04 18:34:00	68.32	56.967	0.015	
1/27/04 18:35:00	68.32	56.968	0.014	
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1/27/04 18:37:00	68.32	56.967	0.015	
1/27/04 18:38:00	68.32	56.967	0.015	
1/27/04 18:39:00	68.32	56.968	0.014	

1/27/04 18:40:00	68.32	56.968	0.014
1/27/04 18:41:00	68.32	56.967	0.015
1/27/04 18:42:00	68.32	56.966	0.016
1/27/04 18:43:00	68.32	56.966	0.016
1/27/04 18:44:00	68.32	56.966	0.016
1/27/04 18:45:00	68.34	56.966	0.016
1/27/04 18:46:00	68.33	56.967	0.015
1/27/04 18:47:00	68.33	56.966	0.016
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1/27/04 18:55:00	68.35	56.965	0.017
1/27/04 18:56:00	68.35	56.964	0.018
1/27/04 18:57:00	68.35	56.964	0.018
1/27/04 18:58:00	68.35	56.965	0.017
1/27/04 18:59:00	68.34	56.965	0.017
1/27/04 19:00:00	68.33	56.964	0.018
1/27/04 19:01:00	68.34	56.965	0.017
1/27/04 19:02:00	68.34	56.964	0.018
1/27/04 19:03:00	68.33	56.964	0.018
1/27/04 19:04:00	68.35	56.963	0.019
1/27/04 19:05:00	68.34	56.965	0.017
1/27/04 19:06:00	68.34	56.964	0.018
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1/27/04 19:08:00	68.34	56.964	0.018
1/27/04 19:09:00	68.35	56.963	0.019
1/27/04 19:10:00	68.34	56.964	0.018
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1/27/04 19:12:00	68.34	56.962	0.020
1/27/04 19:13:00	68.35	56.963	0.019
1/27/04 19:14:00	68.35	56.962	0.020
1/27/04 19:15:00	68.35	56.963	0.019
1/27/04 19:16:00	68.34	56.963	0.019
1/27/04 19:17:00	68.35	56.963	0.019
1/27/04 19:18:00	68.34	56.962	0.020
1/27/04 19:19:00	68.34	56.962	0.020
1/27/04 19:20:00	68.34	56.962	0.020
1/27/04 19:21:00	68.34	56.962	0.020
1/27/04 19:22:00	68.34	56.961	0.021
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1/27/04 19:26:00	68.35	56.960	0.022
1/27/04 19:27:00	68.34	56.962	0.020
1/27/04 19:28:00	68.35	56.960	0.022
1/27/04 19:29:00	68.35	56.961	0.021
1/27/04 19:30:00	68.35	56.961	0.021
1/27/04 19:31:00	68.35	56.961	0.021
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1/27/04 19:33:00	68.35	56.960	0.022
1/27/04 19:34:00	68.35	56.960	0.022
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1/27/04 19:38:00	68.35	56.959	0.023
1/27/04 19:39:00	68.35	56.959	0.023
1/27/04 19:40:00	68.34	56.960	0.022
1/27/04 19:41:00	68.35	56.960	0.022
1/27/04 19:42:00	68.35	56.959	0.023
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1/27/04 19:46:00	68.35	56.959	0.023
1/27/04 19:47:00	68.35	56.958	0.024
1/27/04 19:48:00	68.35	56.959	0.023
1/27/04 19:49:00	68.35	56.958	0.024
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1/27/04 20:00:00	68.35	56.959	0.023
1/27/04 20:01:00	68.35	56.958	0.024
1/27/04 20:02:00	68.35	56.957	0.025
1/27/04 20:03:00	68.35	56.957	0.025
1/27/04 20:04:00	68.35	56.957	0.025
1/27/04 20:05:00	68.35	56.957	0.025
1/27/04 20:06:00	68.35	56.957	0.025
1/27/04 20:07:00	68.35	56.957	0.025
1/27/04 20:08:00	68.35	56.957	0.025
1/27/04 20:09:00	68.35	56.958	0.024
1/27/04 20:10:00	68.35	56.958	0.024
1/27/04 20:11:00	68.35	56.957	0.025
1/27/04 20:12:00	68.35	56.956	0.026
1/27/04 20:13:00	68.35	56.957	0.025
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1/27/04 20:16:00	68.35	56.955	0.027
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1/27/04 20:18:00	68.35	56.955	0.027
1/27/04 20:19:00	68.35	56.955	0.027
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1/27/04 20:22:00	68.35	56.955	0.027
1/27/04 20:23:00	68.35	56.955	0.027
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1/27/04 20:41:00	68.35	56.953	0.029
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1/27/04 20:43:00	68.35	56.953	0.029
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1/27/04 20:50:00	68.35	56.955	0.027
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1/27/04 20:59:00	68.36	56.954	0.028
1/27/04 21:00:00	68.35	56.954	0.028
1/27/04 21:01:00	68.36	56.955	0.027
1/27/04 21:02:00	68.35	56.954	0.028
1/27/04 21:03:00	68.35	56.953	0.029
1/27/04 21:04:00	68.35	56.954	0.028
1/27/04 21:05:00	68.36	56.953	0.029
1/27/04 21:06:00	68.35	56.953	0.029
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1/27/04 21:12:00	68.35	56.953	0.029
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1/27/04 21:23:00	68.37	56.951	0.031
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1/27/04 21:48:00	68.37	56.949	0.033
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1/27/04 22:02:00	68.37	56.949	0.033
1/27/04 22:03:00	68.37	56.949	0.033
1/27/04 22:04:00	68.37	56.949	0.033
1/27/04 22:05:00	68.37	56.949	0.033
1/27/04 22:06:00	68.37	56.949	0.033
1/27/04 22:07:00	68.37	56.949	0.033
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1/27/04 22:14:00	68.37	56.949	0.033
1/27/04 22:15:00	68.37	56.949	0.033
1/27/04 22:16:00	68.37	56.948	0.034
1/27/04 22:17:00	68.37	56.949	0.033
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1/27/04 23:45:00	68.41	56.941	0.041
1/27/04 23:46:00	68.41	56.941	0.041
1/27/04 23:47:00	68.41	56.941	0.041
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1/28/04 0:09:00	68.41	56.939	0.043
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1/28/04 3:02:00	68.44	56.933	0.049
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1/28/04 3:05:00	68.44	56.934	0.048
1/28/04 3:06:00	68.44	56.934	0.048
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1/28/04 3:08:00	68.44	56.934	0.048
1/28/04 3:09:00	68.44	56.933	0.049
1/28/04 3:10:00	68.44	56.934	0.048
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1/28/04 3:13:00	68.44	56.934	0.048

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1/28/04 3:35:00	68.44	56.934	0.048	
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1/28/04 3:38:00	68.44	56.933	0.049	
1/28/04 3:39:00	68.44	56.932	0.050	
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1/28/04 3:41:00	68.44	56.933	0.049	
1/28/04 3:42:00	68.44	56.934	0.048	
1/28/04 3:43:00	68.44	56.934	0.048	
1/28/04 3:44:00	68.44	56.933	0.049	
1/28/04 3:45:00	68.44	56.932	0.050	
1/28/04 3:46:00	68.44	56.933	0.049	
1/28/04 3:47:00	68.44	56.933	0.049	
1/28/04 3:48:00	68.44	56.933	0.049	
1/28/04 3:49:00	68.44	56.934	0.048	
1/28/04 3:50:00	68.44	56.933	0.049	
1/28/04 3:51:00	68.44	56.932	0.050	
1/28/04 3:52:00	68.44	56.933	0.049	
1/28/04 3:53:00	68.44	56.932	0.050	
1/28/04 3:54:00	68.44	56.932	0.050	
1/28/04 3:55:00	68.44	56.934	0.048	
1/28/04 3:56:00	68.44	56.934	0.048	
1/28/04 3:57:00	68.44	56.933	0.049	
1/28/04 3:58:00	68.44	56.932	0.050	
1/28/04 3:59:00	68.44	56.934	0.048	
1/28/04 4:00:00	68.44	56.933	0.049	
1/28/04 4:01:00	68.44	56.933	0.049	
1/28/04 4:02:00	68.44	56.934	0.048	
1/28/04 4:03:00	68.44	56.932	0.050	
1/28/04 4:04:00	68.44	56.932	0.050	
1/28/04 4:05:00	68.44	56.932	0.050	
1/28/04 4:06:00	68.44	56.932	0.050	
1/28/04 4:07:00	68.44	56.932	0.050	
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1/28/04 4:23:00	68.44	56.932	0.050	
1/28/04 4:24:00	68.44	56.933	0.049	
1/28/04 4:25:00	68.44	56.933	0.049	
1/28/04 4:26:00	68.44	56.934	0.048	
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1/28/04 4:29:00	68.44	56.933	0.049	
1/28/04 4:30:00	68.44	56.934	0.048	
1/28/04 4:31:00	68.44	56.934	0.048	
1/28/04 4:32:00	68.44	56.934	0.048	
1/28/04 4:33:00	68.44	56.933	0.049	
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1/28/04 4:36:00	68.44	56.933	0.049	
1/28/04 4:37:00	68.44	56.934	0.048	
1/28/04 4:38:00	68.44	56.934	0.048	
1/28/04 4:39:00	68.44	56.934	0.048	
1/28/04 4:40:00	68.44	56.935	0.047	
1/28/04 4:41:00	68.44	56.934	0.048	
1/28/04 4:42:00	68.44	56.934	0.048	
1/28/04 4:43:00	68.44	56.934	0.048	
1/28/04 4:44:00	68.44	56.934	0.048	
1/28/04 4:45:00	68.44	56.934	0.048	
1/28/04 4:46:00	68.44	56.935	0.047	
1/28/04 4:47:00	68.44	56.934	0.048	
1/28/04 4:48:00	68.44	56.935	0.047	
1/28/04 4:49:00	68.44	56.934	0.048	
1/28/04 4:50:00	68.43	56.935	0.047	
1/28/04 4:51:00	68.44	56.935	0.047	
1/28/04 4:52:00	68.44	56.935	0.047	
1/28/04 4:53:00	68.44	56.936	0.046	
1/28/04 4:54:00	68.44	56.937	0.045	
1/28/04 4:55:00	68.44	56.935	0.047	
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1/28/04 4:57:00	68.44	56.936	0.046	
1/28/04 4:58:00	68.44	56.935	0.047	
1/28/04 4:59:00	68.43	56.935	0.047	
1/28/04 5:00:00	68.44	56.936	0.046	
1/28/04 5:01:00	68.43	56.936	0.046	
1/28/04 5:02:00	68.43	56.935	0.047	
1/28/04 5:03:00	68.44	56.935	0.047	
1/28/04 5:04:00	68.44	56.934	0.048	
1/28/04 5:05:00	68.44	56.935	0.047	
1/28/04 5:06:00	68.44	56.934	0.048	
1/28/04 5:07:00	68.44	56.934	0.048	
1/28/04 5:08:00	68.44	56.934	0.048	
1/28/04 5:09:00	68.44	56.935	0.047	
1/28/04 5:10:00	68.43	56.935	0.047	
1/28/04 5:11:00	68.44	56.936	0.046	
1/28/04 5:12:00	68.44	56.934	0.048	
1/28/04 5:13:00	68.44	56.936	0.046	
1/28/04 5:14:00	68.43	56.936	0.046	
1/28/04 5:15:00	68.43	56.936	0.046	
1/28/04 5:16:00	68.44	56.936	0.046	
1/28/04 5:17:00	68.44	56.936	0.046	
1/28/04 5:18:00	68.44	56.934	0.048	
1/28/04 5:19:00	68.44	56.934	0.048	
1/28/04 5:20:00	68.43	56.935	0.047	
1/28/04 5:21:00	68.43	56.934	0.048	
1/28/04 5:22:00	68.44	56.936	0.046	
1/28/04 5:23:00	68.43	56.935	0.047	
1/28/04 5:24:00	68.44	56.934	0.048	
1/28/04 5:25:00	68.44	56.934	0.048	
1/28/04 5:26:00	68.43	56.934	0.048	
1/28/04 5:27:00	68.44	56.933	0.049	
1/28/04 5:28:00	68.44	56.934	0.048	
1/28/04 5:29:00	68.43	56.932	0.050	
1/28/04 5:30:00	68.42	56.933	0.049	
1/28/04 5:31:00	68.43	56.933	0.049	
1/28/04 5:32:00	68.44	56.934	0.048	
1/28/04 5:33:00	68.42	56.935	0.047	
1/28/04 5:34:00	68.43	56.934	0.048	
1/28/04 5:35:00	68.44	56.934	0.048	
1/28/04 5:36:00	68.43	56.934	0.048	
1/28/04 5:37:00	68.42	56.935	0.047	
1/28/04 5:38:00	68.42	56.935	0.047	
1/28/04 5:39:00	68.44	56.933	0.049	
1/28/04 5:40:00	68.42	56.935	0.047	
1/28/04 5:41:00	68.43	56.934	0.048	
1/28/04 5:42:00	68.44	56.934	0.048	
1/28/04 5:43:00	68.42	56.936	0.046	
1/28/04 5:44:00	68.41	56.936	0.046	
1/28/04 5:45:00	68.42	56.935	0.047	
1/28/04 5:46:00	68.43	56.935	0.047	
1/28/04 5:47:00	68.42	56.935	0.047	
1/28/04 5:48:00	68.43	56.934	0.048	
1/28/04 5:49:00	68.42	56.934	0.048	
1/28/04 5:50:00	68.41	56.934	0.048	
1/28/04 5:51:00	68.43	56.933	0.049	
1/28/04 5:52:00	68.44	56.934	0.048	
1/28/04 5:53:00	68.42	56.935	0.047	
1/28/04 5:54:00	68.43	56.934	0.048	
1/28/04 5:55:00	68.42	56.934	0.048	
1/28/04 5:56:00	68.43	56.934	0.048	
1/28/04 5:57:00	68.42	56.935	0.047	
1/28/04 5:58:00	68.43	56.934	0.048	
1/28/04 5:59:00	68.42	56.935	0.047	
1/28/04 6:00:00	68.41	56.934	0.048	
1/28/04 6:01:00	68.43	56.934	0.048	
1/28/04 6:02:00	68.44	56.934	0.048	
1/28/04 6:03:00	68.44	56.935	0.047	
1/28/04 6:04:00	68.42	56.936	0.046	
1/28/04 6:05:00	68.44	56.935	0.047	
1/28/04 6:06:00	68.43	56.934	0.048	
1/28/04 6:07:00	68.44	56.934	0.048	
1/28/04 6:08:00	68.43	56.934	0.048	
1/28/04 6:09:00	68.43	56.934	0.048	
1/28/04 6:10:00	68.44	56.934	0.048	
1/28/04 6:11:00	68.43	56.935	0.047	
1/28/04 6:12:00	68.43	56.935	0.047	
1/28/04 6:13:00	68.42	56.936	0.046	
1/28/04 6:14:00	68.43	56.935	0.047	
1/28/04 6:15:00	68.42	56.936	0.046	
1/28/04 6:16:00	68.43	56.935	0.047	
1/28/04 6:17:00	68.42	56.936	0.046	
1/28/04 6:18:00	68.43	56.935	0.047	
1/28/04 6:19:00	68.42	56.935	0.047	
1/28/04 6:20:00	68.42	56.936	0.046	
1/28/04 6:21:00	68.43	56.934	0.048	
1/28/04 6:22:00	68.43	56.935	0.047	
1/28/04 6:23:00	68.43	56.935	0.047	
1/28/04 6:24:00	68.43	56.936	0.046	
1/28/04 6:25:00	68.43	56.935	0.047	
1/28/04 6:26:00	68.41	56.936	0.046	
1/28/04 6:27:00	68.41	56.936	0.046	
1/28/04 6:28:00	68.41	56.935	0.047	
1/28/04 6:29:00	68.41	56.935	0.047	
1/28/04 6:30:00	68.41	56.936	0.046	
1/28/04 6:31:00	68.41	56.936	0.046	
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1/28/04 6:36:00	68.43	56.935	0.047	
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1/28/04 6:39:00	68.43	56.935	0.047	
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1/28/04 6:41:00	68.42	56.935	0.047	
1/28/04 6:42:00	68.43	56.934	0.048	
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1/28/04 6:44:00	68.42	56.935	0.047	
1/28/04 6:45:00	68.41	56.935	0.047	
1/28/04 6:46:00	68.41	56.936	0.046	
1/28/04 6:47:00	68.41	56.936	0.046	
1/28/04 6:48:00	68.42	56.936	0.046	
1/28/04 6:49:00	68.41	56.935	0.047	
1/28/04 6:50:00	68.42	56.936	0.046	
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1/28/04 6:52:00	68.42	56.936	0.046	
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1/28/04 6:58:00	68.41	56.935	0.047	
1/28/04 6:59:00	68.41	56.936	0.046	
1/28/04 7:00:00	68.41	56.936	0.046	
1/28/04 7:01:00	68.41	56.936	0.046	
1/28/04 7:02:00	68.41	56.936	0.046	
1/28/04 7:03:00	68.41	56.935	0.047	
1/28/04 7:04:00	68.41	56.936	0.046	
1/28/04 7:05:00	68.41	56.936	0.046	
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1/28/04 7:07:00	68.43	56.935	0.047	
1/28/04 7:08:00	68.41	56.935	0.047	
1/28/04 7:09:00	68.41	56.935	0.047	
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1/28/04 7:12:00	68.41	56.936	0.046	
1/28/04 7:13:00	68.41	56.935	0.047	
1/28/04 7:14:00	68.41	56.936	0.046	
1/28/04 7:15:00	68.41	56.937	0.045	
1/28/04 7:16:00	68.41	56.935	0.047	
1/28/04 7:17:00	68.41	56.937	0.045	
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1/28/04 7:19:00	68.41	56.936	0.046	
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1/28/04 7:28:00	68.41	56.937	0.045	
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1/28/04 7:37:00	68.41	56.937	0.045	
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1/28/04 7:42:00	68.41	56.937	0.045	
1/28/04 7:43:00	68.41	56.936	0.046	
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1/28/04 7:45:00	68.41	56.936	0.046	
1/28/04 7:46:00	68.41	56.937	0.045	
1/28/04 7:47:00	68.41	56.936	0.046	
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1/28/04 8:01:00	68.41	56.936	0.046	
1/28/04 8:02:00	68.41	56.936	0.046	
1/28/04 8:03:00	68.41	56.936	0.046	
1/28/04 8:04:00	68.41	56.936	0.046	
1/28/04 8:05:00	68.41	56.937	0.045	
1/28/04 8:06:00	68.41	56.937	0.045	
1/28/04 8:07:00	68.41	56.937	0.045	
1/28/04 8:08:00	68.41	56.936	0.046	
1/28/04 8:09:00	68.41	56.936	0.046	
1/28/04 8:10:00	68.41	56.497	0.485	
1/28/04 8:11:00	68.41	56.535	0.447	
1/28/04 8:12:00	68.41	56.625	0.357	
1/28/04 8:13:00	68.41	56.690	0.292	
1/28/04 8:14:00	68.41	56.940	0.042	
1/28/04 8:15:00	68.41	56.611	0.371	
1/28/04 8:16:00	68.41	56.191	0.791	
1/28/04 8:17:00	68.41	56.226	0.756	
1/28/04 8:18:00	68.41	56.265	0.717	
1/28/04 8:19:00	68.40	56.258	0.724	
1/28/04 8:20:00	68.39	56.355	0.627	
1/28/04 8:21:00	68.39	56.362	0.620	
1/28/04 8:22:00	68.39	56.362	0.620	
1/28/04 8:23:00	68.39	56.933	0.049	
1/28/04 8:24:00	68.38	56.957	0.025	
1/28/04 8:25:00	68.37	56.965	0.017	
1/28/04 8:26:00	68.37	56.970	0.012	
1/28/04 8:27:00	68.37	56.974	0.008	
1/28/04 8:28:00	68.37	56.975	0.007	
1/28/04 8:29:00	68.37	56.976	0.006	
1/28/04 8:30:00	68.36	56.824	0.158	PUMP ON
1/28/04 8:31:00	68.36	55.744	1.238	
1/28/04 8:32:00	68.36	55.712	1.270	
1/28/04 8:33:00	68.35	55.704	1.278	
1/28/04 8:34:00	68.35	55.698	1.284	
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1/28/04 8:38:00	68.35	55.689	1.293	
1/28/04 8:39:00	68.34	55.690	1.292	
1/28/04 8:40:00	68.32	55.690	1.292	
1/28/04 8:41:00	68.32	55.685	1.297	
1/28/04 8:42:00	68.32	55.685	1.297	
1/28/04 8:43:00	68.32	55.686	1.296	
1/28/04 8:44:00	68.32	55.683	1.299	
1/28/04 8:45:00	68.30	55.686	1.296	
1/28/04 8:46:00	68.30	55.684	1.298	
1/28/04 8:47:00	68.30	55.684	1.298	
1/28/04 8:48:00	68.28	55.683	1.299	
1/28/04 8:49:00	68.28	55.684	1.298	
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1/28/04 14:14:00	68.44	56.922	0.060
1/28/04 14:15:00	68.44	56.922	0.060
1/28/04 14:16:00	68.44	56.922	0.060
1/28/04 14:17:00	68.44	56.922	0.060
1/28/04 14:18:00	68.44	56.922	0.060
1/28/04 14:19:00	68.43	56.922	0.060
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1/28/04 14:23:00	68.44	56.922	0.060
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1/28/04 14:26:00	68.44	56.922	0.060
1/28/04 14:27:00	68.44	56.922	0.060
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1/28/04 14:34:00	68.44	56.922	0.060
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1/28/04 15:03:00	68.44	56.922	0.060
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1/28/04 15:09:00	68.44	56.921	0.061
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1/28/04 15:12:00	68.45	56.922	0.060
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1/28/04 15:44:00	68.46	56.920	0.062
1/28/04 15:45:00	68.46	56.919	0.063
1/28/04 15:46:00	68.46	56.918	0.064
1/28/04 15:47:00	68.46	56.919	0.063
1/28/04 15:48:00	68.46	56.918	0.064
1/28/04 15:49:00	68.46	56.918	0.064
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1/28/04 15:52:00	68.46	56.918	0.064
1/28/04 15:53:00	68.46	56.919	0.063
1/28/04 15:54:00	68.46	56.919	0.063
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1/28/04 16:03:00	68.47	56.918	0.064
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1/28/04 16:09:00	68.46	56.918	0.064
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1/28/04 16:32:00	68.47	56.918	0.064
1/28/04 16:33:00	68.47	56.919	0.063
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1/28/04 16:47:00	68.47	56.918	0.064
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1/28/04 17:02:00	68.48	56.918	0.064
1/28/04 17:03:00	68.48	56.918	0.064
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1/28/04 17:18:00	68.48	56.918	0.064
1/28/04 17:19:00	68.48	56.918	0.064
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1/28/04 17:23:00	68.48	56.919	0.063
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1/28/04 17:27:00	68.48	56.919	0.063
1/28/04 17:28:00	68.48	56.918	0.064
1/28/04 17:29:00	68.48	56.918	0.064
1/28/04 17:30:00	68.48	56.918	0.064
1/28/04 17:31:00	68.48	56.919	0.063
1/28/04 17:32:00	68.48	56.918	0.064
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1/28/04 17:34:00	68.48	56.919	0.063
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1/28/04 17:37:00	68.48	56.919	0.063
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1/28/04 17:40:00	68.48	56.920	0.062
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1/28/04 17:45:00	68.48	56.919	0.063
1/28/04 17:46:00	68.48	56.919	0.063
1/28/04 17:47:00	68.48	56.920	0.062
1/28/04 17:48:00	68.48	56.919	0.063
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1/28/04 17:59:00	68.48	56.919	0.063
1/28/04 18:00:00	68.48	56.918	0.064
1/28/04 18:01:00	68.48	56.918	0.064
1/28/04 18:02:00	68.48	56.920	0.062
1/28/04 18:03:00	68.48	56.918	0.064
1/28/04 18:04:00	68.48	56.919	0.063
1/28/04 18:05:00	68.48	56.920	0.062
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1/28/04 18:07:00	68.48	56.919	0.063
1/28/04 18:08:00	68.48	56.919	0.063
1/28/04 18:09:00	68.48	56.920	0.062
1/28/04 18:10:00	68.48	56.919	0.063
1/28/04 18:11:00	68.48	56.919	0.063
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1/28/04 18:19:00	68.48	56.920	0.062
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1/28/04 18:23:00	68.48	56.919	0.063
1/28/04 18:24:00	68.48	56.920	0.062
1/28/04 18:25:00	68.48	56.919	0.063
1/28/04 18:26:00	68.48	56.919	0.063
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1/28/04 18:28:00	68.48	56.920	0.062
1/28/04 18:29:00	68.48	56.919	0.063
1/28/04 18:30:00	68.48	56.919	0.063
1/28/04 18:31:00	68.48	56.919	0.063
1/28/04 18:32:00	68.48	56.920	0.062
1/28/04 18:33:00	68.48	56.919	0.063
1/28/04 18:34:00	68.48	56.918	0.064
1/28/04 18:35:00	68.48	56.919	0.063
1/28/04 18:36:00	68.48	56.919	0.063
1/28/04 18:37:00	68.48	56.920	0.062
1/28/04 18:38:00	68.48	56.920	0.062
1/28/04 18:39:00	68.48	56.919	0.063
1/28/04 18:40:00	68.48	56.920	0.062
1/28/04 18:41:00	68.48	56.920	0.062
1/28/04 18:42:00	68.48	56.920	0.062
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1/28/04 18:47:00	68.48	56.920	0.062
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1/28/04 18:59:00	68.48	56.921	0.061
1/28/04 19:00:00	68.48	56.920	0.062
1/28/04 19:01:00	68.48	56.921	0.061
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1/28/04 19:04:00	68.48	56.920	0.062
1/28/04 19:05:00	68.48	56.921	0.061
1/28/04 19:06:00	68.48	56.919	0.063
1/28/04 19:07:00	68.48	56.921	0.061
1/28/04 19:08:00	68.48	56.920	0.062
1/28/04 19:09:00	68.48	56.920	0.062
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1/28/04 19:11:00	68.48	56.920	0.062
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1/28/04 19:25:00	68.48	56.920	0.062
1/28/04 19:26:00	68.48	56.920	0.062
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1/28/04 19:31:00	68.48	56.920	0.062
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1/28/04 19:35:00	68.48	56.919	0.063
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1/28/04 19:38:00	68.46	56.920	0.062
1/28/04 19:39:00	68.47	56.920	0.062
1/28/04 19:40:00	68.48	56.919	0.063
1/28/04 19:41:00	68.47	56.920	0.062
1/28/04 19:42:00	68.48	56.919	0.063
1/28/04 19:43:00	68.48	56.920	0.062
1/28/04 19:44:00	68.48	56.919	0.063
1/28/04 19:45:00	68.48	56.921	0.061
1/28/04 19:46:00	68.48	56.920	0.062
1/28/04 19:47:00	68.48	56.920	0.062
1/28/04 19:48:00	68.48	56.920	0.062
1/28/04 19:49:00	68.48	56.919	0.063
1/28/04 19:50:00	68.48	56.920	0.062
1/28/04 19:51:00	68.48	56.919	0.063
1/28/04 19:52:00	68.48	56.920	0.062
1/28/04 19:53:00	68.48	56.920	0.062
1/28/04 19:54:00	68.47	56.920	0.062
1/28/04 19:55:00	68.48	56.920	0.062
1/28/04 19:56:00	68.48	56.920	0.062
1/28/04 19:57:00	68.48	56.920	0.062
1/28/04 19:58:00	68.47	56.920	0.062
1/28/04 19:59:00	68.48	56.920	0.062
1/28/04 20:00:00	68.48	56.920	0.062
1/28/04 20:01:00	68.48	56.921	0.061
1/28/04 20:02:00	68.48	56.920	0.062
1/28/04 20:03:00	68.48	56.919	0.063
1/28/04 20:04:00	68.48	56.919	0.063
1/28/04 20:05:00	68.48	56.919	0.063
1/28/04 20:06:00	68.48	56.920	0.062
1/28/04 20:07:00	68.48	56.920	0.062
1/28/04 20:08:00	68.48	56.920	0.062
1/28/04 20:09:00	68.47	56.920	0.062
1/28/04 20:10:00	68.48	56.919	0.063
1/28/04 20:11:00	68.48	56.920	0.062
1/28/04 20:12:00	68.48	56.920	0.062
1/28/04 20:13:00	68.48	56.921	0.061
1/28/04 20:14:00	68.47	56.921	0.061
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1/28/04 20:21:00	68.48	56.920	0.062

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1/28/04 20:23:00	68.48	56.920	0.062
1/28/04 20:24:00	68.48	56.921	0.061
1/28/04 20:25:00	68.48	56.920	0.062
1/28/04 20:26:00	68.48	56.920	0.062
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1/28/04 20:32:00	68.47	56.921	0.061
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1/28/04 20:41:00	68.48	56.920	0.062
1/28/04 20:42:00	68.47	56.921	0.061
1/28/04 20:43:00	68.48	56.920	0.062
1/28/04 20:44:00	68.48	56.920	0.062
1/28/04 20:45:00	68.48	56.920	0.062
1/28/04 20:46:00	68.48	56.920	0.062
1/28/04 20:47:00	68.48	56.920	0.062
1/28/04 20:48:00	68.47	56.920	0.062
1/28/04 20:49:00	68.46	56.920	0.062
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1/28/04 20:53:00	68.47	56.920	0.062
1/28/04 20:54:00	68.48	56.921	0.061
1/28/04 20:55:00	68.47	56.921	0.061
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1/28/04 21:02:00	68.48	56.922	0.060
1/28/04 21:03:00	68.47	56.922	0.060
1/28/04 21:04:00	68.48	56.922	0.060
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1/28/04 21:06:00	68.47	56.922	0.060
1/28/04 21:07:00	68.47	56.922	0.060
1/28/04 21:08:00	68.46	56.922	0.060
1/28/04 21:09:00	68.47	56.920	0.062
1/28/04 21:10:00	68.48	56.922	0.060
1/28/04 21:11:00	68.46	56.921	0.061
1/28/04 21:12:00	68.46	56.922	0.060
1/28/04 21:13:00	68.46	56.922	0.060
1/28/04 21:14:00	68.47	56.922	0.060
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1/28/04 21:21:00	68.47	56.922	0.060
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1/28/04 21:23:00	68.47	56.922	0.060
1/28/04 21:24:00	68.47	56.922	0.060
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1/28/04 21:40:00	68.46	56.923	0.059
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1/28/04 21:42:00	68.46	56.924	0.058
1/28/04 21:43:00	68.46	56.922	0.060
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1/28/04 21:45:00	68.47	56.923	0.059
1/28/04 21:46:00	68.47	56.922	0.060
1/28/04 21:47:00	68.46	56.922	0.060
1/28/04 21:48:00	68.46	56.923	0.059
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1/28/04 22:01:00	68.46	56.922	0.060
1/28/04 22:02:00	68.46	56.922	0.060
1/28/04 22:03:00	68.46	56.922	0.060
1/28/04 22:04:00	68.46	56.922	0.060
1/28/04 22:05:00	68.46	56.922	0.060
1/28/04 22:06:00	68.46	56.924	0.058
1/28/04 22:07:00	68.47	56.922	0.060
1/28/04 22:08:00	68.46	56.922	0.060
1/28/04 22:09:00	68.46	56.922	0.060
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1/28/04 22:12:00	68.46	56.922	0.060
1/28/04 22:13:00	68.47	56.922	0.060
1/28/04 22:14:00	68.47	56.923	0.059
1/28/04 22:15:00	68.46	56.924	0.058
1/28/04 22:16:00	68.46	56.923	0.059
1/28/04 22:17:00	68.46	56.923	0.059
1/28/04 22:18:00	68.46	56.924	0.058
1/28/04 22:19:00	68.46	56.923	0.059
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1/28/04 22:40:00	68.46	56.924	0.058
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1/28/04 22:44:00	68.46	56.924	0.058
1/28/04 22:45:00	68.46	56.924	0.058
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1/28/04 22:47:00	68.46	56.923	0.059
1/28/04 22:48:00	68.46	56.924	0.058
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1/28/04 22:56:00	68.46	56.923	0.059
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1/28/04 22:59:00	68.46	56.923	0.059
1/28/04 23:00:00	68.46	56.923	0.059
1/28/04 23:01:00	68.46	56.924	0.058
1/28/04 23:02:00	68.46	56.924	0.058
1/28/04 23:03:00	68.46	56.923	0.059
1/28/04 23:04:00	68.46	56.923	0.059
1/28/04 23:05:00	68.46	56.923	0.059
1/28/04 23:06:00	68.46	56.923	0.059
1/28/04 23:07:00	68.46	56.923	0.059
1/28/04 23:08:00	68.46	56.922	0.060
1/28/04 23:09:00	68.46	56.923	0.059
1/28/04 23:10:00	68.46	56.923	0.059
1/28/04 23:11:00	68.46	56.923	0.059
1/28/04 23:12:00	68.46	56.923	0.059
1/28/04 23:13:00	68.46	56.923	0.059
1/28/04 23:14:00	68.46	56.923	0.059
1/28/04 23:15:00	68.46	56.923	0.059
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1/28/04 23:18:00	68.46	56.924	0.058
1/28/04 23:19:00	68.46	56.922	0.060
1/28/04 23:20:00	68.46	56.922	0.060
1/28/04 23:21:00	68.46	56.922	0.060
1/28/04 23:22:00	68.46	56.922	0.060
1/28/04 23:23:00	68.46	56.922	0.060
1/28/04 23:24:00	68.46	56.924	0.058
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1/28/04 23:26:00	68.46	56.923	0.059
1/28/04 23:27:00	68.46	56.924	0.058
1/28/04 23:28:00	68.46	56.922	0.060
1/28/04 23:29:00	68.46	56.923	0.059
1/28/04 23:30:00	68.46	56.923	0.059
1/28/04 23:31:00	68.46	56.922	0.060
1/28/04 23:32:00	68.46	56.922	0.060
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1/28/04 23:37:00	68.46	56.922	0.060
1/28/04 23:38:00	68.46	56.922	0.060
1/28/04 23:39:00	68.46	56.922	0.060
1/28/04 23:40:00	68.46	56.922	0.060
1/28/04 23:41:00	68.46	56.922	0.060
1/28/04 23:42:00	68.46	56.922	0.060
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1/28/04 23:46:00	68.46	56.922	0.060
1/28/04 23:47:00	68.46	56.922	0.060
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1/29/04 0:01:00	68.46	56.920	0.062
1/29/04 0:02:00	68.46	56.921	0.061
1/29/04 0:03:00	68.46	56.920	0.062
1/29/04 0:04:00	68.46	56.920	0.062
1/29/04 0:05:00	68.46	56.920	0.062
1/29/04 0:06:00	68.46	56.920	0.062
1/29/04 0:07:00	68.46	56.920	0.062
1/29/04 0:08:00	68.46	56.919	0.063
1/29/04 0:09:00	68.46	56.919	0.063
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1/29/04 0:12:00	68.46	56.919	0.063
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1/29/04 0:18:00	68.46	56.920	0.062
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1/29/04 0:23:00	68.46	56.919	0.063
1/29/04 0:24:00	68.46	56.919	0.063
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1/29/04 0:39:00	68.46	56.920	0.062
1/29/04 0:40:00	68.46	56.919	0.063
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1/29/04 1:02:00	68.46	56.919	0.063
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1/29/04 1:05:00	68.46	56.920	0.062
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1/29/04 1:07:00	68.45	56.919	0.063
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1/29/04 1:11:00	68.45	56.920	0.062
1/29/04 1:12:00	68.46	56.920	0.062
1/29/04 1:13:00	68.46	56.919	0.063
1/29/04 1:14:00	68.46	56.919	0.063
1/29/04 1:15:00	68.45	56.920	0.062
1/29/04 1:16:00	68.46	56.920	0.062
1/29/04 1:17:00	68.46	56.919	0.063
1/29/04 1:18:00	68.46	56.920	0.062
1/29/04 1:19:00	68.46	56.920	0.062
1/29/04 1:20:00	68.46	56.920	0.062
1/29/04 1:21:00	68.46	56.920	0.062
1/29/04 1:22:00	68.46	56.920	0.062
1/29/04 1:23:00	68.46	56.920	0.062
1/29/04 1:24:00	68.46	56.920	0.062
1/29/04 1:25:00	68.46	56.920	0.062
1/29/04 1:26:00	68.46	56.919	0.063
1/29/04 1:27:00	68.46	56.920	0.062
1/29/04 1:28:00	68.46	56.919	0.063
1/29/04 1:29:00	68.46	56.919	0.063
1/29/04 1:30:00	68.46	56.920	0.062
1/29/04 1:31:00	68.46	56.919	0.063
1/29/04 1:32:00	68.46	56.920	0.062
1/29/04 1:33:00	68.46	56.919	0.063
1/29/04 1:34:00	68.46	56.920	0.062
1/29/04 1:35:00	68.46	56.920	0.062
1/29/04 1:36:00	68.46	56.920	0.062
1/29/04 1:37:00	68.45	56.920	0.062
1/29/04 1:38:00	68.45	56.920	0.062
1/29/04 1:39:00	68.46	56.920	0.062
1/29/04 1:40:00	68.46	56.920	0.062
1/29/04 1:41:00	68.45	56.920	0.062
1/29/04 1:42:00	68.46	56.920	0.062
1/29/04 1:43:00	68.46	56.920	0.062
1/29/04 1:44:00	68.45	56.920	0.062
1/29/04 1:45:00	68.45	56.920	0.062
1/29/04 1:46:00	68.46	56.920	0.062
1/29/04 1:47:00	68.45	56.921	0.061
1/29/04 1:48:00	68.46	56.920	0.062
1/29/04 1:49:00	68.46	56.920	0.062
1/29/04 1:50:00	68.45	56.920	0.062
1/29/04 1:51:00	68.46	56.919	0.063
1/29/04 1:52:00	68.46	56.920	0.062
1/29/04 1:53:00	68.46	56.920	0.062
1/29/04 1:54:00	68.44	56.920	0.062
1/29/04 1:55:00	68.45	56.920	0.062
1/29/04 1:56:00	68.46	56.920	0.062
1/29/04 1:57:00	68.45	56.920	0.062
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1/29/04 1:59:00	68.46	56.921	0.061
1/29/04 2:00:00	68.45	56.920	0.062
1/29/04 2:01:00	68.46	56.922	0.060
1/29/04 2:02:00	68.45	56.921	0.061
1/29/04 2:03:00	68.46	56.920	0.062
1/29/04 2:04:00	68.46	56.922	0.060
1/29/04 2:05:00	68.45	56.921	0.061
1/29/04 2:06:00	68.45	56.920	0.062
1/29/04 2:07:00	68.45	56.921	0.061
1/29/04 2:08:00	68.44	56.920	0.062
1/29/04 2:09:00	68.45	56.920	0.062
1/29/04 2:10:00	68.44	56.921	0.061
1/29/04 2:11:00	68.44	56.922	0.060
1/29/04 2:12:00	68.45	56.923	0.059
1/29/04 2:13:00	68.45	56.922	0.060
1/29/04 2:14:00	68.45	56.920	0.062
1/29/04 2:15:00	68.44	56.920	0.062
1/29/04 2:16:00	68.45	56.920	0.062
1/29/04 2:17:00	68.44	56.919	0.063
1/29/04 2:18:00	68.44	56.919	0.063
1/29/04 2:19:00	68.44	56.919	0.063
1/29/04 2:20:00	68.44	56.918	0.064
1/29/04 2:21:00	68.44	56.919	0.063
1/29/04 2:22:00	68.44	56.918	0.064
1/29/04 2:23:00	68.44	56.919	0.063
1/29/04 2:24:00	68.45	56.919	0.063
1/29/04 2:25:00	68.44	56.918	0.064
1/29/04 2:26:00	68.44	56.919	0.063
1/29/04 2:27:00	68.45	56.919	0.063
1/29/04 2:28:00	68.44	56.919	0.063
1/29/04 2:29:00	68.44	56.918	0.064
1/29/04 2:30:00	68.44	56.918	0.064
1/29/04 2:31:00	68.44	56.918	0.064
1/29/04 2:32:00	68.44	56.918	0.064
1/29/04 2:33:00	68.44	56.918	0.064
1/29/04 2:34:00	68.44	56.918	0.064
1/29/04 2:35:00	68.44	56.918	0.064
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1/29/04 2:38:00	68.44	56.918	0.064
1/29/04 2:39:00	68.44	56.918	0.064
1/29/04 2:40:00	68.45	56.918	0.064
1/29/04 2:41:00	68.44	56.917	0.065
1/29/04 2:42:00	68.44	56.918	0.064
1/29/04 2:43:00	68.44	56.918	0.064
1/29/04 2:44:00	68.45	56.918	0.064
1/29/04 2:45:00	68.44	56.918	0.064
1/29/04 2:46:00	68.44	56.918	0.064
1/29/04 2:47:00	68.46	56.918	0.064
1/29/04 2:48:00	68.45	56.918	0.064
1/29/04 2:49:00	68.45	56.916	0.066
1/29/04 2:50:00	68.44	56.917	0.065
1/29/04 2:51:00	68.44	56.917	0.065
1/29/04 2:52:00	68.44	56.918	0.064
1/29/04 2:53:00	68.44	56.918	0.064
1/29/04 2:54:00	68.45	56.918	0.064
1/29/04 2:55:00	68.45	56.918	0.064
1/29/04 2:56:00	68.44	56.918	0.064
1/29/04 2:57:00	68.44	56.918	0.064
1/29/04 2:58:00	68.44	56.918	0.064
1/29/04 2:59:00	68.45	56.918	0.064
1/29/04 3:00:00	68.44	56.918	0.064
1/29/04 3:01:00	68.44	56.918	0.064
1/29/04 3:02:00	68.45	56.918	0.064
1/29/04 3:03:00	68.44	56.918	0.064
1/29/04 3:04:00	68.44	56.918	0.064
1/29/04 3:05:00	68.44	56.918	0.064
1/29/04 3:06:00	68.44	56.917	0.065
1/29/04 3:07:00	68.44	56.918	0.064
1/29/04 3:08:00	68.44	56.917	0.065
1/29/04 3:09:00	68.44	56.917	0.065
1/29/04 3:10:00	68.44	56.918	0.064
1/29/04 3:11:00	68.44	56.918	0.064
1/29/04 3:12:00	68.44	56.916	0.066
1/29/04 3:13:00	68.44	56.918	0.064
1/29/04 3:14:00	68.44	56.918	0.064
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1/29/04 3:16:00	68.44	56.918	0.064
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1/29/04 3:19:00	68.44	56.917	0.065
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1/29/04 3:21:00	68.44	56.918	0.064
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1/29/04 3:23:00	68.44	56.918	0.064
1/29/04 3:24:00	68.44	56.918	0.064
1/29/04 3:25:00	68.44	56.919	0.063
1/29/04 3:26:00	68.44	56.918	0.064
1/29/04 3:27:00	68.44	56.919	0.063
1/29/04 3:28:00	68.44	56.919	0.063
1/29/04 3:29:00	68.44	56.919	0.063
1/29/04 3:30:00	68.44	56.918	0.064
1/29/04 3:31:00	68.44	56.918	0.064
1/29/04 3:32:00	68.44	56.918	0.064
1/29/04 3:33:00	68.44	56.918	0.064
1/29/04 3:34:00	68.44	56.917	0.065
1/29/04 3:35:00	68.44	56.918	0.064
1/29/04 3:36:00	68.44	56.917	0.065
1/29/04 3:37:00	68.44	56.917	0.065
1/29/04 3:38:00	68.44	56.917	0.065
1/29/04 3:39:00	68.44	56.917	0.065
1/29/04 3:40:00	68.44	56.916	0.066
1/29/04 3:41:00	68.44	56.916	0.066
1/29/04 3:42:00	68.44	56.915	0.067
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1/29/04 3:44:00	68.44	56.916	0.066
1/29/04 3:45:00	68.44	56.915	0.067
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1/29/04 3:47:00	68.44	56.916	0.066
1/29/04 3:48:00	68.44	56.916	0.066
1/29/04 3:49:00	68.44	56.917	0.065
1/29/04 3:50:00	68.44	56.916	0.066
1/29/04 3:51:00	68.44	56.916	0.066
1/29/04 3:52:00	68.44	56.917	0.065
1/29/04 3:53:00	68.44	56.917	0.065
1/29/04 3:54:00	68.44	56.917	0.065
1/29/04 3:55:00	68.44	56.918	0.064
1/29/04 3:56:00	68.44	56.918	0.064
1/29/04 3:57:00	68.44	56.918	0.064
1/29/04 3:58:00	68.44	56.918	0.064
1/29/04 3:59:00	68.44	56.918	0.064
1/29/04 4:00:00	68.44	56.918	0.064
1/29/04 4:01:00	68.44	56.917	0.065
1/29/04 4:02:00	68.44	56.917	0.065
1/29/04 4:03:00	68.44	56.917	0.065
1/29/04 4:04:00	68.44	56.917	0.065
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1/29/04 4:07:00	68.44	56.916	0.066
1/29/04 4:08:00	68.44	56.916	0.066
1/29/04 4:09:00	68.44	56.916	0.066
1/29/04 4:10:00	68.44	56.915	0.067
1/29/04 4:11:00	68.44	56.916	0.066
1/29/04 4:12:00	68.44	56.915	0.067
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1/29/04 4:14:00	68.44	56.916	0.066
1/29/04 4:15:00	68.44	56.916	0.066
1/29/04 4:16:00	68.44	56.916	0.066
1/29/04 4:17:00	68.44	56.917	0.065
1/29/04 4:18:00	68.44	56.918	0.064
1/29/04 4:19:00	68.44	56.918	0.064
1/29/04 4:20:00	68.44	56.918	0.064
1/29/04 4:21:00	68.44	56.917	0.065
1/29/04 4:22:00	68.44	56.918	0.064
1/29/04 4:23:00	68.44	56.917	0.065
1/29/04 4:24:00	68.44	56.918	0.064
1/29/04 4:25:00	68.44	56.917	0.065
1/29/04 4:26:00	68.44	56.917	0.065
1/29/04 4:27:00	68.44	56.917	0.065
1/29/04 4:28:00	68.44	56.917	0.065
1/29/04 4:29:00	68.44	56.917	0.065
1/29/04 4:30:00	68.44	56.917	0.065
1/29/04 4:31:00	68.44	56.918	0.064
1/29/04 4:32:00	68.44	56.919	0.063
1/29/04 4:33:00	68.44	56.920	0.062
1/29/04 4:34:00	68.44	56.920	0.062
1/29/04 4:35:00	68.44	56.920	0.062
1/29/04 4:36:00	68.44	56.918	0.064
1/29/04 4:37:00	68.44	56.920	0.062
1/29/04 4:38:00	68.44	56.920	0.062
1/29/04 4:39:00	68.44	56.919	0.063
1/29/04 4:40:00	68.44	56.918	0.064
1/29/04 4:41:00	68.44	56.918	0.064
1/29/04 4:42:00	68.44	56.918	0.064
1/29/04 4:43:00	68.44	56.918	0.064
1/29/04 4:44:00	68.44	56.918	0.064
1/29/04 4:45:00	68.44	56.918	0.064
1/29/04 4:46:00	68.44	56.918	0.064
1/29/04 4:47:00	68.44	56.917	0.065
1/29/04 4:48:00	68.44	56.918	0.064
1/29/04 4:49:00	68.44	56.918	0.064
1/29/04 4:50:00	68.44	56.918	0.064
1/29/04 4:51:00	68.44	56.918	0.064
1/29/04 4:52:00	68.44	56.918	0.064
1/29/04 4:53:00	68.44	56.918	0.064
1/29/04 4:54:00	68.44	56.918	0.064
1/29/04 4:55:00	68.44	56.918	0.064

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1/29/04 4:59:00	68.44	56.918	0.064
1/29/04 5:00:00	68.44	56.917	0.065
1/29/04 5:01:00	68.44	56.917	0.065
1/29/04 5:02:00	68.44	56.918	0.064
1/29/04 5:03:00	68.44	56.919	0.063
1/29/04 5:04:00	68.44	56.918	0.064
1/29/04 5:05:00	68.44	56.918	0.064
1/29/04 5:06:00	68.44	56.919	0.063
1/29/04 5:07:00	68.44	56.920	0.062
1/29/04 5:08:00	68.44	56.918	0.064
1/29/04 5:09:00	68.44	56.918	0.064
1/29/04 5:10:00	68.44	56.918	0.064
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1/29/04 5:18:00	68.44	56.918	0.064
1/29/04 5:19:00	68.44	56.918	0.064
1/29/04 5:20:00	68.44	56.918	0.064
1/29/04 5:21:00	68.44	56.918	0.064
1/29/04 5:22:00	68.44	56.918	0.064
1/29/04 5:23:00	68.44	56.918	0.064
1/29/04 5:24:00	68.44	56.918	0.064
1/29/04 5:25:00	68.44	56.919	0.063
1/29/04 5:26:00	68.44	56.919	0.063
1/29/04 5:27:00	68.44	56.919	0.063
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1/29/04 5:29:00	68.44	56.919	0.063
1/29/04 5:30:00	68.44	56.918	0.064
1/29/04 5:31:00	68.44	56.918	0.064
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1/29/04 5:33:00	68.44	56.919	0.063
1/29/04 5:34:00	68.44	56.919	0.063
1/29/04 5:35:00	68.44	56.919	0.063
1/29/04 5:36:00	68.44	56.920	0.062
1/29/04 5:37:00	68.44	56.920	0.062
1/29/04 5:38:00	68.44	56.920	0.062
1/29/04 5:39:00	68.44	56.918	0.064
1/29/04 5:40:00	68.44	56.919	0.063
1/29/04 5:41:00	68.44	56.919	0.063
1/29/04 5:42:00	68.44	56.920	0.062
1/29/04 5:43:00	68.44	56.920	0.062
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1/29/04 5:53:00	68.44	56.920	0.062
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1/29/04 5:59:00	68.44	56.921	0.061
1/29/04 6:00:00	68.44	56.922	0.060
1/29/04 6:01:00	68.44	56.922	0.060
1/29/04 6:02:00	68.44	56.922	0.060
1/29/04 6:03:00	68.44	56.922	0.060
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1/29/04 6:10:00	68.44	56.920	0.062
1/29/04 6:11:00	68.44	56.920	0.062
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1/29/04 6:16:00	68.44	56.920	0.062
1/29/04 6:17:00	68.44	56.920	0.062
1/29/04 6:18:00	68.44	56.920	0.062
1/29/04 6:19:00	68.44	56.920	0.062
1/29/04 6:20:00	68.44	56.920	0.062
1/29/04 6:21:00	68.44	56.920	0.062
1/29/04 6:22:00	68.44	56.920	0.062
1/29/04 6:23:00	68.44	56.921	0.061
1/29/04 6:24:00	68.44	56.922	0.060
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1/29/04 6:26:00	68.44	56.920	0.062
1/29/04 6:27:00	68.44	56.921	0.061
1/29/04 6:28:00	68.44	56.920	0.062
1/29/04 6:29:00	68.44	56.921	0.061
1/29/04 6:30:00	68.44	56.922	0.060
1/29/04 6:31:00	68.44	56.922	0.060
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1/29/04 6:33:00	68.44	56.920	0.062
1/29/04 6:34:00	68.44	56.922	0.060
1/29/04 6:35:00	68.44	56.922	0.060
1/29/04 6:36:00	68.44	56.922	0.060
1/29/04 6:37:00	68.44	56.922	0.060
1/29/04 6:38:00	68.44	56.921	0.061
1/29/04 6:39:00	68.44	56.919	0.063
1/29/04 6:40:00	68.44	56.919	0.063
1/29/04 6:41:00	68.44	56.919	0.063
1/29/04 6:42:00	68.44	56.919	0.063
1/29/04 6:43:00	68.44	56.921	0.061
1/29/04 6:44:00	68.44	56.920	0.062
1/29/04 6:45:00	68.44	56.920	0.062
1/29/04 6:46:00	68.44	56.920	0.062
1/29/04 6:47:00	68.44	56.920	0.062
1/29/04 6:48:00	68.44	56.920	0.062
1/29/04 6:49:00	68.44	56.920	0.062
1/29/04 6:50:00	68.44	56.920	0.062
1/29/04 6:51:00	68.44	56.920	0.062
1/29/04 6:52:00	68.43	56.920	0.062
1/29/04 6:53:00	68.44	56.919	0.063
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1/29/04 6:55:00	68.44	56.920	0.062
1/29/04 6:56:00	68.44	56.920	0.062
1/29/04 6:57:00	68.44	56.919	0.063
1/29/04 6:58:00	68.44	56.919	0.063
1/29/04 6:59:00	68.44	56.920	0.062
1/29/04 7:00:00	68.44	56.918	0.064
1/29/04 7:01:00	68.44	56.919	0.063
1/29/04 7:02:00	68.43	56.918	0.064
1/29/04 7:03:00	68.44	56.919	0.063
1/29/04 7:04:00	68.44	56.919	0.063
1/29/04 7:05:00	68.44	56.918	0.064
1/29/04 7:06:00	68.44	56.918	0.064
1/29/04 7:07:00	68.44	56.919	0.063
1/29/04 7:08:00	68.44	56.919	0.063
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1/29/04 7:24:00	68.43	56.919	0.063
1/29/04 7:25:00	68.43	56.920	0.062
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1/29/04 7:27:00	68.43	56.921	0.061
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1/29/04 8:09:00	68.43	56.923	0.059
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1/29/04 9:43:00	68.42	56.921	0.061
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1/29/04 12:10:00	68.41	56.915	0.067
1/29/04 12:11:00	68.41	56.915	0.067
1/29/04 12:12:00	68.41	56.915	0.067
1/29/04 12:13:00	68.41	56.915	0.067
1/29/04 12:14:00	68.41	56.914	0.068
1/29/04 12:15:00	68.41	56.915	0.067
1/29/04 12:16:00	68.41	56.915	0.067
1/29/04 12:17:00	68.41	56.914	0.068
1/29/04 12:18:00	68.41	56.915	0.067
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1/29/04 12:40:00	68.41	56.915	0.067
1/29/04 12:41:00	68.41	56.914	0.068
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1/29/04 12:47:00	68.41	56.914	0.068
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1/29/04 13:44:00	68.41	56.988	-0.006
1/29/04 13:45:00	68.41	56.989	-0.007
1/29/04 13:46:00	68.41	56.988	-0.006
1/29/04 13:47:00	68.41	56.987	-0.005
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1/29/04 17:38:00	68.39	56.941	0.041
1/29/04 17:39:00	68.39	56.941	0.041
1/29/04 17:40:00	68.39	56.940	0.042
1/29/04 17:41:00	68.39	56.941	0.041
1/29/04 17:42:00	68.39	56.941	0.041
1/29/04 17:43:00	68.39	56.941	0.041
1/29/04 17:44:00	68.39	56.940	0.042
1/29/04 17:45:00	68.39	56.940	0.042
1/29/04 17:46:00	68.39	56.941	0.041
1/29/04 17:47:00	68.39	56.941	0.041
1/29/04 17:48:00	68.39	56.939	0.043
1/29/04 17:49:00	68.39	56.939	0.043
1/29/04 17:50:00	68.39	56.940	0.042
1/29/04 17:51:00	68.39	56.939	0.043
1/29/04 17:52:00	68.39	56.940	0.042
1/29/04 17:53:00	68.39	56.939	0.043
1/29/04 17:54:00	68.39	56.939	0.043
1/29/04 17:55:00	68.39	56.939	0.043
1/29/04 17:56:00	68.39	56.939	0.043
1/29/04 17:57:00	68.39	56.940	0.042
1/29/04 17:58:00	68.39	56.939	0.043
1/29/04 17:59:00	68.39	56.940	0.042
1/29/04 18:00:00	68.39	56.940	0.042
1/29/04 18:01:00	68.39	56.940	0.042
1/29/04 18:02:00	68.39	56.940	0.042
1/29/04 18:03:00	68.39	56.939	0.043
1/29/04 18:04:00	68.39	56.940	0.042
1/29/04 18:05:00	68.39	56.939	0.043
1/29/04 18:06:00	68.39	56.940	0.042
1/29/04 18:07:00	68.39	56.940	0.042
1/29/04 18:08:00	68.39	56.941	0.041
1/29/04 18:09:00	68.39	56.940	0.042
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1/29/04 18:11:00	68.39	56.940	0.042
1/29/04 18:12:00	68.39	56.940	0.042
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1/29/04 18:14:00	68.39	56.939	0.043
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1/29/04 18:16:00	68.39	56.939	0.043
1/29/04 18:17:00	68.39	56.939	0.043
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1/29/04 18:22:00	68.39	56.939	0.043
1/29/04 18:23:00	68.39	56.941	0.041
1/29/04 18:24:00	68.39	56.940	0.042
1/29/04 18:25:00	68.39	56.940	0.042
1/29/04 18:26:00	68.39	56.940	0.042
1/29/04 18:27:00	68.39	56.940	0.042
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1/29/04 18:35:00	68.39	56.940	0.042
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1/29/04 18:43:00	68.39	56.938	0.044
1/29/04 18:44:00	68.39	56.939	0.043
1/29/04 18:45:00	68.39	56.939	0.043
1/29/04 18:46:00	68.39	56.939	0.043
1/29/04 18:47:00	68.39	56.939	0.043
1/29/04 18:48:00	68.39	56.939	0.043
1/29/04 18:49:00	68.39	56.939	0.043
1/29/04 18:50:00	68.39	56.938	0.044
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1/29/04 18:52:00	68.39	56.938	0.044
1/29/04 18:53:00	68.39	56.938	0.044
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1/29/04 18:55:00	68.39	56.938	0.044
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1/29/04 19:04:00	68.39	56.939	0.043
1/29/04 19:05:00	68.39	56.939	0.043
1/29/04 19:06:00	68.39	56.939	0.043
1/29/04 19:07:00	68.39	56.939	0.043
1/29/04 19:08:00	68.39	56.939	0.043
1/29/04 19:09:00	68.39	56.939	0.043
1/29/04 19:10:00	68.39	56.939	0.043
1/29/04 19:11:00	68.39	56.938	0.044
1/29/04 19:12:00	68.39	56.938	0.044
1/29/04 19:13:00	68.39	56.939	0.043
1/29/04 19:14:00	68.39	56.937	0.045
1/29/04 19:15:00	68.39	56.937	0.045
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1/29/04 19:17:00	68.39	56.937	0.045
1/29/04 19:18:00	68.39	56.937	0.045
1/29/04 19:19:00	68.39	56.937	0.045
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1/29/04 19:22:00	68.39	56.938	0.044
1/29/04 19:23:00	68.39	56.937	0.045
1/29/04 19:24:00	68.39	56.938	0.044
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1/29/04 19:26:00	68.39	56.938	0.044
1/29/04 19:27:00	68.39	56.937	0.045
1/29/04 19:28:00	68.39	56.937	0.045
1/29/04 19:29:00	68.39	56.937	0.045
1/29/04 19:30:00	68.39	56.937	0.045
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1/29/04 19:34:00	68.39	56.937	0.045
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1/29/04 19:43:00	68.39	56.937	0.045
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1/29/04 19:45:00	68.39	56.937	0.045
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1/29/04 19:48:00	68.39	56.935	0.047
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1/29/04 19:57:00	68.39	56.938	0.044
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1/29/04 20:03:00	68.39	56.939	0.043
1/29/04 20:04:00	68.39	56.939	0.043
1/29/04 20:05:00	68.39	56.938	0.044
1/29/04 20:06:00	68.39	56.939	0.043
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1/29/04 20:08:00	68.39	56.939	0.043
1/29/04 20:09:00	68.39	56.939	0.043
1/29/04 20:10:00	68.39	56.939	0.043
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1/29/04 20:12:00	68.39	56.939	0.043
1/29/04 20:13:00	68.39	56.939	0.043
1/29/04 20:14:00	68.39	56.938	0.044
1/29/04 20:15:00	68.39	56.938	0.044
1/29/04 20:16:00	68.39	56.938	0.044
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1/29/04 20:19:00	68.39	56.937	0.045
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1/29/04 20:21:00	68.39	56.936	0.046
1/29/04 20:22:00	68.39	56.937	0.045
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1/29/04 20:34:00	68.39	56.936	0.046
1/29/04 20:35:00	68.39	56.937	0.045
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1/29/04 20:39:00	68.39	56.935	0.047
1/29/04 20:40:00	68.39	56.935	0.047
1/29/04 20:41:00	68.39	56.934	0.048
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1/29/04 20:46:00	68.39	56.934	0.048
1/29/04 20:47:00	68.39	56.935	0.047
1/29/04 20:48:00	68.39	56.935	0.047
1/29/04 20:49:00	68.39	56.935	0.047
1/29/04 20:50:00	68.39	56.935	0.047
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1/29/04 20:59:00	68.39	56.936	0.046
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1/29/04 21:03:00	68.39	56.936	0.046
1/29/04 21:04:00	68.39	56.937	0.045
1/29/04 21:05:00	68.39	56.937	0.045
1/29/04 21:06:00	68.39	56.937	0.045
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1/29/04 21:08:00	68.39	56.937	0.045
1/29/04 21:09:00	68.39	56.937	0.045
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1/29/04 21:19:00	68.39	56.937	0.045
1/29/04 21:20:00	68.39	56.937	0.045
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1/29/04 21:27:00	68.39	56.937	0.045
1/29/04 21:28:00	68.39	56.937	0.045
1/29/04 21:29:00	68.39	56.937	0.045
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1/29/04 21:31:00	68.39	56.937	0.045
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1/29/04 21:39:00	68.39	56.938	0.044
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1/29/04 21:41:00	68.39	56.937	0.045
1/29/04 21:42:00	68.39	56.937	0.045
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1/29/04 21:48:00	68.39	56.937	0.045
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1/29/04 22:03:00	68.39	56.937	0.045

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1/29/04 22:08:00	68.39	56.937	0.045
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1/29/04 22:12:00	68.39	56.939	0.043
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1/29/04 22:40:00	68.39	56.936	0.046
1/29/04 22:41:00	68.39	56.936	0.046
1/29/04 22:42:00	68.39	56.937	0.045
1/29/04 22:43:00	68.39	56.937	0.045
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1/29/04 22:57:00	68.39	56.936	0.046
1/29/04 22:58:00	68.39	56.936	0.046
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1/29/04 23:01:00	68.39	56.936	0.046
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1/29/04 23:05:00	68.39	56.936	0.046
1/29/04 23:06:00	68.39	56.935	0.047
1/29/04 23:07:00	68.39	56.936	0.046
1/29/04 23:08:00	68.39	56.936	0.046
1/29/04 23:09:00	68.39	56.937	0.045
1/29/04 23:10:00	68.39	56.936	0.046
1/29/04 23:11:00	68.39	56.937	0.045
1/29/04 23:12:00	68.39	56.936	0.046
1/29/04 23:13:00	68.39	56.936	0.046
1/29/04 23:14:00	68.39	56.936	0.046
1/29/04 23:15:00	68.39	56.936	0.046
1/29/04 23:16:00	68.39	56.936	0.046
1/29/04 23:17:00	68.39	56.937	0.045
1/29/04 23:18:00	68.39	56.937	0.045
1/29/04 23:19:00	68.39	56.936	0.046
1/29/04 23:20:00	68.39	56.936	0.046
1/29/04 23:21:00	68.39	56.935	0.047
1/29/04 23:22:00	68.39	56.937	0.045
1/29/04 23:23:00	68.39	56.936	0.046
1/29/04 23:24:00	68.39	56.936	0.046
1/29/04 23:25:00	68.39	56.936	0.046
1/29/04 23:26:00	68.39	56.936	0.046
1/29/04 23:27:00	68.39	56.936	0.046
1/29/04 23:28:00	68.39	56.935	0.047
1/29/04 23:29:00	68.39	56.935	0.047
1/29/04 23:30:00	68.39	56.935	0.047
1/29/04 23:31:00	68.39	56.934	0.048
1/29/04 23:32:00	68.39	56.934	0.048
1/29/04 23:33:00	68.39	56.935	0.047
1/29/04 23:34:00	68.39	56.935	0.047
1/29/04 23:35:00	68.39	56.934	0.048
1/29/04 23:36:00	68.39	56.935	0.047
1/29/04 23:37:00	68.39	56.934	0.048
1/29/04 23:38:00	68.39	56.935	0.047
1/29/04 23:39:00	68.39	56.934	0.048
1/29/04 23:40:00	68.39	56.935	0.047
1/29/04 23:41:00	68.39	56.935	0.047
1/29/04 23:42:00	68.39	56.935	0.047
1/29/04 23:43:00	68.39	56.934	0.048
1/29/04 23:44:00	68.39	56.934	0.048
1/29/04 23:45:00	68.39	56.935	0.047
1/29/04 23:46:00	68.39	56.935	0.047
1/29/04 23:47:00	68.39	56.935	0.047
1/29/04 23:48:00	68.39	56.935	0.047
1/29/04 23:49:00	68.39	56.935	0.047
1/29/04 23:50:00	68.39	56.935	0.047
1/29/04 23:51:00	68.39	56.934	0.048
1/29/04 23:52:00	68.39	56.935	0.047
1/29/04 23:53:00	68.39	56.934	0.048
1/29/04 23:54:00	68.39	56.935	0.047
1/29/04 23:55:00	68.39	56.934	0.048
1/29/04 23:56:00	68.39	56.935	0.047
1/29/04 23:57:00	68.39	56.935	0.047
1/29/04 23:58:00	68.39	56.936	0.046
1/29/04 23:59:00	68.39	56.935	0.047
1/30/04 0:00:00	68.39	56.935	0.047
1/30/04 0:01:00	68.39	56.935	0.047
1/30/04 0:02:00	68.39	56.934	0.048
1/30/04 0:03:00	68.39	56.935	0.047
1/30/04 0:04:00	68.39	56.935	0.047
1/30/04 0:05:00	68.39	56.934	0.048
1/30/04 0:06:00	68.39	56.934	0.048
1/30/04 0:07:00	68.39	56.933	0.049
1/30/04 0:08:00	68.39	56.934	0.048
1/30/04 0:09:00	68.39	56.934	0.048
1/30/04 0:10:00	68.39	56.934	0.048
1/30/04 0:11:00	68.39	56.933	0.049
1/30/04 0:12:00	68.39	56.934	0.048
1/30/04 0:13:00	68.39	56.933	0.049
1/30/04 0:14:00	68.39	56.934	0.048
1/30/04 0:15:00	68.39	56.934	0.048
1/30/04 0:16:00	68.39	56.933	0.049
1/30/04 0:17:00	68.39	56.933	0.049
1/30/04 0:18:00	68.39	56.933	0.049
1/30/04 0:19:00	68.39	56.933	0.049
1/30/04 0:20:00	68.39	56.933	0.049
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1/30/04 0:23:00	68.39	56.933	0.049
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1/30/04 0:27:00	68.39	56.933	0.049
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1/30/04 0:34:00	68.39	56.933	0.049
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1/30/04 0:36:00	68.39	56.934	0.048
1/30/04 0:37:00	68.39	56.933	0.049
1/30/04 0:38:00	68.39	56.933	0.049
1/30/04 0:39:00	68.39	56.932	0.050
1/30/04 0:40:00	68.39	56.933	0.049
1/30/04 0:41:00	68.39	56.933	0.049
1/30/04 0:42:00	68.39	56.933	0.049
1/30/04 0:43:00	68.39	56.934	0.048
1/30/04 0:44:00	68.39	56.934	0.048
1/30/04 0:45:00	68.39	56.934	0.048
1/30/04 0:46:00	68.39	56.934	0.048
1/30/04 0:47:00	68.39	56.935	0.047
1/30/04 0:48:00	68.39	56.934	0.048
1/30/04 0:49:00	68.39	56.934	0.048
1/30/04 0:50:00	68.39	56.935	0.047
1/30/04 0:51:00	68.39	56.935	0.047
1/30/04 0:52:00	68.39	56.934	0.048
1/30/04 0:53:00	68.39	56.935	0.047
1/30/04 0:54:00	68.39	56.934	0.048
1/30/04 0:55:00	68.39	56.933	0.049
1/30/04 0:56:00	68.39	56.934	0.048
1/30/04 0:57:00	68.39	56.934	0.048
1/30/04 0:58:00	68.39	56.935	0.047
1/30/04 0:59:00	68.39	56.935	0.047
1/30/04 1:00:00	68.39	56.935	0.047
1/30/04 1:01:00	68.39	56.935	0.047
1/30/04 1:02:00	68.39	56.934	0.048
1/30/04 1:03:00	68.39	56.935	0.047
1/30/04 1:04:00	68.39	56.934	0.048
1/30/04 1:05:00	68.39	56.935	0.047
1/30/04 1:06:00	68.39	56.935	0.047
1/30/04 1:07:00	68.39	56.934	0.048
1/30/04 1:08:00	68.39	56.934	0.048
1/30/04 1:09:00	68.39	56.934	0.048
1/30/04 1:10:00	68.39	56.935	0.047
1/30/04 1:11:00	68.39	56.935	0.047
1/30/04 1:12:00	68.39	56.935	0.047
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1/30/04 1:14:00	68.39	56.935	0.047
1/30/04 1:15:00	68.39	56.935	0.047
1/30/04 1:16:00	68.39	56.935	0.047
1/30/04 1:17:00	68.39	56.935	0.047
1/30/04 1:18:00	68.39	56.935	0.047
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1/30/04 1:38:00	68.39	56.934	0.048
1/30/04 1:39:00	68.39	56.933	0.049
1/30/04 1:40:00	68.39	56.933	0.049
1/30/04 1:41:00	68.39	56.932	0.050
1/30/04 1:42:00	68.39	56.933	0.049
1/30/04 1:43:00	68.39	56.933	0.049
1/30/04 1:44:00	68.39	56.934	0.048
1/30/04 1:45:00	68.39	56.933	0.049
1/30/04 1:46:00	68.39	56.933	0.049
1/30/04 1:47:00	68.39	56.933	0.049
1/30/04 1:48:00	68.39	56.933	0.049
1/30/04 1:49:00	68.39	56.933	0.049
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1/30/04 2:02:00	68.39	56.933	0.049
1/30/04 2:03:00	68.39	56.935	0.047
1/30/04 2:04:00	68.39	56.935	0.047
1/30/04 2:05:00	68.39	56.933	0.049
1/30/04 2:06:00	68.39	56.933	0.049
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1/30/04 2:09:00	68.39	56.933	0.049
1/30/04 2:10:00	68.39	56.933	0.049
1/30/04 2:11:00	68.39	56.933	0.049
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1/30/04 2:14:00	68.39	56.932	0.050
1/30/04 2:15:00	68.39	56.933	0.049
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1/30/04 2:18:00	68.39	56.932	0.050
1/30/04 2:19:00	68.39	56.933	0.049
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1/30/04 2:27:00	68.39	56.933	0.049
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1/30/04 3:05:00	68.39	56.933	0.049
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1/30/04 3:17:00	68.39	56.933	0.049
1/30/04 3:18:00	68.39	56.933	0.049
1/30/04 3:19:00	68.39	56.933	0.049
1/30/04 3:20:00	68.39	56.933	0.049
1/30/04 3:21:00	68.39	56.932	0.050
1/30/04 3:22:00	68.39	56.932	0.050
1/30/04 3:23:00	68.39	56.933	0.049
1/30/04 3:24:00	68.39	56.932	0.050
1/30/04 3:25:00	68.39	56.932	0.050
1/30/04 3:26:00	68.39	56.933	0.049
1/30/04 3:27:00	68.39	56.933	0.049
1/30/04 3:28:00	68.39	56.933	0.049
1/30/04 3:29:00	68.39	56.932	0.050
1/30/04 3:30:00	68.39	56.932	0.050
1/30/04 3:31:00	68.39	56.932	0.050
1/30/04 3:32:00	68.39	56.933	0.049
1/30/04 3:33:00	68.39	56.932	0.050
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1/30/04 3:37:00	68.39	56.932	0.050
1/30/04 3:38:00	68.39	56.933	0.049
1/30/04 3:39:00	68.39	56.933	0.049
1/30/04 3:40:00	68.39	56.933	0.049
1/30/04 3:41:00	68.39	56.933	0.049
1/30/04 3:42:00	68.39	56.933	0.049
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1/30/04 3:59:00	68.39	56.933	0.049
1/30/04 4:00:00	68.39	56.932	0.050
1/30/04 4:01:00	68.39	56.933	0.049
1/30/04 4:02:00	68.39	56.932	0.050
1/30/04 4:03:00	68.39	56.931	0.051
1/30/04 4:04:00	68.39	56.932	0.050
1/30/04 4:05:00	68.39	56.932	0.050
1/30/04 4:06:00	68.39	56.932	0.050
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1/30/04 4:23:00	68.39	56.932	0.050
1/30/04 4:24:00	68.39	56.932	0.050
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1/30/04 4:26:00	68.39	56.933	0.049
1/30/04 4:27:00	68.39	56.932	0.050
1/30/04 4:28:00	68.39	56.933	0.049
1/30/04 4:29:00	68.39	56.933	0.049
1/30/04 4:30:00	68.39	56.933	0.049
1/30/04 4:31:00	68.39	56.932	0.050
1/30/04 4:32:00	68.39	56.933	0.049
1/30/04 4:33:00	68.39	56.933	0.049
1/30/04 4:34:00	68.39	56.933	0.049
1/30/04 4:35:00	68.39	56.934	0.048
1/30/04 4:36:00	68.39	56.933	0.049
1/30/04 4:37:00	68.39	56.933	0.049
1/30/04 4:38:00	68.39	56.932	0.050
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1/30/04 4:40:00	68.39	56.933	0.049
1/30/04 4:41:00	68.39	56.933	0.049
1/30/04 4:42:00	68.38	56.932	0.050
1/30/04 4:43:00	68.39	56.931	0.051
1/30/04 4:44:00	68.39	56.931	0.051
1/30/04 4:45:00	68.39	56.932	0.050
1/30/04 4:46:00	68.39	56.932	0.050
1/30/04 4:47:00	68.38	56.933	0.049
1/30/04 4:48:00	68.39	56.932	0.050
1/30/04 4:49:00	68.39	56.932	0.050
1/30/04 4:50:00	68.39	56.932	0.050
1/30/04 4:51:00	68.39	56.932	0.050
1/30/04 4:52:00	68.39	56.932	0.050
1/30/04 4:53:00	68.39	56.931	0.051
1/30/04 4:54:00	68.39	56.932	0.050
1/30/04 4:55:00	68.39	56.931	0.051
1/30/04 4:56:00	68.39	56.933	0.049
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1/30/04 5:00:00	68.38	56.932	0.050
1/30/04 5:01:00	68.39	56.931	0.051
1/30/04 5:02:00	68.38	56.930	0.052
1/30/04 5:03:00	68.39	56.930	0.052
1/30/04 5:04:00	68.39	56.931	0.051
1/30/04 5:05:00	68.39	56.931	0.051
1/30/04 5:06:00	68.39	56.931	0.051
1/30/04 5:07:00	68.38	56.932	0.050
1/30/04 5:08:00	68.39	56.933	0.049
1/30/04 5:09:00	68.39	56.932	0.050
1/30/04 5:10:00	68.38	56.933	0.049
1/30/04 5:11:00	68.39	56.932	0.050
1/30/04 5:12:00	68.39	56.931	0.051
1/30/04 5:13:00	68.39	56.933	0.049
1/30/04 5:14:00	68.38	56.933	0.049
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1/30/04 5:17:00	68.39	56.932	0.050
1/30/04 5:18:00	68.39	56.931	0.051
1/30/04 5:19:00	68.39	56.931	0.051
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1/30/04 5:23:00	68.39	56.931	0.051
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1/30/04 5:27:00	68.39	56.931	0.051
1/30/04 5:28:00	68.38	56.933	0.049
1/30/04 5:29:00	68.39	56.931	0.051
1/30/04 5:30:00	68.39	56.932	0.050
1/30/04 5:31:00	68.39	56.933	0.049
1/30/04 5:32:00	68.39	56.932	0.050
1/30/04 5:33:00	68.38	56.932	0.050
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1/30/04 5:36:00	68.39	56.931	0.051
1/30/04 5:37:00	68.39	56.931	0.051
1/30/04 5:38:00	68.39	56.931	0.051
1/30/04 5:39:00	68.39	56.931	0.051
1/30/04 5:40:00	68.39	56.931	0.051
1/30/04 5:41:00	68.39	56.932	0.050
1/30/04 5:42:00	68.38	56.932	0.050
1/30/04 5:43:00	68.39	56.932	0.050
1/30/04 5:44:00	68.39	56.931	0.051
1/30/04 5:45:00	68.39	56.933	0.049
1/30/04 5:46:00	68.39	56.932	0.050
1/30/04 5:47:00	68.38	56.932	0.050
1/30/04 5:48:00	68.39	56.932	0.050
1/30/04 5:49:00	68.38	56.932	0.050
1/30/04 5:50:00	68.38	56.931	0.051
1/30/04 5:51:00	68.39	56.931	0.051
1/30/04 5:52:00	68.39	56.932	0.050
1/30/04 5:53:00	68.39	56.932	0.050
1/30/04 5:54:00	68.38	56.931	0.051
1/30/04 5:55:00	68.38	56.932	0.050
1/30/04 5:56:00	68.39	56.932	0.050
1/30/04 5:57:00	68.39	56.931	0.051
1/30/04 5:58:00	68.39	56.931	0.051
1/30/04 5:59:00	68.39	56.931	0.051
1/30/04 6:00:00	68.39	56.931	0.051
1/30/04 6:01:00	68.38	56.931	0.051
1/30/04 6:02:00	68.39	56.931	0.051
1/30/04 6:03:00	68.39	56.933	0.049
1/30/04 6:04:00	68.39	56.932	0.050
1/30/04 6:05:00	68.39	56.933	0.049
1/30/04 6:06:00	68.39	56.933	0.049
1/30/04 6:07:00	68.39	56.933	0.049
1/30/04 6:08:00	68.39	56.932	0.050
1/30/04 6:09:00	68.39	56.931	0.051
1/30/04 6:10:00	68.39	56.932	0.050
1/30/04 6:11:00	68.39	56.931	0.051
1/30/04 6:12:00	68.39	56.931	0.051
1/30/04 6:13:00	68.39	56.931	0.051
1/30/04 6:14:00	68.39	56.931	0.051
1/30/04 6:15:00	68.39	56.931	0.051
1/30/04 6:16:00	68.39	56.932	0.050
1/30/04 6:17:00	68.38	56.931	0.051
1/30/04 6:18:00	68.38	56.931	0.051
1/30/04 6:19:00	68.39	56.931	0.051
1/30/04 6:20:00	68.38	56.931	0.051
1/30/04 6:21:00	68.39	56.929	0.053
1/30/04 6:22:00	68.39	56.931	0.051
1/30/04 6:23:00	68.39	56.929	0.053
1/30/04 6:24:00	68.38	56.931	0.051
1/30/04 6:25:00	68.39	56.931	0.051
1/30/04 6:26:00	68.39	56.931	0.051
1/30/04 6:27:00	68.37	56.931	0.051
1/30/04 6:28:00	68.38	56.932	0.050
1/30/04 6:29:00	68.39	56.932	0.050
1/30/04 6:30:00	68.39	56.931	0.051
1/30/04 6:31:00	68.39	56.932	0.050
1/30/04 6:32:00	68.39	56.932	0.050
1/30/04 6:33:00	68.39	56.931	0.051
1/30/04 6:34:00	68.38	56.933	0.049
1/30/04 6:35:00	68.39	56.933	0.049
1/30/04 6:36:00	68.38	56.933	0.049
1/30/04 6:37:00	68.39	56.933	0.049

1/30/04 6:38:00	68.39	56.933	0.049	
1/30/04 6:39:00	68.39	56.932	0.050	
1/30/04 6:40:00	68.39	56.931	0.051	
1/30/04 6:41:00	68.39	56.932	0.050	
1/30/04 6:42:00	68.37	56.933	0.049	
1/30/04 6:43:00	68.38	56.933	0.049	
1/30/04 6:44:00	68.38	56.933	0.049	
1/30/04 6:45:00	68.39	56.933	0.049	
1/30/04 6:46:00	68.39	56.933	0.049	
1/30/04 6:47:00	68.39	56.933	0.049	
1/30/04 6:48:00	68.39	56.934	0.048	
1/30/04 6:49:00	68.38	56.933	0.049	
1/30/04 6:50:00	68.38	56.933	0.049	
1/30/04 6:51:00	68.39	56.933	0.049	
1/30/04 6:52:00	68.39	56.933	0.049	
1/30/04 6:53:00	68.39	56.933	0.049	
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1/30/04 7:00:00	68.38	56.933	0.049	
1/30/04 7:01:00	68.39	56.932	0.050	
1/30/04 7:02:00	68.39	56.933	0.049	
1/30/04 7:03:00	68.39	56.932	0.050	
1/30/04 7:04:00	68.38	56.932	0.050	
1/30/04 7:05:00	68.39	56.933	0.049	
1/30/04 7:06:00	68.39	56.933	0.049	
1/30/04 7:07:00	68.38	56.933	0.049	
1/30/04 7:08:00	68.39	56.934	0.048	
1/30/04 7:09:00	68.39	56.933	0.049	
1/30/04 7:10:00	68.38	56.933	0.049	
1/30/04 7:11:00	68.38	56.933	0.049	
1/30/04 7:12:00	68.37	56.933	0.049	
1/30/04 7:13:00	68.37	56.932	0.050	
1/30/04 7:14:00	68.39	56.932	0.050	
1/30/04 7:15:00	68.39	56.933	0.049	
1/30/04 7:16:00	68.38	56.933	0.049	
1/30/04 7:17:00	68.38	56.933	0.049	
1/30/04 7:18:00	68.38	56.932	0.050	
1/30/04 7:19:00	68.38	56.933	0.049	
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1/30/04 7:23:00	68.38	56.933	0.049	
1/30/04 7:24:00	68.38	56.932	0.050	
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1/30/04 7:29:00	68.38	56.933	0.049	
1/30/04 7:30:00	68.39	56.932	0.050	
1/30/04 7:31:00	68.39	56.933	0.049	
1/30/04 7:32:00	68.38	56.932	0.050	
1/30/04 7:33:00	68.39	56.932	0.050	
1/30/04 7:34:00	68.39	56.932	0.050	
1/30/04 7:35:00	68.39	56.931	0.051	
1/30/04 7:36:00	68.39	56.931	0.051	
1/30/04 7:37:00	68.39	56.931	0.051	
1/30/04 7:38:00	68.39	56.931	0.051	
1/30/04 7:39:00	68.39	56.932	0.050	
1/30/04 7:40:00	68.39	56.931	0.051	
1/30/04 7:41:00	68.39	56.932	0.050	
1/30/04 7:42:00	68.39	56.932	0.050	
1/30/04 7:43:00	68.38	56.933	0.049	
1/30/04 7:44:00	68.38	56.933	0.049	
1/30/04 7:45:00	68.39	56.931	0.051	
1/30/04 7:46:00	68.39	56.932	0.050	
1/30/04 7:47:00	68.39	56.932	0.050	
1/30/04 7:48:00	68.39	56.933	0.049	
1/30/04 7:49:00	68.39	56.932	0.050	
1/30/04 7:50:00	68.39	56.931	0.051	
1/30/04 7:51:00	68.38	56.931	0.051	
1/30/04 7:52:00	68.38	56.931	0.051	
1/30/04 7:53:00	68.38	56.932	0.050	
1/30/04 7:54:00	68.38	56.930	0.052	
1/30/04 7:55:00	68.38	56.930	0.052	
1/30/04 7:56:00	68.38	56.931	0.051	
1/30/04 7:57:00	68.38	56.931	0.051	
1/30/04 7:58:00	68.39	56.931	0.051	
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1/30/04 8:00:00	68.39	56.931	0.051	
1/30/04 8:01:00	68.38	56.931	0.051	
1/30/04 8:02:00	68.38	56.931	0.051	
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1/30/04 8:04:00	68.39	56.930	0.052	
1/30/04 8:05:00	68.38	56.930	0.052	
1/30/04 8:06:00	68.39	56.931	0.051	
1/30/04 8:07:00	68.39	56.931	0.051	
1/30/04 8:08:00	68.38	56.931	0.051	
1/30/04 8:09:00	68.37	56.930	0.052	
1/30/04 8:10:00	68.38	56.931	0.051	
1/30/04 8:11:00	68.38	56.931	0.051	
1/30/04 8:12:00	68.37	56.931	0.051	
1/30/04 8:13:00	68.38	56.931	0.051	
1/30/04 8:14:00	68.38	56.931	0.051	
1/30/04 8:15:00	68.37	56.931	0.051	
1/30/04 8:16:00	68.37	56.931	0.051	
1/30/04 8:17:00	68.38	56.930	0.052	
1/30/04 8:18:00	68.38	56.929	0.053	
1/30/04 8:19:00	68.38	56.931	0.051	
1/30/04 8:20:00	68.39	56.931	0.051	
1/30/04 8:21:00	68.37	56.931	0.051	
1/30/04 8:22:00	68.38	56.931	0.051	
1/30/04 8:23:00	68.39	56.931	0.051	
1/30/04 8:24:00	68.38	56.931	0.051	
1/30/04 8:25:00	68.38	56.930	0.052	
1/30/04 8:26:00	68.38	56.931	0.051	
1/30/04 8:27:00	68.38	56.930	0.052	
1/30/04 8:28:00	68.38	56.931	0.051	
1/30/04 8:29:00	68.39	56.931	0.051	
1/30/04 8:30:00	68.38	56.931	0.051	
1/30/04 8:31:00	68.38	56.697	0.285	PUMP ON
1/30/04 8:32:00	68.38	56.724	0.258	
1/30/04 8:33:00	68.38	56.746	0.236	
1/30/04 8:34:00	68.39	56.770	0.212	
1/30/04 8:35:00	68.38	56.778	0.204	
1/30/04 8:36:00	68.37	56.772	0.210	
1/30/04 8:37:00	68.37	56.772	0.210	
1/30/04 8:38:00	68.37	56.790	0.192	
1/30/04 8:39:00	68.37	56.797	0.185	
1/30/04 8:40:00	68.37	56.800	0.182	
1/30/04 8:41:00	68.37	56.814	0.168	
1/30/04 8:42:00	68.37	56.812	0.170	
1/30/04 8:43:00	68.37	56.817	0.165	
1/30/04 8:44:00	68.37	56.821	0.161	
1/30/04 8:45:00	68.37	56.842	0.140	END PUMPING
1/30/04 8:46:00	68.37	56.961	0.021	
1/30/04 8:47:00	68.37	56.964	0.018	
1/30/04 8:48:00	68.37	56.964	0.018	
1/30/04 8:49:00	68.37	56.964	0.018	
1/30/04 8:50:00	68.37	56.964	0.018	
1/30/04 8:51:00	68.37	56.655	0.327	PUMP ON
1/30/04 8:52:00	68.37	56.945	0.037	END PUMPING
1/30/04 8:53:00	68.37	56.960	0.022	
1/30/04 8:54:00	68.37	56.963	0.019	
1/30/04 8:55:00	68.37	56.905	0.077	
1/30/04 8:56:00	68.37	56.758	0.224	PUMP ON
1/30/04 8:57:00	68.37	56.964	0.018	END PUMPING
1/30/04 8:58:00	68.37	56.971	0.011	
1/30/04 8:59:00	68.37	56.840	0.142	
1/30/04 9:00:00	68.37	56.971	0.011	
1/30/04 9:01:00	68.37	56.973	0.009	
1/30/04 9:02:00	68.37	56.908	0.074	
1/30/04 9:03:00	68.37	56.533	0.449	PUMP ON
1/30/04 9:04:00	68.37	56.557	0.425	
1/30/04 9:05:00	68.37	56.558	0.424	
1/30/04 9:06:00	68.37	56.928	0.054	
1/30/04 9:07:00	68.37	56.970	0.012	
1/30/04 9:08:00	68.37	56.977	0.005	
1/30/04 9:09:00	68.37	56.863	0.119	
1/30/04 9:10:00	68.37	56.969	0.013	
1/30/04 9:11:00	68.37	56.807	0.175	
1/30/04 9:12:00	68.37	55.976	1.006	END PUMPING
1/30/04 9:13:00	68.37	56.024	0.958	
1/30/04 9:14:00	68.37	56.010	0.972	
1/30/04 9:15:00	68.37	56.051	0.931	
1/30/04 9:16:00	68.37	56.055	0.927	
1/30/04 9:17:00	68.37	56.055	0.927	
1/30/04 9:18:00	68.37	56.896	0.086	
1/30/04 9:19:00	68.36	56.933	0.049	
1/30/04 9:20:00	68.35	56.847	0.135	
1/30/04 9:21:00	68.35	56.951	0.031	
1/30/04 9:22:00	68.35	56.959	0.023	
1/30/04 9:23:00	68.35	56.963	0.019	
1/30/04 9:24:00	68.35	56.967	0.015	
1/30/04 9:25:00	68.35	56.969	0.013	
1/30/04 9:26:00	68.35	56.968	0.014	
1/30/04 9:27:00	68.35	56.969	0.013	
1/30/04 9:28:00	68.35	56.971	0.011	
1/30/04 9:29:00	68.35	56.970	0.012	
1/30/04 9:30:00	68.35	56.970	0.012	
1/30/04 9:31:00	68.35	56.970	0.012	
1/30/04 9:32:00	68.35	56.969	0.013	
1/30/04 9:33:00	68.35	56.969	0.013	
1/30/04 9:34:00	68.35	56.170	0.812	PUMP ON
1/30/04 9:35:00	68.35	56.251	0.731	
1/30/04 9:36:00	68.35	56.940	0.042	
1/30/04 9:37:00	68.35	56.957	0.025	
1/30/04 9:38:00	68.35	56.950	0.032	
1/30/04 9:39:00	68.35	55.937	1.045	
1/30/04 9:40:00	68.35	55.848	1.134	
1/30/04 9:41:00	68.35	55.865	1.117	
1/30/04 9:42:00	68.35	55.900	1.082	
1/30/04 9:43:00	68.35	55.906	1.076	
1/30/04 9:44:00	68.35	55.904	1.078	
1/30/04 9:45:00	68.35	55.909	1.073	
1/30/04 9:46:00	68.35	55.907	1.075	
1/30/04 9:47:00	68.35	55.906	1.076	
1/30/04 9:48:00	68.33	55.908	1.074	
1/30/04 9:49:00	68.32	55.907	1.075	
1/30/04 9:50:00	68.32	55.907	1.075	
1/30/04 9:51:00	68.32	55.906	1.076	
1/30/04 9:52:00	68.32	55.907	1.075	
1/30/04 9:53:00	68.32	55.907	1.075	
1/30/04 9:54:00	68.30	55.905	1.077	
1/30/04 9:55:00	68.30	55.906	1.076	
1/30/04 9:56:00	68.30	55.909	1.073	
1/30/04 9:57:00	68.30	55.911	1.071	
1/30/04 9:58:00	68.30	55.909	1.073	
1/30/04 9:59:00	68.30	55.908	1.074	
1/30/04 10:00:00	68.30	55.910	1.072	PUMP OFF
1/30/04 10:01:00	68.30	56.884	0.098	
1/30/04 10:02:00	68.29	56.919	0.063	
1/30/04 10:03:00	68.28	56.935	0.047	
1/30/04 10:04:00	68.28	56.944	0.038	
1/30/04 10:05:00	68.28	56.951	0.031	
1/30/04 10:06:00	68.28	56.955	0.027	
1/30/04 10:07:00	68.28	56.959	0.023	
1/30/04 10:08:00	68.28	56.962	0.020	
1/30/04 10:09:00	68.28	56.965	0.017	
1/30/04 10:10:00	68.28	56.967	0.015	
1/30/04 10:11:00	68.28	56.969	0.013	
1/30/04 10:12:00	68.28	56.970	0.012	
1/30/04 10:13:00	68.28	56.836	0.146	
1/30/04 10:14:00	68.28	56.955	0.027	
1/30/04 10:15:00	68.28	56.967	0.015	
1/30/04 10:16:00	68.30	56.970	0.012	
1/30/04 10:17:00	68.30	56.971	0.011	
1/30/04 10:18:00	68.30	56.971	0.011	
1/30/04 10:19:00	68.30	56.724	0.258	PUMP ON
1/30/04 10:20:00	68.30	56.504	0.478	
1/30/04 10:21:00	68.30	56.703	0.279	PUMP OFF
1/30/04 10:22:00	68.30	56.956	0.026	
1/30/04 10:23:00	68.30	56.947	0.035	
1/30/04 10:24:00	68.30	56.963	0.019	
1/30/04 10:25:00	68.30	56.537	0.445	PUMP ON
1/30/04 10:26:00	68.30	56.955	0.027	PUMP OFF
1/30/04 10:27:00	68.30	56.964	0.018	
1/30/04 10:28:00	68.32	56.967	0.015	
1/30/04 10:29:00	68.32	56.967	0.015	
1/30/04 10:30:00	68.30	56.971	0.011	
1/30/04 10:31:00	68.32	56.930	0.052	PUMP ON
1/30/04 10:32:00	68.32	56.870	0.112	
1/30/04 10:33:00	68.32	56.169	0.813	
1/30/04 10:34:00	68.32	56.237	0.745	
1/30/04 10:35:00	68.32	56.268	0.714	
1/30/04 10:36:00	68.32	56.296	0.686	
1/30/04 10:37:00	68.32	56.320	0.662	
1/30/04 10:38:00	68.32	56.572	0.410	
1/30/04 10:39:00	68.32	56.940	0.042	
1/30/04 10:40:00	68.32	56.921	0.061	
1/30/04 10:41:00	68.32	56.956	0.026	
1/30/04 10:42:00	68.32	56.950	0.032	
1/30/04 10:43:00	68.31	56.962	0.020	
1/30/04 10:44:00	68.31	56.963	0.019	
1/30/04 10:45:00	68.31	56.966	0.016	
1/30/04 10:46:00	68.31	56.356	0.626	
1/30/04 10:47:00	68.32	56.945	0.037	
1/30/04 10:48:00	68.32	56.963	0.019	
1/30/04 10:49:00	68.30	56.968	0.014	
1/30/04 10:50:00	68.30	56.971	0.011	
1/30/04 10:51:00	68.32	56.972	0.010	
1/30/04 10:52:00	68.31	56.970	0.012	
1/30/04 10:53:00	68.31	56.972	0.010	
1/30/04 10:54:00	68.31	56.972	0.010	
1/30/04 10:55:00	68.32	56.972	0.010	
1/30/04 10:56:00	68.32	56.971	0.011	
1/30/04 10:57:00	68.31	56.971	0.011	
1/30/04 10:58:00	68.31	56.970	0.012	
1/30/04 10:59:00	68.32	56.970	0.012	
1/30/04 11:00:00	68.32	56.969	0.013	
1/30/04 11:01:00	68.32	56.665	0.317	
1/30/04 11:02:00	68.32	56.962	0.020	
1/30/04 11:03:00	68.32	56.967	0.015	
1/30/04 11:04:00	68.32	56.969	0.013	
1/30/04 11:05:00	68.32	56.969	0.013	
1/30/04 11:06:00	68.32	56.969	0.013	
1/30/04 11:07:00	68.32	56.970	0.012	
1/30/04 11:08:00	68.32	56.970	0.012	
1/30/04 11:09:00	68.32	56.969	0.013	
1/30/04 11:10:00	68.32	56.968	0.014	
1/30/04 11:11:00	68.32	56.970	0.012	
1/30/04 11:12:00	68.32	56.968	0.014	
1/30/04 11:13:00	68.32	56.968	0.014	
1/30/04 11:14:00	68.32	56.967	0.015	
1/30/04 11:15:00	68.32	56.966	0.016	
1/30/04 11:16:00	68.32	56.964	0.018	
1/30/04 11:17:00	68.32	56.965	0.017	
1/30/04 11:18:00	68.32	56.963	0.019	
1/30/04 11:19:00	68.32	56.964	0.018	
1/30/04 11:20:00	68.32	56.962	0.020	
1/30/04 11:21:00	68.32	56.962	0.020	
1/30/04 11:22:00	68.32	56.962	0.020	
1/30/04 11:23:00	68.32	56.960	0.022	
1/30/04 11:24:00	68.32	56.960	0.022	
1/30/04 11:25:00	68.32	56.960	0.022	
1/30/04 11:26:00	68.32	56.597	0.385	PUMP ON
1/30/04 11:27:00	68.32	55.868	1.114	
1/30/04 11:28:00	68.33	55.849	1.133	
1/30/04 11:29:00	68.32	55.861	1.121	
1/30/04 11:30:00	68.33	55.876	1.106	
1/30/04 11:31:00	68.32	55.877	1.105	
1/30/04 11:32:00	68.32	55.872	1.110	
1/30/04 11:33:00	68.32	55.872	1.110	
1/30/04 11:34:00	68.32	55.868	1.114	
1/30/04 11:35:00	68.32	55.869	1.113	
1/30/04 11:36:00	68.32	55.871	1.111	
1/30/04 11:37:00	68.32	55.868	1.114	
1/30/04 11:38:00	68.31	55.867	1.115	
1/30/04 11:39:00	68.30	55.862	1.120	
1/30/04 11:40:00	68.30	55.863	1.119	
1/30/04 11:41:00	68.30	55.862	1.120	
1/30/04 11:42:00	68.30	55.863	1.119	
1/30/04 11:43:00	68.30	55.864	1.118	
1/30/04 11:44:00	68.28	55.866	1.116	
1/30/04 11:45:00	68.28	55.866	1.116	
1/30/04 11:46:00	68.28	55.868	1.114	
1/30/04 11:47:00	68.28	55.869	1.113	
1/30/04 11:48:00	68.28	55.868	1.114	
1/30/04 11:49:00	68.28	55.868	1.114	
1/30/04 11:50:00	68.28	55.868	1.114	
1/30/04 11:51:00	68.27	55.869	1.113	
1/30/04 11:52:00	68.26	55.869	1.113	
1/30/04 11:53:00	68.26	55.867	1.115	
1/30/04 11:54:00	68.26	55.868	1.114	
1/30/04 11:55:00	68.26	55.867	1.115	
1/30/04 11:56:00	68.26	55.867	1.115	PUMP OFF
1/30/04 11:57:00	68.26	56.874	0.108	
1/30/04 11:58:00	68.26	56.910	0.072	
1/30/04 11:59:00	68.26	56.926	0.056	
1/30/04 12:00:00	68.26	56.937	0.045	
1/30/04 12:01:00	68.26	56.942	0.040	
1/30/04 12:02:00	68.26	56.947	0.035	
1/30/04 12:03:00	68.26	56.951	0.031	
1/30/04 12:04:00	68.26	56.457	0.525	PUMP ON
1/30/04 12:05:00	68.26	56.458	0.524	
1/30/04 12:06:00	68.26	56.469	0.513	
1/30/04 12:07:00	68.26	56.472	0.510	
1/30/04 12:08:00	68.26	56.473	0.509	
1/30/04 12:09:00	68.26	56.320	0.662	
1/30/04 12:10:00	68.26	56.357	0.625	
1/30/04 12:11:00	68.26	56.374	0.608	
1/30/04 12:12:00	68.27	56.374	0.608	
1/30/04 12:13:00	68.28	56.375	0.607	
1/30/04 12:14:00	68.27	56.374	0.608	
1/30/04 12:15:00	68.28	56.377	0.605	
1/30/04 12:16:00	68.28	56.378	0.604	
1/30/04 12:17:00	68.28	56.378	0.604	
1/30/04 12:18:00	68.28	56.379	0.603	
1/30/04 12:19:00	68.28	56.380	0.602	
1/30/04 12:20:00	68.28	56.380	0.602	
1/30/04 12:21:00	68.28	56.397	0.585	
1/30/04 12:22:00	68.28	56.416	0.566	
1/30/04 12:23:00	68.28	56.778	0.204	
1/30/04 12:24:00	68.28	55.743	1.239	PUMP ON, NEW HIGHER RATE
1/30/04 12:25:00	68.28	55.717	1.265	
1/30/04 12:26:00	68.28	55.715	1.267	
1/30/04 12:27:00	68.28	55.709	1.273	
1/30/04 12:28:00	68.28	56.467	0.515	PUMP OFF OR NEW LOWER RATE
1/30/04 12:29:00	68.28	56.366	0.616	
1/30/04 12:30:00	68.27	56.714	0.268	
1/30/04 12:31:00	68.26	56.041	0.941	PUMP ON, NEW HIGHER RATE
1/30/04 12:32:00	68.26	56.046	0.936	
1/30/04 12:33:00	68.26	56.054	0.928	
1/30/04 12:34:00	68.26	56.080	0.902	
1/30/04 12:35:00	68.26	56.094	0.888	
1/30/04 12:36:00	68.26	56.093	0.889	
1/30/04 12:37:00	68.26	56.095	0.887	
1/30/04 12:38:00	68.26	56.099	0.883	
1/30/04 12:39:00	68.26	56.098	0.884	
1/30/04 12:40:00	68.26	56.097	0.885	
1/30/04 12:41:00	68.26	56.094	0.888	
1/30/04 12:42:00	68.26	56.093	0.889	
1/30/04 12:43:00	68.26	56.093	0.889	
1/30/04 12:44:00	68.26	56.093	0.889	
1/30/04 12:45:00	68.26	56.091	0.891	
1/30/04 12:46:00	68.26	56.094	0.888	
1/30/04 12:47:00	68.26	56.093	0.889	
1/30/04 12:48:00	68.26	56.093	0.889	
1/30/04 12:49:00	68.26	56.091	0.891	
1/30/04 12:50:00	68.26	56.092	0.890	
1/30/04 12:51:00	68.26	56.092	0.890	
1/30/04 12:52:00	68.26	56.092	0.890	
1/30/04 12:53:00	68.26	56.091	0.891	
1/30/04 12:54:00	68.26	56.092	0.890	
1/30/04 12:55:00	68.26	56.093	0.889	
1/30/04 12:56:00	68.26	56.091	0.891	
1/30/04 12:57:00	68.26	56.093	0.889	
1/30/04 12:58:00	68.26	56.094	0.888	
1/30/04 12:59:00	68.26	56.094	0.888	
1/30/04 13:00:00	68.26	56.872	0.110	PUMP OFF
1/30/04 13:01:00	68.26	56.919	0.063	
1/30/04 13:02:00	68.26	56.932	0.050	
1/30/04 13:03:00	68.26	56.941	0.041	
1/30/04 13:04:00	68.25	56.697	0.285	
1/30/04 13:05:00	68.26	56.940	0.042	
1/30/04 13:06:00	68.26	56.949	0.033	
1/30/04 13:07:00	68.26	56.953	0.029	
1/30/04 13:08:00	68.26	56.955	0.027	
1/30/04 13:09:00	68.26	56.956	0.026	
1/30/04 13:10:00	68.26	56.959	0.023	
1/30/04 13:11:00	68.26	56.958	0.024	
1/30/04 13:12:00	68.26	56.959	0.023	
1/30/04 13:13:00	68.26	56.958	0.024	
1/30/04 13:14:00	68.27	56.959	0.023	
1/30/04 13:15:00	68.28	56.959	0.023	
1/30/04 13:16:00	68.28	56.960	0.022	
1/30/04 13:17:00	68.28	56.958	0.024	
1/30/04 13:18:00	68.28	56.958	0.024	
1/30/04 13:19:00	68.28	56.958	0.024	
1/30/04 13:20:00	68.28	56.958	0.024	
1/30/04 13:21:00	68.28	56.957	0.025	
1/30/04 13:22:00	68.28	56.952	0.030	
1/30/04 13:23:00	68.29	56.957	0.025	
1/30/04 13:24:00	68.29	56.957	0.025	
1/30/04 13:25:00	68.30	56.957	0.025	
1/30/04 13:26:00	68.30	56.957	0.025	
1/30/04 13:27:00	68.30	56.956	0.026	
1/30/04 13:28:00	68.30	56.956	0.026	
1/30/04 13:29:00	68.30	56.954	0.028	
1/30/04 13:30:00	68.30	56.954	0.028	
1/30/04 13:31:00	68.30	56.954	0.028	
1/30/04 13:32:00	68.30	56.954	0.028	
1/30/04 13:33:00	68.30	56.954	0.028	
1/30/04 13:34:00	68.30	56.953	0.029	
1/30/04 13:35:00	68.30	56.952	0.030	
1/30/04 13:36:00	68.30	56.952	0.030	
1/30/04 13:37:00	68.30	56.952	0.030	
1/30/04 13:38:00	68.31	56.951	0.031	
1/30/04 13:39:00	68.30	56.952	0.030	
1/30/04 13:40:00	68.31	56.952	0.030	
1/30/04 13:41:00	68.32	56.950	0.032	
1/30/04 13:42:00	68.32	56.950	0.032	
1/30/04 13:43:00	68.32	56.949	0.033	
1/30/04 13:44:00	68.32	56.948	0.034	
1/30/04 13:45:00	68.32	56.948	0.034	
1/30/04 13:46:00	68.32	56.948	0.034	
1/30/04 13:47:00	68.32	56.948	0.034	
1/30/04 13:48:00	68.32	56.948	0.034	
1/30/04 13:49:00	68.32	56.946	0.036	
1/30/04 13:50:00	68.32	56.946	0.036	
1/30/04 13:51:00	68.33	56.945	0.037	
1/30/04 13:52:00	68.33	56.946	0.036	
1/30/04 13:53:00	68.33	56.944	0.038	
1/30/04 13:54:00	68.34	56.945	0.037	
1/30/04 13:55:00	68.33	56.945	0.037	
1/30/04 13:56:00	68.34	56.944	0.038	
1/30/04 13:57:00	68.35	56.944	0.038	
1/30/04 13:58:00	68.35	56.943	0.039	
1/30/04 13:59:00	68.34	56.942	0.040	
1/30/04 14:00:00	68.35	56.943	0.039	
1/30/04 14:01:00	68.35	56.942	0.040	
1/30/04 14:02:00	68.35	56.942	0.040	
1/30/04 14:03:00	68.35	56.942	0.040	
1/30/04 14:04:00	68.35	56.942	0.040	
1/30/04 14:05:00	68.35	56.942	0.040	
1/30/04 14:06:00	68.35	56.942	0.040	
1/30/04 14:07:00	68.35	56.942	0.040	
1/30/04 14:08:00	68.36	56.942	0.040	
1/30/04 14:09:00	68.36	56.941	0.041	
1/30/04 14:10:00	68.37	56.940	0.042	
1/30/04 14:11:00	68.37	56.939	0.043	
1/30/04 14:12:00	68.37	56.939	0.043	
1/30/04 14:13:00	68.37	56.940	0.042	
1/30/04 14:14:00	68.37	56.939	0.043	
1/30/04 14:15:00	68.37	56.938	0.044	
1/30/04 14:16:00	68.37	56.938	0.044	
1/30/04 14:17:00	68.37	56.937	0.045	
1/30/04 14:18:00	68.37	56.937	0.045	
1/30/04 14:19:00	68.37	56.937	0.045	
1/30/04 14:20:00	68.37	56.937	0.045	
1/30/04 14:21:00	68.38	56.937	0.045	
1/30/04 14:22:00	68.39	56.935	0.047	
1/30/04 14:23:00	68.39	56.936	0.046	
1/30/04 14:24:00	68.39	56.936	0.046	
1/30/04 14:25:00	68.39	56.935	0.047	
1/30/04 14:26:00	68.39	56.935	0.047	
1/30/04 14:27:00	68.39	56.935	0.047	
1/30/04 14:28:00	68.39	56.935	0.047	
1/30/04 14:29:00	68.39	56.001	0.981	PUMP ON
1/30/04 14:30:00	68.39	55.936	1.046	
1/30/04 14:31:00	68.39	55.951	1.031	
1/30/04 14:32:00	68.39	56.006	0.976	PUMP OFF
1/30/04 14:33:00	68.39	56.867	0.115	
1/30/04 14:34:00	68.39	56.917	0.065	
1/30/04 14:35:00	68.39	56.931	0.051	
1/30/04 14:36:00	68.39	56.938	0.044	
1/30/04 14:37:00	68.37	56.943	0.039	
1/30/04 14:38:00	68.37	56.946	0.036	
1/30/04 14:39:00	68.37	56.947	0.035	
1/30/04 14:40:00	68.37	56.950	0.032	
1/30/04 14:41:00	68.37	56.950	0.032	
1/30/04 14:42:00	68.36	56.951	0.031	
1/30/04 14:43:00	68.37	56.951	0.031	
1/30/04 14:44:00	68.37	56.951	0.031	
1/30/04 14:45:00	68.36	56.951	0.031	
1/30/04 14:46:00	68.37	56.951	0.031	
1/30/04 14:47:00	68.35	56.951	0.031	
1/30/04 14:48:00	68.36	56.951	0.031	
1/30/04 14:49:00	68.37	56.950	0.032	
1/30/04 14:50:00	68.36	56.951	0.031	
1/30/04 14:51:00	68.37	56.951	0.031	
1/30/04 14:52:00	68.37	56.950	0.032	
1/30/04 14:53:00	68.37	56.951	0.031	
1/30/04 14:54:00	68.37	56.950	0.032	
1/30/04 14:55:00	68.37	56.949	0.033	
1/30/04 14:56:00	68.37	56.949	0.033	
1/30/04 14:57:00	68.37	56.949	0.033	
1/30/04 14:58:00	68.37	56.948	0.034	
1/30/04 14:59:00	68.37	56.948	0.034	
1/30/04 15:00:00	68.37	56.947	0.035	
1/30/04 15:01:00	68.37	56.947	0.035	
1/30/04 15:02:00	68.37	56.942	0.040	
1/30/04 15:03:00	68.37	56.947	0.035	
1/30/04 15:04:00	68.37	56.946	0.036	
1/30/04 15:05:00	68.37	56.945	0.037	
1/30/04 15:06:00	68.38	56.945	0.037	
1/30/04 15:07:00	68.37	56.945	0.037	
1/30/04 15:08:00	68.38	56.945	0.037	
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1/30/04 15:11:00	68.39	56.943	0.039	

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1/30/04 15:23:00	68.39	56.940	0.042	
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1/30/04 15:34:00	68.41	56.937	0.045	
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1/30/04 15:37:00	68.41	56.937	0.045	
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1/30/04 15:39:00	68.41	56.935	0.047	
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1/30/04 16:02:00	68.44	56.929	0.053	
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1/30/04 16:06:00	68.44	56.930	0.052	
1/30/04 16:07:00	68.44	56.929	0.053	
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1/30/04 16:13:00	68.44	56.928	0.054	
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1/30/04 16:17:00	68.44	55.928	1.054	
1/30/04 16:18:00	68.44	55.937	1.045	
1/30/04 16:19:00	68.44	55.994	0.988	
1/30/04 16:20:00	68.44	56.000	0.982	PUMP OFF
1/30/04 16:21:00	68.44	56.811	0.171	
1/30/04 16:22:00	68.43	56.904	0.078	
1/30/04 16:23:00	68.41	56.267	0.715	PUMP ON
1/30/04 16:24:00	68.41	56.273	0.709	
1/30/04 16:25:00	68.40	56.276	0.706	
1/30/04 16:26:00	68.39	56.280	0.702	
1/30/04 16:27:00	68.39	56.288	0.694	
1/30/04 16:28:00	68.39	56.299	0.683	PUMP OFF
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1/30/04 16:30:00	68.37	56.920	0.062	
1/30/04 16:31:00	68.37	56.935	0.047	
1/30/04 16:32:00	68.37	56.943	0.039	
1/30/04 16:33:00	68.35	56.948	0.034	
1/30/04 16:34:00	68.35	56.951	0.031	
1/30/04 16:35:00	68.35	56.953	0.029	
1/30/04 16:36:00	68.35	56.954	0.028	
1/30/04 16:37:00	68.35	56.953	0.029	
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1/30/04 16:39:00	68.35	56.958	0.024	
1/30/04 16:40:00	68.34	56.958	0.024	
1/30/04 16:41:00	68.35	56.958	0.024	
1/30/04 16:42:00	68.34	56.261	0.721	PUMP ON
1/30/04 16:43:00	68.35	56.206	0.776	
1/30/04 16:44:00	68.34	56.215	0.767	PUMP OFF
1/30/04 16:45:00	68.34	56.602	0.380	
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1/30/04 16:57:00	68.32	56.418	0.564	PUMP ON
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1/30/04 17:02:00	68.33	56.084	0.898	
1/30/04 17:03:00	68.34	56.087	0.895	
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1/30/04 19:12:00	68.39	56.933	0.049	
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1/31/04 1:58:00	68.56	56.903	0.079
1/31/04 1:59:00	68.56	56.903	0.079
1/31/04 2:00:00	68.56	56.903	0.079
1/31/04 2:01:00	68.57	56.902	0.080
1/31/04 2:02:00	68.56	56.904	0.078
1/31/04 2:03:00	68.57	56.904	0.078
1/31/04 2:04:00	68.57	56.904	0.078
1/31/04 2:05:00	68.56	56.905	0.077
1/31/04 2:06:00	68.57	56.904	0.078
1/31/04 2:07:00	68.57	56.903	0.079
1/31/04 2:08:00	68.57	56.905	0.077
1/31/04 2:09:00	68.57	56.903	0.079
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1/31/04 2:12:00	68.55	56.905	0.077
1/31/04 2:13:00	68.56	56.905	0.077
1/31/04 2:14:00	68.57	56.905	0.077
1/31/04 2:15:00	68.57	56.905	0.077
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1/31/04 2:30:00	68.56	56.905	0.077
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1/31/04 3:00:00	68.56	56.903	0.079
1/31/04 3:01:00	68.56	56.901	0.081
1/31/04 3:02:00	68.56	56.903	0.079
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1/31/04 3:04:00	68.57	56.902	0.080
1/31/04 3:05:00	68.55	56.901	0.081
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1/31/04 3:07:00	68.56	56.901	0.081
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1/31/04 3:12:00	68.56	56.902	0.080
1/31/04 3:13:00	68.55	56.902	0.080
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1/31/04 3:21:00	68.55	56.903	0.079
1/31/04 3:22:00	68.55	56.903	0.079
1/31/04 3:23:00	68.55	56.903	0.079
1/31/04 3:24:00	68.56	56.903	0.079
1/31/04 3:25:00	68.56	56.903	0.079
1/31/04 3:26:00	68.56	56.902	0.080
1/31/04 3:27:00	68.57	56.900	0.082
1/31/04 3:28:00	68.57	56.901	0.081
1/31/04 3:29:00	68.56	56.902	0.080
1/31/04 3:30:00	68.56	56.903	0.079
1/31/04 3:31:00	68.57	56.901	0.081
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1/31/04 3:49:00	68.56	56.903	0.079
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1/31/04 3:53:00	68.57	56.901	0.081
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1/31/04 4:07:00	68.57	56.903	0.079
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1/31/04 4:11:00	68.56	56.903	0.079
1/31/04 4:12:00	68.57	56.902	0.080
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1/31/04 5:15:00	68.56	56.901	0.081
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1/31/04 5:19:00	68.55	56.901	0.081
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1/31/04 6:00:00	68.55	56.900	0.082
1/31/04 6:01:00	68.55	56.901	0.081
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1/31/04 6:19:00	68.55	56.900	0.082
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1/31/04 6:30:00	68.55	56.902	0.080
1/31/04 6:31:00	68.55	56.901	0.081
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1/31/04 6:40:00	68.55	56.902	0.080
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1/31/04 6:55:00	68.55	56.902	0.080
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1/31/04 7:00:00	68.55	56.903	0.079
1/31/04 7:01:00	68.55	56.903	0.079
1/31/04 7:02:00	68.55	56.903	0.079
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1/31/04 7:04:00	68.55	56.902	0.080
1/31/04 7:05:00	68.55	56.902	0.080
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1/31/04 7:24:00	68.55	56.902	0.080
1/31/04 7:25:00	68.55	56.902	0.080
1/31/04 7:26:00	68.55	56.901	0.081
1/31/04 7:27:00	68.55	56.901	0.081
1/31/04 7:28:00	68.54	56.901	0.081
1/31/04 7:29:00	68.54	56.901	0.081
1/31/04 7:30:00	68.54	56.901	0.081
1/31/04 7:31:00	68.54	56.901	0.081
1/31/04 7:32:00	68.55	56.900	0.082
1/31/04 7:33:00	68.55	56.901	0.081
1/31/04 7:34:00	68.55	56.900	0.082
1/31/04 7:35:00	68.54	56.899	0.083
1/31/04 7:36:00	68.54	56.900	0.082
1/31/04 7:37:00	68.54	56.901	0.081
1/31/04 7:38:00	68.53	56.901	0.081
1/31/04 7:39:00	68.54	56.900	0.082
1/31/04 7:40:00	68.54	56.901	0.081
1/31/04 7:41:00	68.54	56.900	0.082
1/31/04 7:42:00	68.54	56.900	0.082
1/31/04 7:43:00	68.54	56.899	0.083
1/31/04 7:44:00	68.54	56.899	0.083
1/31/04 7:45:00	68.55	56.900	0.082
1/31/04 7:46:00	68.54	56.899	0.083
1/31/04 7:47:00	68.54	56.900	0.082
1/31/04 7:48:00	68.55	56.901	0.081
1/31/04 7:49:00	68.55	56.901	0.081
1/31/04 7:50:00	68.54	56.901	0.081
1/31/04 7:51:00	68.54	56.902	0.080
1/31/04 7:52:00	68.55	56.901	0.081
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1/31/04 7:54:00	68.54	56.901	0.081
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1/31/04 8:00:00	68.55	56.901	0.081
1/31/04 8:01:00	68.54	56.899	0.083
1/31/04 8:02:00	68.53	56.900	0.082
1/31/04 8:03:00	68.53	56.900	0.082
1/31/04 8:04:00	68.53	56.681	0.301
1/31/04 8:05:00	68.53	56.680	0.302
1/31/04 8:06:00	68.53	56.683	0.299
1/31/04 8:07:00	68.53	56.686	0.296
1/31/04 8:08:00	68.54	56.686	0.296
1/31/04 8:09:00	68.54	56.688	0.294
1/31/04 8:10:00	68.54	56.690	0.292
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1/31/04 8:12:00	68.55	56.692	0.290
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1/31/04 8:17:00	68.53	56.694	0.288
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1/31/04 8:23:00	68.54	56.697	0.285	
1/31/04 8:24:00	68.54	56.697	0.285	
1/31/04 8:25:00	68.54	56.888	0.094	
1/31/04 8:26:00	68.53	56.889	0.093	
1/31/04 8:27:00	68.53	56.888	0.094	
1/31/04 8:28:00	68.53	56.887	0.095	
1/31/04 8:29:00	68.53	56.889	0.093	
1/31/04 8:30:00	68.53	56.889	0.093	
1/31/04 8:31:00	68.54	56.888	0.094	
1/31/04 8:32:00	68.53	56.888	0.094	
1/31/04 8:33:00	68.53	56.888	0.094	
1/31/04 8:34:00	68.53	56.887	0.095	
1/31/04 8:35:00	68.53	56.887	0.095	
1/31/04 8:36:00	68.53	56.889	0.093	
1/31/04 8:37:00	68.53	56.887	0.095	
1/31/04 8:38:00	68.53	56.889	0.093	
1/31/04 8:39:00	68.53	56.889	0.093	
1/31/04 8:40:00	68.53	56.889	0.093	
1/31/04 8:41:00	68.53	56.889	0.093	BEGIN TRIP OUT
1/31/04 8:42:00	68.53	56.810		(TO CHECK ON CHECK VALVES??)
1/31/04 8:43:00	68.53	53.831		
1/31/04 8:44:00	68.53	51.871		
1/31/04 8:45:00	68.53	51.362		
1/31/04 8:46:00	68.53	44.768		
1/31/04 8:47:00	68.53	41.679		
1/31/04 8:48:00	68.53	41.849		
1/31/04 8:49:00	68.52	40.592		
1/31/04 8:50:00	68.51	37.020		
1/31/04 8:51:00	68.48	26.062		
1/31/04 8:52:00	68.48	20.702		
1/31/04 8:53:00	68.46	20.706		
1/31/04 8:54:00	68.44	18.432		
1/31/04 8:55:00	68.40	5.611		
1/31/04 8:56:00	68.37	-0.342		
1/31/04 8:57:00	68.35	-0.344		
1/31/04 8:58:00	68.32	-0.346		
1/31/04 8:59:00	68.30	-0.345		
1/31/04 9:00:00	68.28	-0.343		
1/31/04 9:01:00	68.26	-0.346		
1/31/04 9:02:00	68.24	-0.352		
1/31/04 9:03:00	68.23	-0.374		
1/31/04 9:04:00	68.21	-0.358		
1/31/04 9:05:00	68.21	-0.356		
1/31/04 9:06:00	68.19	-0.356		
1/31/04 9:07:00	68.18	-0.356		
1/31/04 9:08:00	68.17	-0.361		
1/31/04 9:09:00	68.16	-0.372		
1/31/04 9:10:00	68.14	-0.377		
1/31/04 9:11:00	68.12	-0.373		
1/31/04 9:12:00	68.11	-0.373		
1/31/04 9:13:00	68.10	-0.384		
1/31/04 9:14:00	68.08	-0.396		
1/31/04 9:15:00	68.05	-0.392		
1/31/04 9:16:00	68.03	-0.396		
1/31/04 9:17:00	68.01	-0.412		
1/31/04 9:18:00	68.00	-0.404		
1/31/04 9:19:00	67.97	-0.409		
1/31/04 9:20:00	67.95	-0.406		
1/31/04 9:21:00	67.92	-0.433		
1/31/04 9:22:00	67.91	-0.409		
1/31/04 9:23:00	67.88	-0.429		
1/31/04 9:24:00	67.85	-0.422		
1/31/04 9:25:00	67.83	-0.419		
1/31/04 9:26:00	67.80	-0.450		
1/31/04 9:27:00	67.78	-0.439		
1/31/04 9:28:00	67.75	-0.433		
1/31/04 9:29:00	67.72	-0.444		
1/31/04 9:30:00	67.69	-0.448		
1/31/04 9:31:00	67.66	-0.453		
1/31/04 9:32:00	67.62	-0.448		
1/31/04 9:33:00	67.58	-0.446		
1/31/04 9:34:00	67.56	-0.465		
1/31/04 9:35:00	67.51	-0.467		
1/31/04 9:36:00	67.46	-0.457		
1/31/04 9:37:00	67.42	-0.455		
1/31/04 9:38:00	67.39	-0.469		
1/31/04 9:39:00	67.33	-0.468		
1/31/04 9:40:00	67.28	-0.466		
1/31/04 9:41:00	67.24	-0.463		
1/31/04 9:42:00	67.19	-0.466		
1/31/04 9:43:00	67.15	-0.476		
1/31/04 9:44:00	67.10	-0.473		
1/31/04 9:45:00	67.06	-0.471		
1/31/04 9:46:00	67.01	-0.468		
1/31/04 9:47:00	66.97	-0.467		
1/31/04 9:48:00	66.93	-0.474		
1/31/04 9:49:00	66.89	-0.485		
1/31/04 9:50:00	66.85	-0.478		
1/31/04 9:51:00	66.81	-0.476		
1/31/04 9:52:00	66.76	-0.482		
1/31/04 9:53:00	66.72	-0.487		
1/31/04 9:54:00	66.67	-0.490		
1/31/04 9:55:00	66.64	-0.485		
1/31/04 9:56:00	66.60	-0.483		
1/31/04 9:57:00	66.56	-0.480		
1/31/04 9:58:00	66.52	-0.494		
1/31/04 9:59:00	66.47	-0.495		
1/31/04 10:00:00	66.42	-0.492		
1/31/04 10:01:00	66.38	-0.489		
1/31/04 10:02:00	66.33	-0.505		
1/31/04 10:03:00	66.29	-0.503		
1/31/04 10:04:00	66.24	-0.500		
1/31/04 10:05:00	66.20	-0.498		
1/31/04 10:06:00	66.15	-0.496		
1/31/04 10:07:00	66.11	-0.493		
1/31/04 10:08:00	66.07	-0.490		
1/31/04 10:09:00	66.03	-0.487		
1/31/04 10:10:00	65.98	-0.485		
1/31/04 10:11:00	65.93	-0.483		
1/31/04 10:12:00	65.89	-0.482		
1/31/04 10:13:00	65.84	-0.468		
1/31/04 10:14:00	65.79	-0.489		
1/31/04 10:15:00	65.75	-0.501		
1/31/04 10:16:00	65.70	-0.494		
1/31/04 10:17:00	65.67	-0.492		
1/31/04 10:18:00	65.63	-0.491		
1/31/04 10:19:00	65.59	-0.503		
1/31/04 10:20:00	65.54	-0.503		
1/31/04 10:21:00	65.50	-0.501		
1/31/04 10:22:00	65.46	-0.504		
1/31/04 10:23:00	65.42	-0.520		
1/31/04 10:24:00	65.38	-0.516		
1/31/04 10:25:00	65.34	-0.513		
1/31/04 10:26:00	65.30	-0.513		
1/31/04 10:27:00	65.26	-0.531		
1/31/04 10:28:00	65.22	-0.526		
1/31/04 10:29:00	65.18	-0.524		
1/31/04 10:30:00	65.16	-0.513		
1/31/04 10:31:00	65.12	-0.529		
1/31/04 10:32:00	65.08	-0.532		
1/31/04 10:33:00	65.04	-0.542		
1/31/04 10:34:00	65.00	-0.534		
1/31/04 10:35:00	64.97	-0.533		
1/31/04 10:36:00	64.94	-0.532		
1/31/04 10:37:00	64.91	-0.535		
1/31/04 10:38:00	64.88	-0.550		
1/31/04 10:39:00	64.84	-0.549		
1/31/04 10:40:00	64.82	-0.550		
1/31/04 10:41:00	64.78	-0.561		
1/31/04 10:42:00	64.74	-0.570		
1/31/04 10:43:00	64.70	-0.567		
1/31/04 10:44:00	64.68	-0.567		
1/31/04 10:45:00	64.64	-0.567		
1/31/04 10:46:00	64.61	-0.568		
1/31/04 10:47:00	64.57	-0.567		
1/31/04 10:48:00	64.54	-0.567		
1/31/04 10:49:00	64.50	-0.567		
1/31/04 10:50:00	64.48	-0.565		
1/31/04 10:51:00	64.43	-0.559		
1/31/04 10:52:00	64.40	-0.586		
1/31/04 10:53:00	64.36	-0.579		
1/31/04 10:54:00	64.32	-0.582		
1/31/04 10:55:00	64.30	-0.583		
1/31/04 10:56:00	64.25	-0.584		
1/31/04 10:57:00	64.23	-0.586		
1/31/04 10:58:00	64.19	-0.586		
1/31/04 10:59:00	64.16	-0.588		
1/31/04 11:00:00	64.13	-0.589		
1/31/04 11:01:00	64.09	-0.590		
1/31/04 11:02:00	64.06	-0.592		
1/31/04 11:03:00	64.02	-0.591		
1/31/04 11:04:00	64.00	-0.592		
1/31/04 11:05:00	63.96	-0.593		
1/31/04 11:06:00	63.93	-0.593		
1/31/04 11:07:00	63.91	-0.594		
1/31/04 11:08:00	63.88	-0.594		
1/31/04 11:09:00	63.85	-0.596		
1/31/04 11:10:00	63.82	-0.597		
1/31/04 11:11:00	63.80	-0.598		
1/31/04 11:12:00	63.77	-0.600		
1/31/04 11:13:00	63.75	-0.602		
1/31/04 11:14:00	63.72	-0.604		
1/31/04 11:15:00	63.70	-0.606		
1/31/04 11:16:00	63.67	-0.609		
1/31/04 11:17:00	63.64	-0.612		
1/31/04 11:18:00	63.63	-0.615		
1/31/04 11:19:00	63.61	-0.617		
1/31/04 11:20:00	63.59	-0.619		
1/31/04 11:21:00	63.57	-0.622		
1/31/04 11:22:00	63.55	-0.624		
1/31/04 11:23:00	63.53	-0.628		
1/31/04 11:24:00	63.50	-0.632		
1/31/04 11:25:00	63.49	-0.634		
1/31/04 11:26:00	63.48	-0.635		
1/31/04 11:27:00	63.46	-0.639		
1/31/04 11:28:00	63.44	-0.641		
1/31/04 11:29:00	63.42	-0.644		
1/31/04 11:30:00	63.41	-0.647		
1/31/04 11:31:00	63.39	-0.649		
1/31/04 11:32:00	63.37	-0.651		
1/31/04 11:33:00	63.37	-0.655		
1/31/04 11:34:00	63.34	-0.657		
1/31/04 11:35:00	63.32	-0.662		
1/31/04 11:36:00	63.32	-0.668		
1/31/04 11:37:00	63.30	-0.672		
1/31/04 11:38:00	63.28	-0.676		
1/31/04 11:39:00	63.28	-0.682		
1/31/04 11:40:00	63.26	-0.686		
1/31/04 11:41:00	63.25	-0.691		
1/31/04 11:42:00	63.23	-0.696		
1/31/04 11:43:00	63.23	-0.701		
1/31/04 11:44:00	63.21	-0.706		
1/31/04 11:45:00	63.20	-0.714		
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1/31/04 11:47:00	63.17	-0.726		
1/31/04 11:48:00	63.16	-0.732		
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1/31/04 11:52:00	63.12	-0.759		
1/31/04 11:53:00	63.10	-0.768		
1/31/04 11:54:00	63.10	-0.772		
1/31/04 11:55:00	63.08	-0.779		
1/31/04 11:56:00	63.07	-0.787		
1/31/04 11:57:00	63.06	-0.796		
1/31/04 11:58:00	63.05	-0.807		
1/31/04 11:59:00	63.05	-0.818		
1/31/04 12:00:00	63.03	-0.827		
1/31/04 12:01:00	63.03	-0.836		
1/31/04 12:02:00	63.00	-0.844		
1/31/04 12:03:00	63.00	-0.852		
1/31/04 12:04:00	63.00	-0.861		
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1/31/04 12:06:00	62.98	-0.883		
1/31/04 12:07:00	62.96	-0.899		
1/31/04 12:08:00	62.96	-0.917		
1/31/04 12:09:00	62.95	-0.944		
1/31/04 12:10:00	62.94	-0.990		
1/31/04 12:11:00	62.94	-1.003		
1/31/04 12:12:00	62.92	-1.022		
1/31/04 12:13:00	62.91	-1.047		
1/31/04 12:14:00	62.91	-1.061		
1/31/04 12:15:00	62.90	-1.081		
1/31/04 12:16:00	62.89	-1.097		
1/31/04 12:17:00	62.89	-1.107		
1/31/04 12:18:00	62.87	-1.114		
1/31/04 12:19:00	62.87	-1.119		
1/31/04 12:20:00	62.86	-1.121		
1/31/04 12:21:00	62.85	-1.122		
1/31/04 12:22:00	62.85	-1.121		
1/31/04 12:23:00	62.85	-1.122		
1/31/04 12:24:00	62.82	-1.121		
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1/31/04 12:26:00	62.82	-1.122		
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1/31/04 12:31:00	62.78	-1.121		
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1/31/04 12:33:00	62.78	-1.123		
1/31/04 12:34:00	62.76	-1.123		
1/31/04 12:35:00	62.76	-1.123		
1/31/04 12:36:00	62.76	-1.123		
1/31/04 12:37:00	62.76	-1.125		
1/31/04 12:38:00	62.73	-1.123		
1/31/04 12:39:00	62.73	-1.124		
1/31/04 12:40:00	62.73	-1.125		
1/31/04 12:41:00	62.73	-1.126		
1/31/04 12:42:00	62.72	-1.126		
1/31/04 12:43:00	62.71	-1.126		
1/31/04 12:44:00	62.71	-1.126		
1/31/04 12:45:00	62.71	-1.126		
1/31/04 12:46:00	62.69	-1.125		
1/31/04 12:47:00	62.69	-1.125		
1/31/04 12:48:00	62.69	-1.125		
1/31/04 12:49:00	62.69	-1.124		
1/31/04 12:50:00	62.69	-1.124		
1/31/04 12:51:00	62.67	-1.123		
1/31/04 12:52:00	62.67	-1.123		
1/31/04 12:53:00	62.67	-1.122		
1/31/04 12:54:00	62.67	-1.116		
1/31/04 12:55:00	62.67	-1.111		
1/31/04 12:56:00	62.66	-1.111		
1/31/04 12:57:00	62.64	-1.103		
1/31/04 12:58:00	62.64	-1.112		
1/31/04 12:59:00	62.64	-1.102		
1/31/04 13:00:00	62.64	-1.097		
1/31/04 13:01:00	62.64	-1.090		
1/31/04 13:02:00	62.62	-1.088		
1/31/04 13:03:00	62.62	-1.088		
1/31/04 13:04:00	62.62	-1.084		
1/31/04 13:05:00	62.62	-1.076		
1/31/04 13:06:00	62.62	-1.069		
1/31/04 13:07:00	62.62	-1.066		
1/31/04 13:08:00	62.62	-1.059		
1/31/04 13:09:00	62.62	-1.029		
1/31/04 13:10:00	62.62	-1.049		
1/31/04 13:11:00	62.62	-1.046		
1/31/04 13:12:00	62.62	-1.047		
1/31/04 13:13:00	62.62	-1.043		
1/31/04 13:14:00	62.62	-1.037		
1/31/04 13:15:00	62.62	-1.028		
1/31/04 13:16:00	62.63	-1.034		
1/31/04 13:17:00	62.64	-1.031		
1/31/04 13:18:00	62.64	-1.031		
1/31/04 13:19:00	62.64	-1.031		
1/31/04 13:20:00	62.66	-1.027		
1/31/04 13:21:00	62.67	-1.028		
1/31/04 13:22:00	62.67	-1.023		
1/31/04 13:23:00	62.68	-1.015		
1/31/04 13:24:00	62.69	-1.011		
1/31/04 13:25:00	62.69	-1.012		
1/31/04 13:26:00	62.71	-1.001		
1/31/04 13:27:00	62.71	-1.005		
1/31/04 13:28:00	62.72	-0.995		
1/31/04 13:29:00	62.73	-0.995		
1/31/04 13:30:00	62.74	-0.994		
1/31/04 13:31:00	62.76	-0.986		
1/31/04 13:32:00	62.76	-0.978		
1/31/04 13:33:00	62.78	-0.978		
1/31/04 13:34:00	62.78	-0.980		
1/31/04 13:35:00	62.80	-0.977		
1/31/04 13:36:00	62.80	-0.971		
1/31/04 13:37:00	62.82	-0.966		
1/31/04 13:38:00	62.82	-0.968		
1/31/04 13:39:00	62.85	-0.967		
1/31/04 13:40:00	62.87	-0.963		
1/31/04 13:41:00	62.87	-0.957		
1/31/04 13:42:00	62.89	-0.953		
1/31/04 13:43:00	62.91	-0.952		
1/31/04 13:44:00	62.94	-0.955		
1/31/04 13:45:00	62.96	-0.955		
1/31/04 13:46:00	62.96	-0.951		
1/31/04 13:47:00	62.98	-0.936		
1/31/04 13:48:00	63.00	-0.941		
1/31/04 13:49:00	63.03	-0.940		
1/31/04 13:50:00	63.05	-0.938		
1/31/04 13:51:00	63.07	-0.926		
1/31/04 13:52:00	63.10	-0.928		
1/31/04 13:53:00	63.12	-0.922		
1/31/04 13:54:00	63.14	-0.920		
1/31/04 13:55:00	63.17	-0.919		
1/31/04 13:56:00	63.19	-0.903		
1/31/04 13:57:00	63.22	-0.912		
1/31/04 13:58:00	63.25	-0.910		
1/31/04 13:59:00	63.28	-0.908		
1/31/04 14:00:00	63.30	-0.908		
1/31/04 14:01:00	63.33	-0.899		
1/31/04 14:02:00	63.36	-0.915		
1/31/04 14:03:00	63.39	-0.897		
1/31/04 14:04:00	63.41	-0.908		
1/31/04 14:05:00	63.44	-0.900		
1/31/04 14:06:00	63.47	-0.899		
1/31/04 14:07:00	63.50	-0.902		
1/31/04 14:08:00	63.53	-0.889		
1/31/04 14:09:00	63.55	-0.889		
1/31/04 14:10:00	63.59	-0.891		
1/31/04 14:11:00	63.62	-0.894		
1/31/04 14:12:00	63.64	-0.891		
1/31/04 14:13:00	63.66	-0.895		
1/31/04 14:14:00	63.68	-0.887		
1/31/04 14:15:00	63.71	-0.884		
1/31/04 14:16:00	63.73	-0.886		
1/31/04 14:17:00	63.75	-0.880		
1/31/04 14:18:00	63.77	-0.880		
1/31/04 14:19:00	63.79	-0.883		
1/31/04 14:20:00	63.82	-0.873		
1/31/04 14:21:00	63.84	-0.873		
1/31/04 14:22:00	63.87	-0.873		
1/31/04 14:23:00	63.89	-0.864		
1/31/04 14:24:00	63.92	-0.872		
1/31/04 14:25:00	63.96	-0.868		
1/31/04 14:26:00	63.99	-0.873		
1/31/04 14:27:00	64.02	-0.869		
1/31/04 14:28:00	64.05	-0.866		
1/31/04 14:29:00	64.09	-0.865		
1/31/04 14:30:00	64.13	-0.859		
1/31/04 14:31:00	64.16	-0.847		
1/31/04 14:32:00	64.20	-0.857		
1/31/04 14:33:00	64.24	-0.857		
1/31/04 14:34:00	64.28	-0.842		
1/31/04 14:35:00	64.32	-0.850		
1/31/04 14:36:00	64.36	-0.852		
1/31/04 14:37:00	64.40	-0.848		
1/31/04 14:38:00	64.45	-0.853		
1/31/04 14:39:00	64.49	-0.853		
1/31/04 14:40:00	64.52	-0.849		
1/31/04 14:41:00	64.57	-0.844		
1/31/04 14:42:00	64.61	-0.845		
1/31/04 14:43:00	64.66	-0.848		
1/31/04 14:44:00	64.70	-0.850		
1/31/04 14:45:00	64.75	-0.854		
1/31/04 14:46:00	64.79	-0.855		
1/31/04 14:47:00	64.83	-0.848		
1/31/04 14:48:00	64.88	-0.843		
1/31/04 14:49:00	64.92	-0.233		
1/31/04 14:50:00	65.02	-0.109		
1/31/04 14:51:00	65.17	6.098		XD SUBMERGENCE, TRIPPING BACK IN
1/31/04 14:52:00	65.37	18.354		
1/31/04 14:53:00	65.62	20.314		
1/31/04 14:54:00	65.89	20.850		
1/31/04 14:55:00	66.12	23.316		
1/31/04 14:56:00	66.34	31.390		
1/31/04 14:57:00	66.53	39.386		
1/31/04 14:58:00	66.73	41.962		
1/31/04 14:59:00	66.89	41.789		
1/31/04 15:00:00	67.05	45.840		
1/31/04 15:01:00	67.19	51.111		
1/31/04 15:02:00	67.32	54.009		
1/31/04 15:03:00	67.43	56.835	0.000	THERMAL EQUILIBRATION, BACKGROUND MONITORING
1/31/04 15:04:00	67.54	56.882	-0.047	
1/31/04 15:05:00	67.65	56.874	-0.039	
1/31/04 15:06:00	67.74	56.867	-0.032	
1/31/04 15:07:00	67.82	56.863	-0.028	
1/31/04 15:08:00	67.89	56.858	-0.023	
1/31/04 15:09:00	67.95	56.854	-0.019	
1/31/04 15:10:00	68.01	56.851	-0.016	
1/31/04 15:11:00	68.05	56.848	-0.013	
1/31/04 15:12:00	68.09	56.846	-0.011	
1/31/04 15:13:00	68.12	56.844	-0.009	
1/31/04 15:14:00	68.15	56.842	-0.007	
1/31/04 15:15:00	68.19	56.839	-0.004	
1/31/04 15:16:00	68.21	56.838	-0.003	
1/31/04 15:17:00	68.23	56.837	-0.002	
1/31/04 15:18:00	68.25	56.717	0.118	
1/31/04 15:19:00	68.26	56.716	0.119	
1/31/04 15:20:00	68.28	56.715	0.120	
1/31/04 15:21:00	68.30	56.713	0.122	
1/31/04 15:22:00	68.30	56.714	0.121	
1/31/04 15:23:00	68.31	56.696	0.139	
1/31/04 15:24:00	68.32	56.706	0.129	
1/31/04 15:25:00	68.32	56.716	0.119	
1/31/04 15:26:00	68.35	56.736	0.099	
1/31/04 15:27:00	68.35	56.680	0.155	
1/31/04 15:28:00	68.35	56.860	-0.025	
1/31/04 15:29:00	68.37	56.832	0.003	
1/31/04 15:30:00	68.37	56.831	0.004	
1/31/04 15:31:00	68.37	56.831	0.004	
1/31/04 15:32:00	68.37	56.829	0.006	
1/31/04 15:33:00	68.38	56.829	0.006	
1/31/04 15:34:00	68.39	56.496	0.339	
1/31/04 15:35:00	68.39	56.610	0.225	
1/31/04 15:36:00	68.39	56.830	0.005	
1/31/04 15:37:00	68.39	56.845	-0.010	
1/31/04 15:38:00	68.39	56.850	-0.015	
1/31/04 15:39:00	68.39	56.853	-0.018	
1/31/04 15:40:00	68.39	56.854	-0.019	
1/31/04 15:41:00	68.39	56.855	-0.020	
1/31/04 15:42:00	68.39	56.855	-0.020	
1/31/04 15:43:00	68.39	56.855	-0.020	
1/31/04 15:44:00	68.39	56.850	-0.015	
1/31/04 15:45:00	68.40	56.855	-0.020	
1/31/04 15:46:00	68.40	56.856	-0.021	
1/31/04 15:47:00	68.39	56.854	-0.019	
1/31/04 15:48:00	68.40	56.855	-0.020	
1/31/04 15:49:00	68.40	56.852	-0.017	
1/31/04 15:50:00	68.41	56.855	-0.020	
1/31/04 15:51:00	68.40	56.853	-0.018	
1/31/04 15:52:00	68.40	56.852	-0.017	
1/31/04 15:53:00	68.40	56.854	-0.019	
1/31/04 15:54:00	68.40	56.850	-0.015	
1/31/04 15:55:00	68.40	56.851	-0.016	
1/31/04 15:56:00	68.40	56.851	-0.016	
1/31/04 15:57:00	68.40	56.851	-0.016	
1/31/04 15:58:00	68.41	56.849	-0.014	
1/31/04 15:59:00	68.40	56.850	-0.015	
1/31/04 16:00:00	68.40	56.850	-0.015	
1/31/04 16:01:00	68.40	56.849	-0.014	
1/31/04 16:02:00	68.41	56.849	-0.014	
1/31/04 16:03:00	68.40	56.849	-0.014	
1/31/04 16:04:00	68.41	56.849	-0.014	
1/31/04 16:05:00	68.40	56.847	-0.012	
1/31/04 16:06:00	68.40	56.848	-0.013	
1/31/04 16:07:00	68.41	56.848	-0.013	
1/31/04 16:08:00	68.41	56.848	-0.013	
1/31/04 16:09:00	68.41	56.847	-0.012	
1/31/04 16:10:00	68.41	56.845	-0.010	
1/31/04 16:11:00	68.41	56.846	-0.011	
1/31/04 16:12:00	68.41	56.846	-0.011	
1/31/04 16:13:00	68.41	56.841	-0.006	
1/31/04 16:14:00	68.41	56.846	-0.011	
1/31/04 16:15:00	68.41	56.848	-0.013	
1/31/04 16:16:00	68.41	56.846	-0.011	
1/31/04 16:17:00	68.41	56.845	-0.010	
1/31/04 16:18:00	68.41	56.847	-0.012	
1/31/04 16:19:00	68.41	56.848	-0.013	
1/31/04 16:20:00	68.41	56.847	-0.012	
1/31/04 16:21:00	68.41	56.848	-0.013	
1/31/04 16:22:00	68.41	56.849	-0.014	
1/31/04 16:23:00	68.41	56.849	-0.014	
1/31/04 16:24:00	68.41	56.850	-0.015	
1/31/04 16:25:00	68.41	56.849	-0.014	
1/31/04 16:26:00	68.41	56.848	-0.013	
1/31/04 16:27:00	68.41	56.846	-0.011	
1/31/04 16:28:00	68.41	56.850	-0.015	
1/31/04 16:29:00	68.41	56.847	-0.012	
1/31/04 16:30:00	68.41	56.847	-0.012	
1/31/04 16:31:00	68.41	56.847	-0.012	
1/31/04 16:32:00	68.41	56.846	-0.011	
1/31/04 16:33:00	68.41	56.847	-0.012	
1/31/04 16:34:00	68.41	56.847	-0.012	
1/31/04 16:35:00	68.41	56.848	-0.013	
1/31/04 16:36:00	68.41	56.847	-0.012	
1/31/04 16:37:00	68.41	56.847	-0.012	
1/31/04 16:38:00	68.41	56.848	-0.013	
1/31/04 16:39:00	68.41	56.848	-0.013	
1/31/04 16:40:00	68.41	56.849	-0.014	
1/31/04 16:41:00	68.41	56.849	-0.014	
1/31/04 16:42:00	68.41	56.849	-0.014	
1/31/04 16:43:00	68.41	56.849	-0.014	
1/31/04 16:44:00	68.41	56.848	-0.013	
1/31/04 16:45:00	68.41	56.849	-0.014	
1/31/04 16:46:00	68.41	56.849	-0.014	
1/31/04 16:47:00	68.41	56.849	-0.014	
1/31/04 16:48:00	68.41	56.849	-0.014	
1/31/04 16:49:00	68.41	56.850	-0.015	
1/31/04 16:50:00	68.41	56.852	-0.017	
1/31/04 16:51:00	68.41	56.853	-0.018	
1/31/04 16:52:00	68.41	56.853	-0.018	
1/31/04 16:53:00	68.41	56.852	-0.017	

1/31/04 16:54:00	68.41	56.852	-0.017
1/31/04 16:55:00	68.41	56.850	-0.015
1/31/04 16:56:00	68.41	56.850	-0.015
1/31/04 16:57:00	68.41	56.850	-0.015
1/31/04 16:58:00	68.41	56.849	-0.014
1/31/04 16:59:00	68.41	56.849	-0.014
1/31/04 17:00:00	68.41	56.847	-0.012
1/31/04 17:01:00	68.41	56.847	-0.012
1/31/04 17:02:00	68.41	56.847	-0.012
1/31/04 17:03:00	68.41	56.846	-0.011
1/31/04 17:04:00	68.41	56.845	-0.010
1/31/04 17:05:00	68.41	56.846	-0.011
1/31/04 17:06:00	68.41	56.846	-0.011
1/31/04 17:07:00	68.41	56.846	-0.011
1/31/04 17:08:00	68.41	56.845	-0.010
1/31/04 17:09:00	68.41	56.845	-0.010
1/31/04 17:10:00	68.41	56.844	-0.009
1/31/04 17:11:00	68.41	56.844	-0.009
1/31/04 17:12:00	68.41	56.843	-0.008
1/31/04 17:13:00	68.41	56.843	-0.008
1/31/04 17:14:00	68.41	56.841	-0.006
1/31/04 17:15:00	68.41	56.841	-0.006
1/31/04 17:16:00	68.41	56.841	-0.006
1/31/04 17:17:00	68.41	56.840	-0.005
1/31/04 17:18:00	68.41	56.840	-0.005
1/31/04 17:19:00	68.41	56.840	-0.005
1/31/04 17:20:00	68.41	56.840	-0.005
1/31/04 17:21:00	68.41	56.839	-0.004
1/31/04 17:22:00	68.41	56.839	-0.004
1/31/04 17:23:00	68.43	56.839	-0.004
1/31/04 17:24:00	68.41	56.841	-0.006
1/31/04 17:25:00	68.41	56.840	-0.005
1/31/04 17:26:00	68.41	56.840	-0.005
1/31/04 17:27:00	68.41	56.840	-0.005
1/31/04 17:28:00	68.41	56.839	-0.004
1/31/04 17:29:00	68.41	56.839	-0.004
1/31/04 17:30:00	68.42	56.839	-0.004
1/31/04 17:31:00	68.42	56.839	-0.004
1/31/04 17:32:00	68.43	56.839	-0.004
1/31/04 17:33:00	68.43	56.839	-0.004
1/31/04 17:34:00	68.43	56.839	-0.004
1/31/04 17:35:00	68.44	56.839	-0.004
1/31/04 17:36:00	68.44	56.839	-0.004
1/31/04 17:37:00	68.44	56.837	-0.002
1/31/04 17:38:00	68.44	56.839	-0.004
1/31/04 17:39:00	68.44	56.839	-0.004
1/31/04 17:40:00	68.44	56.838	-0.003
1/31/04 17:41:00	68.44	56.838	-0.003
1/31/04 17:42:00	68.44	56.839	-0.004
1/31/04 17:43:00	68.44	56.838	-0.003
1/31/04 17:44:00	68.44	56.837	-0.002
1/31/04 17:45:00	68.44	56.838	-0.003
1/31/04 17:46:00	68.44	56.837	-0.002
1/31/04 17:47:00	68.44	56.837	-0.002
1/31/04 17:48:00	68.44	56.837	-0.002
1/31/04 17:49:00	68.44	56.835	0.000
1/31/04 17:50:00	68.44	56.834	0.001
1/31/04 17:51:00	68.44	56.835	0.000
1/31/04 17:52:00	68.44	56.835	0.000
1/31/04 17:53:00	68.45	56.834	0.001
1/31/04 17:54:00	68.46	56.834	0.001
1/31/04 17:55:00	68.46	56.834	0.001
1/31/04 17:56:00	68.46	56.834	0.001
1/31/04 17:57:00	68.46	56.834	0.001
1/31/04 17:58:00	68.46	56.834	0.001
1/31/04 17:59:00	68.46	56.833	0.002
1/31/04 18:00:00	68.48	56.832	0.003
1/31/04 18:01:00	68.48	56.832	0.003
1/31/04 18:02:00	68.48	56.832	0.003
1/31/04 18:03:00	68.48	56.832	0.003
1/31/04 18:04:00	68.48	56.832	0.003
1/31/04 18:05:00	68.48	56.831	0.004
1/31/04 18:06:00	68.48	56.830	0.005
1/31/04 18:07:00	68.48	56.831	0.004
1/31/04 18:08:00	68.48	56.831	0.004
1/31/04 18:09:00	68.50	56.831	0.004
1/31/04 18:10:00	68.49	56.830	0.005
1/31/04 18:11:00	68.51	56.830	0.005
1/31/04 18:12:00	68.51	56.830	0.005
1/31/04 18:13:00	68.51	56.830	0.005
1/31/04 18:14:00	68.51	56.829	0.006
1/31/04 18:15:00	68.51	56.828	0.007
1/31/04 18:16:00	68.51	56.827	0.008
1/31/04 18:17:00	68.52	56.827	0.008
1/31/04 18:18:00	68.53	56.826	0.009
1/31/04 18:19:00	68.53	56.827	0.008
1/31/04 18:20:00	68.53	56.827	0.008
1/31/04 18:21:00	68.53	56.827	0.008
1/31/04 18:22:00	68.53	56.827	0.008
1/31/04 18:23:00	68.54	56.825	0.010
1/31/04 18:24:00	68.54	56.825	0.010
1/31/04 18:25:00	68.55	56.827	0.008
1/31/04 18:26:00	68.55	56.825	0.010
1/31/04 18:27:00	68.55	56.825	0.010
1/31/04 18:28:00	68.55	56.825	0.010
1/31/04 18:29:00	68.55	56.824	0.011
1/31/04 18:30:00	68.57	56.824	0.011
1/31/04 18:31:00	68.57	56.824	0.011
1/31/04 18:32:00	68.57	56.822	0.013
1/31/04 18:33:00	68.57	56.822	0.013
1/31/04 18:34:00	68.57	56.822	0.013
1/31/04 18:35:00	68.58	56.821	0.014
1/31/04 18:36:00	68.59	56.822	0.013
1/31/04 18:37:00	68.60	56.820	0.015
1/31/04 18:38:00	68.60	56.820	0.015
1/31/04 18:39:00	68.60	56.819	0.016
1/31/04 18:40:00	68.60	56.819	0.016
1/31/04 18:41:00	68.60	56.818	0.017
1/31/04 18:42:00	68.61	56.818	0.017
1/31/04 18:43:00	68.62	56.819	0.016
1/31/04 18:44:00	68.62	56.818	0.017
1/31/04 18:45:00	68.62	56.818	0.017
1/31/04 18:46:00	68.62	56.818	0.017
1/31/04 18:47:00	68.62	56.818	0.017
1/31/04 18:48:00	68.64	56.818	0.017
1/31/04 18:49:00	68.64	56.818	0.017
1/31/04 18:50:00	68.64	56.818	0.017
1/31/04 18:51:00	68.64	56.817	0.018
1/31/04 18:52:00	68.64	56.816	0.019
1/31/04 18:53:00	68.65	56.816	0.019
1/31/04 18:54:00	68.66	56.816	0.019
1/31/04 18:55:00	68.66	56.816	0.019
1/31/04 18:56:00	68.66	56.816	0.019
1/31/04 18:57:00	68.66	56.816	0.019
1/31/04 18:58:00	68.66	56.816	0.019
1/31/04 18:59:00	68.68	56.815	0.020
1/31/04 19:00:00	68.69	56.815	0.020
1/31/04 19:01:00	68.69	56.814	0.021
1/31/04 19:02:00	68.69	56.813	0.022
1/31/04 19:03:00	68.69	56.813	0.022
1/31/04 19:04:00	68.69	56.813	0.022
1/31/04 19:05:00	68.71	56.814	0.021
1/31/04 19:06:00	68.71	56.813	0.022
1/31/04 19:07:00	68.71	56.813	0.022
1/31/04 19:08:00	68.71	56.811	0.024
1/31/04 19:09:00	68.71	56.812	0.023
1/31/04 19:10:00	68.71	56.811	0.024
1/31/04 19:11:00	68.73	56.811	0.024
1/31/04 19:12:00	68.73	56.810	0.025
1/31/04 19:13:00	68.73	56.810	0.025
1/31/04 19:14:00	68.73	56.811	0.024
1/31/04 19:15:00	68.73	56.810	0.025
1/31/04 19:16:00	68.73	56.810	0.025
1/31/04 19:17:00	68.74	56.809	0.026
1/31/04 19:18:00	68.75	56.810	0.025
1/31/04 19:19:00	68.75	56.810	0.025
1/31/04 19:20:00	68.75	56.809	0.026
1/31/04 19:21:00	68.75	56.808	0.027
1/31/04 19:22:00	68.75	56.809	0.026
1/31/04 19:23:00	68.75	56.809	0.026
1/31/04 19:24:00	68.77	56.808	0.027
1/31/04 19:25:00	68.77	56.808	0.027
1/31/04 19:26:00	68.78	56.807	0.028
1/31/04 19:27:00	68.78	56.807	0.028
1/31/04 19:28:00	68.78	56.808	0.027
1/31/04 19:29:00	68.78	56.808	0.027
1/31/04 19:30:00	68.78	56.808	0.027
1/31/04 19:31:00	68.78	56.808	0.027
1/31/04 19:32:00	68.78	56.808	0.027
1/31/04 19:33:00	68.79	56.807	0.028
1/31/04 19:34:00	68.80	56.808	0.027
1/31/04 19:35:00	68.80	56.807	0.028
1/31/04 19:36:00	68.80	56.807	0.028
1/31/04 19:37:00	68.80	56.807	0.028
1/31/04 19:38:00	68.80	56.807	0.028
1/31/04 19:39:00	68.80	56.806	0.029
1/31/04 19:40:00	68.81	56.807	0.028
1/31/04 19:41:00	68.82	56.806	0.029
1/31/04 19:42:00	68.82	56.807	0.028
1/31/04 19:43:00	68.82	56.807	0.028
1/31/04 19:44:00	68.82	56.806	0.029
1/31/04 19:45:00	68.82	56.805	0.030
1/31/04 19:46:00	68.82	56.805	0.030
1/31/04 19:47:00	68.82	56.806	0.029
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1/31/04 19:49:00	68.82	56.804	0.031
1/31/04 19:50:00	68.83	56.805	0.030
1/31/04 19:51:00	68.84	56.805	0.030
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1/31/04 19:54:00	68.84	56.803	0.032
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1/31/04 19:57:00	68.84	56.803	0.032
1/31/04 19:58:00	68.84	56.803	0.032
1/31/04 19:59:00	68.86	56.801	0.034
1/31/04 20:00:00	68.86	56.801	0.034
1/31/04 20:01:00	68.86	56.800	0.035
1/31/04 20:02:00	68.87	56.801	0.034
1/31/04 20:03:00	68.87	56.800	0.035
1/31/04 20:04:00	68.87	56.800	0.035
1/31/04 20:05:00	68.87	56.799	0.036
1/31/04 20:06:00	68.87	56.799	0.036
1/31/04 20:07:00	68.87	56.799	0.036
1/31/04 20:08:00	68.88	56.799	0.036
1/31/04 20:09:00	68.87	56.799	0.036
1/31/04 20:10:00	68.87	56.798	0.037
1/31/04 20:11:00	68.89	56.797	0.038
1/31/04 20:12:00	68.89	56.797	0.038
1/31/04 20:13:00	68.89	56.798	0.037
1/31/04 20:14:00	68.89	56.798	0.037
1/31/04 20:15:00	68.89	56.797	0.038
1/31/04 20:16:00	68.89	56.796	0.039
1/31/04 20:17:00	68.89	56.796	0.039
1/31/04 20:18:00	68.89	56.796	0.039
1/31/04 20:19:00	68.89	56.796	0.039
1/31/04 20:20:00	68.89	56.796	0.039
1/31/04 20:21:00	68.90	56.796	0.039
1/31/04 20:22:00	68.91	56.796	0.039
1/31/04 20:23:00	68.91	56.796	0.039
1/31/04 20:24:00	68.91	56.796	0.039
1/31/04 20:25:00	68.91	56.796	0.039
1/31/04 20:26:00	68.91	56.796	0.039
1/31/04 20:27:00	68.91	56.796	0.039
1/31/04 20:28:00	68.91	56.796	0.039
1/31/04 20:29:00	68.91	56.796	0.039
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1/31/04 20:31:00	68.91	56.796	0.039
1/31/04 20:32:00	68.91	56.796	0.039
1/31/04 20:33:00	68.91	56.795	0.040
1/31/04 20:34:00	68.91	56.796	0.039
1/31/04 20:35:00	68.92	56.795	0.040
1/31/04 20:36:00	68.91	56.795	0.040
1/31/04 20:37:00	68.91	56.796	0.039
1/31/04 20:38:00	68.94	56.794	0.041
1/31/04 20:39:00	68.94	56.794	0.041
1/31/04 20:40:00	68.94	56.794	0.041
1/31/04 20:41:00	68.94	56.795	0.040
1/31/04 20:42:00	68.94	56.794	0.041
1/31/04 20:43:00	68.94	56.794	0.041
1/31/04 20:44:00	68.94	56.794	0.041
1/31/04 20:45:00	68.94	56.794	0.041
1/31/04 20:46:00	68.94	56.794	0.041
1/31/04 20:47:00	68.94	56.794	0.041
1/31/04 20:48:00	68.94	56.794	0.041
1/31/04 20:49:00	68.94	56.794	0.041
1/31/04 20:50:00	68.94	56.793	0.042
1/31/04 20:51:00	68.94	56.793	0.042
1/31/04 20:52:00	68.95	56.794	0.041
1/31/04 20:53:00	68.95	56.793	0.042
1/31/04 20:54:00	68.96	56.793	0.042
1/31/04 20:55:00	68.96	56.793	0.042
1/31/04 20:56:00	68.96	56.793	0.042
1/31/04 20:57:00	68.95	56.793	0.042
1/31/04 20:58:00	68.96	56.792	0.043
1/31/04 20:59:00	68.96	56.793	0.042
1/31/04 21:00:00	68.96	56.793	0.042
1/31/04 21:01:00	68.96	56.792	0.043
1/31/04 21:02:00	68.96	56.793	0.042
1/31/04 21:03:00	68.96	56.792	0.043
1/31/04 21:04:00	68.96	56.792	0.043
1/31/04 21:05:00	68.96	56.792	0.043
1/31/04 21:06:00	68.96	56.792	0.043
1/31/04 21:07:00	68.96	56.792	0.043
1/31/04 21:08:00	68.96	56.791	0.044
1/31/04 21:09:00	68.96	56.791	0.044
1/31/04 21:10:00	68.96	56.792	0.043
1/31/04 21:11:00	68.96	56.791	0.044
1/31/04 21:12:00	68.96	56.792	0.043
1/31/04 21:13:00	68.96	56.792	0.043
1/31/04 21:14:00	68.97	56.793	0.042
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1/31/04 21:16:00	68.97	56.791	0.044
1/31/04 21:17:00	68.98	56.792	0.043
1/31/04 21:18:00	68.98	56.792	0.043
1/31/04 21:19:00	68.98	56.792	0.043
1/31/04 21:20:00	68.98	56.791	0.044
1/31/04 21:21:00	68.98	56.792	0.043
1/31/04 21:22:00	68.98	56.791	0.044
1/31/04 21:23:00	68.98	56.792	0.043
1/31/04 21:24:00	68.98	56.792	0.043
1/31/04 21:25:00	68.98	56.792	0.043
1/31/04 21:26:00	68.98	56.792	0.043
1/31/04 21:27:00	68.98	56.792	0.043
1/31/04 21:28:00	68.98	56.792	0.043
1/31/04 21:29:00	68.98	56.793	0.042
1/31/04 21:30:00	68.98	56.792	0.043
1/31/04 21:31:00	68.98	56.793	0.042
1/31/04 21:32:00	68.98	56.793	0.042
1/31/04 21:33:00	68.98	56.791	0.044
1/31/04 21:34:00	68.98	56.791	0.044
1/31/04 21:35:00	68.98	56.791	0.044
1/31/04 21:36:00	68.99	56.791	0.044
1/31/04 21:37:00	68.98	56.791	0.044
1/31/04 21:38:00	68.98	56.791	0.044
1/31/04 21:39:00	69.00	56.791	0.044
1/31/04 21:40:00	68.99	56.791	0.044
1/31/04 21:41:00	69.00	56.791	0.044
1/31/04 21:42:00	69.00	56.791	0.044
1/31/04 21:43:00	68.99	56.791	0.044
1/31/04 21:44:00	69.00	56.791	0.044
1/31/04 21:45:00	69.00	56.790	0.045
1/31/04 21:46:00	69.00	56.791	0.044
1/31/04 21:47:00	69.00	56.791	0.044
1/31/04 21:48:00	69.00	56.791	0.044
1/31/04 21:49:00	69.00	56.790	0.045
1/31/04 21:50:00	69.00	56.791	0.044
1/31/04 21:51:00	69.00	56.790	0.045
1/31/04 21:52:00	69.00	56.790	0.045
1/31/04 21:53:00	69.00	56.791	0.044
1/31/04 21:54:00	69.00	56.791	0.044
1/31/04 21:55:00	69.00	56.790	0.045
1/31/04 21:56:00	69.00	56.790	0.045
1/31/04 21:57:00	69.00	56.789	0.046
1/31/04 21:58:00	69.00	56.790	0.045
1/31/04 21:59:00	69.00	56.790	0.045
1/31/04 22:00:00	69.00	56.789	0.046
1/31/04 22:01:00	69.00	56.789	0.046
1/31/04 22:02:00	69.01	56.789	0.046
1/31/04 22:03:00	69.00	56.789	0.046
1/31/04 22:04:00	69.00	56.790	0.045
1/31/04 22:05:00	69.00	56.789	0.046
1/31/04 22:06:00	69.01	56.790	0.045
1/31/04 22:07:00	69.00	56.789	0.046
1/31/04 22:08:00	69.01	56.790	0.045
1/31/04 22:09:00	69.03	56.789	0.046
1/31/04 22:10:00	69.01	56.789	0.046
1/31/04 22:11:00	69.02	56.790	0.045
1/31/04 22:12:00	69.02	56.789	0.046
1/31/04 22:13:00	69.01	56.789	0.046
1/31/04 22:14:00	69.02	56.790	0.045
1/31/04 22:15:00	69.01	56.790	0.045
1/31/04 22:16:00	69.03	56.790	0.045
1/31/04 22:17:00	69.03	56.789	0.046
1/31/04 22:18:00	69.03	56.790	0.045
1/31/04 22:19:00	69.03	56.789	0.046
1/31/04 22:20:00	69.03	56.789	0.046
1/31/04 22:21:00	69.03	56.789	0.046
1/31/04 22:22:00	69.03	56.790	0.045
1/31/04 22:23:00	69.03	56.790	0.045
1/31/04 22:24:00	69.03	56.789	0.046
1/31/04 22:25:00	69.03	56.789	0.046
1/31/04 22:26:00	69.03	56.789	0.046
1/31/04 22:27:00	69.03	56.789	0.046
1/31/04 22:28:00	69.03	56.789	0.046
1/31/04 22:29:00	69.03	56.790	0.045
1/31/04 22:30:00	69.03	56.790	0.045
1/31/04 22:31:00	69.03	56.790	0.045
1/31/04 22:32:00	69.03	56.789	0.046
1/31/04 22:33:00	69.03	56.789	0.046
1/31/04 22:34:00	69.03	56.789	0.046
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1/31/04 22:36:00	69.03	56.789	0.046
1/31/04 22:37:00	69.03	56.790	0.045
1/31/04 22:38:00	69.03	56.790	0.045
1/31/04 22:39:00	69.03	56.790	0.045
1/31/04 22:40:00	69.03	56.789	0.046
1/31/04 22:41:00	69.03	56.790	0.045
1/31/04 22:42:00	69.03	56.789	0.046
1/31/04 22:43:00	69.03	56.789	0.046
1/31/04 22:44:00	69.03	56.790	0.045
1/31/04 22:45:00	69.03	56.789	0.046
1/31/04 22:46:00	69.03	56.790	0.045
1/31/04 22:47:00	69.03	56.789	0.046
1/31/04 22:48:00	69.03	56.790	0.045
1/31/04 22:49:00	69.03	56.789	0.046
1/31/04 22:50:00	69.03	56.789	0.046
1/31/04 22:51:00	69.03	56.790	0.045
1/31/04 22:52:00	69.03	56.788	0.047
1/31/04 22:53:00	69.03	56.789	0.046
1/31/04 22:54:00	69.04	56.790	0.045
1/31/04 22:55:00	69.04	56.789	0.046
1/31/04 22:56:00	69.03	56.790	0.045
1/31/04 22:57:00	69.05	56.788	0.047
1/31/04 22:58:00	69.04	56.789	0.046
1/31/04 22:59:00	69.04	56.788	0.047
1/31/04 23:00:00	69.04	56.788	0.047
1/31/04 23:01:00	69.04	56.788	0.047
1/31/04 23:02:00	69.04	56.788	0.047
1/31/04 23:03:00	69.04	56.788	0.047
1/31/04 23:04:00	69.05	56.788	0.047
1/31/04 23:05:00	69.04	56.788	0.047
1/31/04 23:06:00	69.04	56.788	0.047
1/31/04 23:07:00	69.04	56.789	0.046
1/31/04 23:08:00	69.05	56.788	0.047
1/31/04 23:09:00	69.05	56.788	0.047
1/31/04 23:10:00	69.05	56.788	0.047
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1/31/04 23:12:00	69.05	56.787	0.048
1/31/04 23:13:00	69.05	56.788	0.047
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1/31/04 23:15:00	69.05	56.788	0.047
1/31/04 23:16:00	69.05	56.787	0.048
1/31/04 23:17:00	69.05	56.788	0.047
1/31/04 23:18:00	69.05	56.788	0.047
1/31/04 23:19:00	69.05	56.788	0.047
1/31/04 23:20:00	69.05	56.788	0.047
1/31/04 23:21:00	69.05	56.788	0.047
1/31/04 23:22:00	69.05	56.789	0.046
1/31/04 23:23:00	69.05	56.788	0.047
1/31/04 23:24:00	69.05	56.788	0.047
1/31/04 23:25:00	69.05	56.788	0.047
1/31/04 23:26:00	69.05	56.788	0.047
1/31/04 23:27:00	69.05	56.787	0.048
1/31/04 23:28:00	69.05	56.789	0.046
1/31/04 23:29:00	69.05	56.788	0.047
1/31/04 23:30:00	69.05	56.788	0.047
1/31/04 23:31:00	69.05	56.789	0.046
1/31/04 23:32:00	69.05	56.789	0.046
1/31/04 23:33:00	69.05	56.788	0.047
1/31/04 23:34:00	69.05	56.788	0.047
1/31/04 23:35:00	69.05	56.788	0.047
1/31/04 23:36:00	69.05	56.788	0.047
1/31/04 23:37:00	69.05	56.789	0.046
1/31/04 23:38:00	69.05	56.788	0.047
1/31/04 23:39:00	69.05	56.789	0.046
1/31/04 23:40:00	69.05	56.789	0.046
1/31/04 23:41:00	69.05	56.790	0.045
1/31/04 23:42:00	69.05	56.789	0.046
1/31/04 23:43:00	69.05	56.788	0.047
1/31/04 23:44:00	69.05	56.789	0.046
1/31/04 23:45:00	69.05	56.789	0.046
1/31/04 23:46:00	69.05	56.789	0.046
1/31/04 23:47:00	69.05	56.789	0.046
1/31/04 23:48:00	69.05	56.788	0.047
1/31/04 23:49:00	69.05	56.788	0.047
1/31/04 23:50:00	69.05	56.788	0.047
1/31/04 23:51:00	69.05	56.789	0.046
1/31/04 23:52:00	69.05	56.789	0.046
1/31/04 23:53:00	69.05	56.788	0.047
1/31/04 23:54:00	69.05	56.788	0.047
1/31/04 23:55:00	69.05	56.788	0.047
1/31/04 23:56:00	69.05	56.789	0.046
1/31/04 23:57:00	69.05	56.789	0.046
1/31/04 23:58:00	69.05	56.789	0.046
1/31/04 23:59:00	69.05	56.789	0.046
2/1/04 0:00:00	69.05	56.790	0.045
2/1/04 0:01:00	69.05	56.789	0.046
2/1/04 0:02:00	69.05	56.789	0.046
2/1/04 0:03:00	69.05	56.790	0.045
2/1/04 0:04:00	69.05	56.789	0.046
2/1/04 0:05:00	69.05	56.788	0.047
2/1/04 0:06:00	69.05	56.788	0.047
2/1/04 0:07:00	69.05	56.788	0.047
2/1/04 0:08:00	69.05	56.788	0.047
2/1/04 0:09:00	69.05	56.788	0.047
2/1/04 0:10:00	69.05	56.788	0.047
2/1/04 0:11:00	69.05	56.788	0.047
2/1/04 0:12:00	69.05	56.788	0.047
2/1/04 0:13:00	69.05	56.788	0.047
2/1/04 0:14:00	69.05	56.788	0.047
2/1/04 0:15:00	69.05	56.788	0.047
2/1/04 0:16:00	69.05	56.789	0.046
2/1/04 0:17:00	69.05	56.788	0.047
2/1/04 0:18:00	69.05	56.788	0.047
2/1/04 0:19:00	69.05	56.788	0.047
2/1/04 0:20:00	69.05	56.788	0.047
2/1/04 0:21:00	69.05	56.788	0.047
2/1/04 0:22:00	69.05	56.788	0.047
2/1/04 0:23:00	69.05	56.788	0.047
2/1/04 0:24:00	69.05	56.788	0.047
2/1/04 0:25:00	69.05	56.788	0.047
2/1/04 0:26:00	69.05	56.788	0.047
2/1/04 0:27:00	69.05	56.788	0.047
2/1/04 0:28:00	69.05	56.788	0.047
2/1/04 0:29:00	69.05	56.788	0.047
2/1/04 0:30:00	69.05	56.788	0.047
2/1/04 0:31:00	69.05	56.788	0.047
2/1/04 0:32:00	69.05	56.788	0.047
2/1/04 0:33:00	69.05	56.788	0.047
2/1/04 0:34:00	69.05	56.786	0.049
2/1/04 0:35:00	69.05	56.788	0.047
2/1/04 0:36:00	69.05	56.787	0.048
2/1/04 0:37:00	69.05	56.787	0.048
2/1/04 0:38:00	69.05	56.788	0.047
2/1/04 0:39:00	69.05	56.788	0.047
2/1/04 0:40:00	69.05	56.788	0.047
2/1/04 0:41:00	69.05	56.788	0.047
2/1/04 0:42:00	69.05	56.789	0.046
2/1/04 0:43:00	69.05	56.788	0.047
2/1/04 0:44:00	69.05	56.789	0.046
2/1/04 0:45:00	69.05	56.788	0.047
2/1/04 0:46:00	69.05	56.788	0.047
2/1/04 0:47:00	69.05	56.788	0.047
2/1/04 0:48:00	69.05	56.788	0.047
2/1/04 0:49:00	69.05	56.788	0.047
2/1/04 0:50:00	69.05	56.789	0.046
2/1/04 0:51:00	69.05	56.788	0.047
2/1/04 0:52:00	69.05	56.788	0.047
2/1/04 0:53:00	69.05	56.787	0.048
2/1/04 0:54:00	69.05	56.789	0.046
2/1/04 0:55:00	69.05	56.788	0.047
2/1/04 0:56:00	69.05	56.788	0.047
2/1/04 0:57:00	69.05	56.788	0.047
2/1/04 0:58:00	69.05	56.788	0.047
2/1/04 0:59:00	69.05	56.788	0.047
2/1/04 1:00:00	69.05	56.789	0.046
2/1/04 1:01:00	69.05	56.788	0.047
2/1/04 1:02:00	69.05	56.788	0.047
2/1/04 1:03:00	69.05	56.788	0.047
2/1/04 1:04:00	69.05	56.788	0.047
2/1/04 1:05:00	69.05	56.788	0.047
2/1/04 1:06:00	69.05	56.788	0.047
2/1/04 1:07:00	69.05	56.787	0.048
2/1/04 1:08:00	69.05	56.788	0.047
2/1/04 1:09:00	69.05	56.788	0.047
2/1/04 1:10:00	69.05	56.788	0.047
2/1/04 1:11:00	69.05	56.788	0.047
2/1/04 1:12:00	69.05	56.789	0.046
2/1/04 1:13:00	69.05	56.788	0.047
2/1/04 1:14:00	69.05	56.788	0.047
2/1/04 1:15:00	69.05	56.788	0.047
2/1/04 1:16:00	69.05	56.789	0.046
2/1/04 1:17:00	69.05	56.788	0.047
2/1/04 1:18:00	69.05	56.788	0.047
2/1/04 1:19:00	69.05	56.788	0.047
2/1/04 1:20:00	69.05	56.788	0.047
2/1/04 1:21:00	69.05	56.788	0.047
2/1/04 1:22:00	69.05	56.788	0.047
2/1/04 1:23:00	69.05	56.788	0.047
2/1/04 1:24:00	69.05	56.789	0.046
2/1/04 1:25:00	69.05	56.788	0.047
2/1/04 1:26:00	69.05	56.788	0.047
2/1/04 1:27:00	69.05	56.788	0.047

2/1/04 1:28:00	69.05	56.789	0.046	
2/1/04 1:29:00	69.05	56.788	0.047	
2/1/04 1:30:00	69.05	56.789	0.046	
2/1/04 1:31:00	69.05	56.788	0.047	
2/1/04 1:32:00	69.05	56.788	0.047	
2/1/04 1:33:00	69.05	56.788	0.047	
2/1/04 1:34:00	69.05	56.788	0.047	
2/1/04 1:35:00	69.05	56.788	0.047	
2/1/04 1:36:00	69.05	56.788	0.047	
2/1/04 1:37:00	69.05	56.788	0.047	
2/1/04 1:38:00	69.05	56.788	0.047	
2/1/04 1:39:00	69.05	56.788	0.047	
2/1/04 1:40:00	69.05	56.788	0.047	
2/1/04 1:41:00	69.05	56.788	0.047	
2/1/04 1:42:00	69.05	56.788	0.047	
2/1/04 1:43:00	69.05	56.789	0.046	
2/1/04 1:44:00	69.05	56.789	0.046	
2/1/04 1:45:00	69.05	56.788	0.047	
2/1/04 1:46:00	69.05	56.788	0.047	
2/1/04 1:47:00	69.05	56.789	0.046	
2/1/04 1:48:00	69.05	56.788	0.047	
2/1/04 1:49:00	69.05	56.789	0.046	
2/1/04 1:50:00	69.05	56.789	0.046	
2/1/04 1:51:00	69.05	56.788	0.047	
2/1/04 1:52:00	69.04	56.788	0.047	
2/1/04 1:53:00	69.05	56.789	0.046	
2/1/04 1:54:00	69.05	56.788	0.047	
2/1/04 1:55:00	69.05	56.788	0.047	
2/1/04 1:56:00	69.05	56.789	0.046	
2/1/04 1:57:00	69.05	56.788	0.047	
2/1/04 1:58:00	69.05	56.788	0.047	
2/1/04 1:59:00	69.05	56.788	0.047	
2/1/04 2:00:00	69.05	56.788	0.047	
2/1/04 2:01:00	69.05	56.789	0.046	
2/1/04 2:02:00	69.05	56.788	0.047	
2/1/04 2:03:00	69.05	56.788	0.047	
2/1/04 2:04:00	69.05	56.789	0.046	
2/1/04 2:05:00	69.05	56.788	0.047	
2/1/04 2:06:00	69.05	56.788	0.047	
2/1/04 2:07:00	69.05	56.788	0.047	
2/1/04 2:08:00	69.05	56.788	0.047	
2/1/04 2:09:00	69.05	56.788	0.047	
2/1/04 2:10:00	69.05	56.788	0.047	
2/1/04 2:11:00	69.04	56.788	0.047	
2/1/04 2:12:00	69.05	56.789	0.046	
2/1/04 2:13:00	69.05	56.789	0.046	
2/1/04 2:14:00	69.05	56.788	0.047	
2/1/04 2:15:00	69.05	56.788	0.047	
2/1/04 2:16:00	69.05	56.789	0.046	
2/1/04 2:17:00	69.05	56.788	0.047	
2/1/04 2:18:00	69.05	56.788	0.047	
2/1/04 2:19:00	69.05	56.788	0.047	
2/1/04 2:20:00	69.05	56.788	0.047	
2/1/04 2:21:00	69.05	56.788	0.047	
2/1/04 2:22:00	69.05	56.789	0.046	
2/1/04 2:23:00	69.04	56.789	0.046	
2/1/04 2:24:00	69.04	56.789	0.046	
2/1/04 2:25:00	69.03	56.789	0.046	
2/1/04 2:26:00	69.03	56.790	0.045	
2/1/04 2:27:00	69.05	56.789	0.046	
2/1/04 2:28:00	69.04	56.789	0.046	
2/1/04 2:29:00	69.04	56.788	0.047	
2/1/04 2:30:00	69.04	56.789	0.046	
2/1/04 2:31:00	69.04	56.788	0.047	
2/1/04 2:32:00	69.04	56.789	0.046	
2/1/04 2:33:00	69.03	56.788	0.047	
2/1/04 2:34:00	69.03	56.788	0.047	
2/1/04 2:35:00	69.04	56.790	0.045	
2/1/04 2:36:00	69.04	56.789	0.046	
2/1/04 2:37:00	69.04	56.788	0.047	
2/1/04 2:38:00	69.03	56.789	0.046	
2/1/04 2:39:00	69.04	56.790	0.045	
2/1/04 2:40:00	69.04	56.788	0.047	
2/1/04 2:41:00	69.03	56.789	0.046	
2/1/04 2:42:00	69.03	56.789	0.046	
2/1/04 2:43:00	69.03	56.788	0.047	
2/1/04 2:44:00	69.03	56.789	0.046	
2/1/04 2:45:00	69.03	56.789	0.046	
2/1/04 2:46:00	69.03	56.789	0.046	
2/1/04 2:47:00	69.03	56.789	0.046	
2/1/04 2:48:00	69.03	56.789	0.046	
2/1/04 2:49:00	69.03	56.789	0.046	
2/1/04 2:50:00	69.03	56.788	0.047	
2/1/04 2:51:00	69.03	56.788	0.047	
2/1/04 2:52:00	69.03	56.789	0.046	
2/1/04 2:53:00	69.03	56.789	0.046	
2/1/04 2:54:00	69.03	56.788	0.047	
2/1/04 2:55:00	69.03	56.789	0.046	
2/1/04 2:56:00	69.03	56.789	0.046	
2/1/04 2:57:00	69.03	56.789	0.046	
2/1/04 2:58:00	69.03	56.789	0.046	
2/1/04 2:59:00	69.03	56.789	0.046	
2/1/04 3:00:00	69.03	56.789	0.046	
2/1/04 3:01:00	69.03	56.789	0.046	
2/1/04 3:02:00	69.03	56.789	0.046	
2/1/04 3:03:00	69.03	56.789	0.046	
2/1/04 3:04:00	69.03	56.789	0.046	
2/1/04 3:05:00	69.03	56.789	0.046	
2/1/04 3:06:00	69.03	56.789	0.046	
2/1/04 3:07:00	69.03	56.789	0.046	
2/1/04 3:08:00	69.03	56.788	0.047	
2/1/04 3:09:00	69.03	56.788	0.047	
2/1/04 3:10:00	69.03	56.789	0.046	
2/1/04 3:11:00	69.03	56.788	0.047	
2/1/04 3:12:00	69.03	56.789	0.046	
2/1/04 3:13:00	69.03	56.789	0.046	
2/1/04 3:14:00	69.03	56.789	0.046	
2/1/04 3:15:00	69.03	56.789	0.046	
2/1/04 3:16:00	69.03	56.789	0.046	
2/1/04 3:17:00	69.03	56.789	0.046	
2/1/04 3:18:00	69.03	56.789	0.046	
2/1/04 3:19:00	69.03	56.789	0.046	
2/1/04 3:20:00	69.03	56.789	0.046	
2/1/04 3:21:00	69.03	56.789	0.046	
2/1/04 3:22:00	69.03	56.789	0.046	
2/1/04 3:23:00	69.03	56.789	0.046	
2/1/04 3:24:00	69.03	56.789	0.046	
2/1/04 3:25:00	69.03	56.789	0.046	
2/1/04 3:26:00	69.03	56.789	0.046	
2/1/04 3:27:00	69.03	56.789	0.046	
2/1/04 3:28:00	69.03	56.788	0.047	
2/1/04 3:29:00	69.03	56.789	0.046	
2/1/04 3:30:00	69.03	56.789	0.046	
2/1/04 3:31:00	69.03	56.788	0.047	
2/1/04 3:32:00	69.03	56.789	0.046	
2/1/04 3:33:00	69.03	56.789	0.046	
2/1/04 3:34:00	69.03	56.789	0.046	
2/1/04 3:35:00	69.03	56.789	0.046	
2/1/04 3:36:00	69.03	56.789	0.046	
2/1/04 3:37:00	69.03	56.789	0.046	
2/1/04 3:38:00	69.03	56.788	0.047	
2/1/04 3:39:00	69.03	56.787	0.048	
2/1/04 3:40:00	69.03	56.789	0.046	
2/1/04 3:41:00	69.03	56.789	0.046	
2/1/04 3:42:00	69.03	56.788	0.047	
2/1/04 3:43:00	69.03	56.788	0.047	
2/1/04 3:44:00	69.03	56.788	0.047	
2/1/04 3:45:00	69.03	56.789	0.046	
2/1/04 3:46:00	69.03	56.789	0.046	
2/1/04 3:47:00	69.03	56.789	0.046	
2/1/04 3:48:00	69.03	56.789	0.046	
2/1/04 3:49:00	69.03	56.789	0.046	
2/1/04 3:50:00	69.03	56.789	0.046	
2/1/04 3:51:00	69.03	56.789	0.046	
2/1/04 3:52:00	69.03	56.789	0.046	
2/1/04 3:53:00	69.03	56.789	0.046	
2/1/04 3:54:00	69.03	56.789	0.046	
2/1/04 3:55:00	69.03	56.789	0.046	
2/1/04 3:56:00	69.03	56.789	0.046	
2/1/04 3:57:00	69.03	56.789	0.046	
2/1/04 3:58:00	69.03	56.789	0.046	
2/1/04 3:59:00	69.03	56.789	0.046	
2/1/04 4:00:00	69.03	56.790	0.045	
2/1/04 4:01:00	69.03	56.789	0.046	
2/1/04 4:02:00	69.03	56.789	0.046	
2/1/04 4:03:00	69.03	56.789	0.046	
2/1/04 4:04:00	69.03	56.789	0.046	
2/1/04 4:05:00	69.03	56.789	0.046	
2/1/04 4:06:00	69.03	56.789	0.046	
2/1/04 4:07:00	69.03	56.790	0.045	
2/1/04 4:08:00	69.03	56.790	0.045	
2/1/04 4:09:00	69.03	56.789	0.046	
2/1/04 4:10:00	69.03	56.790	0.045	
2/1/04 4:11:00	69.03	56.790	0.045	
2/1/04 4:12:00	69.03	56.789	0.046	
2/1/04 4:13:00	69.03	56.789	0.046	
2/1/04 4:14:00	69.03	56.789	0.046	
2/1/04 4:15:00	69.03	56.789	0.046	
2/1/04 4:16:00	69.03	56.789	0.046	
2/1/04 4:17:00	69.03	56.790	0.045	
2/1/04 4:18:00	69.03	56.790	0.045	
2/1/04 4:19:00	69.03	56.790	0.045	
2/1/04 4:20:00	69.03	56.789	0.046	
2/1/04 4:21:00	69.03	56.789	0.046	
2/1/04 4:22:00	69.03	56.789	0.046	
2/1/04 4:23:00	69.03	56.790	0.045	
2/1/04 4:24:00	69.03	56.790	0.045	
2/1/04 4:25:00	69.03	56.789	0.046	
2/1/04 4:26:00	69.03	56.789	0.046	
2/1/04 4:27:00	69.03	56.790	0.045	
2/1/04 4:28:00	69.03	56.790	0.045	
2/1/04 4:29:00	69.03	56.790	0.045	
2/1/04 4:30:00	69.03	56.790	0.045	
2/1/04 4:31:00	69.03	56.790	0.045	
2/1/04 4:32:00	69.03	56.790	0.045	
2/1/04 4:33:00	69.03	56.790	0.045	
2/1/04 4:34:00	69.03	56.790	0.045	
2/1/04 4:35:00	69.00	56.790	0.045	
2/1/04 4:36:00	69.01	56.790	0.045	
2/1/04 4:37:00	69.01	56.789	0.046	
2/1/04 4:38:00	69.00	56.790	0.045	
2/1/04 4:39:00	69.00	56.789	0.046	
2/1/04 4:40:00	69.01	56.790	0.045	
2/1/04 4:41:00	69.01	56.791	0.044	
2/1/04 4:42:00	69.01	56.790	0.045	
2/1/04 4:43:00	69.01	56.790	0.045	
2/1/04 4:44:00	69.01	56.791	0.044	
2/1/04 4:45:00	69.01	56.790	0.045	
2/1/04 4:46:00	69.00	56.791	0.044	
2/1/04 4:47:00	69.01	56.790	0.045	
2/1/04 4:48:00	69.00	56.791	0.044	
2/1/04 4:49:00	69.00	56.790	0.045	
2/1/04 4:50:00	69.00	56.789	0.046	
2/1/04 4:51:00	69.00	56.790	0.045	
2/1/04 4:52:00	69.00	56.790	0.045	
2/1/04 4:53:00	69.00	56.791	0.044	
2/1/04 4:54:00	69.00	56.790	0.045	
2/1/04 4:55:00	69.00	56.790	0.045	
2/1/04 4:56:00	69.00	56.790	0.045	
2/1/04 4:57:00	69.00	56.791	0.044	
2/1/04 4:58:00	69.00	56.791	0.044	
2/1/04 4:59:00	69.00	56.791	0.044	
2/1/04 5:00:00	69.00	56.791	0.044	
2/1/04 5:01:00	69.00	56.791	0.044	
2/1/04 5:02:00	69.00	56.791	0.044	
2/1/04 5:03:00	69.00	56.791	0.044	
2/1/04 5:04:00	69.00	56.791	0.044	
2/1/04 5:05:00	69.00	56.791	0.044	
2/1/04 5:06:00	69.00	56.791	0.044	
2/1/04 5:07:00	69.00	56.791	0.044	
2/1/04 5:08:00	69.00	56.791	0.044	
2/1/04 5:09:00	69.00	56.791	0.044	
2/1/04 5:10:00	69.00	56.791	0.044	
2/1/04 5:11:00	69.00	56.791	0.044	
2/1/04 5:12:00	69.00	56.792	0.043	
2/1/04 5:13:00	69.00	56.791	0.044	
2/1/04 5:14:00	69.00	56.791	0.044	
2/1/04 5:15:00	69.00	56.791	0.044	
2/1/04 5:16:00	69.00	56.791	0.044	
2/1/04 5:17:00	69.00	56.791	0.044	
2/1/04 5:18:00	69.00	56.791	0.044	
2/1/04 5:19:00	69.00	56.791	0.044	
2/1/04 5:20:00	69.00	56.792	0.043	
2/1/04 5:21:00	69.00	56.792	0.043	
2/1/04 5:22:00	69.00	56.792	0.043	
2/1/04 5:23:00	69.00	56.791	0.044	
2/1/04 5:24:00	69.00	56.791	0.044	
2/1/04 5:25:00	69.00	56.792	0.043	
2/1/04 5:26:00	69.00	56.791	0.044	
2/1/04 5:27:00	69.00	56.791	0.044	
2/1/04 5:28:00	69.00	56.791	0.044	
2/1/04 5:29:00	69.00	56.791	0.044	
2/1/04 5:30:00	69.00	56.791	0.044	
2/1/04 5:31:00	69.00	56.791	0.044	
2/1/04 5:32:00	69.00	56.790	0.045	
2/1/04 5:33:00	69.00	56.790	0.045	
2/1/04 5:34:00	69.00	56.791	0.044	
2/1/04 5:35:00	69.00	56.789	0.046	
2/1/04 5:36:00	69.00	56.789	0.046	
2/1/04 5:37:00	69.00	56.791	0.044	
2/1/04 5:38:00	69.00	56.791	0.044	
2/1/04 5:39:00	69.00	56.791	0.044	
2/1/04 5:40:00	69.00	56.791	0.044	
2/1/04 5:41:00	69.00	56.790	0.045	
2/1/04 5:42:00	69.00	56.790	0.045	
2/1/04 5:43:00	69.00	56.790	0.045	
2/1/04 5:44:00	69.00	56.790	0.045	
2/1/04 5:45:00	69.00	56.791	0.044	
2/1/04 5:46:00	69.00	56.791	0.044	
2/1/04 5:47:00	69.00	56.791	0.044	
2/1/04 5:48:00	68.99	56.792	0.043	
2/1/04 5:49:00	69.00	56.791	0.044	
2/1/04 5:50:00	69.00	56.791	0.044	
2/1/04 5:51:00	68.99	56.791	0.044	
2/1/04 5:52:00	68.99	56.791	0.044	
2/1/04 5:53:00	69.00	56.792	0.043	
2/1/04 5:54:00	68.99	56.792	0.043	
2/1/04 5:55:00	68.99	56.791	0.044	
2/1/04 5:56:00	68.98	56.791	0.044	
2/1/04 5:57:00	68.98	56.791	0.044	
2/1/04 5:58:00	68.98	56.791	0.044	
2/1/04 5:59:00	68.99	56.791	0.044	
2/1/04 6:00:00	68.98	56.791	0.044	
2/1/04 6:01:00	68.99	56.790	0.045	
2/1/04 6:02:00	68.98	56.790	0.045	
2/1/04 6:03:00	68.98	56.791	0.044	
2/1/04 6:04:00	68.98	56.790	0.045	
2/1/04 6:05:00	68.98	56.791	0.044	
2/1/04 6:06:00	68.98	56.791	0.044	
2/1/04 6:07:00	68.98	56.791	0.044	
2/1/04 6:08:00	68.98	56.791	0.044	
2/1/04 6:09:00	68.98	56.791	0.044	
2/1/04 6:10:00	68.98	56.792	0.043	
2/1/04 6:11:00	68.98	56.792	0.043	
2/1/04 6:12:00	68.98	56.791	0.044	
2/1/04 6:13:00	68.98	56.791	0.044	
2/1/04 6:14:00	68.98	56.792	0.043	
2/1/04 6:15:00	68.98	56.791	0.044	
2/1/04 6:16:00	68.98	56.792	0.043	
2/1/04 6:17:00	68.98	56.792	0.043	
2/1/04 6:18:00	68.98	56.793	0.042	
2/1/04 6:19:00	68.98	56.792	0.043	
2/1/04 6:20:00	68.98	56.793	0.042	
2/1/04 6:21:00	68.98	56.793	0.042	
2/1/04 6:22:00	68.98	56.793	0.042	
2/1/04 6:23:00	68.98	56.793	0.042	
2/1/04 6:24:00	68.98	56.792	0.043	
2/1/04 6:25:00	68.98	56.793	0.042	
2/1/04 6:26:00	68.98	56.793	0.042	
2/1/04 6:27:00	68.98	56.793	0.042	
2/1/04 6:28:00	68.98	56.794	0.041	
2/1/04 6:29:00	68.98	56.794	0.041	
2/1/04 6:30:00	68.98	56.795	0.040	
2/1/04 6:31:00	68.98	56.795	0.040	
2/1/04 6:32:00	68.98	56.795	0.040	
2/1/04 6:33:00	68.98	56.796	0.039	
2/1/04 6:34:00	68.98	56.796	0.039	
2/1/04 6:35:00	68.98	56.795	0.040	
2/1/04 6:36:00	68.98	56.796	0.039	
2/1/04 6:37:00	68.98	56.795	0.040	
2/1/04 6:38:00	68.98	56.795	0.040	
2/1/04 6:39:00	68.98	56.794	0.041	
2/1/04 6:40:00	68.98	56.795	0.040	
2/1/04 6:41:00	68.98	56.795	0.040	
2/1/04 6:42:00	68.98	56.795	0.040	
2/1/04 6:43:00	68.98	56.795	0.040	
2/1/04 6:44:00	68.98	56.795	0.040	
2/1/04 6:45:00	68.98	56.794	0.041	
2/1/04 6:46:00	68.98	56.795	0.040	
2/1/04 6:47:00	68.98	56.793	0.042	
2/1/04 6:48:00	68.98	56.794	0.041	
2/1/04 6:49:00	68.98	56.793	0.042	
2/1/04 6:50:00	68.98	56.794	0.041	
2/1/04 6:51:00	68.98	56.793	0.042	
2/1/04 6:52:00	68.98	56.794	0.041	
2/1/04 6:53:00	68.98	56.794	0.041	
2/1/04 6:54:00	68.98	56.794	0.041	
2/1/04 6:55:00	68.98	56.794	0.041	
2/1/04 6:56:00	68.98	56.794	0.041	
2/1/04 6:57:00	68.98	56.793	0.042	
2/1/04 6:58:00	68.98	56.794	0.041	
2/1/04 6:59:00	68.98	56.793	0.042	
2/1/04 7:00:00	68.98	56.794	0.041	
2/1/04 7:01:00	68.98	56.794	0.041	
2/1/04 7:02:00	68.98	56.795	0.040	
2/1/04 7:03:00	68.98	56.794	0.041	
2/1/04 7:04:00	68.98	56.795	0.040	
2/1/04 7:05:00	68.98	56.795	0.040	
2/1/04 7:06:00	68.98	56.795	0.040	
2/1/04 7:07:00	68.98	56.795	0.040	
2/1/04 7:08:00	68.98	56.795	0.040	
2/1/04 7:09:00	68.97	56.795	0.040	
2/1/04 7:10:00	68.97	56.795	0.040	
2/1/04 7:11:00	68.98	56.795	0.040	
2/1/04 7:12:00	68.96	56.795	0.040	
2/1/04 7:13:00	68.96	56.796	0.039	
2/1/04 7:14:00	68.96	56.795	0.040	
2/1/04 7:15:00	68.96	56.795	0.040	
2/1/04 7:16:00	68.97	56.795	0.040	
2/1/04 7:17:00	68.97	56.795	0.040	
2/1/04 7:18:00	68.96	56.795	0.040	
2/1/04 7:19:00	68.96	56.795	0.040	
2/1/04 7:20:00	68.96	56.795	0.040	
2/1/04 7:21:00	68.96	56.795	0.040	
2/1/04 7:22:00	68.96	56.796	0.039	
2/1/04 7:23:00	68.96	56.795	0.040	
2/1/04 7:24:00	68.96	56.795	0.040	
2/1/04 7:25:00	68.96	56.795	0.040	
2/1/04 7:26:00	68.96	56.795	0.040	
2/1/04 7:27:00	68.96	56.795	0.040	
2/1/04 7:28:00	68.96	56.795	0.040	
2/1/04 7:29:00	68.96	56.795	0.040	
2/1/04 7:30:00	68.96	56.795	0.040	
2/1/04 7:31:00	68.96	56.796	0.039	
2/1/04 7:32:00	68.96	56.797	0.038	
2/1/04 7:33:00	68.96	56.795	0.040	
2/1/04 7:34:00	68.96	56.796	0.039	
2/1/04 7:35:00	68.96	56.797	0.038	
2/1/04 7:36:00	68.96	56.797	0.038	
2/1/04 7:37:00	68.96	56.796	0.039	
2/1/04 7:38:00	68.96	56.797	0.038	
2/1/04 7:39:00	68.96	56.798	0.037	
2/1/04 7:40:00	68.96	56.797	0.038	
2/1/04 7:41:00	68.96	56.797	0.038	
2/1/04 7:42:00	68.96	56.797	0.038	
2/1/04 7:43:00	68.96	56.797	0.038	
2/1/04 7:44:00	68.96	56.797	0.038	
2/1/04 7:45:00	68.96	56.797	0.038	
2/1/04 7:46:00	68.96	56.797	0.038	
2/1/04 7:47:00	68.96	56.797	0.038	
2/1/04 7:48:00	68.96	56.797	0.038	
2/1/04 7:49:00	68.96	56.797	0.038	
2/1/04 7:50:00	68.96	56.797	0.038	
2/1/04 7:51:00	68.96	56.797	0.038	
2/1/04 7:52:00	68.96	56.797	0.038	
2/1/04 7:53:00	68.96	56.797	0.038	
2/1/04 7:54:00	68.96	56.797	0.038	
2/1/04 7:55:00	68.96	56.797	0.038	
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2/1/04 7:57:00	68.96	56.798	0.037	
2/1/04 7:58:00	68.96	56.798	0.037	
2/1/04 7:59:00	68.96	56.798	0.037	
2/1/04 8:00:00	68.96	56.798	0.037	
2/1/04 8:01:00	68.96	56.799	0.036	
2/1/04 8:02:00	68.96	56.798	0.037	
2/1/04 8:03:00	68.96	56.798	0.037	
2/1/04 8:04:00	68.96	56.797	0.038	
2/1/04 8:05:00	68.96	56.798	0.037	
2/1/04 8:06:00	68.96	56.797	0.038	
2/1/04 8:07:00	68.96	56.797	0.038	
2/1/04 8:08:00	68.96	56.797	0.038	
2/1/04 8:09:00	68.96	56.798	0.037	
2/1/04 8:10:00	68.95	56.798	0.037	
2/1/04 8:11:00	68.96	56.604	0.231	
2/1/04 8:12:00	68.95	56.645	0.190	
2/1/04 8:13:00	68.96	56.790	0.045	
2/1/04 8:14:00	68.95	56.784	0.051	
2/1/04 8:15:00	68.94	56.695	0.140	
2/1/04 8:16:00	68.96	56.587	0.248	
2/1/04 8:17:00	68.96	56.586	0.249	
2/1/04 8:18:00	68.95	56.586	0.249	
2/1/04 8:19:00	68.96	56.588	0.247	
2/1/04 8:20:00	68.96	56.587	0.248	
2/1/04 8:21:00	68.96	56.587	0.248	
2/1/04 8:22:00	68.95	56.586	0.249	
2/1/04 8:23:00	68.94	56.587	0.248	
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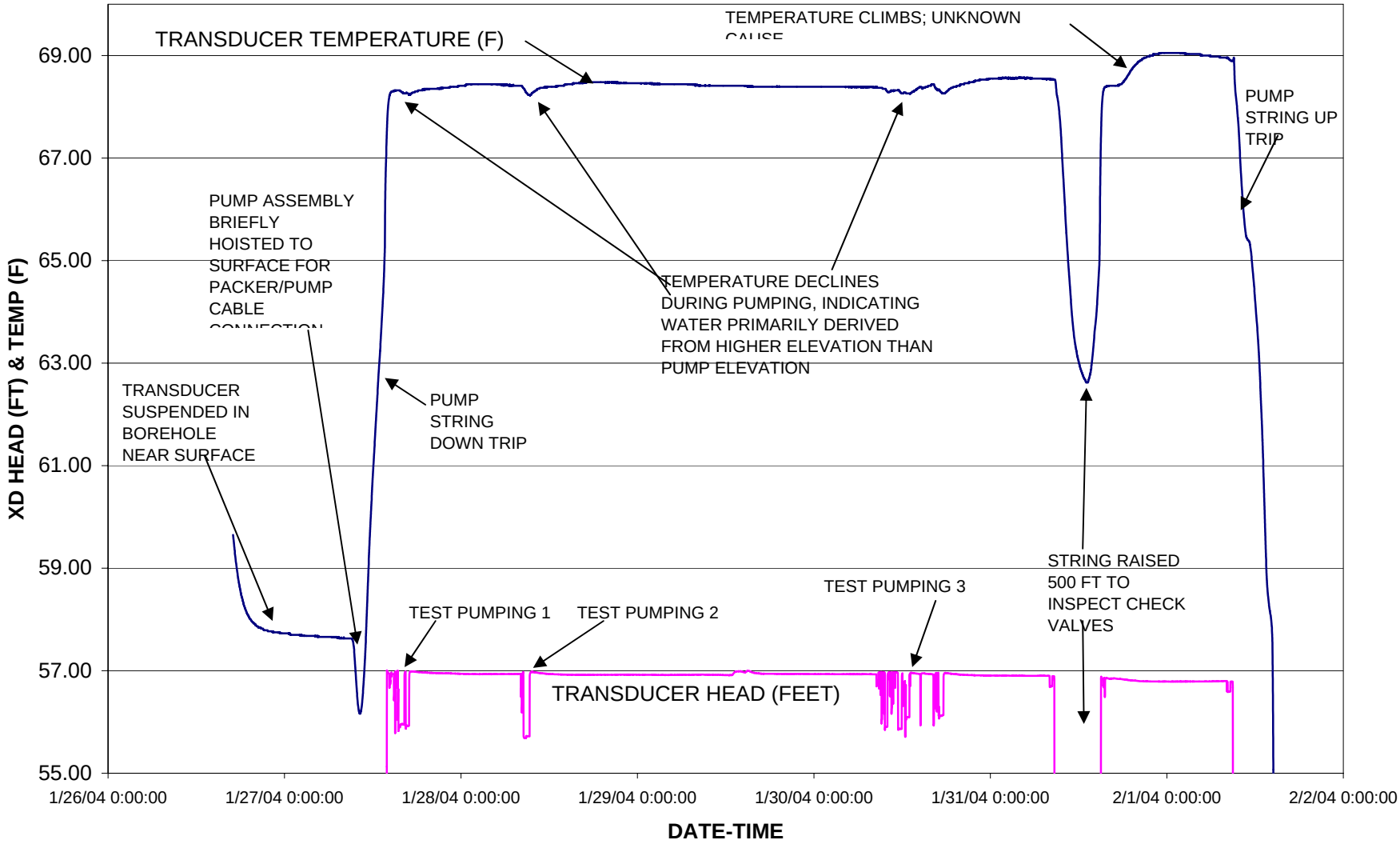
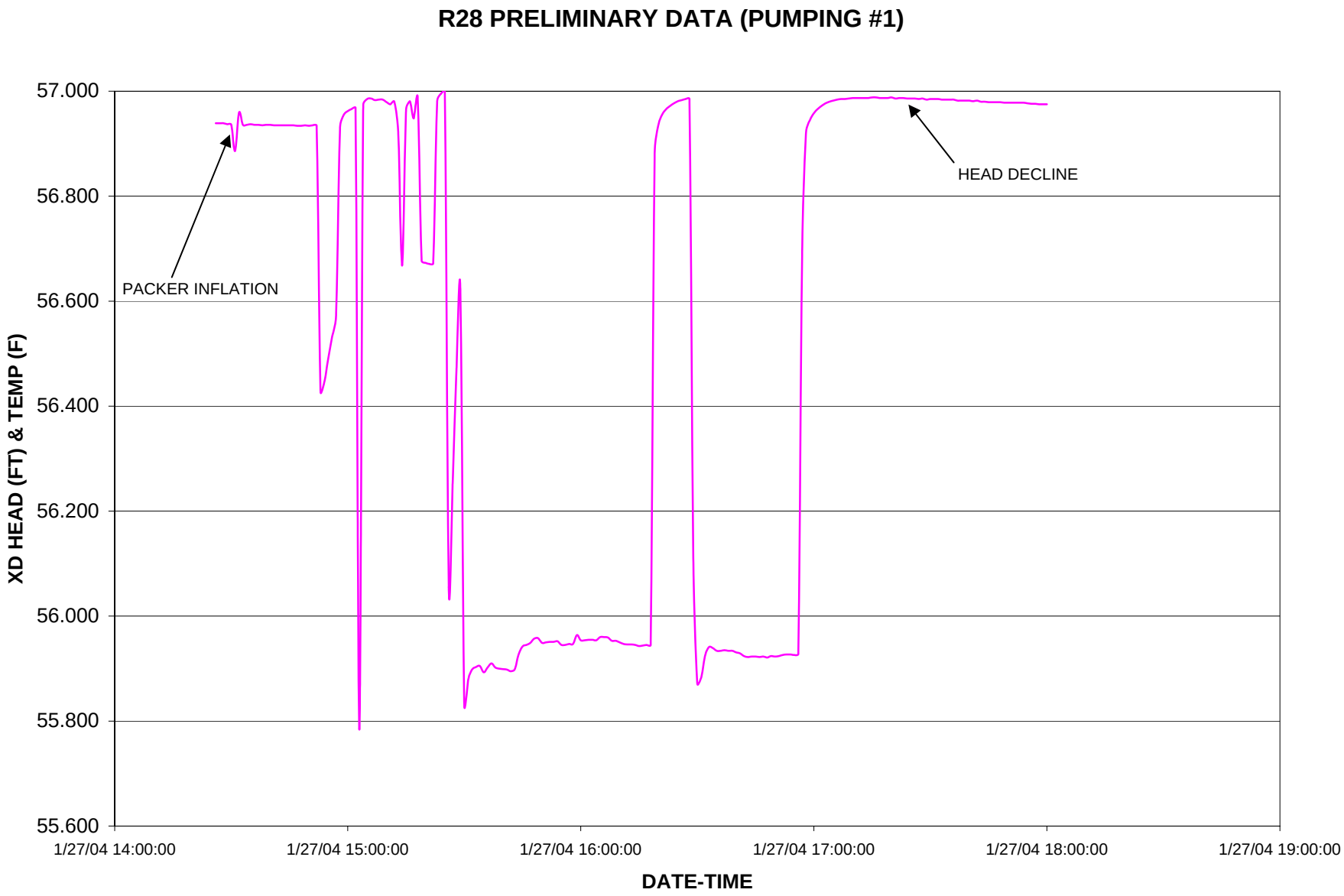
2/1/04 8:25:00	68.94	56.587	0.248	
2/1/04 8:26:00	68.94	56.589	0.246	
2/1/04 8:27:00	68.94	56.591	0.244	
2/1/04 8:28:00	68.94	56.591	0.244	
2/1/04 8:29:00	68.94	56.590	0.245	
2/1/04 8:30:00	68.92	56.591	0.244	
2/1/04 8:31:00	68.91	56.591	0.244	
2/1/04 8:32:00	68.91	56.593	0.242	
2/1/04 8:33:00	68.91	56.593	0.242	
2/1/04 8:34:00	68.91	56.593	0.242	
2/1/04 8:35:00	68.91	56.593	0.242	
2/1/04 8:36:00	68.91	56.593	0.242	
2/1/04 8:37:00	68.91	56.593	0.242	
2/1/04 8:38:00	68.91	56.596	0.239	
2/1/04 8:39:00	68.91	56.785	0.050	
2/1/04 8:40:00	68.91	56.787	0.048	
2/1/04 8:41:00	68.91	56.787	0.048	
2/1/04 8:42:00	68.91	56.788	0.047	
2/1/04 8:43:00	68.91	56.787	0.048	
2/1/04 8:44:00	68.90	56.788	0.047	
2/1/04 8:45:00	68.89	56.787	0.048	
2/1/04 8:46:00	68.89	56.788	0.047	
2/1/04 8:47:00	68.89	56.788	0.047	
2/1/04 8:48:00	68.89	56.788	0.047	
2/1/04 8:49:00	68.89	56.788	0.047	
2/1/04 8:50:00	68.89	56.789	0.046	
2/1/04 8:51:00	68.89	56.788	0.047	
2/1/04 8:52:00	68.89	56.788	0.047	
2/1/04 8:53:00	68.89	56.788	0.047	
2/1/04 8:54:00	68.89	56.788	0.047	
2/1/04 8:55:00	68.89	56.788	0.047	
2/1/04 8:56:00	68.89	56.788	0.047	
2/1/04 8:57:00	68.89	56.788	0.047	
2/1/04 8:58:00	68.89	56.674		BEGIN TRIP OUT
2/1/04 8:59:00	68.89	54.021		
2/1/04 9:00:00	68.89	47.212		
2/1/04 9:01:00	68.89	41.582		
2/1/04 9:02:00	68.91	41.755		
2/1/04 9:03:00	68.91	41.754		
2/1/04 9:04:00	68.94	39.472		
2/1/04 9:05:00	68.95	33.716		
2/1/04 9:06:00	68.96	24.613		
2/1/04 9:07:00	68.96	20.512		
2/1/04 9:08:00	68.92	20.623		
2/1/04 9:09:00	68.88	20.627		
2/1/04 9:10:00	68.83	20.323		
2/1/04 9:11:00	68.77	16.567		
2/1/04 9:12:00	68.67	10.675		
2/1/04 9:13:00	68.58	2.525		
2/1/04 9:14:00	68.52	-0.322		
2/1/04 9:15:00	68.47	-0.320		
2/1/04 9:16:00	68.43	-0.319		
2/1/04 9:17:00	68.39	-0.389		
2/1/04 9:18:00	68.35	-0.392		
2/1/04 9:19:00	68.31	-0.414		
2/1/04 9:20:00	68.28	-0.432		
2/1/04 9:21:00	68.26	-0.449		
2/1/04 9:22:00	68.23	-0.449		
2/1/04 9:23:00	68.21	-0.495		
2/1/04 9:24:00	68.19	-0.521		
2/1/04 9:25:00	68.17	-0.538		
2/1/04 9:26:00	68.14	-0.526		
2/1/04 9:27:00	68.12	-0.588		
2/1/04 9:28:00	68.10	-0.608		
2/1/04 9:29:00	68.08	-0.625		
2/1/04 9:30:00	68.05	-0.641		
2/1/04 9:31:00	68.03	-0.666		
2/1/04 9:32:00	68.00	-0.696		
2/1/04 9:33:00	67.97	-0.706		
2/1/04 9:34:00	67.96	-0.722		
2/1/04 9:35:00	67.93	-0.746		
2/1/04 9:36:00	67.89	-0.782		
2/1/04 9:37:00	67.86	-0.803		
2/1/04 9:38:00	67.83	-0.868		
2/1/04 9:39:00	67.80	-0.894		
2/1/04 9:40:00	67.78	-0.928		
2/1/04 9:41:00	67.75	-0.963		
2/1/04 9:42:00	67.71	-1.003		
2/1/04 9:43:00	67.69	-1.006		
2/1/04 9:44:00	67.65	-1.009		
2/1/04 9:45:00	67.62	-1.009		
2/1/04 9:46:00	67.58	-1.015		
2/1/04 9:47:00	67.53	-1.021		
2/1/04 9:48:00	67.49	-1.019		
2/1/04 9:49:00	67.44	-1.015		
2/1/04 9:50:00	67.40	-1.013		
2/1/04 9:51:00	67.35	-1.009		
2/1/04 9:52:00	67.30	-1.006		
2/1/04 9:53:00	67.26	-1.002		
2/1/04 9:54:00	67.21	-1.000		
2/1/04 9:55:00	67.16	-0.997		
2/1/04 9:56:00	67.11	-0.994		
2/1/04 9:57:00	67.06	-0.990		
2/1/04 9:58:00	67.01	-0.988		
2/1/04 9:59:00	66.97	-0.985		
2/1/04 10:00:00	66.92	-0.982		
2/1/04 10:01:00	66.88	-0.979		

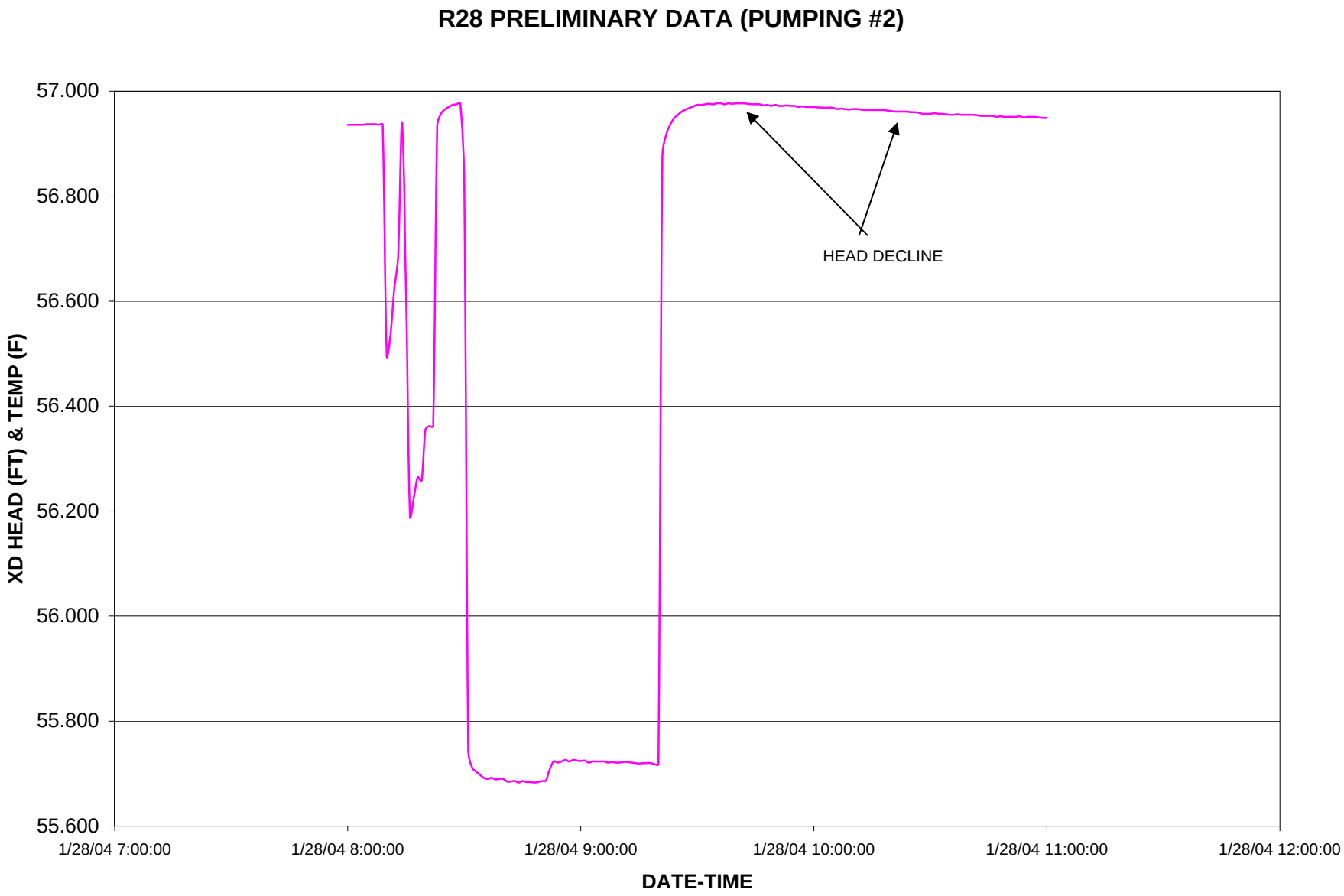
2/1/04 10:02:00	66.83	-0.976
2/1/04 10:03:00	66.79	-0.972
2/1/04 10:04:00	66.74	-0.969
2/1/04 10:05:00	66.70	-0.966
2/1/04 10:06:00	66.66	-0.963
2/1/04 10:07:00	66.62	-0.961
2/1/04 10:08:00	66.58	-0.960
2/1/04 10:09:00	66.54	-0.957
2/1/04 10:10:00	66.49	-0.954
2/1/04 10:11:00	66.45	-0.952
2/1/04 10:12:00	66.42	-0.949
2/1/04 10:13:00	66.38	-0.947
2/1/04 10:14:00	66.34	-0.943
2/1/04 10:15:00	66.30	-0.940
2/1/04 10:16:00	66.27	-0.938
2/1/04 10:17:00	66.24	-0.934
2/1/04 10:18:00	66.20	-0.932
2/1/04 10:19:00	66.17	-0.930
2/1/04 10:20:00	66.15	-0.928
2/1/04 10:21:00	66.11	-0.925
2/1/04 10:22:00	66.08	-0.922
2/1/04 10:23:00	66.04	-0.919
2/1/04 10:24:00	66.02	-0.915
2/1/04 10:25:00	65.98	-0.913
2/1/04 10:26:00	65.95	-0.910
2/1/04 10:27:00	65.93	-0.908
2/1/04 10:28:00	65.90	-0.906
2/1/04 10:29:00	65.87	-0.903
2/1/04 10:30:00	65.83	-0.901
2/1/04 10:31:00	65.82	-0.900
2/1/04 10:32:00	65.79	-0.911
2/1/04 10:33:00	65.76	-0.899
2/1/04 10:34:00	65.72	-0.911
2/1/04 10:35:00	65.70	-0.917
2/1/04 10:36:00	65.68	-0.912
2/1/04 10:37:00	65.65	-0.910
2/1/04 10:38:00	65.63	-0.910
2/1/04 10:39:00	65.61	-0.909
2/1/04 10:40:00	65.59	-0.908
2/1/04 10:41:00	65.56	-0.906
2/1/04 10:42:00	65.55	-0.906
2/1/04 10:43:00	65.54	-0.904
2/1/04 10:44:00	65.52	-0.903
2/1/04 10:45:00	65.51	-0.903
2/1/04 10:46:00	65.50	-0.902
2/1/04 10:47:00	65.47	-0.901
2/1/04 10:48:00	65.47	-0.901
2/1/04 10:49:00	65.46	-0.901
2/1/04 10:50:00	65.45	-0.899
2/1/04 10:51:00	65.45	-0.899
2/1/04 10:52:00	65.45	-0.899
2/1/04 10:53:00	65.43	-0.896
2/1/04 10:54:00	65.43	-0.897
2/1/04 10:55:00	65.43	-0.897
2/1/04 10:56:00	65.43	-0.896
2/1/04 10:57:00	65.42	-0.896
2/1/04 10:58:00	65.40	-0.904
2/1/04 10:59:00	65.40	-0.916
2/1/04 11:00:00	65.40	-0.916
2/1/04 11:01:00	65.40	-0.916
2/1/04 11:02:00	65.40	-0.915
2/1/04 11:03:00	65.40	-0.913
2/1/04 11:04:00	65.40	-0.944
2/1/04 11:05:00	65.40	-0.935
2/1/04 11:06:00	65.39	-0.934
2/1/04 11:07:00	65.38	-0.934
2/1/04 11:08:00	65.38	-0.951
2/1/04 11:09:00	65.38	-0.950
2/1/04 11:10:00	65.38	-0.952
2/1/04 11:11:00	65.38	-0.952
2/1/04 11:12:00	65.38	-0.954
2/1/04 11:13:00	65.37	-0.960
2/1/04 11:14:00	65.36	-0.967
2/1/04 11:15:00	65.36	-0.970
2/1/04 11:16:00	65.34	-0.968
2/1/04 11:17:00	65.34	-0.976
2/1/04 11:18:00	65.31	-0.987
2/1/04 11:19:00	65.31	-0.987
2/1/04 11:20:00	65.29	-0.986
2/1/04 11:21:00	65.27	-0.984
2/1/04 11:22:00	65.25	-1.002
2/1/04 11:23:00	65.24	-1.001
2/1/04 11:24:00	65.22	-1.000
2/1/04 11:25:00	65.20	-1.010
2/1/04 11:26:00	65.18	-1.024
2/1/04 11:27:00	65.17	-1.024
2/1/04 11:28:00	65.15	-1.029
2/1/04 11:29:00	65.12	-1.045
2/1/04 11:30:00	65.09	-1.038
2/1/04 11:31:00	65.07	-1.034
2/1/04 11:32:00	65.04	-1.050
2/1/04 11:33:00	65.02	-1.055
2/1/04 11:34:00	65.00	-1.049
2/1/04 11:35:00	64.97	-1.048
2/1/04 11:36:00	64.94	-1.056
2/1/04 11:37:00	64.91	-1.057
2/1/04 11:38:00	64.88	-1.056
2/1/04 11:39:00	64.86	-1.064
2/1/04 11:40:00	64.83	-1.062
2/1/04 11:41:00	64.80	-1.060
2/1/04 11:42:00	64.78	-1.055
2/1/04 11:43:00	64.75	-1.075
2/1/04 11:44:00	64.73	-1.074
2/1/04 11:45:00	64.69	-1.071
2/1/04 11:46:00	64.66	-1.118
2/1/04 11:47:00	64.64	-1.079
2/1/04 11:48:00	64.61	-1.087
2/1/04 11:49:00	64.59	-1.086
2/1/04 11:50:00	64.56	-1.094
2/1/04 11:51:00	64.52	-1.110
2/1/04 11:52:00	64.50	-1.102
2/1/04 11:53:00	64.48	-1.105
2/1/04 11:54:00	64.43	-1.122
2/1/04 11:55:00	64.41	-1.117
2/1/04 11:56:00	64.37	-1.115
2/1/04 11:57:00	64.34	-1.113
2/1/04 11:58:00	64.32	-1.128
2/1/04 11:59:00	64.28	-1.140
2/1/04 12:00:00	64.24	-1.130
2/1/04 12:01:00	64.21	-1.129
2/1/04 12:02:00	64.18	-1.132
2/1/04 12:03:00	64.15	-1.138
2/1/04 12:04:00	64.12	-1.142
2/1/04 12:05:00	64.09	-1.139
2/1/04 12:06:00	64.05	-1.137
2/1/04 12:07:00	64.02	-1.148
2/1/04 12:08:00	63.98	-1.149
2/1/04 12:09:00	63.94	-1.148
2/1/04 12:10:00	63.92	-1.146
2/1/04 12:11:00	63.89	-1.143
2/1/04 12:12:00	63.85	-1.157
2/1/04 12:13:00	63.82	-1.161
2/1/04 12:14:00	63.80	-1.158
2/1/04 12:15:00	63.77	-1.157
2/1/04 12:16:00	63.74	-1.173
2/1/04 12:17:00	63.71	-1.175
2/1/04 12:18:00	63.68	-1.169
2/1/04 12:19:00	63.65	-1.168
2/1/04 12:20:00	63.62	-1.157
2/1/04 12:21:00	63.58	-1.179
2/1/04 12:22:00	63.55	-1.181
2/1/04 12:23:00	63.51	-1.179
2/1/04 12:24:00	63.47	-1.190
2/1/04 12:25:00	63.44	-1.195
2/1/04 12:26:00	63.39	-1.193
2/1/04 12:27:00	63.36	-1.198
2/1/04 12:28:00	63.32	-1.199
2/1/04 12:29:00	63.27	-1.205
2/1/04 12:30:00	63.23	-1.204
2/1/04 12:31:00	63.19	-1.201
2/1/04 12:32:00	63.13	-1.200
2/1/04 12:33:00	63.09	-1.216
2/1/04 12:34:00	63.04	-1.213
2/1/04 12:35:00	62.99	-1.211
2/1/04 12:36:00	62.94	-1.204
2/1/04 12:37:00	62.87	-1.216
2/1/04 12:38:00	62.82	-1.219
2/1/04 12:39:00	62.77	-1.214
2/1/04 12:40:00	62.72	-1.213
2/1/04 12:41:00	62.65	-1.209
2/1/04 12:42:00	62.60	-1.205
2/1/04 12:43:00	62.55	-1.203
2/1/04 12:44:00	62.48	-1.198
2/1/04 12:45:00	62.43	-1.203
2/1/04 12:46:00	62.36	-1.205
2/1/04 12:47:00	62.31	-1.206
2/1/04 12:48:00	62.25	-1.201
2/1/04 12:49:00	62.20	-1.197
2/1/04 12:50:00	62.14	-1.196
2/1/04 12:51:00	62.09	-1.204
2/1/04 12:52:00	62.03	-1.204
2/1/04 12:53:00	61.97	-1.203
2/1/04 12:54:00	61.91	-1.199
2/1/04 12:55:00	61.86	-1.196
2/1/04 12:56:00	61.79	-1.189
2/1/04 12:57:00	61.72	-1.209
2/1/04 12:58:00	61.65	-1.203
2/1/04 12:59:00	61.58	-1.199
2/1/04 13:00:00	61.50	-1.194
2/1/04 13:01:00	61.44	-1.191
2/1/04 13:02:00	61.36	-1.208
2/1/04 13:03:00	61.29	-1.198
2/1/04 13:04:00	61.22	-1.200
2/1/04 13:05:00	61.14	-1.192
2/1/04 13:06:00	61.07	-1.187
2/1/04 13:07:00	60.99	-1.184
2/1/04 13:08:00	60.91	-1.204
2/1/04 13:09:00	60.84	-1.203
2/1/04 13:10:00	60.76	-1.188
2/1/04 13:11:00	60.68	-1.183
2/1/04 13:12:00	60.60	-1.179
2/1/04 13:13:00	60.52	-1.192
2/1/04 13:14:00	60.43	-1.176
2/1/04 13:15:00	60.35	-1.183
2/1/04 13:16:00	60.27	-1.178
2/1/04 13:17:00	60.18	-1.182
2/1/04 13:18:00	60.11	-1.186
2/1/04 13:19:00	60.01	-1.182
2/1/04 13:20:00	59.93	-1.176
2/1/04 13:21:00	59.84	-1.172
2/1/04 13:22:00	59.76	-1.184
2/1/04 13:23:00	59.68	-1.178
2/1/04 13:24:00	59.60	-1.177
2/1/04 13:25:00	59.50	-1.202
2/1/04 13:26:00	59.43	-1.165
2/1/04 13:27:00	59.35	-1.176
2/1/04 13:28:00	59.28	-1.171
2/1/04 13:29:00	59.20	-1.164
2/1/04 13:30:00	59.13	-1.160
2/1/04 13:31:00	59.06	-1.158
2/1/04 13:32:00	59.01	-1.154
2/1/04 13:33:00	58.94	-1.156
2/1/04 13:34:00	58.89	-1.146
2/1/04 13:35:00	58.84	-1.142
2/1/04 13:36:00	58.78	-1.138
2/1/04 13:37:00	58.75	-1.133
2/1/04 13:38:00	58.70	-1.129
2/1/04 13:39:00	58.65	-1.127
2/1/04 13:40:00	58.62	-1.123
2/1/04 13:41:00	58.59	-1.119
2/1/04 13:42:00	58.56	-1.116
2/1/04 13:43:00	58.52	-1.114
2/1/04 13:44:00	58.50	-1.111
2/1/04 13:45:00	58.47	-1.108
2/1/04 13:46:00	58.45	-1.107
2/1/04 13:47:00	58.43	-1.104
2/1/04 13:48:00	58.41	-1.102
2/1/04 13:49:00	58.38	-1.101
2/1/04 13:50:00	58.36	-1.099
2/1/04 13:51:00	58.34	-1.097
2/1/04 13:52:00	58.31	-1.095
2/1/04 13:53:00	58.29	-1.093
2/1/04 13:54:00	58.27	-1.093
2/1/04 13:55:00	58.26	-1.091
2/1/04 13:56:00	58.25	-1.089
2/1/04 13:57:00	58.22	-1.088
2/1/04 13:58:00	58.21	-1.086
2/1/04 13:59:00	58.20	-1.085
2/1/04 14:00:00	58.18	-1.084
2/1/04 14:01:00	58.16	-1.083
2/1/04 14:02:00	58.16	-1.082
2/1/04 14:03:00	58.13	-1.081
2/1/04 14:04:00	58.11	-1.084
2/1/04 14:05:00	58.10	-1.091
2/1/04 14:06:00	58.09	-1.090
2/1/04 14:07:00	58.08	-1.089
2/1/04 14:08:00	58.07	-1.089
2/1/04 14:09:00	58.04	-1.087
2/1/04 14:10:00	58.02	-1.086
2/1/04 14:11:00	58.00	-1.083
2/1/04 14:12:00	57.97	-1.082
2/1/04 14:13:00	57.95	-1.079
2/1/04 14:14:00	57.92	-1.075
2/1/04 14:15:00	57.88	-1.076
2/1/04 14:16:00	57.86	-1.075
2/1/04 14:17:00	57.82	-1.075
2/1/04 14:18:00	57.78	-1.069
2/1/04 14:19:00	57.74	-1.067
2/1/04 14:20:00	57.70	-1.080
2/1/04 14:21:00	57.62	-1.082
2/1/04 14:22:00	57.52	-1.758
2/1/04 14:23:00	57.24	-1.748
2/1/04 14:24:00	57.03	-1.738
2/1/04 14:25:00	56.77	-1.717
2/1/04 14:26:00	56.43	-1.689
2/1/04 14:27:00	56.02	-1.678
2/1/04 14:28:00	55.57	-1.663
2/1/04 14:29:00	55.07	-1.660
2/1/04 14:30:00	54.54	-1.572
2/1/04 14:31:00	53.99	-1.547
2/1/04 14:32:00	53.49	-1.524
2/1/04 14:33:00	53.03	-1.495
2/1/04 14:34:00	52.62	-1.457
2/1/04 14:35:00	52.24	-1.433
2/1/04 14:36:00	51.93	-1.414
2/1/04 14:37:00	51.63	-1.434
2/1/04 14:38:00	51.62	-1.431

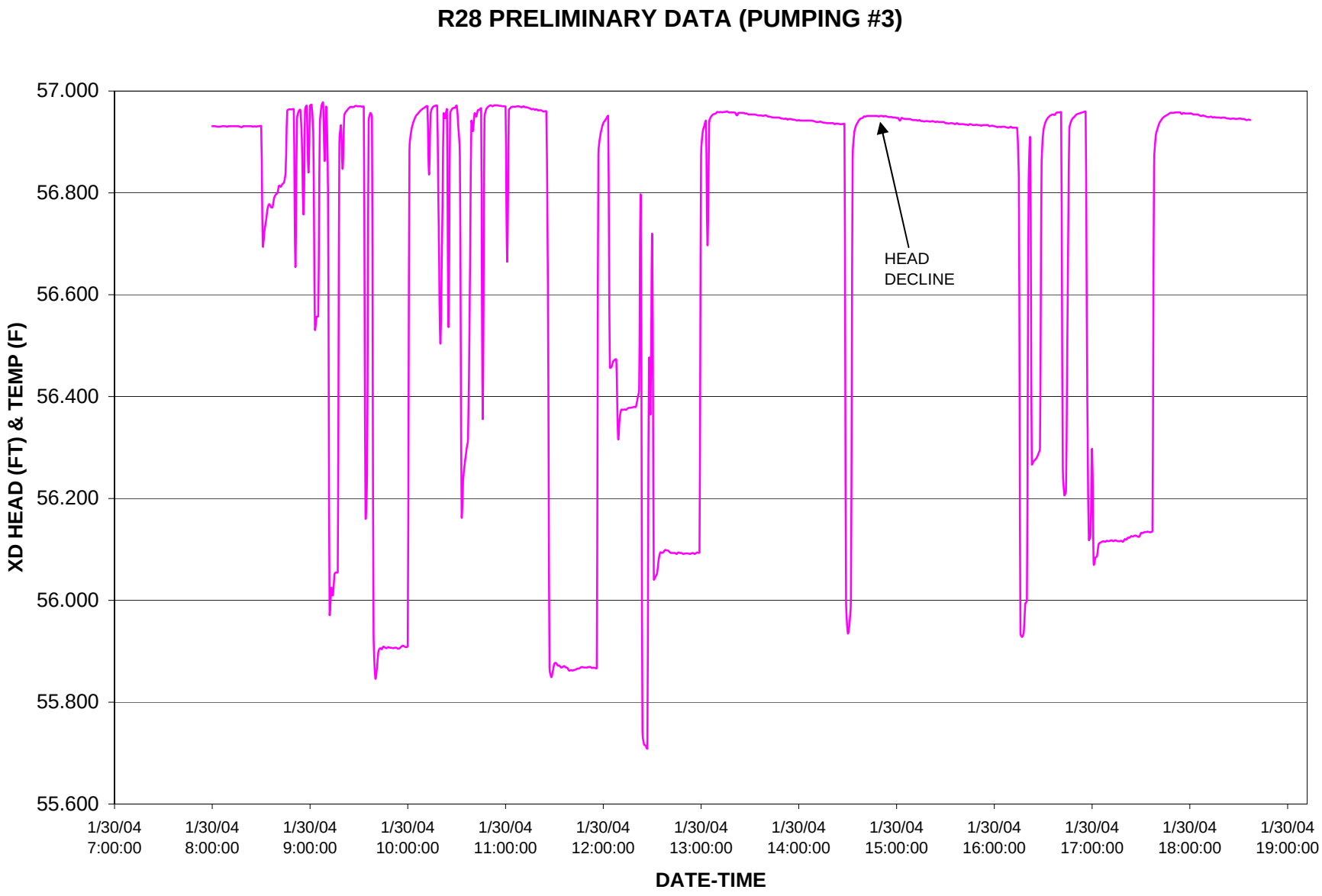
DATA STREAM END
ABEND DUE TO HANDLING TROLL AT SURFACE

R28 PRE-TEST DATA: SUMMARY OF HEAD AND TEMPERATURE




R28 PRELIMINARY DATA (PUMPING #1)
57.000
56.800
56.600
56.400
56.200
56.000
55.800
55.600
XD HEAD (FT) & TEMP (F)
PACKER INFLATION
HEAD DECLINE
1/27/04 14:00:00
1/27/04 15:00:00
1/27/04 16:00:00
1/27/04 17:00:00
1/27/04 18:00:00
1/27/04 19:00:00
DATE-TIME


R28 PRELIMINARY DATA (PUMPING #2)
57.000
56.800
56.600
56.400
56.200
56.000
55.800
55.600
XD HEAD (FT) & TEMP (F)
HEAD DECLINE
1/28/04 7:00:00
1/28/04 8:00:00
1/28/04 9:00:00
1/28/04 10:00:00
1/28/04 11:00:00
1/28/04 12:00:00
DATE-TIME


R28 PRELIMINARY DATA (PUMPING #3)
57.000
56.800
56.600
56.400
56.200
56.000
55.800
55.600
XD HEAD (FT) & TEMP (F)
HEAD
DECLINE
1/30/04 7:00:00
1/30/04 8:00:00
1/30/04 9:00:00
1/30/04 10:00:00
1/30/04 11:00:00
1/30/04 12:00:00
1/30/04 13:00:00
1/30/04 14:00:00
1/30/04 15:00:00
1/30/04 16:00:00
1/30/04 17:00:00
1/30/04 18:00:00
1/30/04 19:00:00
DATE-TIME

LOS ALAMOS MW-R28 AQUIFER TEST 3
KLEINFELDER, INC. (Data reduction by Brian Peck, KA, Reno, 775-689-7800 x132)
Testing from 3/7/2004 to 3/8/04

In-Situ Inc. MiniTroll Pro
Report generated: 3/30/2004 9:51:08
Report from file: ...\SN12075 2004-03-07 120000 R28-T5.bin
Win-Situ Version 4.35
Serial number: 12075
Firmware Version 3.09
Unit name: MiniTROLL
Test name: R28-T5
Test defined on: 3/7/2004 8:17:40
Test scheduled for: 3/7/2004 12:00:00
Test started on: 3/7/2004 12:00:00
Test stopped on: 3/8/2004 20:04:10
Test extracted on: N/A N/A
Data gathered using Linear testing
Time between data points: 2.0 Seconds.
Number of data samples: 57725
TOTAL DATA SAMPLES 57725
Channel number [1]
Measurement type: Temperature
Channel name: Temperature
Channel number [2]
Measurement type: Pressure
Channel name: Pressure
Sensor Range: 30 PSIA.
Baro Reference: 0 PSI

AVG TEMP (F) = 68.40 38039.6
DENSITY OF WATER AT 68.40 DEG. F = 62.317 LBS/CF
FT OF WATER PER PSI = 2.3108 FT/PSI (good to four sig figs)

Date	E T (min)	Temp (F)	PSIA	water head	NOTES
3/7/2004 12:00:00	0	52.37	11.771	27.200	XD PROGRAMMED
3/7/2004 12:01:00	1.00000	52.49	11.772	27.203	TRIP IN COMMENCES
3/7/2004 12:02:00	2.00000	52.58	11.772	27.203	
3/7/2004 12:03:00	3.00000	52.66	11.772	27.203	
3/7/2004 12:04:00	4.00000	52.74	11.771	27.200	
3/7/2004 12:05:00	5.00000	52.81	11.772	27.203	
3/7/2004 12:06:00	6.00000	52.89	11.776	27.212	
3/7/2004 12:07:00	7.00000	52.96	11.779	27.219	
3/7/2004 12:08:00	8.00000	53.05	11.78	27.221	
3/7/2004 12:09:00	9.00000	53.12	11.78	27.221	
3/7/2004 12:10:00	10.00000	53.2	11.778	27.217	
3/7/2004 12:11:00	11.00000	53.28	11.78	27.221	
3/7/2004 12:12:00	12.00000	53.36	11.78	27.221	
3/7/2004 12:13:00	13.00000	53.44	11.78	27.221	
3/7/2004 12:14:00	14.00000	53.5	11.779	27.219	
3/7/2004 12:15:00	15.00000	53.58	11.779	27.219	
3/7/2004 12:16:00	16.00000	53.66	11.778	27.217	
3/7/2004 12:17:00	17.00000	53.73	11.779	27.219	
3/7/2004 12:18:00	18.00000	53.8	11.779	27.219	
3/7/2004 12:19:00	19.00000	53.86	11.779	27.219	
3/7/2004 12:20:00	20.00000	53.94	11.779	27.219	
3/7/2004 12:21:00	21.00000	54	11.779	27.219	
3/7/2004 12:22:00	22.00000	54.07	11.778	27.217	
3/7/2004 12:23:00	23.00000	54.13	11.779	27.219	
3/7/2004 12:24:00	24.00000	54.2	11.779	27.219	
3/7/2004 12:25:00	25.00000	54.27	11.779	27.219	
3/7/2004 12:26:00	26.00000	54.32	11.778	27.217	
3/7/2004 12:27:00	27.00000	54.38	11.778	27.217	
3/7/2004 12:28:00	28.00000	54.45	11.779	27.219	
3/7/2004 12:29:00	29.00000	54.5	11.778	27.217	
3/7/2004 12:30:00	30.00000	54.56	11.777	27.214	
3/7/2004 12:31:00	31.00000	54.61	11.777	27.214	
3/7/2004 12:32:00	32.00000	54.66	11.776	27.212	
3/7/2004 12:33:00	33.00000	54.72	11.776	27.212	
3/7/2004 12:34:00	34.00000	54.77	11.776	27.212	
3/7/2004 12:35:00	35.00000	54.82	11.776	27.212	
3/7/2004 12:36:00	36.00000	54.88	11.775	27.210	
3/7/2004 12:37:00	37.00000	54.92	11.775	27.210	
3/7/2004 12:38:00	38.00000	54.97	11.775	27.210	
3/7/2004 12:39:00	39.00000	55.01	11.775	27.210	
3/7/2004 12:40:00	40.00000	55.06	11.774	27.207	
3/7/2004 12:41:00	41.00000	55.11	11.774	27.207	
3/7/2004 12:42:00	42.00000	55.15	11.775	27.210	
3/7/2004 12:43:00	43.00000	55.2	11.773	27.205	
3/7/2004 12:44:00	44.00000	55.23	11.773	27.205	
3/7/2004 12:45:00	45.00000	55.26	11.773	27.205	
3/7/2004 12:46:00	46.00000	55.31	11.773	27.205	
3/7/2004 12:47:00	47.00000	55.35	11.774	27.207	
3/7/2004 12:48:00	48.00000	55.38	11.775	27.210	
3/7/2004 12:49:00	49.00000	55.42	11.774	27.207	
3/7/2004 12:50:00	50.00000	55.47	11.773	27.205	
3/7/2004 12:51:00	51.00000	55.49	11.777	27.214	
3/7/2004 12:52:00	52.00000	55.53	11.779	27.219	
3/7/2004 12:53:00	53.00000	55.56	11.781	27.224	
3/7/2004 12:54:00	54.00000	55.6	11.78	27.221	
3/7/2004 12:55:00	55.00000	55.65	11.779	27.219	
3/7/2004 12:56:00	56.00000	55.67	11.779	27.219	
3/7/2004 12:57:00	57.00000	55.71	11.78	27.221	
3/7/2004 12:58:00	58.00000	55.76	11.78	27.221	
3/7/2004 12:59:00	59.00000	55.78	11.781	27.224	
3/7/2004 13:00:00	60.00000	55.83	11.78	27.221	
3/7/2004 13:01:00	61.00000	55.87	11.783	27.228	
3/7/2004 13:02:00	62.00000	55.89	11.788	27.240	
3/7/2004 13:03:00	63.00000	55.94	11.786	27.235	
3/7/2004 13:04:00	64.00000	55.99	11.786	27.235	
3/7/2004 13:05:00	65.00000	56.01	11.786	27.235	
3/7/2004 13:06:00	66.00000	56.05	11.786	27.235	
3/7/2004 13:07:00	67.00000	56.1	11.785	27.233	
3/7/2004 13:08:00	68.00000	56.14	11.785	27.233	
3/7/2004 13:09:00	69.00000	56.18	11.784	27.230	
3/7/2004 13:10:00	70.00000	56.21	11.785	27.233	
3/7/2004 13:11:00	71.00000	56.26	11.784	27.230	
3/7/2004 13:12:00	72.00000	56.3	11.785	27.233	
3/7/2004 13:13:00	73.00000	56.35	11.784	27.230	
3/7/2004 13:14:00	74.00000	56.38	11.784	27.230	
3/7/2004 13:15:00	75.00000	56.41	11.784	27.230	
3/7/2004 13:16:00	76.00000	56.46	11.784	27.230	
3/7/2004 13:17:00	77.00000	56.5	11.783	27.228	
3/7/2004 13:18:00	78.00000	56.53	11.783	27.228	
3/7/2004 13:19:00	79.00000	56.57	11.784	27.230	
3/7/2004 13:20:00	80.00000	56.59	11.783	27.228	
3/7/2004 13:21:00	81.00000	56.64	11.791	27.247	
3/7/2004 13:22:00	82.00000	56.68	11.791	27.247	
3/7/2004 13:23:00	83.00000	56.71	11.792	27.249	
3/7/2004 13:24:00	84.00000	56.75	11.792	27.249	
3/7/2004 13:25:00	85.00000	56.79	11.792	27.249	
3/7/2004 13:26:00	86.00000	56.82	11.792	27.249	
3/7/2004 13:27:00	87.00000	56.86	11.792	27.249	
3/7/2004 13:28:00	88.00000	56.9	11.792	27.249	
3/7/2004 13:29:00	89.00000	56.93	11.792	27.249	
3/7/2004 13:30:00	90.00000	56.98	11.793	27.251	
3/7/2004 13:31:00	91.00000	57.01	11.795	27.256	
3/7/2004 13:32:00	92.00000	57.05	11.802	27.272	
3/7/2004 13:33:00	93.00000	57.08	11.799	27.265	
3/7/2004 13:34:00	94.00000	57.11	11.8	27.267	
3/7/2004 13:35:00	95.00000	57.16	11.801	27.270	
3/7/2004 13:36:00	96.00000	57.2	11.807	27.284	
3/7/2004 13:37:00	97.00000	57.23	11.808	27.286	
3/7/2004 13:38:00	98.00000	57.27	11.809	27.288	
3/7/2004 13:39:00	99.00000	57.32	11.809	27.288	
3/7/2004 13:40:00	100.00000	57.36	11.809	27.288	
3/7/2004 13:41:00	101.00000	57.41	11.808	27.286	
3/7/2004 13:42:00	102.00000	57.45	11.815	27.302	
3/7/2004 13:43:00	103.00000	57.5	11.811	27.293	
3/7/2004 13:44:00	104.00000	57.54	11.815	27.302	
3/7/2004 13:45:00	105.00000	57.59	11.816	27.304	
3/7/2004 13:46:00	106.00000	57.63	11.816	27.304	
3/7/2004 13:47:00	107.00000	57.68	11.816	27.304	
3/7/2004 13:48:00	108.00000	57.72	11.816	27.304	
3/7/2004 13:49:00	109.00000	57.78	11.822	27.318	
3/7/2004 13:50:00	110.00000	57.83	11.821	27.316	
3/7/2004 13:51:00	111.00000	57.88	11.823	27.321	
3/7/2004 13:52:00	112.00000	57.92	11.823	27.321	
3/7/2004 13:53:00	113.00000	57.99	11.823	27.321	
3/7/2004 13:54:00	114.00000	58.04	11.829	27.334	
3/7/2004 13:55:00	115.00000	58.09	11.83	27.337	
3/7/2004 13:56:00	116.00000	58.15	11.831	27.339	
3/7/2004 13:57:00	117.00000	58.2	11.83	27.337	
3/7/2004 13:58:00	118.00000	58.26	11.83	27.337	
3/7/2004 13:59:00	119.00000	58.33	11.83	27.337	
3/7/2004 14:00:00	120.00000	58.38	11.83	27.337	
3/7/2004 14:01:00	121.00000	58.44	11.83	27.337	
3/7/2004 14:02:00	122.00000	58.51	11.832	27.341	
3/7/2004 14:03:00	123.00000	58.56	11.836	27.351	
3/7/2004 14:04:00	124.00000	58.63	11.837	27.353	
3/7/2004 14:05:00	125.00000	58.69	11.837	27.353	
3/7/2004 14:06:00	126.00000	58.76	11.836	27.351	
3/7/2004 14:07:00	127.00000	58.83	11.836	27.351	
3/7/2004 14:08:00	128.00000	58.89	11.836	27.351	
3/7/2004 14:09:00	129.00000	58.96	11.844	27.369	
3/7/2004 14:10:00	130.00000	59.03	11.846	27.374	
3/7/2004 14:11:00	131.00000	59.1	11.845	27.371	
3/7/2004 14:12:00	132.00000	59.17	11.845	27.371	
3/7/2004 14:13:00	133.00000	59.23	11.845	27.371	
3/7/2004 14:14:00	134.00000	59.28	11.845	27.371	
3/7/2004 14:15:00	135.00000	59.35	11.845	27.371	
3/7/2004 14:16:00	136.00000	59.41	11.847	27.376	
3/7/2004 14:17:00	137.00000	59.46	11.849	27.381	
3/7/2004 14:18:00	138.00000	59.53	11.852	27.388	
3/7/2004 14:19:00	139.00000	59.57	11.853	27.390	
3/7/2004 14:20:00	140.00000	59.64	11.853	27.390	
3/7/2004 14:21:00	141.00000	59.68	11.852	27.388	
3/7/2004 14:22:00	142.00000	59.75	11.852	27.388	
3/7/2004 14:23:00	143.00000	59.8	11.853	27.390	
3/7/2004 14:24:00	144.00000	59.84	11.856	27.397	
3/7/2004 14:25:00	145.00000	59.9	11.86	27.406	
3/7/2004 14:26:00	146.00000	59.95	11.861	27.408	
3/7/2004 14:27:00	147.00000	60	11.861	27.408	
3/7/2004 14:28:00	148.00000	60.04	11.861	27.408	
3/7/2004 14:29:00	149.00000	60.09	11.861	27.408	
3/7/2004 14:30:00	150.00000	60.13	11.861	27.408	
3/7/2004 14:31:00	151.00000	60.18	11.862	27.411	
3/7/2004 14:32:00	152.00000	60.22	11.871	27.432	
3/7/2004 14:33:00	153.00000	60.27	11.869	27.427	
3/7/2004 14:34:00	154.00000	60.31	11.87	27.429	
3/7/2004 14:35:00	155.00000	60.36	11.87	27.429	
3/7/2004 14:36:00	156.00000	60.4	11.87	27.429	
3/7/2004 14:37:00	157.00000	60.45	11.871	27.432	
3/7/2004 14:38:00	158.00000	60.5	11.876	27.443	
3/7/2004 14:39:00	159.00000	60.54	11.874	27.438	
3/7/2004 14:40:00	160.00000	60.59	11.878	27.448	
3/7/2004 14:41:00	161.00000	60.63	11.878	27.448	
3/7/2004 14:42:00	162.00000	60.67	11.878	27.448	
3/7/2004 14:43:00	163.00000	60.71	11.878	27.448	
3/7/2004 14:44:00	164.00000	60.74	11.878	27.448	
3/7/2004 14:45:00	165.00000	60.79	11.878	27.448	
3/7/2004 14:46:00	166.00000	60.83	11.878	27.448	
3/7/2004 14:47:00	167.00000	60.88	11.878	27.448	
3/7/2004 14:48:00	168.00000	60.9	11.878	27.448	
3/7/2004 14:49:00	169.00000	60.95	11.878	27.448	
3/7/2004 14:50:00	170.00000	60.99	11.878	27.448	
3/7/2004 14:51:00	171.00000	61.01	11.878	27.448	
3/7/2004 14:52:00	172.00000	61.06	11.878	27.448	
3/7/2004 14:53:00	173.00000	61.08	11.879	27.450	
3/7/2004 14:54:00	174.00000	61.13	11.888	27.471	
3/7/2004 14:55:00	175.00000	61.15	11.887	27.468	
3/7/2004 14:56:00	176.00000	61.19	11.887	27.468	
3/7/2004 14:57:00	177.00000	61.22	11.887	27.468	
3/7/2004 14:58:00	178.00000	61.26	11.888	27.471	
3/7/2004 14:59:00	179.00000	61.28	11.887	27.468	
3/7/2004 15:00:00	180.00000	61.32	11.887	27.468	
3/7/2004 15:01:00	181.00000	61.35	11.889	27.473	
3/7/2004 15:02:00	182.00000	61.37	11.891	27.478	
3/7/2004 15:03:00	183.00000	61.41	11.894	27.485	
3/7/2004 15:04:00	184.00000	61.44	11.895	27.487	
3/7/2004 15:05:00	185.00000	61.46	11.896	27.489	
3/7/2004 15:06:00	186.00000	61.51	11.896	27.489	
3/7/2004 15:07:00	187.00000	61.53	11.896	27.489	
3/7/2004 15:08:00	188.00000	61.55	11.896	27.489	
3/7/2004 15:09:00	189.00000	61.6	11.898	27.494	
3/7/2004 15:10:00	190.00000	61.62	11.907	27.515	
3/7/2004 15:11:00	191.00000	61.65	11.905	27.510	
3/7/2004 15:12:00	192.00000	61.69	11.904	27.508	
3/7/2004 15:13:00	193.00000	61.71	11.905	27.510	
3/7/2004 15:14:00	194.00000	61.76	11.907	27.515	
3/7/2004 15:15:00	195.00000	61.78	11.91	27.522	
3/7/2004 15:16:00	196.00000	61.8	11.913	27.529	
3/7/2004 15:17:00	197.00000	61.84	11.914	27.531	
3/7/2004 15:18:00	198.00000	61.87	11.914	27.531	
3/7/2004 15:19:00	199.00000	61.89	11.914	27.531	
3/7/2004 15:20:00	200.00000	61.93	11.915	27.533	
3/7/2004 15:21:00	201.00000	61.96	11.914	27.531	
3/7/2004 15:22:00	202.00000	61.98	11.915	27.533	
3/7/2004 15:23:00	203.00000	62.01	11.915	27.533	
3/7/2004 15:24:00	204.00000	62.05	11.924	27.554	
3/7/2004 15:25:00	205.00000	62.07	11.928	27.563	
3/7/2004 15:26:00	206.00000	62.1	11.923	27.552	
3/7/2004 15:27:00	207.00000	62.12	11.923	27.552	
3/7/2004 15:28:00	208.00000	62.15	11.923	27.552	
3/7/2004 15:29:00	209.00000	62.19	11.927	27.561	
3/7/2004 15:30:00	210.00000	62.21	11.928	27.563	
3/7/2004 15:31:00	211.00000	62.23	11.931	27.570	
3/7/2004 15:32:00	212.00000	62.25	11.931	27.570	
3/7/2004 15:33:00	213.00000	62.29	11.932	27.572	
3/7/2004 15:34:00	214.00000	62.32	11.931	27.570	
3/7/2004 15:35:00	215.00000	62.34	11.933	27.575	
3/7/2004 15:36:00	216.00000	62.37	11.939	27.589	
3/7/2004 15:37:00	217.00000	62.41	11.939	27.589	
3/7/2004 15:38:00	218.00000	62.43	11.94	27.591	
3/7/2004 15:39:00	219.00000	62.46	11.94	27.591	
3/7/2004 15:40:00	220.00000	62.5	11.941	27.593	
3/7/2004 15:41:00	221.00000	62.52	11.944	27.600	
3/7/2004 15:42:00	222.00000	62.57	11.949	27.612	
3/7/2004 15:43:00	223.00000	62.59	11.948	27.609	
3/7/2004 15:44:00	224.00000	62.64	11.948	27.609	
3/7/2004 15:45:00	225.00000	62.66	11.95	27.614	
3/7/2004 15:46:00	226.00000	62.7	11.951	27.616	
3/7/2004 15:47:00	227.00000	62.73	11.955	27.626	
3/7/2004 15:48:00	228.00000	62.75	11.956	27.628	
3/7/2004 15:49:00	229.00000	62.79	11.957	27.630	
3/7/2004 15:50:00	230.00000	62.83	11.956	27.628	
3/7/2004 15:51:00	231.00000	62.86	11.957	27.630	
3/7/2004 15:52:00	232.00000	62.9	11.957	27.630	
3/7/2004 15:53:00	233.00000	62.93	11.958	27.633	
3/7/2004 15:54:00	234.00000	62.97	11.961	27.639	
3/7/2004 15:55:00	235.00000	63	11.966	27.651	
3/7/2004 15:56:00	236.00000	63.04	11.965	27.649	
3/7/2004 15:57:00	237.00000	63.06	11.966	27.651	
3/7/2004 15:58:00	238.00000	63.11	11.971	27.663	
3/7/2004 15:59:00	239.00000	63.13	11.972	27.665	
3/7/2004 16:00:00	240.00000	63.18	11.973	27.667	
3/7/2004 16:01:00	241.00000	63.2	11.974	27.670	
3/7/2004 16:02:00	242.00000	63.24	11.974	27.670	
3/7/2004 16:03:00	243.00000	63.27	11.974	27.670	
3/7/2004 16:04:00	244.00000	63.31	11.974	27.670	
3/7/2004 16:05:00	245.00000	63.34	11.975	27.672	
3/7/2004 16:06:00	246.00000	63.38	11.975	27.672	
3/7/2004 16:07:00	247.00000	63.42	11.974	27.670	
3/7/2004 16:08:00	248.00000	63.45	11.975	27.672	
3/7/2004 16:09:00	249.00000	63.49	11.974	27.670	
3/7/2004 16:10:00	250.00000	63.52	11.974	27.670	
3/7/2004 16:11:00	251.00000	63.56	11.974	27.670	
3/7/2004 16:12:00	252.00000	63.58	11.976	27.674	
3/7/2004 16:13:00	253.00000	63.62	11.979	27.681	
3/7/2004 16:14:00	254.00000	63.65	11.982	27.688	
3/7/2004 16:15:00	255.00000	63.68	11.983	27.690	
3/7/2004 16:16:00	256.00000	63.71	11.984	27.693	
3/7/2004 16:17:00	257.00000	63.74	11.984	27.693	
3/7/2004 16:18:00	258.00000	63.78	11.984	27.693	
3/7/2004 16:19:00	259.00000	63.81	11.985	27.695	
3/7/2004 16:20:00	260.00000	63.84	11.988	27.702	
3/7/2004 16:21:00	261.00000	63.87	11.995	27.718	
3/7/2004 16:22:00	262.00000	63.9	11.992	27.711	
3/7/2004 16:23:00	263.00000	63.93	11.992	27.711	
3/7/2004 16:24:00	264.00000	63.96	11.993	27.713	
3/7/2004 16:25:00	265.00000	63.99	11.994	27.716	
3/7/2004 16:26:00	266.00000	64.01	11.997	27.723	
3/7/2004 16:27:00	267.00000	64.05	12.002	27.734	
3/7/2004 16:28:00	268.00000	64.08	12.002	27.734	
3/7/2004 16:29:00	269.00000	64.1	12.002	27.734	
3/7/2004 16:30:00	270.00000	64.12	12.002	27.734	
3/7/2004 16:31:00	271.00000	64.17	12.002	27.734	
3/7/2004 16:32:00	272.00000	64.19	12.004	27.739	
3/7/2004 16:33:00	273.00000	64.21	12.012	27.757	
3/7/2004 16:34:00	274.00000	64.26	12.011	27.755	
3/7/2004 16:35:00	275.00000	64.28	12.01	27.753	
3/7/2004 16:36:00	276.00000	64.33	12.011	27.755	
3/7/2004 16:37:00	277.00000	64.35	12.011	27.755	
3/7/2004 16:38:00	278.00000	64.39	12.016	27.767	
3/7/2004 16:39:00	279.00000	64.42	12.015	27.764	
3/7/2004 16:40:00	280.00000	64.46	12.019	27.774	
3/7/2004 16:41:00	281.00000	64.51	12.02	27.776	
3/7/2004 16:42:00	282.00000	64.53	12.02	27.776	
3/7/2004 16:43:00	283.00000	64.57	12.021	27.778	
3/7/2004 16:44:00	284.00000	64.62	12.02	27.776	
3/7/2004 16:45:00	285.00000	64.65	12.025	27.787	
3/7/2004 16:46:00	286.00000	64.69	12.022	27.780	
3/7/2004 16:47:00	287.00000	64.73	12.028	27.794	
3/7/2004 16:48:00	288.00000	64.78	12.029	27.797	
3/7/2004 16:49:00	289.00000	64.82	12.029	27.797	
3/7/2004 16:50:00	290.00000	64.84	12.029	27.797	
3/7/2004 16:51:00	291.00000	64.89	12.03	27.799	
3/7/2004 16:52:00	292.00000	64.93	12.03	27.799	
3/7/2004 16:53:00	293.00000	64.98	12.034	27.808	
3/7/2004 16:54:00	294.00000	65.02	12.037	27.815	
3/7/2004 16:55:00	295.00000	65.05	12.038	27.817	
3/7/2004 16:56:00	296.00000	65.09	12.038	27.817	
3/7/2004 16:57:00	297.00000	65.14	12.038	27.817	
3/7/2004 16:58:00	298.00000	65.18	12.038	27.817	
3/7/2004 16:59:00	299.00000	65.23	12.038	27.817	
3/7/2004 17:00:00	300.00000	65.27	12.038	27.817	
3/7/2004 17:01:00	301.00000	65.3	12.038	27.817	
3/7/2004 17:02:00	302.00000	65.34	12.038	27.817	
3/7/2004 17:03:00	303.00000	65.38	12.038	27.817	
3/7/2004 17:04:00	304.00000	65.42	12.039	27.820	
3/7/2004 17:05:00	305.00000	65.45	12.044	27.831	
3/7/2004 17:06:00	306.00000	65.5	12.049	27.843	
3/7/2004 17:07:00	307.00000	65.52	12.047	27.838	
3/7/2004 17:08:00	308.00000	65.56	12.048	27.841	
3/7/2004 17:09:00	309.00000	65.61	12.047	27.838	
3/7/2004 17:10:00	310.00000	65.64	12.047	27.838	
3/7/2004 17:11:00	311.00000	65.68	12.047	27.838	
3/7/2004 17:12:00	312.00000	65.72	12.048	27.841	
3/7/2004 17:13:00	313.00000	65.76	12.048	27.841	
3/7/2004 17:14:00	314.00000	65.79	12.048	27.841	
3/7/2004 17:15:00	315.00000	65.83	12.048	27.841	
3/7/2004 17:16:00	316.00000	65.86	12.049	27.843	
3/7/2004 17:17:00	317.00000	65.9	12.049	27.843	
3/7/2004 17:18:00	318.00000	65.94	12.049	27.843	
3/7/2004 17:19:00	319.00000	65.97	12.049	27.843	
3/7/2004 17:20:00	320.00000	66.01	12.049	27.843	
3/7/2004 17:21:00	321.00000	66.04	12.049	27.843	
3/7/2004 17:22:00	322.00000	66.08	12.05	27.845	
3/7/2004 17:23:00	323.00000	66.1	12.049	27.843	
3/7/2004 17:24:00	324.00000	66.13	12.049	27.843	
3/7/2004 17:25:00	325.00000	66.17	12.05	27.845	
3/7/2004 17:26:00	326.00000	66.19	12.049	27.843	
3/7/2004 17:27:00	327.00000	66.22	12.05	27.845	
3/7/2004 17:28:00	328.00000	66.26	12.051	27.847	
3/7/2004 17:29:00	329.00000	66.28	12.051	27.847	
3/7/2004 17:30:00	330.00000	66.31	12.052	27.850	
3/7/2004 17:31:00	331.00000	66.35	12.053	27.852	
3/7/2004 17:32:00	332.00000	66.37	12.055	27.857	
3/7/2004 17:33:00	333.00000	66.4	12.057	27.861	
3/7/2004 17:34:00	334.00000	66.5	12.119	28.005	
3/7/2004 17:35:00	335.00000	66.85	12.149	28.074	
3/7/2004 17:36:00	336.00000	67.07	12.164	28.109	
3/7/2004 17:37:00	337.00000	67.21	12.181	28.148	
3/7/2004 17:38:00	338.00000	67.3	12.198	28.187	
3/7/2004 17:39:00	339.00000	67.36	13.701	31.660	XD ENTERS WATER
3/7/2004 17:40:00	340.00000	67.44	16.476	38.073	
3/7/2004 17:41:00	341.00000	67.51	21.474	49.622	
3/7/2004 17:42:00	342.00000	67.57	21.423	49.504	
3/7/2004 17:43:00	343.00000	67.61	21.428	49.516	
3/7/2004 17:44:00	344.00000	67.63	21.427	49.514	
3/7/2004 17:45:00	345.00000	67.66	21.428	49.516	
3/7/2004 17:46:00	346.00000	67.68	21.427	49.514	
3/7/2004 17:47:00	347.00000	67.7	21.428	49.516	
3/7/2004 17:48:00	348.00000	67.72	22.38	51.716	
3/7/2004 17:49:00	349.00000	67.75	24.69	57.054	
3/7/2004 17:50:00	350.00000	67.77	25.759	59.524	
3/7/2004 17:51:00	351.00000	67.79	25.807	59.635	
3/7/2004 17:52:00	352.00000	67.81	25.81	59.642	PUMP STRING INSTALLED AT PROPER DEPTH
3/7/2004 17:53:00	353.00000	67.84	25.81	59.642	
3/7/2004 17:54:00	354.00000	67.84	25.811	59.644	
3/7/2004 17:55:00	355.00000	67.86	25.811	59.644	
3/7/2004 17:56:00	356.00000	67.88	25.811	59.644	
3/7/2004 17:57:00	357.00000	67.89	25.811	59.644	
3/7/2004 17:58:00	358.00000	67.9	25.812	59.646	
3/7/2004 17:59:00	359.00000	67.92	25.812	59.646	
3/7/2004 18:00:00	360.00000	67.93	25.812	59.646	
3/7/2004 18:01:00	361.00000	67.93	25.811	59.644	
3/7/2004 18:02:00	362.00000	67.95	25.811	59.644	
3/7/2004 18:03:00	363.00000	67.95	25.811	59.644	
3/7/2004 18:04:00	364.00000	67.96	25.811	59.644	
3/7/2004 18:05:00	365.00000	67.97	25.812	59.646	
3/7/2004 18:06:00	366.00000	67.97	25.811	59.644	
3/7/2004 18:07:00	367.00000	67.97	25.811	59.644	
3/7/2004 18:08:00	368.00000	67.99	25.812	59.646	
3/7/2004 18:09:00	369.00000	67.99	25.812	59.646	
3/7/2004 18:10:00	370.00000	67.99	25.811	59.644	
3/7/2004 18:11:00	371.00000	67.99	25.813	59.649	
3/7/2004 18:12:00	372.00000	68.01	25.812	59.646	
3/7/2004 18:13:00	373.00000	68.02	25.812	59.646	
3/7/2004 18:14:00	374.00000	68.02	25.813	59.649	
3/7/2004 18:15:00	375.00000	68.02	25.812	59.646	
3/7/2004 18:16:00	376.00000	68.02	25.812	59.646	
3/7/2004 18:17:00	377.00000	68.02	25.812	59.646	
3/7/2004 18:18:00	378.00000	68.03	25.812	59.646	
3/7/2004 18:19:00	379.00000	68.04	25.812	59.646	
3/7/2004 18:20:00	380.00000	68.04	25.813	59.649	
3/7/2004 18:21:00	381.00000	68.04	25.812	59.646	
3/7/2004 18:22:00	382.00000	68.04	25.812	59.646	
3/7/2004 18:23:00	383.00000	68.04	25.812	59.646	
3/7/2004 18:24:00	384.00000	68.06	25.811	59.644	
3/7/2004 18:25:00	385.00000	68.06	25.812	59.646	
3/7/2004 18:26:00	386.00000	68.06	25.774	59.559	PACKER INFLATION?
3/7/2004 18:27:00	387.00000	68.06	25.775	59.561	
3/7/2004 18:28:00	388.00000	68.06	25.776	59.563	
3/7/2004 18:29:00	389.00000	68.06	25.777	59.565	
3/7/2004 18:30:00	390.00000	68.06	25.777	59.565	
3/7/2004 18:31:00	391.00000	68.07	25.777	59.565	
3/7/2004 18:32:00	392.00000	68.07	25.778	59.568	
3/7/2004 18:33:00	393.00000	68.08	25.779	59.570	
3/7/2004 18:34:00	394.00000	68.08	25.779	59.570	
3/7/2004 18:35:00	395.00000	68.08	25.78	59.572	
3/7/2004 18:36:00	396.00000	68.08	25.783	59.579	
3/7/2004 18:37:00	397.00000	68.08	25.784	59.582	
3/7/2004 18:38:00	398.00000	68.08	25.783	59.579	
3/7/2004 18:39:00	399.00000	68.08	25.783	59.579	
3/7/2004 18:40:00	400.00000	68.08	25.783	59.579	
3/7/2004 18:41:00	401.00000	68.08	25.783	59.579	
3/7/2004 18:42:00	402.00000	68.08	25.787	59.589	
3/7/2004 18:43:00	403.00000	68.1	25.787	59.589	
3/7/2004 18:44:00	404.00000	68.11	25.787	59.589	
3/7/2004 18:45:00	405.00000	68.11	25.787	59.589	
3/7/2004 18:46:00	406.00000	68.11	25.787	59.589	
3/7/2004 18:47:00	407.00000	68.11	25.788	59.591	
3/7/2004 18:48:00	408.00000	68.11	25.787	59.589	
3/7/2004 18:49:00	409.00000	68.11	25.788	59.591	
3/7/2004 18:50:00	410.00000	68.11	25.788	59.591	
3/7/2004 18:51:00	411.00000	68.11	25.788	59.591	
3/7/2004 18:52:00	412.00000	68.11	25.787	59.589	
3/7/2004 18:53:00	413.00000	68.11	25.788	59.591	
3/7/2004 18:54:00	414.00000	68.11	25.788	59.591	
3/7/2004 18:55:00	415.00000	68.13	25.787	59.589	
3/7/2004 18:56:00	416.00000	68.12	25.788	59.591	
3/7/2004 18:57:00	417.00000	68.13	25.788	59.591	
3/7/2004 18:58:00	418.00000	68.13	25.788	59.591	
3/7/2004 18:59:00	419.00000	68.13	25.788	59.591	
3/7/2004 19:00:00	420.00000	68.13	25.788	59.591	
3/7/2004 19:01:00	421.00000	68.13	25.788	59.591	
3/7/2004 19:02:00	422.00000	68.13	25.788	59.591	
3/7/2004 19:03:00	423.00000	68.13	25.788	59.591	
3/7/2004 19:04:00	424.00000	68.13	25.788	59.591	
3/7/2004 19:05:00	425.00000	68.13	25.788	59.591	
3/7/2004 19:06:00	426.00000	68.13	25.788	59.591	
3/7/2004 19:07:00	427.00000	68.13	25.788	59.591	
3/7/2004 19:08:00	428.00000	68.13	25.788	59.591	
3/7/2004 19:09:00	429.00000	68.13	25.788	59.591	
3/7/2004 19:10:00	430.00000	68.14	25.788	59.591	
3/7/2004 19:11:00	431.00000	68.14	25.788	59.591	
3/7/2004 19:12:00	432.00000	68.14	25.667	59.311	FIRST TEST PUMPING EVENT
3/7/2004 19:13:00	433.00000	68.13	25.574	59.096	
3/7/2004 19:14:00	434.00000	68.14	25.595	59.145	
3/7/2004 19:15:00	435.00000	68.15	25.58	59.110	
3/7/2004 19:16:00	436.00000	68.15	25.584	59.120	
3/7/2004 19:17:00	437.00000	68.17	25.589	59.131	
3/7/2004 19:18:00	438.00000	68.2	25.595	59.145	
3/7/2004 19:19:00	439.00000	68.22	25.599	59.154	
3/7/2004 19:20:00	440.00000	68.24	25.604	59.166	
3/7/2004 19:21:00	441.00000	68.26	25.61	59.180	
3/7/2004 19:22:00	442.00000	68.29	25.615	59.191	
3/7/2004 19:23:00	443.00000	68.29	25.621	59.205	
3/7/2004 19:24:00	444.00000	68.31	25.626	59.217	
3/7/2004 19:25:00	445.00000	68.33	25.631	59.228	
3/7/2004 19:26:00	446.00000	68.33	25.636	59.240	
3/7/2004 19:27:00	447.00000	68.35	25.641	59.251	
3/7/2004 19:28:00	448.00000	68.35	25.646	59.263	
3/7/2004 19:29:00	449.00000	68.38	25.65	59.272	
3/7/2004 19:30:00	450.00000	68.38	25.68	59.341	PUMP OFF
3/7/2004 19:31:00	451.00000	68.4	25.781	59.575	
3/7/2004 19:32:00	452.00000	68.4	25.785	59.584	
3/7/2004 19:33:00	453.00000	68.4	25.787	59.589	
3/7/2004 19:34:00	454.00000	68.41	25.603	59.163	SECOND TEST PUMPING
3/7/2004 19:35:00	455.00000	68.42	25.257	58.364	
3/7/2004 19:36:00	456.00000	68.42	25.303	58.470	
3/7/2004 19:37:00	457.00000	68.42	25.37	58.625	
3/7/2004 19:38:00	458.00000	68.42	25.368	58.620	
3/7/2004 19:39:00	459.00000	68.44	25.368	58.620	
3/7/2004 19:40:00	460.00000	68.44	25.368	58.620	
3/7/2004 19:41:00	461.00000	68.44	25.367	58.618	
3/7/2004 19:42:00	462.00000	68.44	25.364	58.611	
3/7/2004 19:43:00	463.00000	68.44	25.364	58.611	
3/7/2004 19:44:00	464.00000	68.44	25.364	58.611	
3/7/2004 19:45:00	465.00000	68.44	25.364	58.611	
3/7/2004 19:46:00	466.00000	68.44	25.366	58.616	
3/7/2004 19:47:00	467.00000	68.44	25.361	58.604	
3/7/2004 19:48:00	468.00000	68.44	25.366	58.616	
3/7/2004 19:49:00	469.00000	68.44	25.363	58.609	
3/7/2004 19:50:00	470.00000	68.44	25.36	58.602	
3/7/2004 19:51:00	471.00000	68.44	25.365	58.613	
3/7/2004 19:52:00	472.00000	68.44	25.361	58.604	
3/7/2004 19:53:00	473.00000	68.44	25.366	58.616	
3/7/2004 19:54:00	474.00000	68.44	25.361	58.604	
3/7/2004 19:55:00	475.00000	68.44	25.361	58.604	
3/7/2004 19:56:00	476.00000	68.44	25.359	58.600	

3/7/2004 19:57:00	477.00000	68.44	25.359	58.600	
3/7/2004 19:58:00	478.00000	68.44	25.36	58.602	
3/7/2004 19:59:00	479.00000	68.44	25.361	58.604	
3/7/2004 20:00:00	480.00000	68.44	25.361	58.604	
3/7/2004 20:01:00	481.00000	68.44	25.357	58.595	
3/7/2004 20:02:00	482.00000	68.44	25.361	58.604	
3/7/2004 20:03:00	483.00000	68.44	25.362	58.607	
3/7/2004 20:04:00	484.00000	68.44	25.364	58.611	
3/7/2004 20:05:00	485.00000	68.44	25.362	58.607	
3/7/2004 20:06:00	486.00000	68.44	25.36	58.602	
3/7/2004 20:07:00	487.00000	68.44	25.362	58.607	
3/7/2004 20:08:00	488.00000	68.44	25.357	58.595	
3/7/2004 20:09:00	489.00000	68.44	25.359	58.600	
3/7/2004 20:10:00	490.00000	68.44	25.358	58.597	
3/7/2004 20:11:00	491.00000	68.44	25.359	58.600	
3/7/2004 20:12:00	492.00000	68.44	25.731	59.459	PUMP OFF
3/7/2004 20:13:00	493.00000	68.44	25.763	59.533	RECOVERY
3/7/2004 20:14:00	494.00000	68.44	25.772	59.554	
3/7/2004 20:15:00	495.00000	68.44	25.778	59.568	
3/7/2004 20:16:00	496.00000	68.44	25.781	59.575	
3/7/2004 20:17:00	497.00000	68.44	25.783	59.579	
3/7/2004 20:18:00	498.00000	68.44	25.785	59.584	
3/7/2004 20:19:00	499.00000	68.44	25.787	59.589	
3/7/2004 20:20:00	500.00000	68.44	25.788	59.591	
3/7/2004 20:21:00	501.00000	68.44	25.789	59.593	
3/7/2004 20:22:00	502.00000	68.44	25.79	59.596	
3/7/2004 20:23:00	503.00000	68.44	25.79	59.596	
3/7/2004 20:24:00	504.00000	68.44	25.791	59.598	
3/7/2004 20:25:00	505.00000	68.44	25.792	59.600	
3/7/2004 20:26:00	506.00000	68.44	25.792	59.600	
3/7/2004 20:27:00	507.00000	68.44	25.792	59.600	
3/7/2004 20:28:00	508.00000	68.44	25.793	59.602	
3/7/2004 20:29:00	509.00000	68.44	25.793	59.602	
3/7/2004 20:30:00	510.00000	68.44	25.793	59.602	
3/7/2004 20:31:00	511.00000	68.44	25.793	59.602	
3/7/2004 20:32:00	512.00000	68.44	25.794	59.605	
3/7/2004 20:33:00	513.00000	68.45	25.794	59.605	
3/7/2004 20:34:00	514.00000	68.44	25.794	59.605	
3/7/2004 20:35:00	515.00000	68.44	25.794	59.605	
3/7/2004 20:36:00	516.00000	68.44	25.794	59.605	
3/7/2004 20:37:00	517.00000	68.44	25.794	59.605	
3/7/2004 20:38:00	518.00000	68.44	25.795	59.607	
3/7/2004 20:39:00	519.00000	68.44	25.794	59.605	
3/7/2004 20:40:00	520.00000	68.44	25.794	59.605	
3/7/2004 20:41:00	521.00000	68.44	25.794	59.605	
3/7/2004 20:42:00	522.00000	68.44	25.794	59.605	
3/7/2004 20:43:00	523.00000	68.44	25.794	59.605	
3/7/2004 20:44:00	524.00000	68.44	25.794	59.605	
3/7/2004 20:45:00	525.00000	68.44	25.795	59.607	
3/7/2004 20:46:00	526.00000	68.44	25.795	59.607	
3/7/2004 20:47:00	527.00000	68.44	25.795	59.607	
3/7/2004 20:48:00	528.00000	68.44	25.795	59.607	
3/7/2004 20:49:00	529.00000	68.44	25.795	59.607	
3/7/2004 20:50:00	530.00000	68.44	25.795	59.607	
3/7/2004 20:51:00	531.00000	68.44	25.795	59.607	
3/7/2004 20:52:00	532.00000	68.44	25.795	59.607	
3/7/2004 20:53:00	533.00000	68.44	25.794	59.605	
3/7/2004 20:54:00	534.00000	68.44	25.795	59.607	
3/7/2004 20:55:00	535.00000	68.44	25.794	59.605	
3/7/2004 20:56:00	536.00000	68.44	25.795	59.607	
3/7/2004 20:57:00	537.00000	68.43	25.795	59.607	
3/7/2004 20:58:00	538.00000	68.44	25.794	59.605	
3/7/2004 20:59:00	539.00000	68.43	25.795	59.607	
3/7/2004 21:00:00	540.00000	68.43	25.795	59.607	
3/7/2004 21:01:00	541.00000	68.42	25.795	59.607	
3/7/2004 21:02:00	542.00000	68.42	25.795	59.607	
3/7/2004 21:03:00	543.00000	68.42	25.795	59.607	
3/7/2004 21:04:00	544.00000	68.42	25.795	59.607	
3/7/2004 21:05:00	545.00000	68.42	25.795	59.607	
3/7/2004 21:06:00	546.00000	68.42	25.795	59.607	
3/7/2004 21:07:00	547.00000	68.42	25.795	59.607	
3/7/2004 21:08:00	548.00000	68.42	25.794	59.605	
3/7/2004 21:09:00	549.00000	68.42	25.794	59.605	
3/7/2004 21:10:00	550.00000	68.42	25.794	59.605	
3/7/2004 21:11:00	551.00000	68.42	25.795	59.607	
3/7/2004 21:12:00	552.00000	68.42	25.795	59.607	
3/7/2004 21:13:00	553.00000	68.42	25.795	59.607	
3/7/2004 21:14:00	554.00000	68.42	25.794	59.605	
3/7/2004 21:15:00	555.00000	68.42	25.795	59.607	
3/7/2004 21:16:00	556.00000	68.41	25.794	59.605	
3/7/2004 21:17:00	557.00000	68.42	25.795	59.607	
3/7/2004 21:18:00	558.00000	68.42	25.795	59.607	
3/7/2004 21:19:00	559.00000	68.41	25.795	59.607	
3/7/2004 21:20:00	560.00000	68.41	25.795	59.607	
3/7/2004 21:21:00	561.00000	68.4	25.795	59.607	
3/7/2004 21:22:00	562.00000	68.4	25.795	59.607	
3/7/2004 21:23:00	563.00000	68.4	25.795	59.607	
3/7/2004 21:24:00	564.00000	68.4	25.794	59.605	
3/7/2004 21:25:00	565.00000	68.4	25.795	59.607	
3/7/2004 21:26:00	566.00000	68.4	25.795	59.607	
3/7/2004 21:27:00	567.00000	68.4	25.794	59.605	
3/7/2004 21:28:00	568.00000	68.4	25.795	59.607	
3/7/2004 21:29:00	569.00000	68.4	25.795	59.607	
3/7/2004 21:30:00	570.00000	68.4	25.795	59.607	
3/7/2004 21:31:00	571.00000	68.4	25.794	59.605	
3/7/2004 21:32:00	572.00000	68.4	25.794	59.605	
3/7/2004 21:33:00	573.00000	68.4	25.794	59.605	
3/7/2004 21:34:00	574.00000	68.4	25.793	59.602	
3/7/2004 21:35:00	575.00000	68.4	25.794	59.605	
3/7/2004 21:35:02	575.03333	68.4	25.794	59.605	BEGIN HI RES DATA
3/7/2004 21:35:04	575.06667	68.4	25.794	59.605	
3/7/2004 21:35:06	575.10000	68.4	25.794	59.605	
3/7/2004 21:35:08	575.13333	68.4	25.794	59.605	
3/7/2004 21:35:10	575.16667	68.4	25.794	59.605	
3/7/2004 21:35:12	575.20000	68.4	25.794	59.605	
3/7/2004 21:35:14	575.23333	68.4	25.794	59.605	
3/7/2004 21:35:16	575.26667	68.4	25.794	59.605	
3/7/2004 21:35:18	575.30000	68.4	25.794	59.605	
3/7/2004 21:35:20	575.33333	68.4	25.794	59.605	
3/7/2004 21:35:22	575.36667	68.4	25.794	59.605	
3/7/2004 21:35:24	575.40000	68.4	25.794	59.605	
3/7/2004 21:35:26	575.43333	68.4	25.794	59.605	
3/7/2004 21:35:28	575.46667	68.4	25.794	59.605	
3/7/2004 21:35:30	575.50000	68.4	25.794	59.605	
3/7/2004 21:35:32	575.53333	68.4	25.794	59.605	
3/7/2004 21:35:34	575.56667	68.4	25.794	59.605	
3/7/2004 21:35:36	575.60000	68.4	25.794	59.605	
3/7/2004 21:35:38	575.63333	68.4	25.794	59.605	
3/7/2004 21:35:40	575.66667	68.4	25.794	59.605	
3/7/2004 21:35:42	575.70000	68.4	25.794	59.605	
3/7/2004 21:35:44	575.73333	68.4	25.794	59.605	
3/7/2004 21:35:46	575.76667	68.4	25.794	59.605	
3/7/2004 21:35:48	575.80000	68.4	25.794	59.605	
3/7/2004 21:35:50	575.83333	68.4	25.794	59.605	
3/7/2004 21:35:52	575.86667	68.4	25.793	59.602	
3/7/2004 21:35:54	575.90000	68.4	25.793	59.602	
3/7/2004 21:35:56	575.93333	68.4	25.793	59.602	
3/7/2004 21:35:58	575.96667	68.4	25.793	59.602	
3/7/2004 21:36:00	576.00000	68.4	25.794	59.605	BEGIN AQUIFER TEST
3/7/2004 21:36:02	576.03333	68.4	25.655	59.284	PUMP ON
3/7/2004 21:36:04	576.06667	68.4	25.523	58.979	
3/7/2004 21:36:06	576.10000	68.4	25.437	58.780	
3/7/2004 21:36:08	576.13333	68.4	25.35	58.579	
3/7/2004 21:36:10	576.16667	68.4	25.404	58.704	
3/7/2004 21:36:12	576.20000	68.4	25.453	58.817	
3/7/2004 21:36:14	576.23333	68.4	25.455	58.821	
3/7/2004 21:36:16	576.26667	68.4	25.456	58.824	
3/7/2004 21:36:18	576.30000	68.4	25.453	58.817	
3/7/2004 21:36:20	576.33333	68.4	25.445	58.798	
3/7/2004 21:36:22	576.36667	68.4	25.438	58.782	
3/7/2004 21:36:24	576.40000	68.4	25.433	58.771	
3/7/2004 21:36:26	576.43333	68.4	25.432	58.768	
3/7/2004 21:36:28	576.46667	68.4	25.431	58.766	
3/7/2004 21:36:30	576.50000	68.4	25.432	58.768	
3/7/2004 21:36:32	576.53333	68.4	25.431	58.766	
3/7/2004 21:36:34	576.56667	68.4	25.427	58.757	
3/7/2004 21:36:36	576.60000	68.4	25.426	58.754	
3/7/2004 21:36:38	576.63333	68.4	25.423	58.747	
3/7/2004 21:36:40	576.66667	68.4	25.423	58.747	
3/7/2004 21:36:42	576.70000	68.4	25.424	58.750	
3/7/2004 21:36:44	576.73333	68.4	25.423	58.747	
3/7/2004 21:36:46	576.76667	68.39	25.421	58.743	
3/7/2004 21:36:48	576.80000	68.39	25.419	58.738	
3/7/2004 21:36:50	576.83333	68.39	25.418	58.736	
3/7/2004 21:36:52	576.86667	68.39	25.419	58.738	
3/7/2004 21:36:54	576.90000	68.4	25.42	58.741	
3/7/2004 21:36:56	576.93333	68.39	25.42	58.741	
3/7/2004 21:36:58	576.96667	68.39	25.419	58.738	
3/7/2004 21:37:00	577.00000	68.39	25.419	58.738	
3/7/2004 21:37:02	577.03333	68.39	25.417	58.734	
3/7/2004 21:37:04	577.06667	68.39	25.417	58.734	
3/7/2004 21:37:06	577.10000	68.39	25.417	58.734	
3/7/2004 21:37:08	577.13333	68.4	25.415	58.729	
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3/8/2004 2:38:38	878.63333	68.45	25.768	59.545	
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3/8/2004 2:38:48	878.80000	68.47	25.769	59.547	
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3/8/2004 2:39:30	879.50000	68.47	25.772	59.554	
3/8/2004 2:39:32	879.53333	68.47	25.772	59.554	
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3/8/2004 2:48:00	888.00000	68.47	25.785	59.584	
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3/8/2004 2:50:00	890.00000	68.47	25.786	59.586	
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3/8/2004 2:52:00	892.00000	68.47	25.786	59.586	
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3/8/2004 3:46:00	946.00000	68.44	25.791	59.598	
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3/8/2004 3:48:00	948.00000	68.44	25.792	59.600	
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3/8/2004 3:51:00	951.00000	68.43	25.791	59.598	
3/8/2004 3:52:00	952.00000	68.43	25.791	59.598	
3/8/2004 3:53:00	953.00000	68.44	25.792	59.600	
3/8/2004 3:54:00	954.00000	68.44	25.791	59.598	
3/8/2004 3:55:00	955.00000	68.43	25.791	59.598	
3/8/2004 3:56:00	956.00000	68.42	25.791	59.598	
3/8/2004 3:57:00	957.00000	68.42	25.792	59.600	
3/8/2004 3:58:00	958.00000	68.43	25.792	59.600	
3/8/2004 3:59:00	959.00000	68.42	25.792	59.600	
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3/8/2004 4:05:00	965.00000	68.42	25.792	59.600	
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3/8/2004 4:07:00	967.00000	68.42	25.792	59.600	
3/8/2004 4:08:00	968.00000	68.42	25.793	59.602	
3/8/2004 4:09:00	969.00000	68.42	25.792	59.600	
3/8/2004 4:10:00	970.00000	68.42	25.792	59.600	
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3/8/2004 4:13:00	973.00000	68.42	25.793	59.602	
3/8/2004 4:14:00	974.00000	68.42	25.792	59.600	
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3/8/2004 4:19:00	979.00000	68.42	25.793	59.602	
3/8/2004 4:20:00	980.00000	68.42	25.793	59.602	
3/8/2004 4:21:00	981.00000	68.41	25.792	59.600	
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3/8/2004 4:31:00	991.00000	68.4	25.792	59.600	
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3/8/2004 4:33:00	993.00000	68.4	25.793	59.602	
3/8/2004 4:34:00	994.00000	68.4	25.793	59.602	
3/8/2004 4:35:00	995.00000	68.4	25.793	59.602	
3/8/2004 4:36:00	996.00000	68.4	25.793	59.602	
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3/8/2004 4:38:00	998.00000	68.4	25.793	59.602	
3/8/2004 4:39:00	999.00000	68.4	25.793	59.602	
3/8/2004 4:40:00	1000.00000	68.4	25.793	59.602	
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3/8/2004 5:13:00	1033.00000	68.38	25.794	59.605	
3/8/2004 5:14:00	1034.00000	68.38	25.795	59.607	
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3/8/2004 6:06:00	1086.00000	68.36	25.794	59.605	
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3/8/2004 6:27:00	1107.00000	68.35	25.794	59.605	
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3/8/2004 18:40:00	1840.00000	56.98	11.909	27.519
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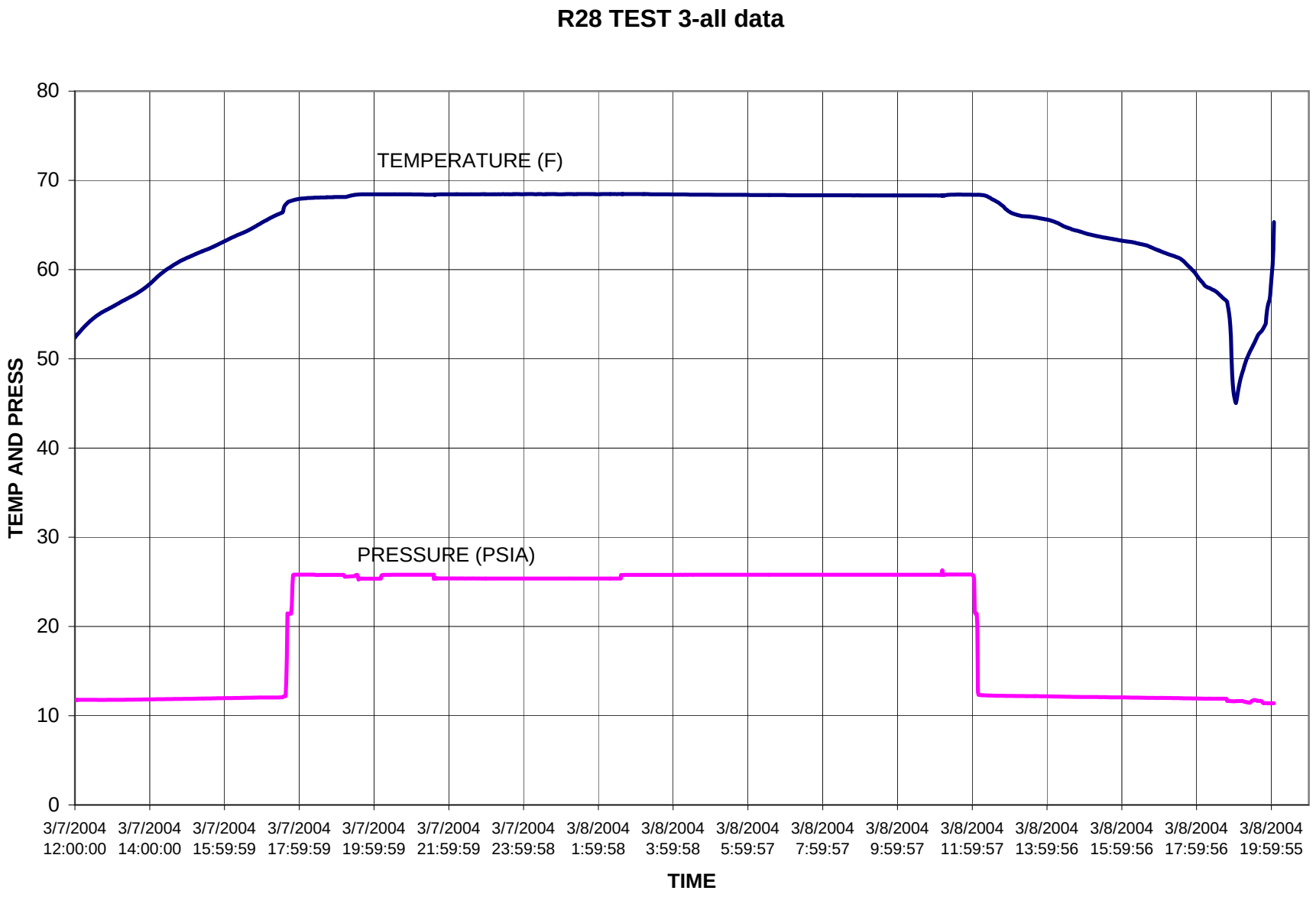
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TEMPERATURE (F)
PRESSURE (PSIA)
TEMP AND PRESS
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70
60
50
40
30
20
10
0
3/7/2004 12:00:00
3/7/2004 14:00:00
3/7/2004 15:59:59
3/7/2004 17:59:59
3/7/2004 19:59:59
3/7/2004 21:59:59
3/7/2004 23:59:58
3/8/2004 1:59:58
3/8/2004 3:59:58
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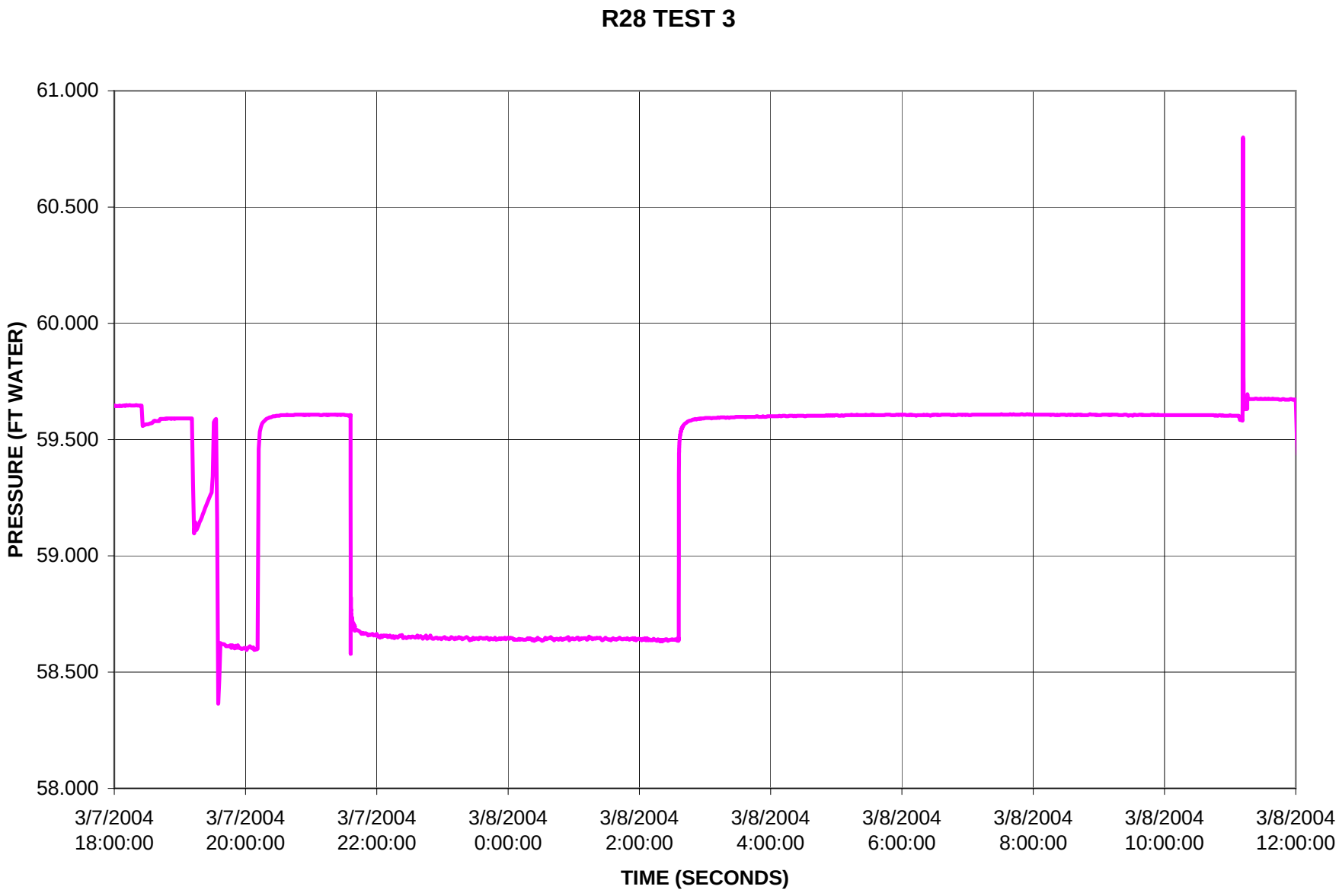
3/8/2004 19:59:55
TIME


R28 TEST 3
61.000
60.500
60.000
59.500
59.000
58.500
58.000
PRESSURE (FT WATER)
3/7/2004 18:00:00
3/7/2004 20:00:00
3/7/2004 22:00:00
3/8/2004 0:00:00
3/8/2004 2:00:00
3/8/2004 4:00:00
3/8/2004 6:00:00
3/8/2004 8:00:00
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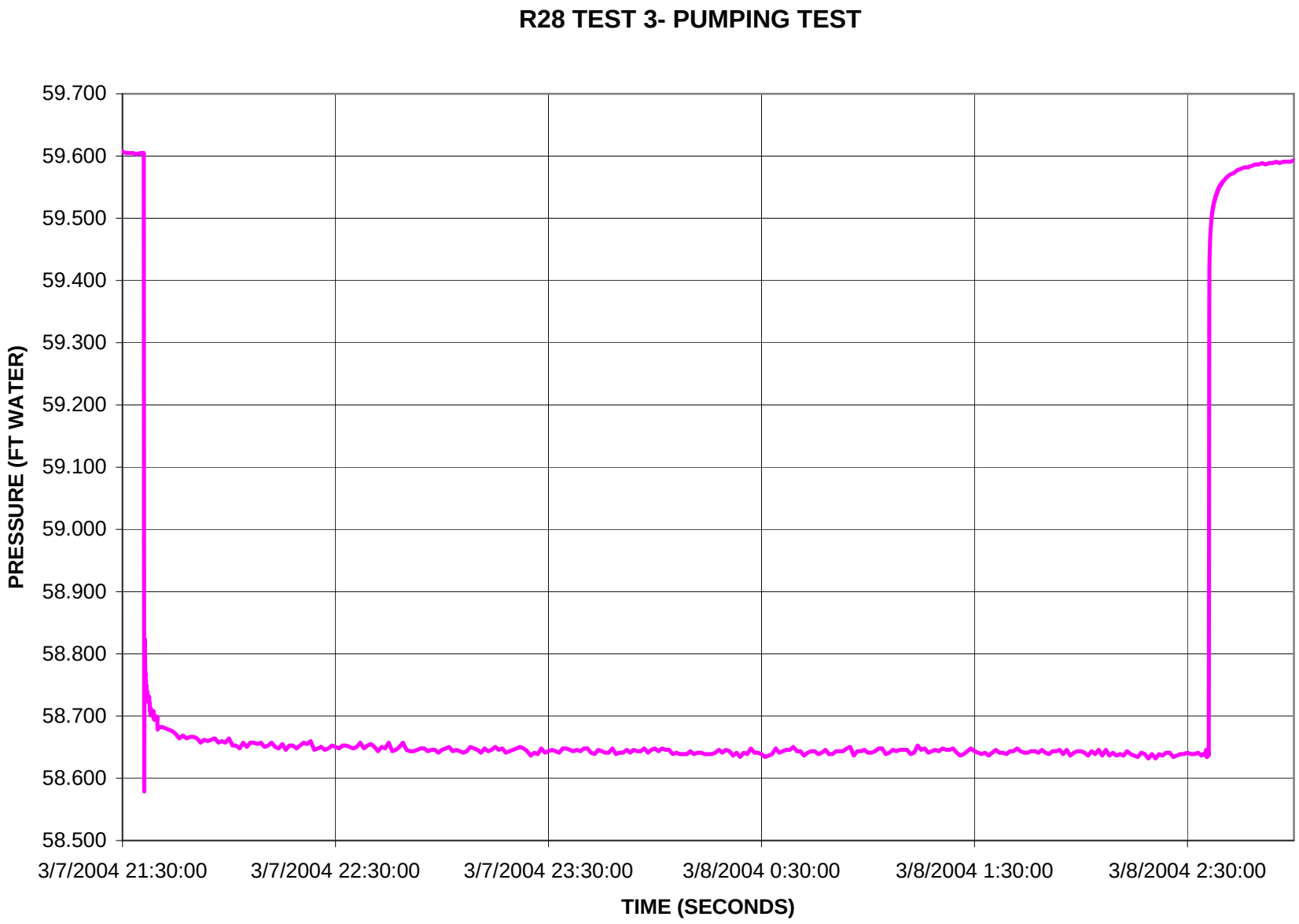
3/8/2004 12:00:00
TIME (SECONDS)


R28 TEST 3- PUMPING TEST
PRESSURE (FT WATER)
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59.600
59.500
59.400
59.300
59.200
59.100
59.000
58.900
58.800
58.700
58.600
58.500
3/7/2004 21:30:00
3/7/2004 22:30:00
3/7/2004 23:30:00
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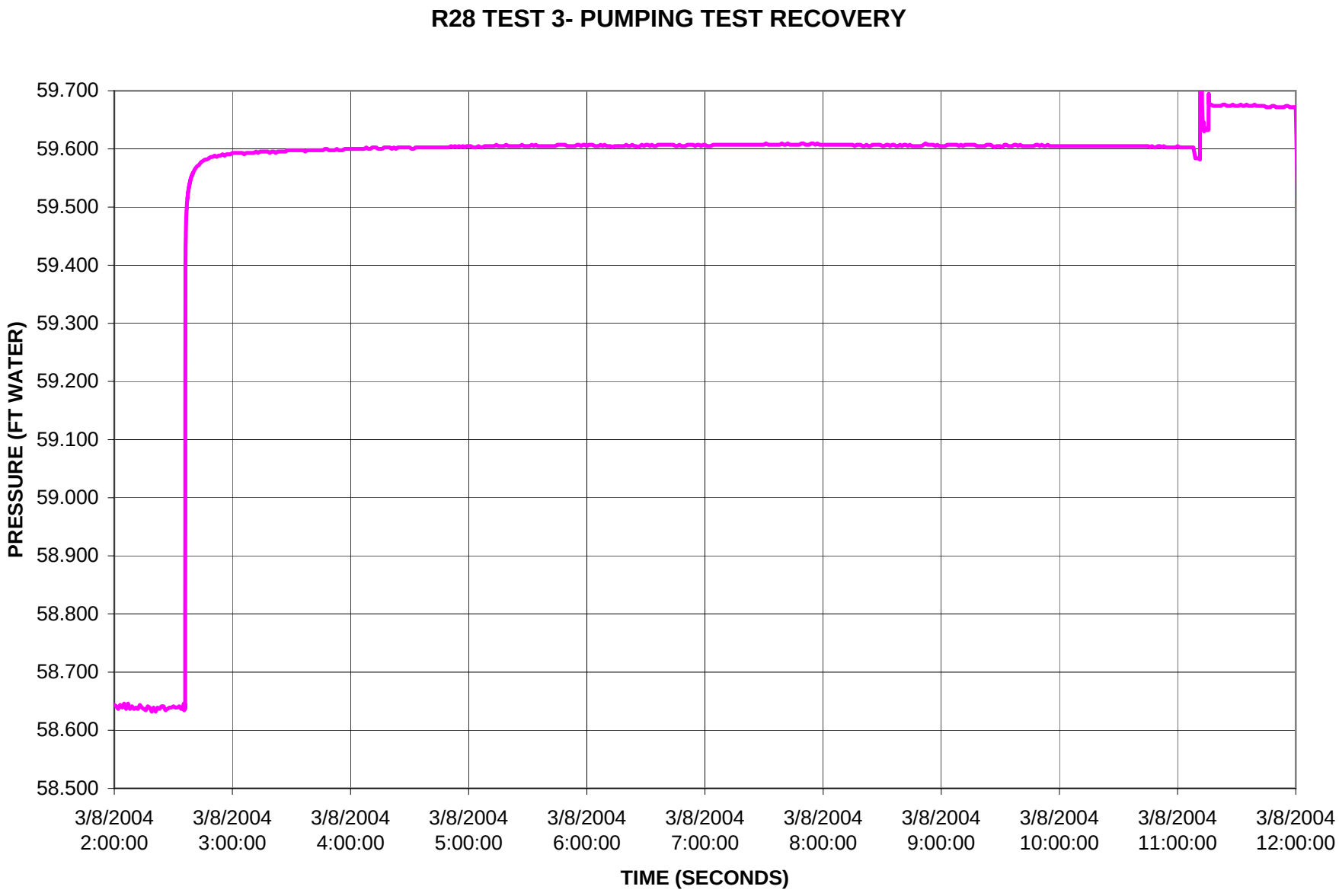
3/8/2004 1:30:00
3/8/2004 2:30:00
TIME (SECONDS)


R28 TEST 3- PUMPING TEST RECOVERY
PRESSURE (FT WATER)
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59.600
59.500
59.400
59.300
59.200
59.100
59.000
58.900
58.800
58.700
58.600
58.500
3/8/2004 2:00:00
3/8/2004 3:00:00
3/8/2004 4:00:00
3/8/2004 5:00:00
3/8/2004 6:00:00
3/8/2004 7:00:00
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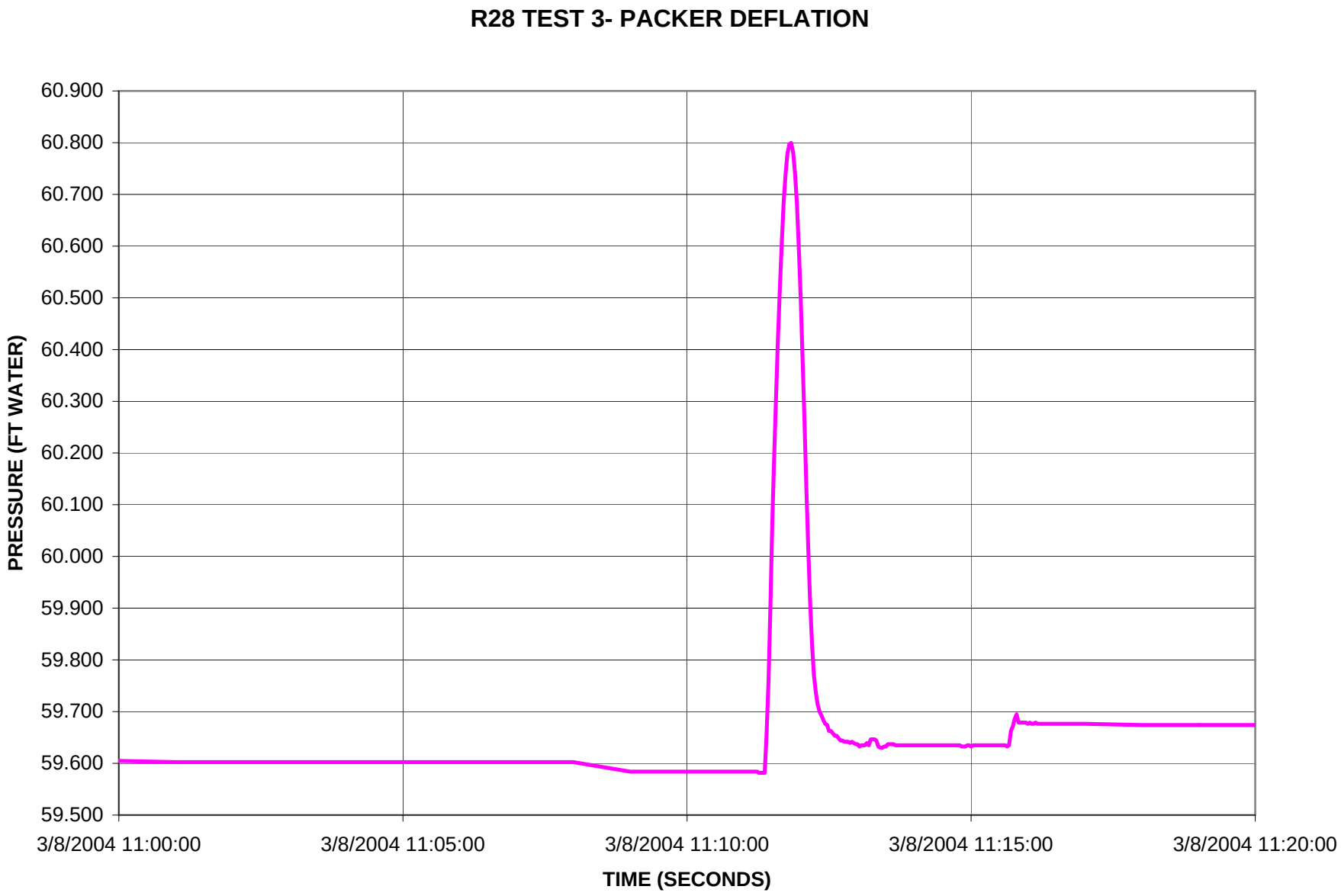
TIME (SECONDS)


R28 TEST 3- PACKER DEFLATION
PRESSURE (FT WATER)
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60.800
60.700
60.600
60.500
60.400
60.300
60.200
60.100
60.000
59.900
59.800
59.700
59.600
59.500
3/8/2004 11:00:00
3/8/2004 11:05:00
3/8/2004 11:10:00
3/8/2004 11:15:00
3/8/2004 11:20:00
TIME (SECONDS)

Appendix F

NMED Discharge Approval and Discharge Media Analytical Results

Bob:

This email confirms NMED approval for the discharge of drilling and development water from Workplan Well R-28 (described below). The drilling and development water must be discharged as described in the Hydrogeologic Workplan NOI dated July 16, 2002.

Curt Frischkorn
NMED Ground Water Quality Bureau
(505) 827-0078

-----Original Message-----
From: Enz, Robert D. [mailto:renz@doeal.gov]
Sent: Wednesday, March 17, 2004 12:52 PM
To: 'curt_frischkorn@nmenv.state.nm.us'; 'john_young@nmenv.state.nm.us'
Cc: 'bbeers@lanl.gov'; 'bbockisch@kleinfelder.com'; Whitacre, Thomas; Johansen, Mathew
Subject: FW: DRAFT E-MAIL--Land Application of Drilling and Development Wa ter From R-28

Dear Curt and John,

I am transmitting the analytical screening data from the sampling of Workplan Well R-28 drilling and development water. Workplan Well R-28 is located in Mortandad Canyon. Approximately 28,000 gallons of drilling and development water was recently produced during the construction of R-28. The details are as follows.

Pit Water

Approximately 28,000 gallons of drilling and development water are being stored in a lined pit at the R-28 drill site. Screening analysis of the pit water produced the following results:

1) No PCBs were detected at concentrations greater than Method Detection Limits.
2) No VOAs were detected with the exception of acetone at 5600 ppb. It is believed that the acetone detected in the pit water is an artifact of the drilling additive, Quickfoam, that contains isopropyl alcohol. DOE is currently discussing this issue with drilling product's suppliers other than Baroid (the Quickfoam supplier).
3) No SVOAs were detected in the sample.
4) Gross alpha activity is 1.67 pCi/L (+/-0.680 pCi/L). The EPA drinking water MCL is 15 pCi/L.
5) Tritium results were non detect (DL=397 pCi/L).
6) No perchlorate was detected in the sample at concentrations greater than 2 ppb (MDL=2.0 ppb).
7) Screening results show that no contaminants exceeded NM WQCC Regulation 3103 ground water standards with the exception of the following:

- Cr=0.14 ppm (ground water std=0.05 ppm)

DOE proposes to land apply the R-28 drilling and development water to the unpaved access road that begins at the mesa top and ends at the drill site. The application will be conducted in accordance with the terms and conditions of the Hydrogeologic Workplan NOI.

Please contact me at 667-7640 or Bob Beers at 667-7969 (office) or 699-2342 (cell) should you have any questions regarding this notification. This notification will be formally transmitted to you via a letter signed by Mat Johansen, DOE Ground Water Compliance Manager.

Bob Enz

HALL
ENVIRONMENTAL
ANALYSIS
LABORATORY

COVER LETTER

February 27, 2004

Mark Everett
Kleinfelder
8300 Jefferson, NE Suite B
Albuquerque, NM 87113
TEL: (505) 344-7373
FAX (505) 344-1711

RE: LANL WELLS R28 Order No.: 0401186

Dear Mark Everett:

Hall Environmental Analysis Laboratory received 3 samples on 1/27/2004 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman, Business Manager
Nancy McDuffie, Laboratory Manager

4901 Hawkins NE ■ Suite D ■ Albuquerque, NM 87109
505.345.3975 ■ Fax 505.345.4107
www.hallenvironmental.com

Hall Environmental Analysis Laboratory

Date: *27-Feb-04*

CLIENT: Kleinfelder
Lab Order: 0401186
Project: LANL WELLS R28
Lab ID: 0401186-02

Client Sample ID: R28 Pit
Collection Date: 1/26/2004 1:40:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8082: PCB'S						Analyst: JMP
Aroclor 1016	ND	0.050		mg/Kg	1	2/7/2004 3:02:47 PM
Aroclor 1221	ND	0.25		mg/Kg	1	2/7/2004 3:02:47 PM
Aroclor 1232	ND	0.050		mg/Kg	1	2/7/2004 3:02:47 PM
Aroclor 1242	ND	0.050		mg/Kg	1	2/7/2004 3:02:47 PM
Aroclor 1248	ND	0.050		mg/Kg	1	2/7/2004 3:02:47 PM
Aroclor 1254	ND	0.050		mg/Kg	1	2/7/2004 3:02:47 PM
Aroclor 1260	ND	0.050		mg/Kg	1	2/7/2004 3:02:47 PM
Surr: Decachlorobiphenyl	86.8	50.1-115		%REC	1	2/7/2004 3:02:47 PM
EPA METHOD 8260B: VOLATILES						Analyst: BL
Benzene	ND	0.25		mg/Kg	5	1/28/2004
Toluene	ND	0.25		mg/Kg	5	1/28/2004
Ethylbenzene	ND	0.25		mg/Kg	5	1/28/2004
Methyl tert-butyl ether (MTBE)	ND	0.25		mg/Kg	5	1/28/2004
1,2,4-Trimethylbenzene	ND	0.25		mg/Kg	5	1/28/2004
1,3,5-Trimethylbenzene	ND	0.25		mg/Kg	5	1/28/2004
1,2-Dichloroethane (EDC)	ND	0.25		mg/Kg	5	1/28/2004
1,2-Dibromoethane (EDB)	ND	0.25		mg/Kg	5	1/28/2004
Naphthalene	ND	0.50		mg/Kg	5	1/28/2004
1-Methylnaphthalene	ND	1.0		mg/Kg	5	1/28/2004
2-Methylnaphthalene	ND	1.0		mg/Kg	5	1/28/2004
Acetone	ND	2.5		mg/Kg	5	1/28/2004
Bromobenzene	ND	0.25		mg/Kg	5	1/28/2004
Bromochloromethane	ND	0.25		mg/Kg	5	1/28/2004
Bromodichloromethane	ND	0.25		mg/Kg	5	1/28/2004
Bromoform	ND	0.25		mg/Kg	5	1/28/2004
Bromomethane	ND	0.50		mg/Kg	5	1/28/2004
2-Butanone	ND	2.5		mg/Kg	5	1/28/2004
Carbon disulfide	ND	2.5		mg/Kg	5	1/28/2004
Carbon tetrachloride	ND	0.25		mg/Kg	5	1/28/2004
Chlorobenzene	ND	0.25		mg/Kg	5	1/28/2004
Chloroethane	ND	0.50		mg/Kg	5	1/28/2004
Chloroform	ND	0.25		mg/Kg	5	1/28/2004
Chloromethane	ND	0.25		mg/Kg	5	1/28/2004
2-Chlorotoluene	ND	0.25		mg/Kg	5	1/28/2004
4-Chlorotoluene	ND	0.25		mg/Kg	5	1/28/2004
cis-1,2-DCE	ND	0.25		mg/Kg	5	1/28/2004
cis-1,3-Dichloropropene	ND	0.25		mg/Kg	5	1/28/2004
1,2-Dibromo-3-chloropropane	ND	0.50		mg/Kg	5	1/28/2004
Dibromochloromethane	ND	0.25		mg/Kg	5	1/28/2004
Dibromomethane	ND	0.50		mg/Kg	5	1/28/2004

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *27-Feb-04*

CLIENT: Kleinfelder
Lab Order: 0401186
Project: LANL WELLS R28
Lab ID: 0401186-02

Client Sample ID: R28 Pit
Collection Date: 1/26/2004 1:40:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
1,2-Dichlorobenzene	ND	0.25		mg/Kg	5	1/28/2004
1,3-Dichlorobenzene	ND	0.25		mg/Kg	5	1/28/2004
1,4-Dichlorobenzene	ND	0.25		mg/Kg	5	1/28/2004
Dichlorodifluoromethane	ND	0.25		mg/Kg	5	1/28/2004
1,1-Dichloroethane	ND	0.25		mg/Kg	5	1/28/2004
1,1-Dichloroethene	ND	0.25		mg/Kg	5	1/28/2004
1,2-Dichloropropane	ND	0.25		mg/Kg	5	1/28/2004
1,3-Dichloropropane	ND	0.25		mg/Kg	5	1/28/2004
2,2-Dichloropropane	ND	0.25		mg/Kg	5	1/28/2004
1,1-Dichloropropene	ND	0.25		mg/Kg	5	1/28/2004
Hexachlorobutadiene	ND	0.25		mg/Kg	5	1/28/2004
2-Hexanone	ND	2.5		mg/Kg	5	1/28/2004
Isopropylbenzene	ND	0.25		mg/Kg	5	1/28/2004
4-Isopropyltoluene	ND	0.25		mg/Kg	5	1/28/2004
4-Methyl-2-pentanone	ND	2.5		mg/Kg	5	1/28/2004
Methylene chloride	ND	0.75		mg/Kg	5	1/28/2004
n-Butylbenzene	ND	0.25		mg/Kg	5	1/28/2004
n-Propylbenzene	ND	0.25		mg/Kg	5	1/28/2004
sec-Butylbenzene	ND	0.25		mg/Kg	5	1/28/2004
Styrene	ND	0.25		mg/Kg	5	1/28/2004
tert-Butylbenzene	ND	0.25		mg/Kg	5	1/28/2004
1,1,1,2-Tetrachloroethane	ND	0.25		mg/Kg	5	1/28/2004
1,1,2,2-Tetrachloroethane	ND	0.25		mg/Kg	5	1/28/2004
Tetrachloroethene (PCE)	ND	0.25		mg/Kg	5	1/28/2004
trans-1,2-DCE	ND	0.25		mg/Kg	5	1/28/2004
trans-1,3-Dichloropropene	ND	0.25		mg/Kg	5	1/28/2004
1,2,3-Trichlorobenzene	ND	0.25		mg/Kg	5	1/28/2004
1,2,4-Trichlorobenzene	ND	0.25		mg/Kg	5	1/28/2004
1,1,1-Trichloroethane	ND	0.25		mg/Kg	5	1/28/2004
1,1,2-Trichloroethane	ND	0.25		mg/Kg	5	1/28/2004
Trichloroethene (TCE)	ND	0.25		mg/Kg	5	1/28/2004
Trichlorofluoromethane	ND	0.25		mg/Kg	5	1/28/2004
1,2,3-Trichloropropane	ND	0.50		mg/Kg	5	1/28/2004
Vinyl chloride	ND	0.50		mg/Kg	5	1/28/2004
Xylenes, Total	ND	0.25		mg/Kg	5	1/28/2004
Surr: 1,2-Dichloroethane-d4	101	68.4-123		%REC	5	1/28/2004
Surr: 4-Bromofluorobenzene	99.0	70-119		%REC	5	1/28/2004
Surr: Dibromofluoromethane	106	76.8-123		%REC	5	1/28/2004
Surr: Toluene-d8	100	85.2-123		%REC	5	1/28/2004
EPA METHOD 8270D: SEMIVOLATILES						Analyst: CS
Acenaphthene	ND	0.20		mg/Kg	1	2/6/2004
Acenaphthylene	ND	0.20		mg/Kg	1	2/6/2004

Qualifiers:
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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *27-Feb-04*

CLIENT: Kleinfelder
Lab Order: 0401186
Project: LANL WELLS R28
Lab ID: 0401186-02

Client Sample ID: R28 Pit
Collection Date: 1/26/2004 1:40:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Aniline	ND	0.20		mg/Kg	1	2/6/2004
Anthracene	ND	0.20		mg/Kg	1	2/6/2004
Azobenzene	ND	0.20		mg/Kg	1	2/6/2004
Benz(a)anthracene	ND	0.20		mg/Kg	1	2/6/2004
Benzidine	ND	0.20		mg/Kg	1	2/6/2004
Benzo(a)pyrene	ND	0.20		mg/Kg	1	2/6/2004
Benzo(b)fluoranthene	ND	0.20		mg/Kg	1	2/6/2004
Benzo(g,h,i)perylene	ND	0.20		mg/Kg	1	2/6/2004
Benzo(k)fluoranthene	ND	0.20		mg/Kg	1	2/6/2004
Benzoic acid	ND	0.50		mg/Kg	1	2/6/2004
Benzyl alcohol	ND	0.20		mg/Kg	1	2/6/2004
Bis(2-chloroethoxy)methane	ND	0.20		mg/Kg	1	2/6/2004
Bis(2-chloroethyl)ether	ND	0.20		mg/Kg	1	2/6/2004
Bis(2-chloroisopropyl)ether	ND	0.20		mg/Kg	1	2/6/2004
Bis(2-ethylhexyl)phthalate	ND	0.20		mg/Kg	1	2/6/2004
4-Bromophenyl phenyl ether	ND	0.20		mg/Kg	1	2/6/2004
Butyl benzyl phthalate	ND	0.20		mg/Kg	1	2/6/2004
Carbazole	ND	0.20		mg/Kg	1	2/6/2004
4-Chloro-3-methylphenol	ND	0.20		mg/Kg	1	2/6/2004
4-Chloroaniline	ND	0.20		mg/Kg	1	2/6/2004
2-Chloronaphthalene	ND	0.20		mg/Kg	1	2/6/2004
2-Chlorophenol	ND	0.20		mg/Kg	1	2/6/2004
4-Chlorophenyl phenyl ether	ND	0.20		mg/Kg	1	2/6/2004
Chrysene	ND	0.20		mg/Kg	1	2/6/2004
Di-n-butyl phthalate	ND	0.20		mg/Kg	1	2/6/2004
Di-n-octyl phthalate	ND	0.20		mg/Kg	1	2/6/2004
Dibenz(a,h)anthracene	ND	0.20		mg/Kg	1	2/6/2004
Dibenzofuran	ND	0.20		mg/Kg	1	2/6/2004
1,2-Dichlorobenzene	ND	0.20		mg/Kg	1	2/6/2004
1,3-Dichlorobenzene	ND	0.20		mg/Kg	1	2/6/2004
1,4-Dichlorobenzene	ND	0.20		mg/Kg	1	2/6/2004
3,3'-Dichlorobenzidine	ND	0.20		mg/Kg	1	2/6/2004
Diethyl phthalate	ND	0.20		mg/Kg	1	2/6/2004
Dimethyl phthalate	ND	0.20		mg/Kg	1	2/6/2004
2,4-Dichlorophenol	ND	0.20		mg/Kg	1	2/6/2004
2,4-Dimethylphenol	ND	0.20		mg/Kg	1	2/6/2004
4,6-Dinitro-2-methylphenol	ND	0.50		mg/Kg	1	2/6/2004
2,4-Dinitrophenol	ND	0.50		mg/Kg	1	2/6/2004
2,4-Dinitrotoluene	ND	0.20		mg/Kg	1	2/6/2004
2,6-Dinitrotoluene	ND	0.20		mg/Kg	1	2/6/2004
Fluoranthene	ND	0.20		mg/Kg	1	2/6/2004
Fluorene	ND	0.20		mg/Kg	1	2/6/2004

Qualifiers:
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J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *27-Feb-04*

CLIENT: Kleinfelder
Lab Order: 0401186
Project: LANL WELLS R28
Lab ID: 0401186-02

Client Sample ID: R28 Pit
Collection Date: 1/26/2004 1:40:00 PM
Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Hexachlorobenzene	ND	0.20		mg/Kg	1	2/6/2004
Hexachlorobutadiene	ND	0.20		mg/Kg	1	2/6/2004
Hexachlorocyclopentadiene	ND	0.20		mg/Kg	1	2/6/2004
Hexachloroethane	ND	0.20		mg/Kg	1	2/6/2004
Indeno(1,2,3-cd)pyrene	ND	0.20		mg/Kg	1	2/6/2004
Isophorone	ND	0.20		mg/Kg	1	2/6/2004
2-Methylnaphthalene	ND	0.20		mg/Kg	1	2/6/2004
2-Methylphenol	ND	0.20		mg/Kg	1	2/6/2004
3+4-Methylphenol	ND	0.20		mg/Kg	1	2/6/2004
N-Nitrosodi-n-propylamine	ND	0.20		mg/Kg	1	2/6/2004
N-Nitrosodiphenylamine	ND	0.20		mg/Kg	1	2/6/2004
Naphthalene	ND	0.20		mg/Kg	1	2/6/2004
2-Nitroaniline	ND	0.50		mg/Kg	1	2/6/2004
3-Nitroaniline	ND	0.50		mg/Kg	1	2/6/2004
4-Nitroaniline	ND	0.20		mg/Kg	1	2/6/2004
Nitrobenzene	ND	0.20		mg/Kg	1	2/6/2004
2-Nitrophenol	ND	0.20		mg/Kg	1	2/6/2004
4-Nitrophenol	ND	0.20		mg/Kg	1	2/6/2004
Pentachlorophenol	ND	0.50		mg/Kg	1	2/6/2004
Phenanthrene	ND	0.20		mg/Kg	1	2/6/2004
Phenol	ND	0.20		mg/Kg	1	2/6/2004
Pyrene	ND	0.20		mg/Kg	1	2/6/2004
Pyridine	ND	0.50		mg/Kg	1	2/6/2004
1,2,4-Trichlorobenzene	ND	0.20		mg/Kg	1	2/6/2004
2,4,5-Trichlorophenol	ND	0.20		mg/Kg	1	2/6/2004
2,4,6-Trichlorophenol	ND	0.20		mg/Kg	1	2/6/2004
Surr: 2,4,6-Tribromophenol	91.3	26-156		%REC	1	2/6/2004
Surr: 2-Fluorobiphenyl	75.4	23.6-111		%REC	1	2/6/2004
Surr: 2-Fluorophenol	76.0	21.5-107		%REC	1	2/6/2004
Surr: 4-Terphenyl-d14	81.5	30-220		%REC	1	2/6/2004
Surr: Nitrobenzene-d5	66.4	25.3-115		%REC	1	2/6/2004
Surr: Phenol-d6	81.4	25.2-115		%REC	1	2/6/2004
MERCURY, TCLP LEACHED						Analyst: MAP
Mercury	ND	0.020		mg/L	1	2/6/2004
EPA METHOD 6010C: TCLP METALS						Analyst: NMO
Arsenic	ND	5.0		mg/L	1	2/2/2004 1:57:57 PM
Barium	ND	100		mg/L	1	2/2/2004 1:57:57 PM
Cadmium	ND	1.0		mg/L	1	2/2/2004 1:57:57 PM
Chromium	ND	5.0		mg/L	1	2/2/2004 1:57:57 PM
Lead	ND	5.0		mg/L	1	2/2/2004 1:57:57 PM
Selenium	ND	1.0		mg/L	1	2/2/2004 1:57:57 PM

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

Hall Environmental Analysis Laboratory

Date: *27-Feb-04*

CLIENT:	Kleinfelder	**Client Sample ID:**	R28 Pit
Lab Order:	0401186	**Collection Date:**	1/26/2004 1:40:00 PM
Project:	LANL WELLS R28		
Lab ID:	0401186-02	**Matrix:**	SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
Silver	ND	5.0		mg/L	1	2/3/2004 8:58:06 AM

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds Maximum Contaminant Level
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Hall Environmental Analysis Labs
Address : 4901 Hawkins Ne
Suite D
Albuquerque, New Mexico 87109
Contact: Nancy McDuffie
Project: **Hall Environmental**

Report Date: February 20, 2004

Client Sample ID: R28 Pit (Metals)
Sample ID: 106009001
Matrix: Soil
Collect Date: 26-JAN-04 13:40
Receive Date: 28-JAN-04
Collector: Client
Moisture: 24.9%

Project: HALL00103
Client ID: HALL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
LC-MS/MS Explosives											
SW846 8321A Modified Explosives by LC-MS/MS											
1,3,5-Trinitrobenzene	U	ND	9.86	80.0	ug/kg	1	JLW	02/17/04	2221	306303	1
2,4,6-Trinitrotoluene	U	ND	7.68	80.0	ug/kg	1					
2,4-Dinitrotoluene	U	ND	10.0	80.0	ug/kg	1					
2,6-Dinitrotoluene	U	ND	8.90	80.0	ug/kg	1					
2-Amino-4,6-dinitrotoluene	U	ND	15.0	80.0	ug/kg	1					
4-Amino-2,6-dinitrotoluene	U	ND	19.1	80.0	ug/kg	1					
HMX	U	ND	40.0	80.0	ug/kg	1					
Nitrobenzene	U	ND	20.3	80.0	ug/kg	1					
RDX	U	ND	9.35	80.0	ug/kg	1					
Tetryl	U	ND	16.7	80.0	ug/kg	1					
m-Dinitrobenzene	U	ND	10.7	80.0	ug/kg	1					
m-Nitrotoluene	U	ND	23.8	80.0	ug/kg	1					
o-Nitrotoluene	U	ND	26.5	80.0	ug/kg	1					
p-Nitrotoluene	U	ND	80.0	80.0	ug/kg	1					
Mercury Analysis-CVAA											
7471 Cold Vapor Hg in Solid											
Mercury	U	ND	1.27	13.0	ug/kg	1	ETL	01/30/04	1212	306386	2
Metals Analysis-ICP											
6010/3050 ICP SCAN Metals Soil											
Aluminum		3680000	1040	13100	ug/kg	1	RMJ	01/30/04	1044	306417	3
Antimony	J	814	448	1310	ug/kg	1					
Arsenic	J	448	269	653	ug/kg	1					
Barium		25700	87.1	653	ug/kg	1					
Beryllium	J	303	65.3	653	ug/kg	1					
Cadmium	U	ND	62.4	653	ug/kg	1					
Calcium		4450000	1700	13100	ug/kg	1					
Chromium		8830	210	653	ug/kg	1					
Cobalt		7660	104	653	ug/kg	1					
Copper		13300	265	653	ug/kg	1					
Iron		12400000	2050	13100	ug/kg	1					
Lead		3370	370	653	ug/kg	1					
Magnesium		6620000	763	13100	ug/kg	1					
Manganese		253000	171	1310	ug/kg	1					
Nickel		21700	111	653	ug/kg	1					
Potassium		505000	4670	13100	ug/kg	1					
Selenium		3120	212	653	ug/kg	1					

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Hall Environmental Analysis Labs
Address : 4901 Hawkins Ne
Suite D
Albuquerque, New Mexico 87109
Contact: Nancy McDuffie
Project: **Hall Environmental**

Report Date: February 20, 2004

Client Sample ID: R28 Pit (Metals)
Sample ID: 106009001

Project: HALL00103
Client ID: HALL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
etals Analysis-ICP										
5010/3050 ICP SCAN Metals Soil										
Silver	U	ND	118	653	ug/kg	1				
Sodium		937000	4740	13100	ug/kg	1				
Thallium	J	2560	1310	2610	ug/kg	1				
Vanadium		16400	119	653	ug/kg	1				
Zinc		19300	220	653	ug/kg	1				

he following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
V846 3050B	846 3050BS PREP	CQH1	01/29/04	1527	306416
V846 7471A Prep	EPA 7471A Mercury Prep Soil	ETL	01/29/04	1630	306385
V846 8330 PREP	SW846 8330 Explosives Extraction in Solids	HMF1	02/01/04	1130	306302

he following Analytical Methods were performed

Method	Description	Analyst Comments
	SW846 8321A Modified	
	SW846 7471A	
	SW846 3050B/6010B	

rrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
!-dinitrobenzene	SW846 8321A Modified Explosives by LC-MS/MS	106	(63%-119%)

Notes:
The Qualifiers in this report are defined as follows :

Result is less than amount reported.
Result is greater than amount reported.
Target analyte was detected in the sample as well as the associated blank.
D Flag for results below the MDC or a flag for low tracer recovery.
Concentration of the target analyte exceeds the instrument calibration range.
Analytical holding time exceeded.
Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
The response between the confirmation column and the primary column is >40%D.
Indicates the target analyte was analyzed for but not detected above the detection limit.
I Uncertain identification for gamma spectroscopy.
Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
QC Samples were not spiked with this compound.
Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Hall Environmental Analysis Labs
Address : 4901 Hawkins Ne
Suite D
Albuquerque, New Mexico 87109
Contact: Nancy McDuffie
Project: **Hall Environmental**

Report Date: February 20, 2004

Client Sample ID: R28 Pit (Metals)
Sample ID: 106009001

Project: HALL00103
Client ID: HALL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Amy Jamison.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Hall Environmental Analysis Labs
Address : 4901 Hawkins Ne
Suite D
Albuquerque, New Mexico 87109
Contact: Nancy McDuffie
Project: **Hall Environmental**

Report Date: February 20, 2004

Client Sample ID: R28 Pit (RAD)
Sample ID: 106009004
Matrix: Soil
Collect Date: 26-JAN-04 13:40
Receive Date: 28-JAN-04
Collector: Client

Project: HALL00103
Client ID: HALL001

Parameter	Qualifier	Result		DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
d Alpha Spec Analysis												
lphaspec Am241 Solid												
\mericium-241	U	ND	+/-0.106	0.258	1.00	pCi/g		AB2	02/04/04	1523	306659	1
lphaspec Pu, Solid												
lutonium-238	U	ND	+/-0.113	0.332	1.00	pCi/g		AB2	02/04/04	1521	306660	2
lutonium-239/240	U	ND	+/-0.0518	0.403	1.00	pCi/g						
lphaspec Th, Solid												
horium-232		1.28	+/-0.524	0.211	1.00	pCi/g		AB2	02/04/04	1515	306667	3
lphaspec U, Solid												
Jranium-233/234		2.10	+/-0.614	0.256	1.00	pCi/g		AB2	02/04/04	1515	306664	4
Jranium-235/236		0.375	+/-0.243	0.256	1.00	pCi/g						
Jranium-238		1.46	+/-0.495	0.235	1.00	pCi/g						
d Gamma Spec Analysis												
Gammaspec, Gamma, Solid Cs137												
esium-137	U	ND	+/-0.0189	0.0338	0.100	pCi/g		SRB	02/03/04	1710	306670	5
d Gas Flow Proportional Counting												
GFPC, Sr-90, solid												
trontium-90	U	ND	+/-0.312	0.685	2.00	pCi/g		JAS1	02/03/04	1424	306687	6
d Liquid Scintillation Analysis												
SC, Tritium Dist, Solid												
ritium	U	ND	+/-4.80	8.42	6.00	pCi/g		CTO1	02/04/04	1322	306818	7

he following Prep Methods were performed

ethod	Description	Analyst	Date	Time	Prep Batch
h Soil Prep	Ash Soil Prep, GL-RAD-A-021B	AWB	01/30/04	0910	306490
y Soil Prep	Dry Soil Prep GL-RAD-A-021	BSW1	01/29/04	0953	306489

he following Analytical Methods were performed

ethod	Description	Analyst Comments
	DOE EML HASL-300, Am-05-RC Modified	
	DOE EML HASL-300, Pu-11-RC Modified	
	DOE EML HASL-300, Th-01-RC Modified	
	DOE EML HASL-300, U-02-RC Modified	
	EML HASL 300, 4.5.2.3	
	EPA 905.0 Modified	

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Certificate of Analysis

Company : Hall Environmental Analysis Labs
Address : 4901 Hawkins Ne
Suite D
Albuquerque, New Mexico 87109
Contact: Nancy McDuffie
Project: **Hall Environmental**

Report Date: February 20, 2004

Client Sample ID: R28 Pit (RAD)
Sample ID: 106009004

Project: HALL00103
Client ID: HALL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
7	EPA 906.0 Modified									

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P The response between the confirmation column and the primary column is >40%D.
U Indicates the target analyte was analyzed for but not detected above the detection limit.
UI Uncertain identification for gamma spectroscopy.
X Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y QC Samples were not spiked with this compound.
h Sample preparation or preservation holding time exceeded.

The above sample is reported on a dry weight basis except where prohibited by the analytical procedure.
Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Amy Jamison.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC

2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Report Date: February 20, 2004

Client : Hall Environmental Analysis Labs
4901 Hawkins Ne
Suite D
Albuquerque, New Mexico

Contact: Nancy McDuffie

Workorder: 106009

Parmname		NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-ICP											
Batch	306417										
QC1200561491	106009001 DUP										
Aluminum			3680000		3430000	ug/kg	7		(0%-20%)	RMJ	01/30/04 10:53
Antimony		J	814	J	730	ug/kg	N/A ^		(+/-1320)		
Arsenic		J	448	J	390	ug/kg	N/A ^		(+/-662)		
Barium			25700		22900	ug/kg	12		(0%-20%)		
Beryllium		J	303	J	297	ug/kg	N/A ^		(+/-662)		
Cadmium		U	ND	U	ND	ug/kg	N/A		(+/-662)		
Calcium			4450000		4210000	ug/kg	6		(0%-20%)		
Chromium			8830		6690	ug/kg	28*		(0%-20%)		
Cobalt			7660		5610	ug/kg	31*		(0%-20%)		
Copper			13300		11300	ug/kg	16		(0%-20%)		
Iron			12400000		9640000	ug/kg	25*		(0%-20%)		
Lead			3370		3230	ug/kg	4		(0%-20%)		
Magnesium			6620000		4750000	ug/kg	33*		(0%-20%)		
Manganese			253000		188000	ug/kg	29*		(0%-20%)		
Nickel			21700		15300	ug/kg	34*		(0%-20%)		
Potassium			505000		512000	ug/kg	2		(0%-20%)		
Selenium			3120		2120	ug/kg	38* ^		(+/-662)		
Silver		U	ND	U	ND	ug/kg	N/A		(+/-662)		
Sodium			937000		901000	ug/kg	4		(0%-20%)		
Thallium		J	2560	J	2530	ug/kg	N/A ^		(+/-2650)		
Vanadium			16400		13500	ug/kg	20		(0%-20%)		
Zinc			19300		16800	ug/kg	14		(0%-20%)		
QC1200561495	LCS										
Aluminum		6640000			6410000	ug/kg		97	(44%-157%)		01/30/04 10:38
Antimony		78900			64000	ug/kg		81	(1%-205%)		
Arsenic		197000			202000	ug/kg		103	(79%-121%)		
Barium		392000			395000	ug/kg		101	(80%-120%)		
Beryllium		75700			78600	ug/kg		104	(81%-119%)		
Cadmium		69100			69800	ug/kg		101	(81%-120%)		
Calcium		3380000			3350000	ug/kg		99	(76%-124%)		
Chromium		82600			82900	ug/kg		100	(77%-123%)		
Cobalt		81500			83300	ug/kg		102	(85%-115%)		
Copper		127000			134000	ug/kg		105	(80%-120%)		
Iron		12200000			11600000	ug/kg		95	(47%-153%)		
Lead		95000			96900	ug/kg		102	(77%-123%)		
Magnesium		2050000			2140000	ug/kg		104	(71%-129%)		
Manganese		452000			455000	ug/kg		101	(76%-124%)		
Nickel		85700			86900	ug/kg		101	(74%-121%)		
Potassium		1910000			1920000	ug/kg		100	(64%-136%)		
Selenium		117000			117000	ug/kg		100	(74%-126%)		
Silver		141000			171000	ug/kg		122	(45%-155%)		
Sodium		352000			303000	ug/kg		86	(51%-149%)		

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QC Summary

Workorder: 106009

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-ICP										
Batch 306417										
Thallium	103000			111000	ug/kg		108	(71%-128%)		
Vanadium	158000			156000	ug/kg		99	(70%-129%)		
Zinc	275000			272000	ug/kg		99	(77%-123%)		
QC1200561490 MB										
Aluminum			U	ND	ug/kg					01/30/04 10:33
Antimony			U	ND	ug/kg					
Arsenic			U	ND	ug/kg					
Barium			U	ND	ug/kg					
Beryllium			U	ND	ug/kg					
Cadmium			U	ND	ug/kg					
Calcium			J	1560	ug/kg					
Chromium			U	ND	ug/kg					
Cobalt			U	ND	ug/kg					
Copper			U	ND	ug/kg					
Iron			U	ND	ug/kg					
Lead			U	ND	ug/kg					
Magnesium			U	ND	ug/kg					
Manganese			U	ND	ug/kg					
Nickel			U	ND	ug/kg					
Potassium			U	ND	ug/kg					
Selenium			J	199	ug/kg					
Silver			U	ND	ug/kg					
Sodium			U	ND	ug/kg					
Thallium			U	ND	ug/kg					
Vanadium			U	ND	ug/kg					
Zinc			J	213	ug/kg					
QC1200561493 106009001 MS										
Aluminum	657000	3680000		6430000	ug/kg		N/A	(75%-125%)		01/30/04 10:58
Antimony	65700	J 814		41800	ug/kg		63*	(75%-125%)		
Arsenic	65700	J 448		67100	ug/kg		102	(75%-125%)		
Barium	65700	25700		96100	ug/kg		107	(75%-125%)		
Beryllium	65700	J 303		67900	ug/kg		103	(75%-125%)		
Cadmium	65700	U ND		64400	ug/kg		98	(75%-125%)		
Calcium	657000	4450000		6220000	ug/kg		N/A	(75%-125%)		
Chromium	65700	8830		75700	ug/kg		102	(75%-125%)		
Cobalt	65700	7660		74200	ug/kg		101	(75%-125%)		
Copper	65700	13300		85200	ug/kg		110	(75%-125%)		
Iron	657000	12400000		13900000	ug/kg		N/A	(75%-125%)		
Lead	65700	3370		69800	ug/kg		101	(75%-125%)		
Magnesium	657000	6620000		8780000	ug/kg		N/A	(75%-125%)		
Manganese	65700	253000		345000	ug/kg		140*	(75%-125%)		
Nickel	65700	21700		89200	ug/kg		103	(75%-125%)		
Potassium	657000	505000		1260000	ug/kg		115	(75%-125%)		
Selenium	65700	3120		66400	ug/kg		96	(75%-125%)		
Silver	65700	U ND		68600	ug/kg		104	(75%-125%)		
Sodium	657000	937000		1740000	ug/kg		123	(75%-125%)		
Thallium	65700	J 2560		67100	ug/kg		98	(75%-125%)		
Vanadium	65700	16400		83500	ug/kg		102	(75%-125%)		

QC Summary

Workorder: 106009

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-ICP											
Batch 306417											
Zinc	65700		19300		87300	ug/kg		104	(75%-125%)		
QC1200561494 106009001 MSD											
Aluminum	657000		3680000		5730000	ug/kg	11	N/A	(0%-20%)		01/30/04 11:02
Antimony	65700	J	814		42400	ug/kg	1	63*	(0%-20%)		
Arsenic	65700	J	448		66100	ug/kg	1	100	(0%-20%)		
Barium	65700		25700		90200	ug/kg	6	98	(0%-20%)		
Beryllium	65700	J	303		67600	ug/kg	0	103	(0%-20%)		
Cadmium	65700	U	ND		64400	ug/kg	0	98	(0%-20%)		
Calcium	657000		4450000		5720000	ug/kg	8	N/A	(0%-20%)		
Chromium	65700		8830		73600	ug/kg	3	99	(0%-20%)		
Cobalt	65700		7660		71200	ug/kg	4	97	(0%-20%)		
Copper	65700		13300		80500	ug/kg	6	102	(0%-20%)		
Iron	657000		12400000		11800000	ug/kg	17	N/A	(0%-20%)		
Lead	65700		3370		68500	ug/kg	2	99	(0%-20%)		
Magnesium	657000		6620000		6750000	ug/kg	26*	N/A	(0%-20%)		
Manganese	65700		253000		283000	ug/kg	20	46*	(0%-20%)		
Nickel	65700		21700		81400	ug/kg	9	91	(0%-20%)		
Potassium	657000		505000		1190000	ug/kg	6	105	(0%-20%)		
Selenium	65700		3120		65000	ug/kg	2	94	(0%-20%)		
Silver	65700	U	ND		68200	ug/kg	1	104	(0%-20%)		
Sodium	657000		937000		1640000	ug/kg	6	107	(0%-20%)		
Thallium	65700	J	2560		67500	ug/kg	1	99	(0%-20%)		
Vanadium	65700		16400		82900	ug/kg	1	101	(0%-20%)		
Zinc	65700		19300		83000	ug/kg	5	97	(0%-20%)		
QC1200561492 106009001 SDILT											
Aluminum			28200		5780	ug/L	2.46				01/30/04 10:48
Antimony		J	6.23	U	ND	ug/L	22.4				
Arsenic		J	3.43	U	ND	ug/L	85.4				
Barium			197		39.4	ug/L	.0634				
Beryllium		J	2.32	U	ND	ug/L	3.74				
Cadmium		U	ND	U	ND	ug/L	N/A				
Calcium			34100		6910	ug/L	1.4				
Chromium			67.6		14.3	ug/L	5.39				
Cobalt			58.6		11.9	ug/L	1.78				
Copper			102		19.7	ug/L	3.25				
Iron			95000		19200	ug/L	1.21				
Lead			25.8		5.01	ug/L	2.94				
Magnesium			50700		10300	ug/L	1.52				
Manganese			1940		391	ug/L	1.03				
Nickel			166		33.4	ug/L	.615				
Potassium			3870		770	ug/L	.385				
Selenium			23.9	J	4.95	ug/L	3.49				
Silver		U	ND	U	ND	ug/L	N/A				
Sodium			7170		1420	ug/L	1.38				
Thallium		J	19.6	U	ND	ug/L	11.4				
Vanadium			126		24.9	ug/L	.91				
Zinc			148		29.8	ug/L	.675				
Metals Analysis-Mercury											

QC Summary

Workorder: 106009

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Metals Analysis-Mercury											
Batch 306386											
QC1200561416 106009001 DUP											
Mercury		U	ND	U	ND	ug/kg	N/A		(+/-13.3)	ETL	01/30/04 12:14
QC1200561415 LCS											
Mercury	9410				10500	ug/kg		112	(66%-134%)		01/30/04 12:06
QC1200561414 MB											
Mercury				U	ND	ug/kg					01/30/04 12:04
QC1200561417 106009001 MS											
Mercury	131	U	ND		138	ug/kg		105	(75%-125%)		01/30/04 12:16
QC1200561418 106009001 MSD											
Mercury	126	U	ND		132	ug/kg	4	104	(0%-20%)		01/30/04 12:18
Rad Alpha Spec											
Batch 306659											
QC1200561993 106009004 DUP											
Americium-241		U	0.0377 +/-0.106	U	0.0245 +/-0.0926	pCi/g	42			AB2	02/04/04 15:24
QC1200561995 LCS											
Americium-241	11.8				12.4 +/-1.71	pCi/g		105			
QC1200561992 MB											
Americium-241				U	0.0375 +/-0.0719	pCi/g					
QC1200561994 106009004 MS											
Americium-241	12.4	U	0.0377 +/-0.106		11.7 +/-1.68	pCi/g		94			
Batch 306660											
QC1200561997 106009004 DUP											
Plutonium-238		U	0.0278 +/-0.113	U	-0.0251 +/-0.0661	pCi/g	3920*		(0%-20%)	AB2	02/04/04 15:21
Plutonium-239/240		U	-0.0513 +/-0.0518	U	0.0273 +/-0.0547	pCi/g	655*		(0%-20%)		
QC1200561999 LCS											
Plutonium-238				U	0.0795 +/-0.108	pCi/g			(75%-125%)		02/04/04 15:23
Plutonium-239/240	9.93				9.45 +/-1.50	pCi/g		95	(75%-125%)		
QC1200561996 MB											
Plutonium-238				U	0.00 +/-2.00	pCi/g					02/04/04 15:21
Plutonium-239/240				U	0.057 +/-0.081	pCi/g					
QC1200561998 106009004 MS											
Plutonium-238		U	0.0278 +/-0.113	U	0.064 +/-0.0908	pCi/g			(75%-125%)		
Plutonium-239/240	10.4	U	-0.0513 +/-0.0518		10.4 +/-1.73	pCi/g		100	(75%-125%)		
Batch 306664											
QC1200562010 106009004 DUP											
Uranium-233/234			2.10 +/-0.614		1.60 +/-0.532	pCi/g	27*		(0%-20%)	AB2	02/04/04 15:20

QC Summary

Workorder: 106009

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec										
Batch 306664										
Uranium-235/236		0.375 +/-0.243	U	0.0653 +/-0.132	pCi/g	141*		(0%-20%)		
Uranium-238		1.46 +/-0.495		0.923 +/-0.387	pCi/g	45*		(0%-20%)		
QC1200562012 LCS										
Uranium-233/234				10.2 +/-1.54	pCi/g			(75%-125%)		
Uranium-235/236				0.711 +/-0.288	pCi/g			(75%-125%)		
Uranium-238	10.9			10.7 +/-1.59	pCi/g		98	(75%-125%)		
QC1200562009 MB										
Uranium-233/234			U	0.0232 +/-0.0876	pCi/g					
Uranium-235/236			U	0.0372 +/-0.0857	pCi/g					
Uranium-238			U	-0.0208 +/-0.0242	pCi/g					
QC1200562011 106009004 MS										
Uranium-233/234		2.10 +/-0.614		12.5 +/-1.86	pCi/g			(75%-125%)		
Uranium-235/236		0.375 +/-0.243		1.44 +/-0.445	pCi/g			(75%-125%)		
Uranium-238	11.4	1.46 +/-0.495		11.5 +/-1.75	pCi/g		88	(75%-125%)		
Batch 306667										
QC1200562019 106009004 DUP										
Thorium-232		1.28 +/-0.524		1.65 +/-0.626	pCi/g	25*		(0%-20%)	AB2	02/04/04 15:15
QC1200562021 LCS										
Thorium-232	4.66			4.59 +/-1.50	pCi/g		99	(75%-125%)		
QC1200562018 MB										
Thorium-232			U	0.120 +/-0.149	pCi/g					
QC1200562020 106009004 MS										
Thorium-232	4.66	1.28 +/-0.524		6.47 +/-1.99	pCi/g		111	(75%-125%)		02/05/04 10:29
Batch 308834										
QC1200567243 106009005 DUP										
Thorium-232		0.665 +/-0.233		0.679 +/-0.237	pCi/g	2		(0%-20%)	AB2	02/11/04 00:24
QC1200567245 LCS										
Thorium-232	4.86			5.10 +/-1.01	pCi/g		105	(75%-125%)		
QC1200567242 MB										
Thorium-232			U	0.0882 +/-0.0913	pCi/g					
QC1200567244 106009005 MS										

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QC Summary

Workorder: 106009

Parmname	NOM		Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date Time
Rad Alpha Spec											
Batch 308834											
Thorium-232	4.97		0.665 +/-0.233		6.55 +/-1.33	pCi/g		118	(75%-125%)		
Rad Gamma Spec											
Batch 306670											
QC1200562028 106009004 DUP											
Cesium-137		U	-0.000557 +/-0.0189	U	-0.00634 +/-0.013	pCi/g	N/A		(0%-20%)	SRB	02/03/04 22:39
QC1200562029 LCS											
Cesium-137	9.21				9.44 +/-0.804	pCi/g		102	(75%-125%)		02/03/04 20:51
QC1200562027 MB											
Cesium-137				U	0.0109 +/-0.0187	pCi/g					02/03/04 18:37
Rad Gas Flow											
Batch 306687											
QC1200562070 106009004 DUP											
Strontium-90		U	0.247 +/-0.312	U	0.022 +/-0.288	pCi/g	0		(0%-20%)	JAS1	02/03/04 14:24
QC1200562072 LCS											
Strontium-90	27.8				30.8 +/-1.89	pCi/g		111	(75%-125%)		
QC1200562069 MB											
Strontium-90				U	0.169 +/-0.293	pCi/g					
QC1200562071 106009004 MS											
Strontium-90	32.3	U	0.247 +/-0.312		33.5 +/-2.05	pCi/g		103	(75%-125%)		
Rad Liquid Scintillation											
Batch 306818											
QC1200562358 106009004 DUP											
Tritium		U	-0.871 +/-4.80	U	0.640 +/-4.83	pCi/g	0		(0%-20%)	CTO1	02/04/04 16:35
QC1200562360 LCS											
Tritium	27.5				29.3 +/-3.46	pCi/g		107	(75%-125%)		02/05/04 08:07
QC1200562357 MB											
Tritium				U	0.851 +/-2.44	pCi/g					02/04/04 16:03
QC1200562359 106009004 MS											
Tritium	26.9	U	-0.871 +/-4.80		25.8 +/-5.78	pCi/g		96	(75%-125%)		02/05/04 07:35

Notes:
The Qualifiers in this report are defined as follows:

< Result is less than amount reported.

> Result is greater than amount reported.

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston, SC 29407 - (843) 556-8171 - www.gel.com

QC Summary

Workorder: 106009

Parmname	NOM	Sample	Qual	QC	Units	RPD%	REC%	Range	Anlst	Date	Time

B	Target analyte was detected in the sample as well as the associated blank.
BD	Flag for results below the MDC or a flag for low tracer recovery.
E	Concentration of the target analyte exceeds the instrument calibration range.
H	Analytical holding time exceeded.
J	Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
P	The response between the confirmation column and the primary column is >40%D.
U	Indicates the target analyte was analyzed for but not detected above the detection limit.
UI	Uncertain identification for gamma spectroscopy.
X	Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
Y	QC Samples were not spiked with this compound.
h	Sample preparation or preservation holding time exceeded.

N/A indicates that spike recovery limits do not apply when sample concentration exceeds spike conc. by a factor of 4 or more.
^ The Relative Percent Difference (RPD) obtained from the sample duplicate (DUP) is evaluated against the acceptence criteria when the sample is greater than five times (5X) the contract required detection limit (RL). In cases where either the sample or duplicate value is less than 5X the RL, a control limit of +/- the RL is used to evaluate the DUP result.
For PS, PSD, and SDILT results, the values listed are the measured amounts, not final concentrations.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the QC Summary.

Hall Environmental Analysis Laboratory

Date: *27-Feb-04*

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT

Method Blank

Sample ID: **MB-5101** Batch ID: **5101** Test Code: **SW8080A** Units: **mg/Kg** Analysis Date: **2/7/2004 11:58:03 AM** Prep Date: **1/28/2004**

Client ID: Run ID: **ECD(17A)_040206A** SeqNo: **250892**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	ND	0.050									
Aroclor 1221	ND	0.25									
Aroclor 1232	ND	0.050									
Aroclor 1242	ND	0.050									
Aroclor 1248	ND	0.050									
Aroclor 1254	ND	0.050									
Aroclor 1260	ND	0.050									
Surr: Decachlorobiphenyl	0.06425	0	0.0625	0	103	50.1	115	0			

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT

Method Blank

Sample ID: MB-5092 | Batch ID: 5092 | Test Code: SW8260B | Units: mg/Kg | Analysis Date: 1/28/2004 | Prep Date: 1/27/2004

Client ID: | Run ID: VAL_040128A | SeqNo: 246607

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	0.050									
Toluene	0.0094	0.050									J
Ethylbenzene	ND	0.050									
Methyl tert-butyl ether (MTBE)	ND	0.050									
1,2,4-Trimethylbenzene	0.0224	0.050									J
1,3,5-Trimethylbenzene	ND	0.050									
1,2-Dichloroethane (EDC)	ND	0.050									
1,2-Dibromoethane (EDB)	ND	0.050									
Naphthalene	ND	0.10									
1-Methylnaphthalene	ND	0.20									
2-Methylnaphthalene	ND	0.20									
Acetone	ND	0.50									
Bromobenzene	ND	0.050									
Bromochloromethane	ND	0.050									
Bromodichloromethane	ND	0.050									
Bromoform	ND	0.050									
Bromomethane	ND	0.10									
2-Butanone	0.222	0.50									J
Carbon disulfide	ND	0.50									
Carbon tetrachloride	ND	0.050									
Chlorobenzene	ND	0.050									
Chloroethane	ND	0.10									
Chloroform	ND	0.050									
Chloromethane	ND	0.050									
2-Chlorotoluene	ND	0.050									
4-Chlorotoluene	ND	0.050									
cis-1,2-DCE	ND	0.050									
cis-1,3-Dichloropropene	ND	0.050									

Qualifiers: ND - Not Detected at the Reporting Limit | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank

J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT

Method Blank

1,2-Dibromo-3-chloropropane	ND	0.10	
Dibromochloromethane	ND	0.050	
Dibromomethane	ND	0.10	
1,2-Dichlorobenzene	ND	0.050	
1,3-Dichlorobenzene	ND	0.050	
1,4-Dichlorobenzene	ND	0.050	
Dichlorodifluoromethane	ND	0.050	
1,1-Dichloroethane	ND	0.050	
1,1-Dichloroethene	ND	0.050	
1,2-Dichloropropane	ND	0.050	
1,3-Dichloropropane	ND	0.050	
2,2-Dichloropropane	ND	0.050	
1,1-Dichloropropene	ND	0.050	
Hexachlorobutadiene	0.0275	0.050	J
2-Hexanone	ND	0.50	
Isopropylbenzene	ND	0.050	
4-Isopropyltoluene	ND	0.050	
4-Methyl-2-pentanone	ND	0.50	
Methylene chloride	0.0189	0.15	J
n-Butylbenzene	0.0167	0.050	J
n-Propylbenzene	ND	0.050	
sec-Butylbenzene	ND	0.050	
Styrene	ND	0.050	
tert-Butylbenzene	ND	0.050	
1,1,1,2-Tetrachloroethane	ND	0.050	
1,1,2,2-Tetrachloroethane	ND	0.050	
Tetrachloroethene (PCE)	ND	0.050	
trans-1,2-DCE	ND	0.050	
trans-1,3-Dichloropropene	ND	0.050	
1,2,3-Trichlorobenzene	ND	0.050	
1,2,4-Trichlorobenzene	ND	0.050	
1,1,1-Trichloroethane	ND	0.050	
1,1,2-Trichloroethane	ND	0.050	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT

Method Blank

Trichloroethene (TCE)	ND	0.050							
Trichlorofluoromethane	ND	0.050							
1,2,3-Trichloropropane	ND	0.10							
Vinyl chloride	0.0487	0.10							J
Xylenes, Total	ND	0.050							
Surr: 1,2-Dichloroethane-d4	0.5195	0	0.5	0	104	68.4	123	0	
Surr: 4-Bromofluorobenzene	0.5097	0	0.5	0	102	70	119	0	
Surr: Dibromofluoromethane	0.5173	0	0.5	0	103	76.8	123	0	
Surr: Toluene-d8	0.4772	0	0.5	0	95.4	85.2	123	0	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT

Method Blank

Sample ID: MB-5099 | Batch ID: 5099 | Test Code: SW8270A | Units: mg/Kg | Analysis Date: 2/6/2004 | Prep Date: 1/26/2004

Client ID: | Run ID: ELMO_040206A | SeqNo: 249388

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	ND	0.20									
Acenaphthylene	ND	0.20									
Aniline	ND	0.20									
Anthracene	ND	0.20									
Azobenzene	ND	0.20									
Benz(a)anthracene	ND	0.20									
Benzidine	ND	0.20									
Benzo(a)pyrene	ND	0.20									
Benzo(b)fluoranthene	ND	0.20									
Benzo(g,h,i)perylene	ND	0.20									
Benzo(k)fluoranthene	ND	0.20									
Benzoic acid	ND	0.50									
Benzyl alcohol	ND	0.20									
Bis(2-chloroethoxy)methane	ND	0.20									
Bis(2-chloroethyl)ether	ND	0.20									
Bis(2-chloroisopropyl)ether	ND	0.20									
Bis(2-ethylhexyl)phthalate	ND	0.20									
4-Bromophenyl phenyl ether	ND	0.20									
Butyl benzyl phthalate	ND	0.20									
Carbazole	ND	0.20									
4-Chloro-3-methylphenol	ND	0.20									
4-Chloroaniline	ND	0.20									
2-Chloronaphthalene	ND	0.20									
2-Chlorophenol	ND	0.20									
4-Chlorophenyl phenyl ether	ND	0.20									
Chrysene	ND	0.20									
Di-n-butyl phthalate	ND	0.20									
Di-n-octyl phthalate	ND	0.20									

Qualifiers: ND - Not Detected at the Reporting Limit | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT

Method Blank

Dibenz(a,h)anthracene	ND	0.20
Dibenzofuran	ND	0.20
1,2-Dichlorobenzene	ND	0.20
1,3-Dichlorobenzene	ND	0.20
1,4-Dichlorobenzene	ND	0.20
3,3'-Dichlorobenzidine	ND	0.20
Diethyl phthalate	ND	0.20
Dimethyl phthalate	ND	0.20
2,4-Dichlorophenol	ND	0.20
2,4-Dimethylphenol	ND	0.20
4,6-Dinitro-2-methylphenol	ND	0.50
2,4-Dinitrophenol	ND	0.50
2,4-Dinitrotoluene	ND	0.20
2,6-Dinitrotoluene	ND	0.20
Fluoranthene	ND	0.20
Fluorene	ND	0.20
Hexachlorobenzene	ND	0.20
Hexachlorobutadiene	ND	0.20
Hexachlorocyclopentadiene	ND	0.20
Hexachloroethane	ND	0.20
Indeno(1,2,3-cd)pyrene	ND	0.20
Isophorone	ND	0.20
2-Methylnaphthalene	ND	0.20
2-Methylphenol	ND	0.20
3+4-Methylphenol	ND	0.20
N-Nitrosodi-n-propylamine	ND	0.20
N-Nitrosodiphenylamine	ND	0.20
Naphthalene	ND	0.20
2-Nitroaniline	ND	0.50
3-Nitroaniline	ND	0.50
4-Nitroaniline	ND	0.20
Nitrobenzene	ND	0.20
2-Nitrophenol	ND	0.20

Qualifiers: ND - Not Detected at the Reporting Limit; J - Analyte detected below quantitation limits; S - Spike Recovery outside accepted recovery limits; R - RPD outside accepted recovery limits; B - Analyte detected in the associated Method Blank

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT
Method Blank

4-Nitrophenol	ND	0.20							
Pentachlorophenol	ND	0.50							
Phenanthrene	ND	0.20							
Phenol	ND	0.20							
Pyrene	ND	0.20							
Pyridine	ND	0.50							
1,2,4-Trichlorobenzene	ND	0.20							
2,4,5-Trichlorophenol	ND	0.20							
2,4,6-Trichlorophenol	ND	0.20							
Surr: 2,4,6-Tribromophenol	3.84	0	5	0	76.8	26	156	0	
Surr: 2-Fluorobiphenyl	1.893	0	2.5	0	75.7	23.6	111	0	
Surr: 2-Fluorophenol	4.026	0	5	0	80.5	21.5	107	0	
Surr: 4-Terphenyl-d14	2.156	0	2.5	0	86.2	30	120	0	
Surr: Nitrobenzene-d5	1.751	0	2.5	0	70.0	25.3	115	0	
Surr: Phenol-d6	4.088	0	5	0	81.8	25.2	115	0	

Sample ID: MB-5168 Batch ID: 5168 Test Code: SW7470 Units: mg/L Analysis Date: 2/6/2004 Prep Date: 2/6/2004
Client ID: Run ID: MI-LA254_040206B SeqNo: 249001

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	ND	0.020									

Sample ID: MB-5121 Batch ID: 5121 Test Code: SW1311/6010 Units: mg/L Analysis Date: 2/3/2004 8:40:26 AM Prep Date: 1/30/2004
Client ID: Run ID: ICP_040202E SeqNo: 248126

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	ND	5.0	0.5	0	0	0	0	0			

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT

Method Blank

Sample ID: MB-5121 | Batch ID: 5121 | Test Code: SW1311/6010 | Units: mg/L | Analysis Date: 2/2/2004 1:30:49 PM | Prep Date: 1/30/2004

Client ID: | Run ID: ICP_040202C | SeqNo: 248151

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	ND	5.0									
Barium	ND	100									
Cadmium	0.002506	1.0									J
Chromium	ND	5.0									
Lead	0.002021	5.0									J
Selenium	ND	1.0									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Hall Environmental Analysis Laboratory

Date: *27-Feb-04*

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: 0401186-02AMS Batch ID: 5099 Test Code: SW8270A Units: mg/Kg Analysis Date: 2/6/2004 Prep Date: 1/28/2004

Client ID: R28 Pit Run ID: ELMO_040206A SeqNo: 249397

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.725	0.20	2.5	0	69.0	45	110	0			
4-Chloro-3-methylphenol	3.904	0.20	5	0	78.1	45	110	0			
2-Chlorophenol	3.449	0.20	5	0	69.0	45	110	0			
1,4-Dichlorobenzene	1.34	0.20	2.5	0	53.6	45	110	0			
2,4-Dinitrotoluene	1.999	0.20	2.5	0	79.9	45	110	0			
N-Nitrosodi-n-propylamine	1.382	0.20	2.5	0	55.3	45	110	0			
4-Nitrophenol	4.036	0.20	5	0	80.7	45	110	0			
Pentachlorophenol	3.064	0.50	5	0	61.3	45	110	0			
Phenol	3.55	0.20	5	0	71.0	45	110	0			
Pyrene	1.735	0.20	2.5	0	69.4	45	110	0			
1,2,4-Trichlorobenzene	1.52	0.20	2.5	0	60.8	45	110	0			
Surr: 2,4,6-Tribromophenol	4.384	0	5	0	87.7	26	156	0			
Surr: 2-Fluorobiphenyl	1.765	0	2.5	0	70.6	23.6	111	0			
Surr: 2-Fluorophenol	3.412	0	5	0	68.2	21.5	107	0			
Surr: 4-Terphenyl-d14	1.971	0	2.5	0	78.8	30	220	0			
Surr: Nitrobenzene-d5	1.581	0	2.5	0	63.2	25.3	115	0			
Surr: Phenol-d6	3.828	0	5	0	76.6	25.2	115	0			

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT
Sample Matrix Spike Duplicate

Sample ID: 0401186-02AMSD Batch ID: 5099 Test Code: SW8270A Units: mg/Kg Analysis Date: 2/6/2004 Prep Date: 1/28/2004
Client ID: R28 Pit Run ID: ELMO_040206A SeqNo: 249399

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.784	0.20	2.5	0	71.4	45	110	1.725	3.36	25	
4-Chloro-3-methylphenol	3.915	0.20	5	0	78.3	45	110	3.904	0.269	25	
2-Chlorophenol	3.513	0.20	5	0	70.3	45	110	3.449	1.84	25	
1,4-Dichlorobenzene	1.333	0.20	2.5	0	53.3	45	110	1.34	0.561	25	
2,4-Dinitrotoluene	2.021	0.20	2.5	0	80.8	45	110	1.999	1.12	25	
N-Nitrosodi-n-propylamine	1.473	0.20	2.5	0	58.9	45	110	1.382	6.37	25	
4-Nitrophenol	4.177	0.20	5	0	83.5	45	110	4.036	3.45	25	
Pentachlorophenol	3.085	0.50	5	0	61.7	45	110	3.064	0.683	25	
Phenol	3.582	0.20	5	0	71.6	45	110	3.55	0.883	25	
Pyrene	1.79	0.20	2.5	0	71.6	45	110	1.735	3.12	25	
1,2,4-Trichlorobenzene	1.529	0.20	2.5	0	61.2	45	110	1.52	0.623	25	
Surr: 2,4,6-Tribromophenol	4.482	0	5	0	89.6	26	156	4.384	2.20	0	
Surr: 2-Fluorobiphenyl	1.794	0	2.5	0	71.8	23.6	111	1.765	1.66	0	
Surr: 2-Fluorophenol	3.493	0	5	0	69.9	21.5	107	3.412	2.33	0	
Surr: 4-Terphenyl-d14	2.009	0	2.5	0	80.4	30	220	1.971	1.93	0	
Surr: Nitrobenzene-d5	1.558	0	2.5	0	62.3	25.3	115	1.581	1.47	0	
Surr: Phenol-d6	3.883	0	5	0	77.7	25.2	115	3.828	1.41	0	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

Hall Environmental Analysis Laboratory

Date: *27-Feb-04*

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS-5101** Batch ID: **5101** Test Code: **SW8080A** Units: **mg/Kg** Analysis Date: **2/7/2004 12:44:09 PM** Prep Date: **1/28/2004**

Client ID: Run ID: **ECD(17A)_040206A** SeqNo: **250893**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Aroclor 1016	0.1346	0.050	0.125	0	108	70	130	0			
Aroclor 1260	0.1579	0.050	0.125	0	126	67	137	0			

Sample ID: **LCS-5099** Batch ID: **5099** Test Code: **SW8270A** Units: **mg/Kg** Analysis Date: **2/6/2004** Prep Date: **1/28/2004**

Client ID: Run ID: **ELMO_040206A** SeqNo: **249390**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acenaphthene	1.877	0.20	2.5	0	75.1	45	110	0			
4-Chloro-3-methylphenol	3.744	0.20	5	0	74.9	45	110	0			
2-Chlorophenol	3.824	0.20	5	0	76.5	45	110	0			
1,4-Dichlorobenzene	1.889	0.20	2.5	0	75.5	45	110	0			
2,4-Dinitrotoluene	1.903	0.20	2.5	0	76.1	45	110	0			
N-Nitrosodi-n-propylamine	1.716	0.20	2.5	0	68.6	45	110	0			
4-Nitrophenol	3.506	0.20	5	0	70.1	45	110	0			
Pentachlorophenol	2.453	0.50	5	0	49.1	45	110	0			
Phenol	3.773	0.20	5	0	75.5	45	110	0			
Pyrene	1.851	0.20	2.5	0	74.0	45	110	0			
1,2,4-Trichlorobenzene	1.938	0.20	2.5	0	77.5	45	110	0			

Sample ID: **LCS-5168** Batch ID: **5168** Test Code: **SW7470** Units: **mg/L** Analysis Date: **2/6/2004** Prep Date: **2/6/2004**

Client ID: Run ID: **MI-LA254_040206B** SeqNo: **249002**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004876	0.020	0.005	0	97.5	80	120	0			J

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

Sample ID: LCSD-5168 | Batch ID: 5168 | Test Code: SW7470 | Units: mg/L | Analysis Date: 2/6/2004 | Prep Date: 2/6/2004
Client ID: | Run ID: MI-LA254_040206B | SeqNo: 249003

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Mercury	0.004905	0.020	0.005	0	98.1	80	120	0.004876	0	20	J

Sample ID: LCS-5121 | Batch ID: 5121 | Test Code: SW1311/6010 | Units: mg/L | Analysis Date: 2/3/2004 8:42:28 AM | Prep Date: 1/30/2004
Client ID: | Run ID: ICP_040202E | SeqNo: 248127

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.4751	0.20	0.5	0	95.0	80	120	0			

Sample ID: LCSD-5121 | Batch ID: 5121 | Test Code: SW1311/6010 | Units: mg/L | Analysis Date: 2/3/2004 8:43:58 AM | Prep Date: 1/30/2004
Client ID: | Run ID: ICP_040202E | SeqNo: 248128

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Silver	0.4443	0.20	0.5	0	88.9	80	120	0.4751	6.71	20	

Sample ID: LCS-5121 | Batch ID: 5121 | Test Code: SW1311/6010 | Units: mg/L | Analysis Date: 2/2/2004 1:33:21 PM | Prep Date: 1/30/2004
Client ID: | Run ID: ICP_040202C | SeqNo: 248152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4796	0.20	0.5	0	95.9	80	120	0			
Barium	0.5	0.20	0.5	0	100	80	120	0			
Cadmium	0.4791	0.20	0.5	0.002506	95.3	80	120	0			
Chromium	0.5255	0.20	0.5	0	105	80	120	0			
Lead	0.4785	0.20	0.5	0.002021	95.3	80	120	0			
Selenium	0.4993	0.20	0.5	0	99.9	80	120	0			

Qualifiers: ND - Not Detected at the Reporting Limit | S - Spike Recovery outside accepted recovery limits | B - Analyte detected in the associated Method Blank
J - Analyte detected below quantitation limits | R - RPD outside accepted recovery limits

CLIENT: Kleinfelder
Work Order: 0401186
Project: LANL WELLS R28

QC SUMMARY REPORT
Laboratory Control Spike Duplicate

Sample ID: **LCSD-5121** Batch ID: **5121** Test Code: **SW1311/6010** Units: **mg/L** Analysis Date: **2/2/2004 1:37:15 PM** Prep Date: **1/30/2004**

Client ID: Run ID: **ICP_040202C** SeqNo: **248153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Arsenic	0.4544	0.20	0.5	0	90.9	80	120	0.4796	5.38	20	
Barium	0.4619	0.20	0.5	0	92.4	80	120	0.5	7.92	20	
Cadmium	0.4454	0.20	0.5	0.002506	88.6	80	120	0.4791	7.29	20	
Chromium	0.4866	0.20	0.5	0	97.3	80	120	0.5255	7.68	20	
Lead	0.4456	0.20	0.5	0.002021	88.7	80	120	0.4785	7.12	20	
Selenium	0.474	0.20	0.5	0	94.8	80	120	0.4993	5.20	20	

Qualifiers: ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CHAIN-OF-CUSTODY RECORD

Accreditation Applied:

NELAC ☐ USACE ☐

Other: _____

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE
Albuquerque, NM 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

DCN: 37151.16.9 - ALB04CC001
1/26/04 - Chain of Custody
S. Woodall

Client: Kleinfelder

Address: 8360 Jefferson St. NE
Alb. NM 87112

Phone #: 344-7373

Fax #: 344-1711

Project Name: Lake Mills - RZE

Project #: 37151 16.9

Project Manager: Mark Sumrall

Sampler: Stephen Woodall

Sample Temperature:

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative H_gCl_2	Preservative HNO_3	Preservative	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 80158 MOD (Gas/Diesel)	TPH (Method 418.1)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Cations (Na, K, Ca, Mg)	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260 (VOA)	8270 (Semi-VOA)	[illegible]	[illegible]	[illegible]	Air Bubbles or Headspace (Y or N)
1-26-04	[illegible]	[illegible]	[illegible]												✓				✓			✓	✓	✓	
[illegible]	[illegible]	[illegible]	[illegible]	3 [illegible]							—	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]		—	—	—	

Date	Time	Relinquished By: (Signature)	Remarks:
1-26-04	13:15	S. Woodall	[illegible]
Date:	Time:	Relinquished By: (Signature)	Remarks: [illegible]

Remarks: [illegible] - [illegible] FEDEX [illegible]

CHAIN-OF-CUSTODY RECORD

HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE, Suite A
Albuquerque, New Mexico 87109
Tel. 505.345.3975 Fax 505.345.4107
www.hallenvironmental.com

Client: KLEINFELDER, INC

Address: 8300 JEFFERSON NE
SUITE B
ALBUQUERQUE, NM 87113

Phone #: 505-344-7373

Fax #: 505-344-1711

Project Name: DOE DEEP WELLS

Project #: 37131/10.9

Project Manager: MARK EVERETT

Sampler:

Samples Cold?: 4° ☐ Yes ☐ No

Date	Time	Matrix	Sample I.D. No.	Number/Volume	Preservative $HgCl_2$	Preservative HCl	Preservative	HEAL No.
3/18/04	11:47	H_2O	CdV-162 PIT	1-1L AMBER 1-500ml POLY				0403162-1
3/18/04	12:07	H_2O	CdV-163 PIT	1-1L AMBER 1-500ml POLY				-2
3/18/04	1400	H_2O	R-28 PIT	1-1L AMBER 1-500ml POLY				-3

ANALYSIS REQUEST

	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gasoline Only)	TPH Method 8015B MOD (Gas/Diesel)	TPH (Method 418.1)	Volatiles Full List (8021)	EDB (Method 504.1)	EDC (Method 8021)	8310 (PNA or PAH)	RCRA 8 Metals	Cations (Na, K, Ca, Mg)	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / PCB's (8082)	8260 (VOA)	8270 (Semi-VOA)	PERCHLORATE	HIGH EXPLOSIVES	Air Bubbles or Headspace (Y or N)
3/18/04 11:47															✓	✓	
3/18/04 12:07															✓	✓	
3/18/04 1400															✓	✓	

Date:	Time:	Relinquished By: (Signature)	Received By: (Signature)
3/18/04	4:31	[signature]	[signature] 3/18/04
Date:	Time:	Relinquished By: (Signature)	Received By: (Signature) 1631

Remarks:
NEED RUSH TAT. EMAIL RESULTS IN PDF FORMAT

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Hall Environmental Analysis Labs
Address : 4901 Hawkins Ne
Suite D
Albuquerque, New Mexico 87109
Contact: Nancy McDuffie
Project: **Hall Environmental**

Report Date: April 6, 2004

Client Sample ID: 0403162-03A
Sample ID: 109316003
Matrix: Water
Collect Date: 18-MAR-04 14:00
Receive Date: 19-MAR-04
Collector: Client

Project: HALL00103
Client ID: HALL001

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	Method
n Chromatography											
EPA 314.0 Perchlorate by IC											
Perchlorate	U	ND	19.8	80.0	ug/L	20	MJH	03/22/04	2106	318877	1

he following Analytical Methods were performed

Method	Description	Analyst Comments
	EPA 314.0	

Notes:
The Qualifiers in this report are defined as follows :

Result is less than amount reported.
Result is greater than amount reported.
Target analyte was detected in the sample as well as the associated blank.
D Flag for results below the MDC or a flag for low tracer recovery.
Concentration of the target analyte exceeds the instrument calibration range.
Analytical holding time exceeded.
Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.
The response between the confirmation column and the primary column is >40%D.
Indicates the target analyte was analyzed for but not detected above the detection limit.
I Uncertain identification for gamma spectroscopy.
Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
QC Samples were not spiked with this compound.
Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

Where the analytical method has been performed under NELAP certification, the analysis has met all of the requirements of the NELAC standard unless qualified on the Certificate of Analysis.

This data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC standard operating procedures. Please direct any questions to your Project Manager, Amy Jamison.

Reviewed by

GENERAL ENGINEERING LABORATORIES, LLC
2040 Savage Road Charleston SC 29407 - (843) 556-8171 - www.gel.com

Certificate of Analysis

Company : Hall Environmental Analysis Labs
Address : 4901 Hawkins Ne
Suite D
Albuquerque, New Mexico 87109
Contact: Nancy McDuffie
Project: **Hall Environmental**

Report Date: April 6, 2004

Client Sample ID: 0403162-03A
Sample ID: 109316006
Matrix: Water
Collect Date: 18-MAR-04 14:00
Receive Date: 19-MAR-04
Collector: Client

Project: HALL00103
Client ID: HALL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method
LC-MS/MS Explosives										
SW846 8321A Modified Explosives by LC-MS/MS										
1,3,5-Trinitrobenzene	U	ND	0.0848	0.325	ug/L	2	JLW 04/02/04	2111	319616	1
2,4,6-Trinitrotoluene	U	ND	0.0779	0.325	ug/L	2				
2,4-Dinitrotoluene	U	ND	0.0991	0.325	ug/L	2				
2,6-Dinitrotoluene	U	ND	0.0779	0.325	ug/L	2				
2-Amino-4,6-dinitrotoluene	U	ND	0.101	0.325	ug/L	2				
4-Amino-2,6-dinitrotoluene	U	ND	0.0904	0.325	ug/L	2				
HMX	U	ND	0.100	0.325	ug/L	2				
Nitrobenzene	U	ND	0.325	0.974	ug/L	2				
RDX	U	ND	0.101	0.325	ug/L	2				
Tetryl	U	ND	0.162	0.487	ug/L	2				
m-Dinitrobenzene	U	ND	0.162	0.487	ug/L	2				
m-Nitrotoluene	U	ND	0.162	0.487	ug/L	2				
o-Nitrotoluene	U	ND	0.162	0.487	ug/L	2				
p-Nitrotoluene	U	ND	0.325	0.974	ug/L	2				

The following Prep Methods were performed

Method	Description	Analyst	Date	Time	Prep Batch
SW846 8330 PREP	SW846 8330 Explosives Extraction in Liquid	HMF1	03/25/04	0800	319615

The following Analytical Methods were performed

Method	Description	Analyst Comments
1	SW846 8321A Modified	

Surrogate/Tracer recovery	Test	Recovery%	Acceptable Limits
3,4-Dinitrotoluene	SW846 8321A Modified Explosives by LC-MS/MS	4 *	(50%-150%)

Notes:
The Qualifiers in this report are defined as follows :

< Result is less than amount reported.
> Result is greater than amount reported.
B Target analyte was detected in the sample as well as the associated blank.
BD Flag for results below the MDC or a flag for low tracer recovery.
E Concentration of the target analyte exceeds the instrument calibration range.
H Analytical holding time exceeded.
J Indicates an estimated value. The result was greater than the detection limit, but less than the reporting limit.

Certificate of Analysis

Company : Hall Environmental Analysis Labs
Address : 4901 Hawkins Ne
Suite D
Albuquerque, New Mexico 87109
Contact: Nancy McDuffie
Project: **Hall Environmental**

Report Date: April 6, 2004

Client Sample ID: 0403162-03A
Sample ID: 109316006

Project: HALL00103
Client ID: HALL001

Parameter	Qualifier	Result	DL	RL	Units	DF	AnalystDate	Time	Batch	Method

The response between the confirmation column and the primary column is >40%D.
Indicates the target analyte was analyzed for but not detected above the detection limit.
I Uncertain identification for gamma spectroscopy.
Lab-specific qualifier-please see case narrative, data summary package or contact your project manager for details.
QC Samples were not spiked with this compound.
Sample preparation or preservation holding time exceeded.

The above sample is reported on an "as received" basis.

/here the analytical method has been performed under NELAP certification, the analysis has met all of the :quirements of the NELAC standard unless qualified on the Certificate of Analysis.

his data report has been prepared and reviewed in accordance with General Engineering Laboratories, LLC andard operating procedures. Please direct any questions to your Project Manager, Amy Jamison.

.eviewed by

Appendix G

Activities Planned for Well R-28
Compared with Work Performed

Activities Planned for Well R-28 Compared with Work Performed

Activity	"Hydrogeologic Workplan" (LANL 1998, 59599)	R-28 SAP (LANL 2003, 03-8324)	R-28 Actual Work
Planned Depth	100 ft to 500 ft into the regional aquifer	Planned borehole TD of 967 ft bgs, approximately 100 ft below the anticipated regional water table at 867 ft bgs.	R-28 drilled to 1005 ft bgs TD, approximately 116 feet into the regional aquifer. A static water level in the regional aquifer was measured in the well at 888.8 ft bgs.
Drilling Method	Methods may include, but are not limited to HSA, air-rotary/Odex/Stratex, air-rotary/Barber rig, and mud-rotary drilling	Fluid-assisted, open-hole, air - rotary drilling	R-28 drilled using fluid-assisted, open-hole, air- rotary methods; drill bits used included milltooth tricone bit, button bit with DTH hammer, and button tooth bit.
Amount of Core	10% of the borehole	Planned core sampling interval for R-28 was from surface to a depth at which core refusal was met, predicted to be at 336 ft bgs.	Actual R-28 core sampling depth was 325 ft bgs using conventional core barrel for continuous sampling and split-spoon sampler for spot coring.
Lithologic Log	Log to be prepared from core, cuttings and drilling performance	Lithologic log to be prepared from data provided by core, cuttings, geophysical logs, and drilling performance	The R-28 lithologic log was prepared from core samples in the interval 0-325 ft bgs and from cuttings samples in the interval 0-1005 ft bgs. Interpretation of geophysical logs to determine unit contacts was provided by LANL.
Number of Water Samples Collected for Contaminant Analysis	A water sample may be collected from each saturated zone, five zones assumed. The number of sampling events after well completion is not specified.	Water samples to be collected from any zone(s) of perched saturation encountered while drilling in the vadose zone. Groundwater screening samples to be collected from the top of the regional aquifer during deep borehole drilling.	Two (2) groundwater screening samples obtained from the vadose zone at depths of 651 and 707 ft bgs. One (1) screening sample collected from the regional aquifer at 889 ft bgs during Phase II drilling. One (1) groundwater sample collected from the regional aquifer after well installation at depth of 947 ft bgs.
Water Sample Analysis	Initial sampling: radiochemistry I, II, and III, ^{3}H, general inorganics, stable isotopes, VOCs, and metals. Saturated zones: radionuclides (tritium, strontium-90, cesium-137, americium-241, plutonium isotopes, uranium isotopes, gamma spectrometry, and gross alpha, gross beta, and gross gamma), stable isotopes (hydrogen, oxygen, and in special cases nitrogen), major ions (cations and anions), trace	Groundwater to be analyzed for: Metals (total and dissolved), Anions (Bromide, Chlorate, Chloride, Fluoride, Nitrate, Nitrite, Perchlorate, Orthophosphate, Sulfate); Dissolved Silica, Total Cyanide, Tritium, Tritium (low level), Americium-241; Plutonium-238, -239 and -240, Strontium-90; Technetium-99; Uranium-234; -235; -236; and -238; Gamma spectroscopy, Gross-alpha, Ggross-beta,	The groundwater sample collected from the well was analyzed for the entire suite stated in the SAP.

Activity	"Hydrogeologic Workplan" (LANL 1998, 59599)	R-28 SAP (LANL 2003, 03-8324)	R-28 Actual Work
	metals, and trace elements.	Gross-gamma.	
Water Sample Field Measurements	Alkalinity, pH, specific conductance, temperature, turbidity	Carbonate alkalinity, pH, specific conductance, temperature, turbidity	No parameters collected for groundwater samples.
Number of Core/Cuttings Samples Collected for Contaminant Analysis	Twenty samples of core or cuttings to be analyzed for potential contaminant identification in each borehole.	Core samples to be collected for contaminant analysis at depths of 10, 20, 30, 40, 50, 60, 70, 80, 90, and 100 ft bgs and at 50-ft intervals from 100 ft to the core hole TD.	Sixteen (16) core samples were submitted for geochemical and contaminant analysis from depths of 10, 20, 30, 40, 50, 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, and 325 ft bgs.
Core/Cuttings Sample Analytes	Uppermost sample to be analyzed for a full range of compounds: deeper samples will be analyzed for the presence of radiochemistry I, II, and III analytes, tritium (low and high detection levels), and metals. Four samples to be analyzed for VOCs.	Anions, cations, and stable isotopes (Bromide, Chloride, Fluoride, Iodide, Nitrate, Nitrite, Oxalate, Phosphate, Sulfate, Carbonate alkalinity, Perchlorate, Arsenic, Strontium, Uranium, Aluminum, Calcium, Iron, Magnesium, Manganese, Sodium, and Potassium, $^{18}O/^{16}O$, $^{2}H/^{1}H$, Nitrogen isotopes); and Contaminants (Tritium, Americium-241, Plutonium-238, Plutonium-239 and -240, Strontium-90, Technetium-99, Uranium-234, Uranium-235, Uranium-238, Gamma spectroscopy)	Analytes included the following: RADVAN Alpha, Beta, and Gamma, $^{2}H/^{1}H$, $^{18}O/^{16}O$, Nitrogen isotopes, Americium-241, Gamma spectroscopy, ISOPU, ISOU, Strontium-90, Tritium, Technetium-99 , anions, and moisture content. For the individual sample collected at 325 ft bgs, analytes included the following: RADVAN Alpha, Beta, and Gamma, $^{2}H/^{1}H$, $^{18}O/^{16}O$, Nitrogen isotopes, anions, and moisture content.
Laboratory Hydraulic-Property Tests	Physical properties analyses will be conducted on 5 core samples and will typically include: moisture content, porosity, particle density, bulk density, saturated hydraulic conductivity, and water retention characteristics.	No samples were specified for laboratory hydraulic analysis. Core analyses were planned at 10-ft intervals above 100 ft bgs and at 50-ft intervals between 100 ft bgs and the core hole TD.	Sixteen (16) core samples were collected from the vadose zone at depths from 10 to 325 ft bgs and submitted for moisture content analysis.
Geology	Ten samples of core or cuttings will be collected for petrographic, X-ray fluorescence (XRF) and X-ray diffraction (XRD) analyses	The geology task leader to determine the number of samples for characterization of mineralogy, petrography, and geochemistry based on geologic and hydrologic conditions encountered during drilling.	Seven (7) samples of core/cuttings were collected and submitted for analysis for mineralogy, petrography, and geochemistry
Geophysics	In general, open-hole geophysics includes caliper, electromagnetic induction, natural gamma, magnetic susceptibility, borehole color videotape (axial and sidescan), fluid temperature (saturated),	Typical wireline logging service as planned: open-hole geophysics includes array induction imager, triple lithodensity, combinable magnetic resonance tool, natural gamma, natural gamma	Schlumberger geophysical logging surveys conducted at R-28 included: *Compensated Neutron Tool:* Cased: 30 – 79 ft bgs Open Hole: 79 –992 ft bgs

Activity	"Hydrogeologic Workplan" (LANL 1998, 59599)	R-28 SAP (LANL 2003, 03-8324)	R-28 Actual Work
	single-point resistivity (saturated), and spontaneous potential (saturated). In general, cased-hole geophysics includes: gamma-gamma density, natural gamma, and thermal neutron.	ray spectrometry, epithermal compensated neutron log, caliper, full-bore formation micro-imager, elemental capture spectrometer and borehole video. In general, cased-hole geophysics includes triple lithodensity, natural gamma, natural gamma spectrometry, epithermal compensated neutron log, elemental capture spectrometer.	*Triple Litho-Density:* Cased: 30 –79 ft bgs Open Hole: 79 – 992 ft bgs *Array Induction Tool:* Cased: none Open Hole: 79–986 ft bgs *Elemental Capture Spectroscopy:* Cased: none Open Hole: 79 – 989 ft bgs *Natural Gamma Spectroscopy:* Cased: none Open hole: 79 – 971 ft bgs *Combinable Magnetic Resonance:* Cased: none Open Hole: 100 – 972 ft bgs *Full-bore Fm Micro-Imager:* Cased: none Open Hole: 888 – 989 ft bgs LANL video logging performed in open hole in the interval 0 – 888 ft bgs.
Water-Level Measurements	Procedures and methods not specified in "Hydrogeologic Workplan"	Water levels will be determined for each saturated zone by water-level meter or by pressure transducer.	Electric water level meter (sounder) used to measure zones of perched saturation (i.e., attempted measurements) and the regional water table.
Field Hydraulic-Property Tests	Not specified in hydrogeologic work plan	Slug or pumping tests may be conducted in saturated intervals once the well is completed.	Hydraulic pumping tests at R-28 conducted in January 2004.
Shallow Piezometers	Not specified in hydrogeologic work plan	Not specified in SAP.	No shallow piezometers were installed.
Surface Casing	Approximately 20-in. outer diameter (OD) extends from land surface to 10-ft depth in underlying competent layer and grouted in place.	Not specified in SAP.	13 3/8-in. OD steel casing was installed to 80 ft bgs and subsequently removed during R-28 well construction
Minimum Well Casing Size	6.625-in. OD	Not specified in SAP.	5-in. OD (4.46-in ID) stainless steel casing with external couplings
Well Screen	Machine-slotted (0.01-in.) stainless-steel screens with flush-jointed threads; number and length of screens to be determined on a site-specific basis and proposed to NMED	No well construction details are specified in the SAP	A single screen at R-28 constructed of 5.27-in. OD, wire-wrapped, rod-based stainless-steel, 0.020-in. slot size, with external couplings. The screen spans the interval 934.3-958.1 ft bgs.
Sump	Stainless-steel casing with an end cap	Not specified in SAP.	Sump constructed of 5-in. OD stainless-steel casing, 22.2 ft long, with end cap.

Activity	"Hydrogeologic Workplan" (LANL 1998, 59599)	R-28 SAP (LANL 2003, 03-8324)	R-28 Actual Work
Backfill	Uncontaminated drill cuttings below sump and bentonite above sump	Not specified in SAP.	Slough in the borehole occurred from 982.5 to 1005 ft bgs. Bentonite backfill constructed below the screen in the interval 969-982.5 ft bgs.
Filter Material	>90% silica sand, properly sized for the 0.010-in. slot size of the well screen; extends 2 ft above and below the well screen	Not specified in SAP.	Primary filter pack constructed of 10/20 silica sand placed in the interval 926.5-969 ft bgs, 7.8 ft above and 10.9 ft below the screen, respectively. Secondary filter pack constructed of 20/40 silica sand placed above primary filter pack in the interval 923-926.5 ft bgs.
Transition Seal	N/A*	Not specified in SAP.	The transition seal below the primary filter material composed of a 50:50 mix of 10/20 sand and bentonite chips was placed above the secondary filter pack in the interval 887-923 ft bgs.
Bentonite Seal	N/A	Not specified in SAP.	Seal constructed of 3/8-in. bentonite chips tremied into the annulus above the transition seal and placed in the interval 76-887 ft bgs. All bentonite hydrated with municipal water after emplacement in 60-ft lifts.
Concrete Backfill	N/A	Not specified in SAP.	2,500 psi concrete with 4% bentonite poured in the interval 0-76 ft bgs.

* N/A – Not specified in the two referenced documents.