

Formation Thermal Conductivity Testing of the
Ledger Formation in Lancaster County Pennsylvania

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Abstract

The Red Rose transit Authority requested a formation thermal conductivity test be conducted at the Erick Road maintenance and office building site in Lancaster, Pennsylvania. Formation thermal conductivity is a key parameter in geothermal system design and varies significantly based on site conditions. Therefore, site specific formation thermal conductivity testing enables the proper design of a geothermal well field. Using industry standard methods, the test was conducted over a 46 hour period and utilized a purpose built testing apparatus. Power fluctuations were observed in the recorded data that indicated a failing heating element. Due to the limitations of the prescribed line source analytical solution typically used to evaluate the data, power fluctuations would result in the violation of a key assumption for the solution. Therefore, convolution of the line source model was used to overcome the power issues and determine a thermal conductivity. This report provides documentation of the testing procedures used to determine the formation thermal conductivity for the underlying geologic formation and demonstrates the applicability of convolution of the line source method to analyze test data that could be considered compromised by variable power input.

Nomenclature

Density

$$\rho = \text{kg}/\text{m}^3$$

Specific Heat Capacity

$$c = \text{J}/\text{kg} \cdot \text{K}$$

Thermal Conductivity

$$\lambda = \text{W}/(\text{m} \cdot \text{K})$$

Diffusivity

$$\alpha = \lambda/\rho c$$

Borehole Resistance

$$Rb = (\text{m} \cdot \text{K})/\text{W}$$

Heat Input

$$Q = \text{Watts}$$

Heat Flux

$$q = \text{W}/\text{m}^2$$

Conversions

$$1 \text{ W} = 3600 \text{ J/hr}$$

$$1 \text{ BTU/hr} \cdot \text{ft} \cdot ^\circ\text{F} = 1.7307 \text{ W}/\text{m}^\circ\text{C}$$

$$1 \text{ K} = 255.9277 ^\circ\text{F}$$

$$1 \text{ BTU} = 1.0551 \times 10^3 \text{ J}$$

$$1 \text{ lb}/\text{ft}^3 = 16.018 \text{ kg}/\text{m}^3$$

$$1 \text{ BTU/hr} = 2.9307 \times 10^{-1} \text{ W}$$

Introduction:

The Red Rose transit Authority requested a formation thermal conductivity test be conducted at the Erick Road maintenance and office building site in Lancaster, Pennsylvania. Formation thermal conductivity is a key parameter in geothermal system design and varies significantly based on site conditions. Therefore, site specific formation thermal conductivity testing enables the proper design of a geothermal well field.

Using industry standard methods, the test was conducted over a 46 hour period and utilized a purpose built testing apparatus. However, power fluctuations were observed in the recorded data that indicated a failing heating element. Due to the limitations of the prescribed line source analytical solution typically used to evaluate the data, power fluctuations would result in the violation of a key assumption for the solution. Therefore, convolution of the line source model was used to overcome the power issues and determine a thermal conductivity. This report provides documentation of the testing procedures used to determine the formation thermal conductivity (FTC) for underlying geologic formation and demonstrates the applicability of convolution of the line source method to analyze test data that could be considered compromised by variable power input.

Literature Review:

The transfer of heat is primarily controlled by conduction, convection, and radiation. Radiation and convection are the primary mechanisms of heat transfer in gases and liquids, while conduction is the primary mechanism in a solid (Carslaw and Jaeger 1990, 251). In-situ testing for thermal conductivity in a geologic formation can be influenced by fluids and solids. Therefore, conduction and convection would be expected as the primary methods of heat transfer. However, in the borehole heat exchanger, the annular space between the loop pipe and the borehole wall is grouted and will typically preclude convection of formation water. The line source model is used

to determine thermal conductivity with conduction being the primary method of heat transfer. From the equation below, one can see the link to the famous Theis analytical solution to groundwater flow to a well. As an interesting historical aside, in 1934 Charles Vernon Theis of the United States Geological Survey corresponded with a mathematician, Clarence Lubin of the University of Cincinnati regarding the solution to a problem of radial flow given a plate of constant thickness and a uniform initial temperature. Lubin immediately identified the line source equation from Carslaw and Jaeger. Transposing the variables from heat conduction to groundwater flow, Theis went on to write a seminal paper that revolutionized groundwater analysis (Anderson 2008, 625).

$$T = \frac{q}{4\pi\alpha} \int_{r^2/4\alpha t}^{\infty} \frac{e^{-u}}{u} du$$

Upon close review of the line source model, it is clear that it is limited with respect to actual conditions encountered in the field. For example, typical borehole heat exchangers are 6-inch diameter boreholes containing a loop of plastic pipe with bentonite or thermally enhanced grout sealing the annular space. The line source equation in this form does not take into account the effects of borehole thermal resistance which is a measure of the insulating capacity of the constructed system. In addition, heat transported from the borehole by advection in proportion to the seepage velocity of groundwater is not accounted for in the line source model. It is clear also, that the power supply as expressed by q in the line source equation should be constant with respect to time, which is never the case in field application. Even in cases where a generator is not needed, power supplied by the utility grid is subject to fluctuation. Finally, the model assumes constant density and heat capacity of the tested material. In reality, a borehole will penetrate many layers of heterogeneous rock and soil formations.

(Austin 1998; Eklof and Gehlin 1996; Signorelli et al. 2007, 141-166) all suggest cumulative errors in the line source method of approximately 10%. These papers also indicate that the in-situ test is really a measurement of the effective thermal conductivity of the entire system and not just the solid geologic formation. This means that the in-situ test is affected by groundwater flow, voids, heterogeneous layering, and the borehole heat exchanger itself.

As shown in Figure 1 below, the mineral composition and rock type of the geologic formation also plays a significant role in thermal conductivity (Clauser and Huenges 1995, p. 105). (Austin 1998) also lists ranges for various geologic formations. For sedimentary rocks, high quartz containing formations typically have higher thermal conductivity; carbonates have med to high thermal conductivity; and shale and marine sediments have low thermal conductivity. Obviously the geologic formations observed in the field often at highly heterogeneous and will have thermal conductivities that are in proportion to their mineralogical makeup.

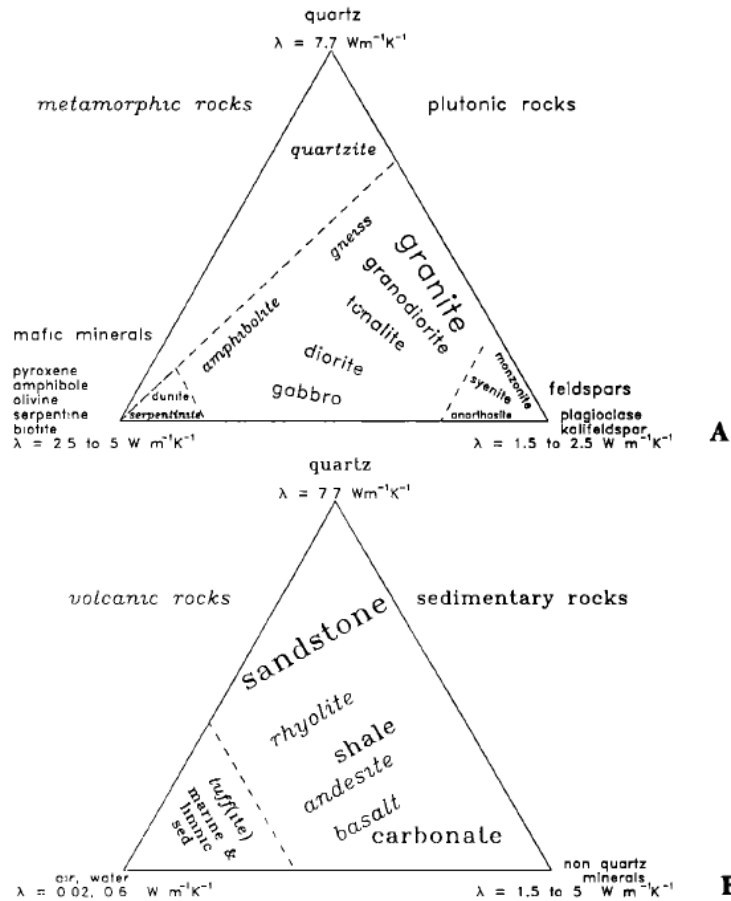


Figure 1 Relation of mineral composition and rock type to thermal conductivity (Clauser, C. 1995).

Factors affecting the in-situ test other than geology include borehole resistance, groundwater, and power fluctuations. There has been some work on using the line source model to account for the borehole thermal resistance. (Bandos et al. 2009, 263-270; Sharqawy, Mokheimer, and Badr 2009, 271-277; Kutasov and Kagan 2003, 187-193; Sutton, Nutter, and Couvillion 2003, 183-189; Beier and Smith 2002, 212-219; Gunzel and Wilhelm 2000, 689-700; Remund 1999; Shonder and Beck 2000, PA/) discuss methods for calculating borehole thermal resistance and the effects on the field testing. It is clear from this work that thermal resistance of the borehole is directly related to construction materials and techniques and can affect the calculation of thermal conductivity as much as 10%. Corrections for borehole resistance include, ignoring the first ten

to twelve hours of the data or after the time period where the graphed temperature versus time plot bends slightly indicating that the exchanger is no longer heating but rejecting heat to the formation. If the grout is not thermally enhanced and the spacing of the legs of the loop is not close to the wall of the borehole, significant resistance will be observed in the field data. A simple correction is often calculated as shown in the following equation:

$$T_f = T - Q * R_b$$

Where T is the measured heat in the exchanger test box and T_f is the formation temperature at the borehole wall. Q is the power input and R_b is the borehole resistance.

(Signorelli et al. 2007, 141-166) discusses the effects of groundwater flow on the calculation of thermal conductivity. The major factor is the seepage velocity and this can be as significant as a 30% variation in calculated thermal conductivity. High groundwater flow typically results in an over estimate of the thermal conductivity of the geologic formation.

Finally, power fluctuations have been addressed in (Shonder and Beck 2000, PA/; Kim et al. ; Beier 2008, 489-505; Beck and Shonder 1998, 221-240; Shonder and Beck 1999, PART 1/). However, the methods used are more complex numerical models or a multi-step evaluation of interrupted power tests. Therefore, this paper will explore the use of convolution to account for the effects of a varied power input. The primary goal is to develop an easy to use spreadsheet model that will be capable of calculating a thermal conductivity value with variable power input using convolution of the line source model.

Site Description:

The well site is located at the end of Erick Road and to the north east of the Red Rose Transit office and maintenance building. The well location is 40°03'51.25"N and 76°19'07.05"W. The

well site surface elevation is 339 feet above Mean Sea Level (MSL). Refer to Figure 2 for the site location.

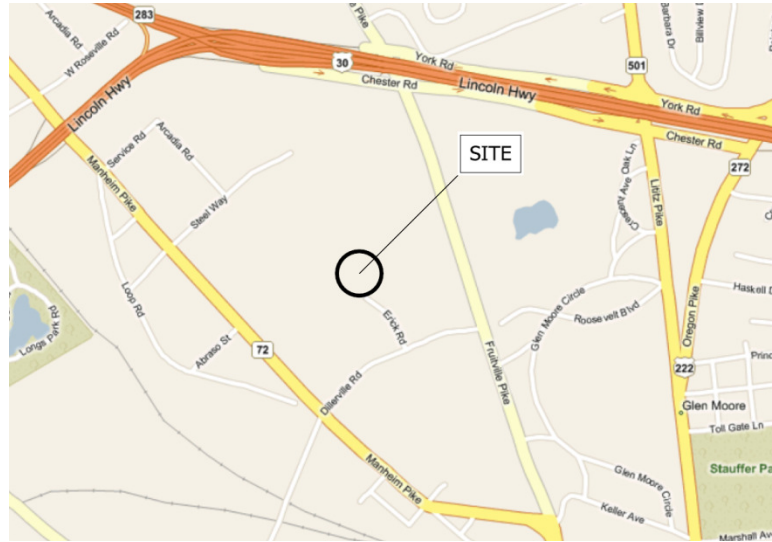


Figure 2 Site Location

The geologic map indicates that the subject property is underlain by the Ledger Formation (Socolow 1980) as shown in Figure 3. The Ledger Formation consists of a light gray, locally mottled, massive, pure, coarsely crystalline dolomite. The formation is moderately well bedded. Fractures are moderately abundant, irregularly spaced, have a blocky pattern, steeply dipping and typically open. The total thickness is about 2,000 feet (Geyer and Wilshusen 1982).

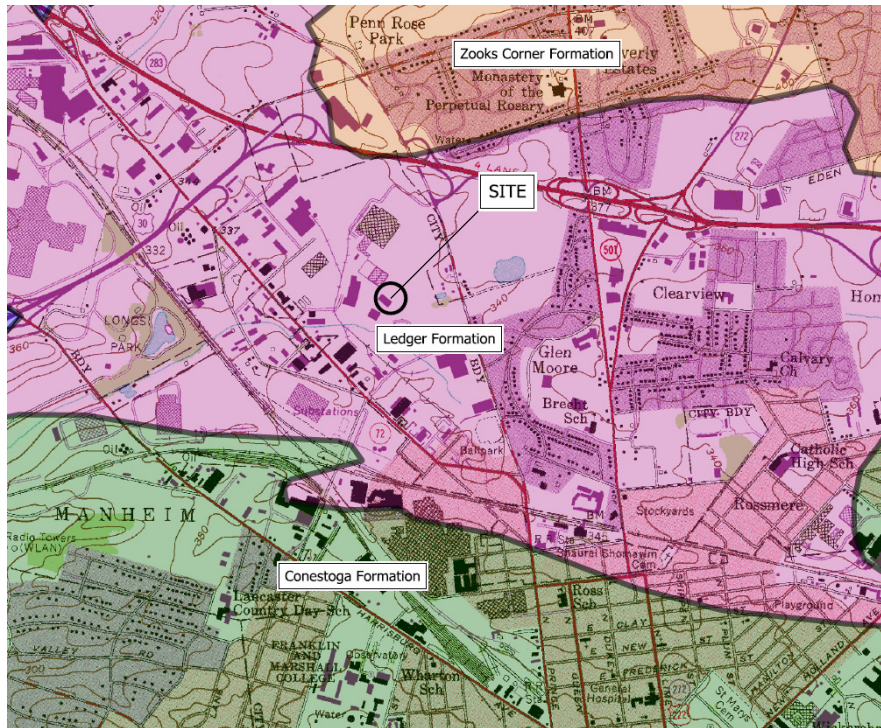


Figure 3 Site Geology

Methods:

A ten-inch diameter borehole was completed from ground surface to a depth of about 26 feet. An eight-inch diameter borehole was continued from 25 feet to 141 feet with competent bedrock noted at 30 feet below the existing ground surface. Eight-inch steel casing was installed from ground surface to 46 feet. Six inch casing was installed to a depth of 141 feet below the ground surface. A six-inch diameter borehole was then advanced to the total depth of 500 feet below the existing ground surface. The drill cuttings indicated limestone of the underlying Ledger Formation. Note that the driller described the formation as a limestone. However, testing with dilute HCL indicated it was in fact dolomite

Due to the weathered and fractured nature of the Ledger Formation, various water bearing zones and voids were encountered during drilling. A void was identified at about 52 feet below ground surface which produced water at approximately 100 gallons per minute. Therefore, the

drill crew had to use air rotary with drilling mud techniques to advance the bore hole to the required depth.

For final construction of the geothermal loop, a continuous 1.25 inch diameter HDPE geothermal pipe with factory installed U-bend was installed to a depth of 500 feet. The annular space between the loop, borehole and steel casing was tremmie grouted with 20% bentonite grout high solids for the entire depth of the borehole. Figure 4 is a graphical representation of the driller's borehole log and final well construction diagram.

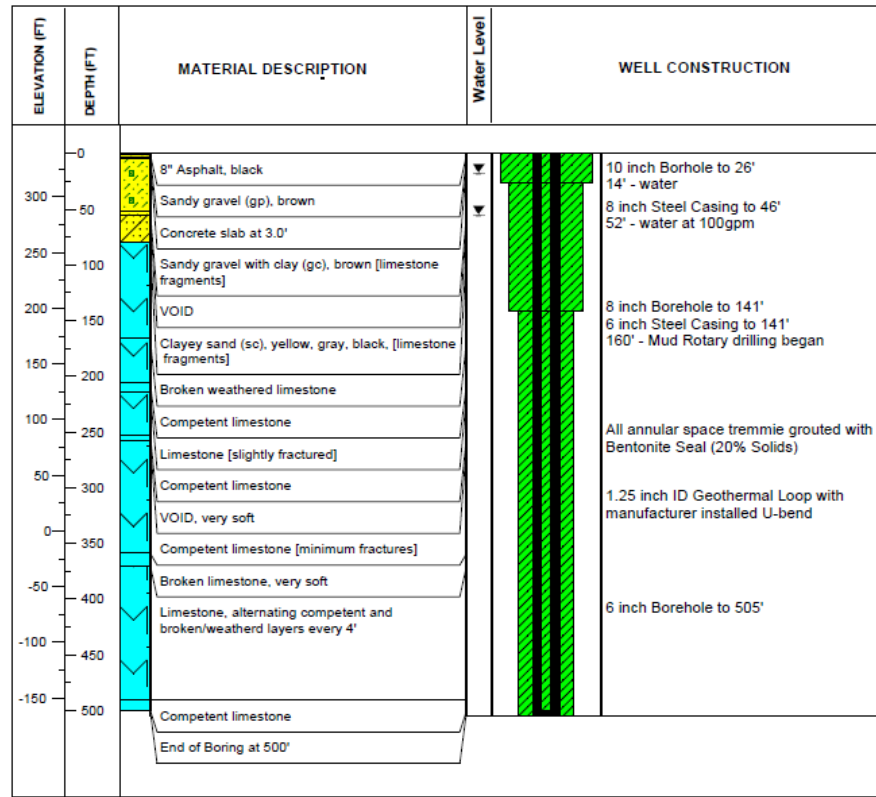


Figure 4 Driller's Well Log.

Test Apparatus

Testing devices for formation thermal conductivity have been in use since the 1990s (Eklof and Gehlin 1996) (Austin 1998). These early models were often built on trailers to be towed to

the site for connection to the borehole heat exchangers. Improvements have been made and a significant reduction in size over the years enabled more portability (Mattsson, Steinmann, and Laloui 2008, 1344-1352). The apparatus used at the Red Rose Transit property was adapted from the more portable versions that can be contained in a cooler.

In general, the system is comprised of a heater, electrical network, water flow circuit, and measurement instrumentation. A general schematic of the test box process is shown in Figure 5 and pictures of the box are shown in Figures 6, 7 and 8. The apparatus used at Red Rose Transit site had two 4000 watt heating elements and a closed loop circulation pump. Water in the closed loop system would be pumped from the BHE into the box and through the heaters. Leaving and entering water temperature and power input were recorded with a data logger at 1 minute intervals.

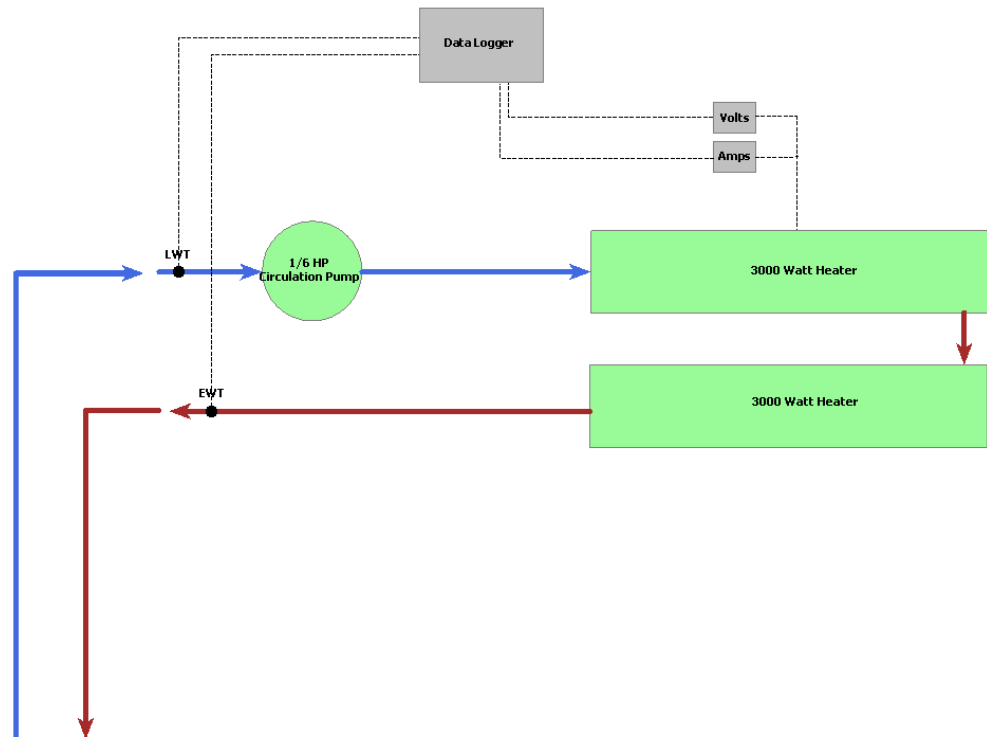


Figure 5 Test process schematic



Figure 6 Test box with Computer connected to data logger

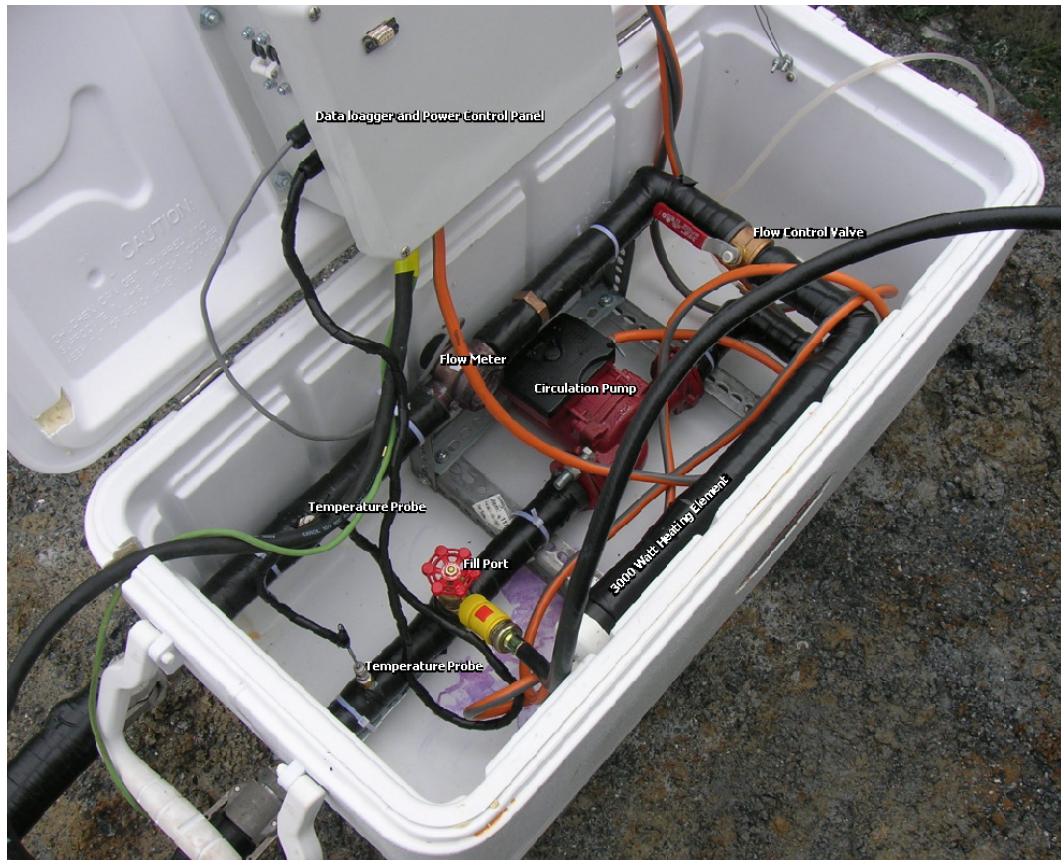


Figure 7 Inside view of the test box



Figure 8 Test box connected to Borehole Heat Exchanger

Line Source with Convolution

The Fourier equation expresses mathematically the flow of heat in a body and is expressed below. The solution to any particular heat conduction problem should satisfy this equation.

$$\frac{\partial T}{\partial t} = \alpha \nabla^2 T$$

In this equation, T is temperature, t is time, and α is the thermal diffusivity of the substance with the units of Length²/Time, and is a function of thermal conductivity (k), specific heat (c) and density (ρ).

$$\alpha = \frac{k}{\rho c}$$

Furthermore, the relationship between heat flow and the temperature gradient within the conducting substance is called Fourier's Law and can be expressed as:

$$q = -k\nabla T$$

Where q is the heat flow vector of a material in Power/Distance² units.

It can be shown that, the Fourier equation can be solved by the application of initial and boundary conditions to model a continuous point source of heat in an infinite solid with radial flow from the source (Carslaw and Jaeger 1990, 251).

$$T = \frac{q}{(4\pi\alpha r)} \operatorname{erfc}\left(\frac{r}{\sqrt{(4\alpha t)}}\right)$$

The variable r is radial distance. Then by integrating to develop an infinite series of point sources in the z direction, the line source model can be developed as below.

$$T = \frac{q}{4\pi\alpha} \int_{r^2/4\alpha t}^{\infty} \frac{e^{-u}}{u} du \quad \text{Eq 1}$$

The integral in the line source model is the exponential integral and can be evaluated using a Taylor series expansion of the form:

$$W(u) = -\gamma - \ln u + u - \frac{u^2}{2 \times 2!} + \frac{u^3}{3 \times 3!} - \frac{u^4}{4 \times 4!} + \dots$$

In this expansion, γ is Euler's constant 0.5772.

In general, convolution is a mathematical process the combines two functions to create a third modified function and is expressed as:

$$(f * g)(t) = \int_{-\infty}^{\infty} f(t - \tau)g(\tau)d\tau$$

In words, it assumes that an impulse function and an impulse response function are applied to get the block response. The impulse function $f(t - \tau)$ is reflected, slid along the time axis, and where it intersects with the impulse response function $g(\tau)$ the integral of their product is found. This can be done for the line source model by using the variable power input as an impulse function. (Olsthoorn 2008, 13-22) showed that the convolution integral could be expressed as:

$$s_k = \sum_{i=1}^{\infty} F_{k-i} \{R_{si} - R_{si-1}\}$$

Where $\{R_{si} - R_{si-1}\}$ is the block response, R_B , and F_{k-i} is the pulse.

Using convolution on the line source:

$$\Delta T(t) = \frac{Q}{4\pi\lambda} \int_{r^2/4at}^{\infty} \frac{e^{-u}}{u} du = \frac{Q}{4\pi\lambda} W(u)$$

$$R_s(t) = \frac{W(u)}{4\pi\lambda}$$

$$\Delta T(t) = QR_s(t)$$

$$\Delta T(t) = \sum_{\tau=1}^{\infty} Q(t - \tau)\{R_{s\tau} - R_{s\tau-1}\}$$

Spreadsheet Implementation

To implement the line source convolution in Microsoft Excel, the well function will need to be calculated using a custom spreadsheet function programmed in VBA. This can be done by going into the VBA Editor on the VB toolbar and entering the following code (Olsthoorn 2008, 13-22):

Function W (u As Double) as Double

Dim n AS Integer, term As Double

W=0

If u<15 **Then**

n=1

term = -u

W = -0.5772156649 – Log(u) – term

Do While Abs(term) > 0.000000001

term = -u*n/(n+1)^2*term

W= W-term

N=n+1

Loop

End If

End Function

Once the code has been entered the W function will be available in the mathematical function list within the equation editor. Figure 9 shows the implemented spreadsheet.

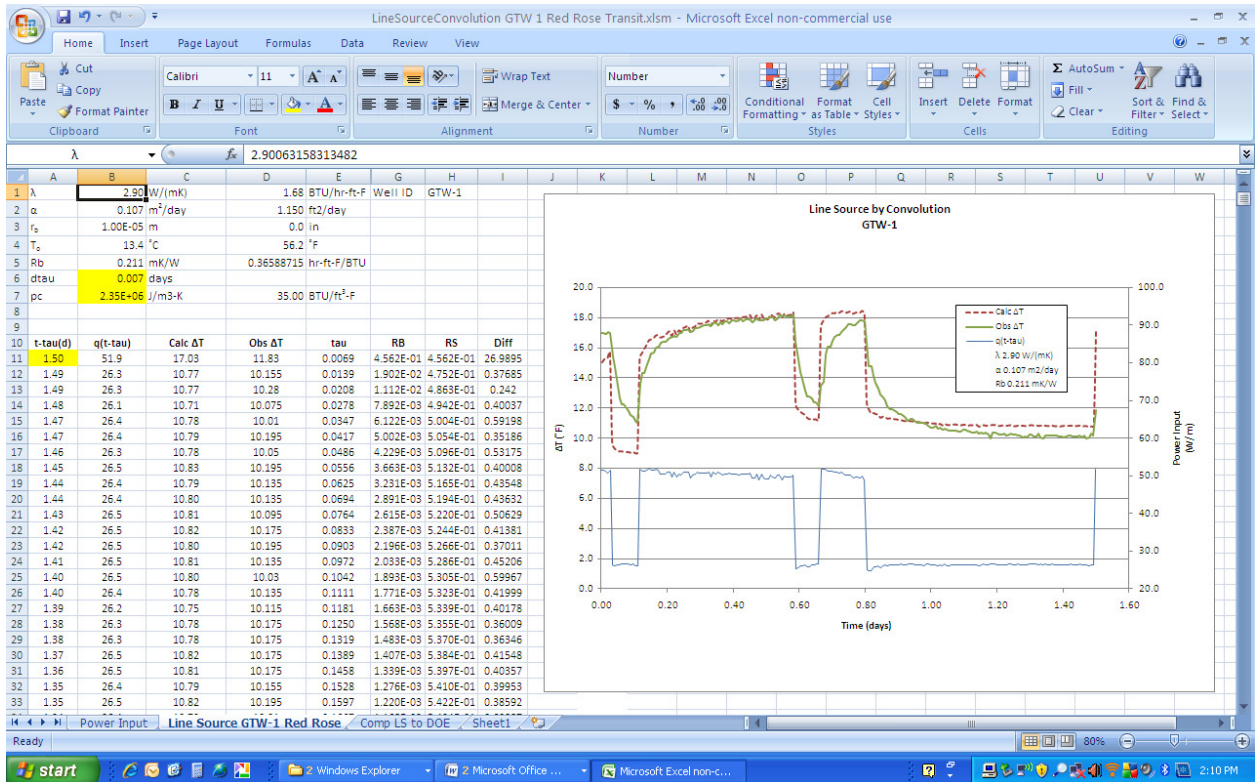


Figure 9 Spread Sheet Model

Cells B1:B7 contain the model inputs. The time difference between data points is the dtau, and for this spreadsheet, dtau was 0.007 days or 10 minutes. Range A11 contains the actual measurement times starting with the ending time and sorted in reverse order with dtau time steps. Range B11 downward contains the measured power input for each time. Range C11 downward is the calculated change in temperature using the *sumproduct(range_a,range_b)* function and corrected for borehole resistance. For example the following equation would be entered:

$$=SUMPRODUCT(B11:B889,G11:G889)-B11*Rbor$$

Range D11 downward is the observed temperature change. Range E11 downward is tau which is the same time step as the power input but increasing downward. Range G11 is the block response

which is the difference of two consecutive step responses. Range H11 is the step response as calculated using the well function code and equation (?) above. Range H12 is the residual error of the observed versus the calculated change in temperatures. This range of cells can be summed to give an error function for use with the built in solver package. The solver package can then target the summation of the residuals and adjust cells in the B1:B7 range to minimize the error.

Results

Prior to conducting the formation thermal conductivity test, the initial ground temperature is recorded by running the circulation pump without turning on the heating elements. This method of determining the temperature is standard practice and correlates well with physical down hole measurements using thermocouples lowered into the borehole(Sharqawy et al. 2009, 2218-2223). The inlet and outlet temperatures are recorded and the mean of the two readings are plotted against time in figure 10. The mean undisturbed ground temperature also referred to as deep earth temperature is 56.2 °F.

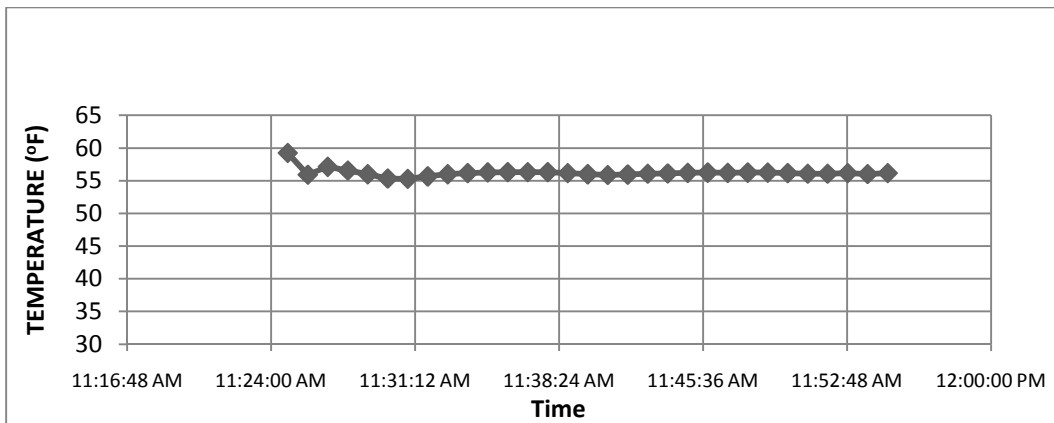


Figure 10 Deep Earth Temperature

The formation thermal conductivity testing was conducted for 46 hours. The graph in figure 11 shows the recorded temperature response with time. It is apparent from the graph that there were significant fluctuations in the temperature readings starting at about 5.5 hours into the test. Upon investigation of the test box after the test, it was discovered that one of the heating elements was short circuiting.

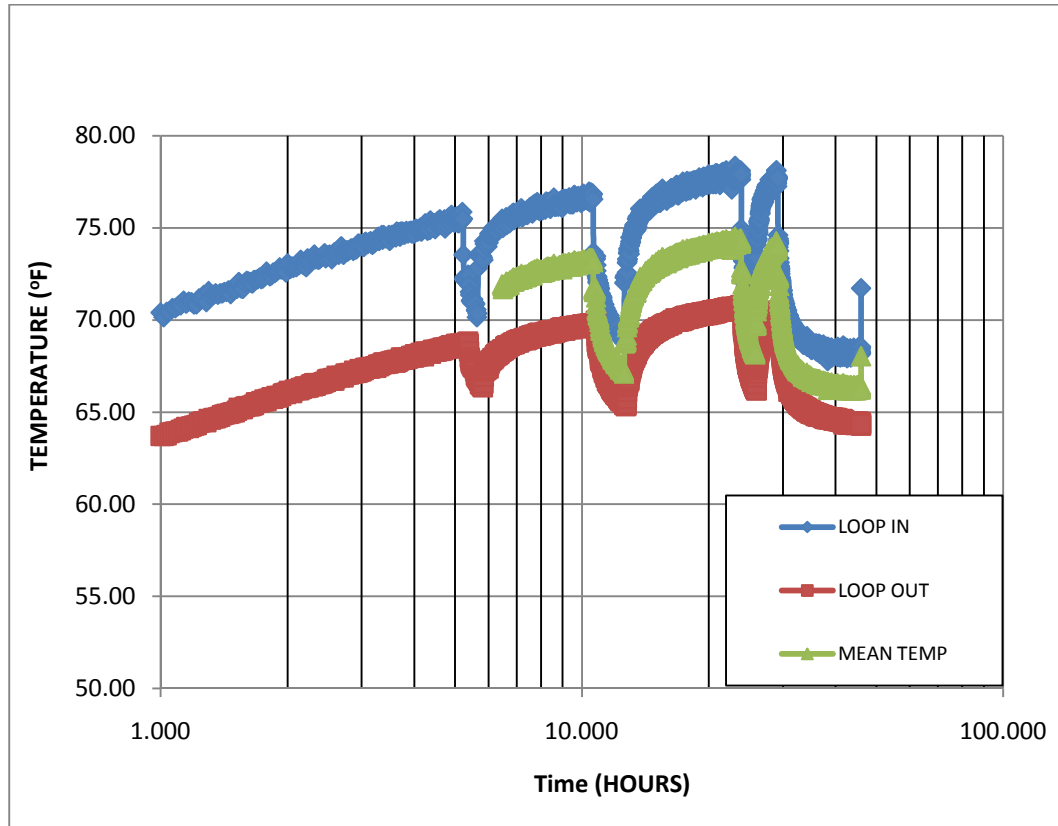


Figure 11 Temperature versus Time

As seen in Figure 12, the power input was not constant. The variable power is a violation of the assumptions of the line source model and would require the use of convolution or some numerical model. The field data has been included in Appendix A.

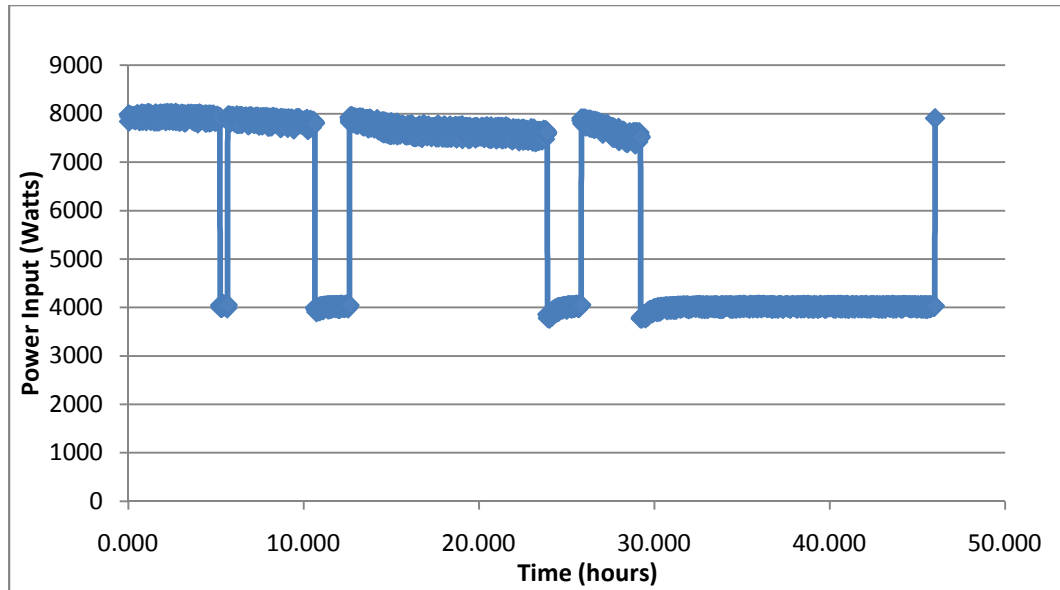


Figure 12 Power Input versus Time

Once the fluctuations in the temperature and power were noted, the convolution of the line source was applied using the spreadsheet model. The observed data was used as the objective function and the model was fit to the curve by adjusting the thermal conductivity value using the built in solver package within the spreadsheet software.

Inputs for the model were derived from the field data and from the known conditions of the borehole heat exchanger. A literature value for specific heat capacity of 35 BTU/ft³-F^o was selected for the dolomite formation (Kavanaugh 1995, 1088-1094), and is used to calculate the thermal diffusivity. Once the model was run, the output showed good correlation to the observed data as shown in Figure 13. From the model the thermal conductivity of the Ledger formation at the Red Rose Transit site is 1.68 BTU/hr-Ft-F^o. The borehole resistance was calculated to be 0.37 hr-Ft-F^o/ BTU. The model input and output files have been included in Appendix B.

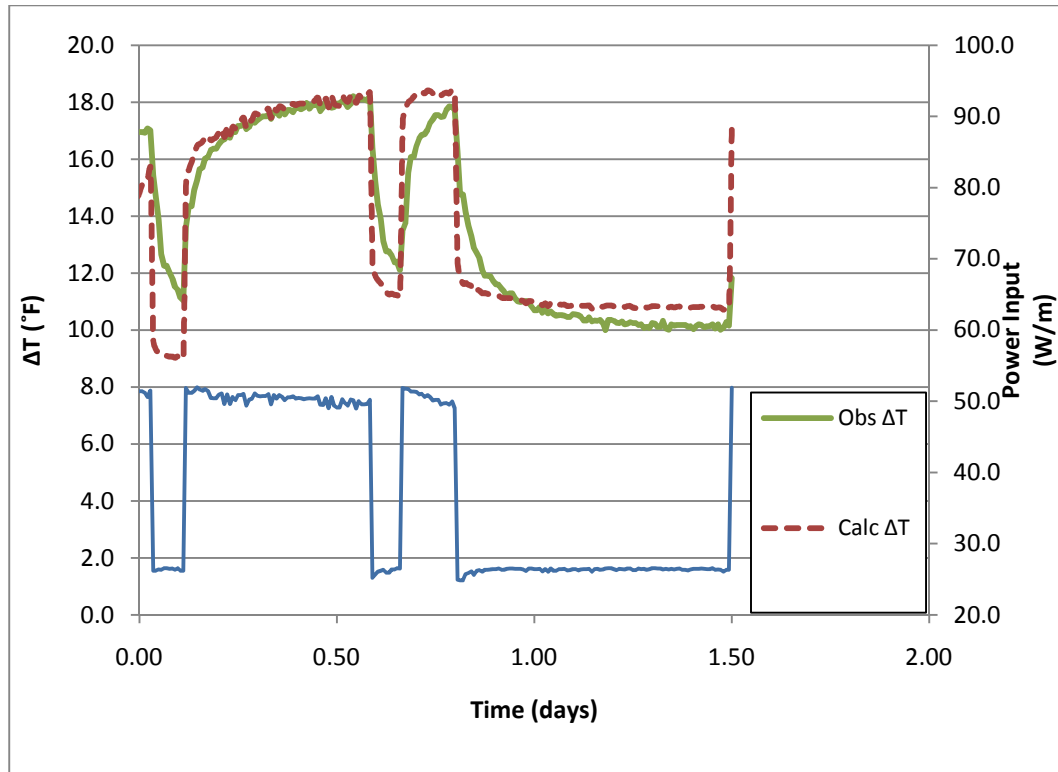


Figure 13 Graphical Output of the convolution model

Discussion

The calculated value for the site thermal conductivity was evaluated in two ways. First the data was run through the Oak Ridge National Laboratories GPM model developed for the Department of Energy (Shonder and Beck 2000, PA/). This is a numerical model that uses parameter estimation to calculate the thermal conductivity. As shown in Figure 14, there was good correlation between the convolution of the analytical line source model and the GPM numerical model. The comparison data files have been included in Appendix C and the GPM model output has been included in Appendix D.

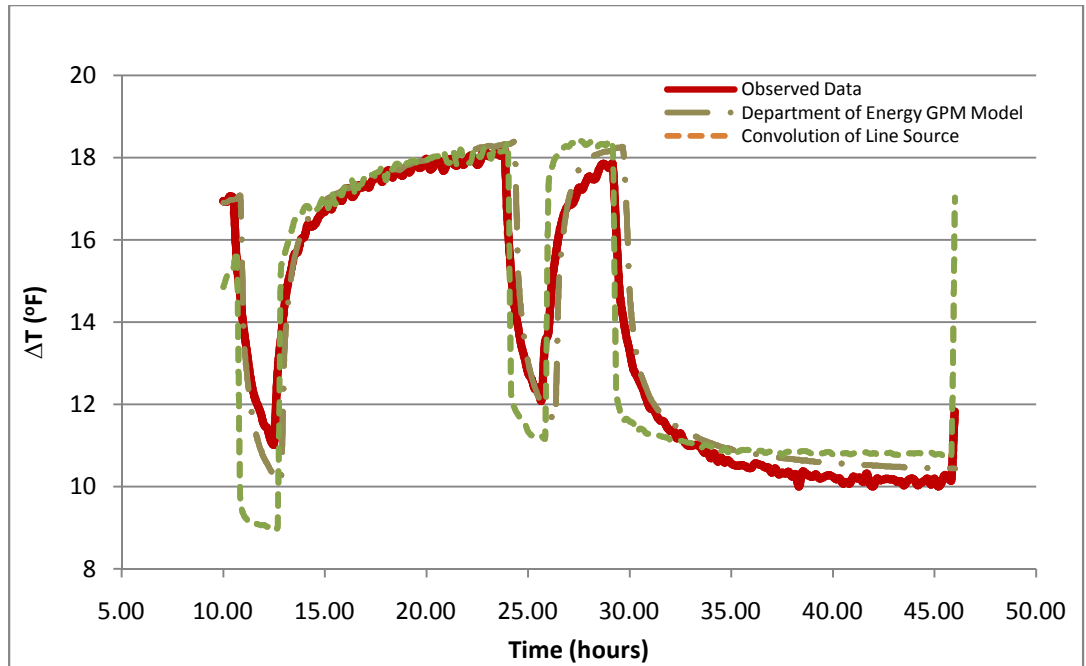


Figure 14 Comparison of modeled and observed data

The second method of evaluation was to review literature values for dolomite and determine if the calculated values are within other report ranges. (Clauser and Huenges 1995, p. 105) performed an excellent literature review and compiled a database of thermal conductivity values for various rock types and mineral. Table 1 lists the results of this comparison.

Source	Thermal Conductivity	Borehole Resistance
	Dolomite (BTU/hr-ft-F ^o)	hr-ft-F ^o / BTU
Clauser and Huenges 1995	1.44 to 3.18	N/A
Convolution of Line Source	1.68	0.37
GPM Numerical Model	1.72	0.23

Table 1 Summary of Test Results and Comparison to Literature Values.

Conclusion:

The formation testing at the Red Rose Transit Authority was completed with technical difficulties that required a more sophisticated analysis of the data than the standard line source analytical model. Using convolution of the line source to account for the variable power input, an acceptable value for thermal conductivity was obtained. This method is simply applied to a spreadsheet model that standard field practitioners would be able to use for test evaluation.

The model output for this new method was consistent with output from the Oak Ridge National Laboratory GPM numerical model. When compared to literature values for dolomite, the calculated values for the test were within expected values. Therefore, the test was successful and a costly retest was avoided.

Further testing of the convolution method should be performed. Future work could include simulations using a numerical model to simulate a test as done by (Signorelli et al. 2007, 141-166). Runs simulating power fluctuations in the numerical model could generate theoretical temperature response from a synthetic aquifer. This modeled response could then be input into the analytical line source model allowing for evaluation of the method. Review of this method with numerical models could also shed some light on the possible reduction in accuracy caused by power fluctuations on the traditional line source method.

Finally, the actual test borehole at the site shed some light on the possible difficulties of drilling in karst formations. The dolomite had voids and high production of water. This resulted in increased effort to drill the borehole heat exchanger. Certainly, the test was successful, but the cost of scaling up to a well field that would require 60 wells or more could be prohibitively costly. Therefore, the thermal properties are should not be the sole basis for construction.

Licensed geologists should be employed to evaluate the drilling conditions to determine true constructability.

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Appendix A

12-22-08.txt

XR5-SE, Serial #: EM12G939, Locale: English (United States)
FwRev: 1.00.95, LogXR: 1.01.66a, Battery Voltage: 7.08V
Label: TGS Geothermal
Unit ID: EM12G939
Excitation Time: 30ms
Temp Scale: F
Clock: May 29, 2009 10:14:29 AM

Maximum Log Time: 11d, 1hr, 2min
Log Time until full: 9d, 2hr, 11min
Start Logging: May 27, 2009 11:24:50 AM
Stop Logging: Jun 7, 2009 12:26:50 PM

Log Interval: 0 hr, 1 min, 0 sec
Run Mode: Manual (Slow)
Total Samples: 11244, Current State: Logging

Ch1: On
Ch1 Type/Mode: 0-5V, Standard
Ch1 Slope/Offset: 60.0, 0.0
Ch1 Alarm High/Low: Off/Off, 0.0, 0.0,
Ch1 Descr: Voltage
Ch1 SMS: ,

Ch2: On
Ch2 Type/Mode: 0-2.5V, Standard
Ch2 Slope/Offset: 20.0, 0.0
Ch2 Alarm High/Low: Off/Off, 0.0, 0.0,
Ch2 Descr: AMPS
Ch2 SMS: ,

Ch3: On
Ch3 Type/Mode: Temperature PT9xx (C.rvt), Standard
Ch3 Slope/Offset: 60.0, 0.0
Ch3 Alarm High/Low: Off/Off, 77.29, 65.48,
Ch3 Descr: Temp In
Ch3 SMS: ,

Ch4: On
Ch4 Type/Mode: Temperature PT9xx (C.rvt), Standard
Ch4 Slope/Offset: 40.0, 0.0
Ch4 Alarm High/Low: Off/Off, 77.29, 65.48,
Ch4 Descr: Temp Out
Ch4 SMS: ,

Ch5: Off
Ch5 Type/Mode: 0-5V, Standard
Ch5 Slope/Offset: 7.11, -0.56
Ch5 Alarm High/Low: Off/Off, 0.004, 0.004,
Ch5 Descr: Flow (gpm)
Ch5 SMS: ,

Ch6: Off
Ch6 Type/Mode: Temperature PT9xx (C.rvt), Standard
Ch6 Slope/Offset: 1.0, 0.0
Ch6 Alarm High/Low: Off/Off, 482.02, 482.02,
Ch6 Descr:
Ch6 SMS: ,

Ch7: off
Ch7 Type/Mode: Temperature PT9xx (C.rvt), Standard
Ch7 Slope/Offset: 1.0, 0.0
Ch7 Alarm High/Low: Off/Off, 482.02, 482.02,
Ch7 Descr:
Ch7 SMS: ,

Ch8: off
Ch8 Type/Mode: Temperature PT9xx (C.rvt), Standard
Ch8 Slope/Offset: 1.0, 0.0
Ch8 Alarm High/Low: Off/Off, 482.02, 482.02,
Ch8 Descr:
Ch8 SMS: ,

ChX: off
ChX Type: Mechanical Switch, Pulse
ChX Slope/Offset: 1, 0
ChX Descr:

ChY: off
ChY Type: Mechanical Switch, Pulse
ChY Slope/Offset: 1, 0
ChY Descr:

ChZ: off
ChZ Type: Mechanical Switch, Pulse
ChZ Slope/Offset: 1, 0
ChZ Descr:

Ambient: off

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Appendix B

Date-Time	ET (hours)	ET (days)	W	W/m	obs T	Delta T
May-27, 2009 9:55:50 PM	10.00	0.00	7832.189	51.4	73.15	16.95
May-27, 2009 10:05:50 PM	10.17	0.01	7802.349	51.2	73.13	16.93
May-27, 2009 10:15:50 PM	10.33	0.01	7709.736	50.6	73.27	17.07
May-27, 2009 10:25:50 PM	10.50	0.02	7851.88	51.5	73.21	17.01
May-27, 2009 10:35:50 PM	10.67	0.03	3996.158	26.2	71.64	15.44
May-27, 2009 10:45:50 PM	10.83	0.03	3990.799	26.2	70.89	14.69
May-27, 2009 10:55:50 PM	11.00	0.04	4019.298	26.4	70.07	13.87
May-27, 2009 11:05:50 PM	11.17	0.05	4029.066	26.4	69.47	13.27
May-27, 2009 11:15:50 PM	11.33	0.06	4012.531	26.3	68.87	12.67
May-27, 2009 11:25:50 PM	11.50	0.06	4047.153	26.6	68.46	12.26
May-27, 2009 11:35:50 PM	11.67	0.07	4037.714	26.5	68.22	12.02
May-27, 2009 11:45:50 PM	11.83	0.08	4044.316	26.5	68.01	11.81
May-27, 2009 11:55:50 PM	12.00	0.08	4015.432	26.3	67.71	11.51
May-28, 2009 12:05:50 AM	12.17	0.09	4045.352	26.5	67.62	11.42
May-28, 2009 12:15:50 AM	12.33	0.10	3990.17	26.2	67.33	11.13
May-28, 2009 12:25:50 AM	12.50	0.10	3991.364	26.2	67.23	11.03
May-28, 2009 12:35:50 AM	12.67	0.11	7942.796	52.1	68.91	12.71
May-28, 2009 12:45:50 AM	12.83	0.12	7906.663	51.9	69.79	13.59
May-28, 2009 12:55:50 AM	13.00	0.13	7802.197	51.2	70.54	14.34
May-28, 2009 1:05:50 AM	13.17	0.13	7838.948	51.4	71.11	14.91
May-28, 2009 1:15:50 AM	13.33	0.14	7918.772	52.0	71.46	15.26
May-28, 2009 1:25:50 AM	13.50	0.15	7867.063	51.6	71.85	15.65
May-28, 2009 1:35:50 AM	13.67	0.15	7840.153	51.4	71.91	15.71
May-28, 2009 1:45:50 AM	13.83	0.16	7884.957	51.7	72.22	16.02
May-28, 2009 1:55:50 AM	14.00	0.17	7838.948	51.4	72.28	16.08
May-28, 2009 2:05:50 AM	14.17	0.17	7844.099	51.5	72.59	16.39
May-28, 2009 2:15:50 AM	14.33	0.18	7690.891	50.5	72.53	16.33
May-28, 2009 2:25:50 AM	14.50	0.19	7683.909	50.4	72.57	16.37
May-28, 2009 2:35:50 AM	14.67	0.19	7761.686	50.9	72.73	16.53
May-28, 2009 2:45:50 AM	14.83	0.20	7786.724	51.1	72.85	16.65
May-28, 2009 2:55:50 AM	15.00	0.21	7563.158	49.6	72.89	16.69
May-28, 2009 3:05:50 AM	15.17	0.22	7769.739	51.0	73.01	16.81
May-28, 2009 3:15:50 AM	15.33	0.22	7560.739	49.6	72.95	16.75
May-28, 2009 3:25:50 AM	15.50	0.23	7708.451	50.6	73.18	16.98
May-28, 2009 3:35:50 AM	15.67	0.24	7751.85	50.9	73.27	17.07
May-28, 2009 3:45:50 AM	15.83	0.24	7644.627	50.2	73.15	16.95
May-28, 2009 3:55:50 AM	16.00	0.25	7753.801	50.9	73.37	17.17
May-28, 2009 4:05:50 AM	16.17	0.26	7779.725	51.0	73.45	17.25
May-28, 2009 4:15:50 AM	16.33	0.26	7524.351	49.4	73.25	17.05
May-28, 2009 4:25:50 AM	16.50	0.27	7654.641	50.2	73.34	17.14
May-28, 2009 4:35:50 AM	16.67	0.28	7672.738	50.3	73.54	17.34
May-28, 2009 4:45:50 AM	16.83	0.28	7785.019	51.1	73.48	17.28
May-28, 2009 4:55:50 AM	17.00	0.29	7739.954	50.8	73.56	17.36
May-28, 2009 5:05:50 AM	17.17	0.30	7592.24	49.8	73.48	17.28
May-28, 2009 5:15:50 AM	17.33	0.31	7722.556	50.7	73.64	17.44
May-28, 2009 5:25:50 AM	17.50	0.31	7728.991	50.7	73.70	17.50

May-28, 2009 5:35:50 AM	17.67	0.32	7772.961	51.0	73.74	17.54
May-28, 2009 5:45:50 AM	17.83	0.33	7551.984	49.6	73.62	17.42
May-28, 2009 5:55:50 AM	18.00	0.33	7751.505	50.9	73.85	17.65
May-28, 2009 6:05:50 AM	18.17	0.34	7678.567	50.4	73.89	17.69
May-28, 2009 6:15:50 AM	18.33	0.35	7753.167	50.9	73.72	17.52
May-28, 2009 6:25:50 AM	18.50	0.35	7715.459	50.6	73.91	17.71
May-28, 2009 6:35:50 AM	18.67	0.36	7631.673	50.1	73.82	17.62
May-28, 2009 6:45:50 AM	18.83	0.37	7645.736	50.2	73.77	17.57
May-28, 2009 6:55:50 AM	19.00	0.38	7705.257	50.6	73.93	17.73
May-28, 2009 7:05:50 AM	19.17	0.38	7723.599	50.7	73.85	17.65
May-28, 2009 7:15:50 AM	19.33	0.39	7675.232	50.4	74.01	17.81
May-28, 2009 7:25:50 AM	19.50	0.40	7693.039	50.5	74.01	17.81
May-28, 2009 7:35:50 AM	19.67	0.40	7683.628	50.4	73.95	17.75
May-28, 2009 7:45:50 AM	19.83	0.41	7665.902	50.3	74.01	17.81
May-28, 2009 7:55:50 AM	20.00	0.42	7680.008	50.4	74.18	17.98
May-28, 2009 8:05:50 AM	20.17	0.42	7647.675	50.2	73.93	17.73
May-28, 2009 8:15:50 AM	20.33	0.43	7683.024	50.4	73.97	17.77
May-28, 2009 8:25:50 AM	20.50	0.44	7675.247	50.4	74.09	17.89
May-28, 2009 8:35:50 AM	20.67	0.44	7728.307	50.7	74.11	17.91
May-28, 2009 8:45:50 AM	20.83	0.45	7549.68	49.5	73.89	17.69
May-28, 2009 8:55:50 AM	21.00	0.46	7539.217	49.5	74.03	17.83
May-28, 2009 9:05:50 AM	21.17	0.47	7681.301	50.4	74.18	17.98
May-28, 2009 9:15:50 AM	21.33	0.47	7472.231	49.0	74.05	17.85
May-28, 2009 9:25:50 AM	21.50	0.48	7709.029	50.6	74.01	17.81
May-28, 2009 9:35:50 AM	21.67	0.49	7707.323	50.6	74.09	17.89
May-28, 2009 9:45:50 AM	21.83	0.49	7529.855	49.4	74.03	17.83
May-28, 2009 9:55:50 AM	22.00	0.50	7487.065	49.1	74.15	17.95
May-28, 2009 10:05:50 AM	22.17	0.51	7666.228	50.3	74.26	18.06
May-28, 2009 10:15:50 AM	22.33	0.51	7580.305	49.7	74.20	18.00
May-28, 2009 10:25:50 AM	22.50	0.52	7528.726	49.4	74.03	17.83
May-28, 2009 10:35:50 AM	22.67	0.53	7655.045	50.2	74.13	17.93
May-28, 2009 10:45:50 AM	22.83	0.53	7640.639	50.1	74.42	18.22
May-28, 2009 10:55:50 AM	23.00	0.54	7465.642	49.0	74.26	18.06
May-28, 2009 11:05:50 AM	23.17	0.55	7591.579	49.8	74.26	18.06
May-28, 2009 11:15:50 AM	23.33	0.56	7621.475	50.0	74.32	18.12
May-28, 2009 11:25:50 AM	23.50	0.56	7552.369	49.6	74.30	18.10
May-28, 2009 11:35:50 AM	23.67	0.57	7557.577	49.6	74.26	18.06
May-28, 2009 11:45:50 AM	23.83	0.58	7648.719	50.2	74.42	18.22
May-28, 2009 11:55:50 AM	24.00	0.58	3841.103	25.2	72.60	16.40
May-28, 2009 12:05:50 PM	24.17	0.59	3908.525	25.6	71.41	15.21
May-28, 2009 12:15:50 PM	24.33	0.60	3970.174	26.1	70.60	14.40
May-28, 2009 12:25:50 PM	24.50	0.60	3995.677	26.2	70.11	13.91
May-28, 2009 12:35:50 PM	24.67	0.61	3998.505	26.2	69.64	13.44
May-28, 2009 12:45:50 PM	24.83	0.62	4014.129	26.3	69.33	13.13
May-28, 2009 12:55:50 PM	25.00	0.63	3953.277	25.9	68.97	12.77
May-28, 2009 1:05:50 PM	25.17	0.63	4018.364	26.4	68.83	12.63
May-28, 2009 1:15:50 PM	25.33	0.64	4023.025	26.4	68.58	12.38

May-28, 2009 1:25:50 PM	25.50	0.65	4050.721	26.6	68.60	12.40
May-28, 2009 1:35:50 PM	25.67	0.65	4041.707	26.5	68.32	12.12
May-28, 2009 1:45:50 PM	25.83	0.66	7904.831	51.9	69.69	13.49
May-28, 2009 1:55:50 PM	26.00	0.67	7891.886	51.8	69.95	13.75
May-28, 2009 2:05:50 PM	26.17	0.67	7881.842	51.7	71.11	14.91
May-28, 2009 2:15:50 PM	26.33	0.68	7882.299	51.7	71.73	15.53
May-28, 2009 2:25:50 PM	26.50	0.69	7827.159	51.4	72.28	16.08
May-28, 2009 2:35:50 PM	26.67	0.69	7819.51	51.3	72.65	16.45
May-28, 2009 2:45:50 PM	26.83	0.70	7763.333	50.9	72.92	16.72
May-28, 2009 2:55:50 PM	27.00	0.71	7782.043	51.1	73.06	16.86
May-28, 2009 3:05:50 PM	27.17	0.72	7711.107	50.6	73.08	16.88
May-28, 2009 3:15:50 PM	27.33	0.72	7749.553	50.9	73.23	17.03
May-28, 2009 3:25:50 PM	27.50	0.73	7708.631	50.6	73.47	17.27
May-28, 2009 3:35:50 PM	27.67	0.74	7688.228	50.4	73.43	17.23
May-28, 2009 3:45:50 PM	27.83	0.74	7635.474	50.1	73.60	17.40
May-28, 2009 3:55:50 PM	28.00	0.75	7649.707	50.2	73.75	17.55
May-28, 2009 4:05:50 PM	28.17	0.76	7544.319	49.5	73.68	17.48
May-28, 2009 4:15:50 PM	28.33	0.76	7574.543	49.7	73.70	17.50
May-28, 2009 4:25:50 PM	28.50	0.77	7578.885	49.7	73.93	17.73
May-28, 2009 4:35:50 PM	28.67	0.78	7543.86	49.5	74.05	17.85
May-28, 2009 4:45:50 PM	28.83	0.78	7613.1	50.0	74.03	17.83
May-28, 2009 4:55:50 PM	29.00	0.79	7472.367	49.0	73.95	17.75
May-28, 2009 5:05:50 PM	29.17	0.80	7540.83	49.5	74.05	17.85
May-28, 2009 5:15:50 PM	29.33	0.81	3804.752	25.0	72.46	16.26
May-28, 2009 5:25:50 PM	29.50	0.81	3787.923	24.9	70.97	14.77
May-28, 2009 5:35:50 PM	29.67	0.82	3917.106	25.7	70.36	14.16
May-28, 2009 5:45:50 PM	29.83	0.83	3946.245	25.9	69.86	13.66
May-28, 2009 5:55:50 PM	30.00	0.83	3979.058	26.1	69.51	13.31
May-28, 2009 6:05:50 PM	30.17	0.84	3903	25.6	69.09	12.89
May-28, 2009 6:15:50 PM	30.33	0.85	3990.799	26.2	68.91	12.71
May-28, 2009 6:25:50 PM	30.50	0.85	4003.998	26.3	68.74	12.54
May-28, 2009 6:35:50 PM	30.67	0.86	4017.068	26.4	68.56	12.36
May-28, 2009 6:45:50 PM	30.83	0.87	3974.207	26.1	68.32	12.12
May-28, 2009 6:55:50 PM	31.00	0.88	4011.833	26.3	68.11	11.91
May-28, 2009 7:05:50 PM	31.17	0.88	4023.715	26.4	68.09	11.89
May-28, 2009 7:15:50 PM	31.33	0.89	4030.273	26.4	67.93	11.73
May-28, 2009 7:25:50 PM	31.50	0.90	4028.624	26.4	67.81	11.61
May-28, 2009 7:35:50 PM	31.67	0.90	4039.487	26.5	67.79	11.59
May-28, 2009 7:45:50 PM	31.83	0.91	4013.037	26.3	67.66	11.46
May-28, 2009 7:55:50 PM	32.00	0.92	4016.473	26.4	67.56	11.36
May-28, 2009 8:05:50 PM	32.17	0.92	4019.402	26.4	67.56	11.36
May-28, 2009 8:15:50 PM	32.33	0.93	4035.694	26.5	67.38	11.18
May-28, 2009 8:25:50 PM	32.50	0.94	4041.736	26.5	67.50	11.30
May-28, 2009 8:35:50 PM	32.67	0.94	4033.453	26.5	67.32	11.12
May-28, 2009 8:45:50 PM	32.83	0.95	4033.268	26.5	67.21	11.01
May-28, 2009 8:55:50 PM	33.00	0.96	4035.169	26.5	67.19	10.99
May-28, 2009 9:05:50 PM	33.17	0.97	4022.672	26.4	67.21	11.01

May-28, 2009 9:15:50 PM	33.33	0.97	3984.94	26.1	67.22	11.02
May-28, 2009 9:25:50 PM	33.50	0.98	4042.941	26.5	67.15	10.95
May-28, 2009 9:35:50 PM	33.67	0.99	4031.359	26.5	67.03	10.83
May-28, 2009 9:45:50 PM	33.83	0.99	4043.005	26.5	67.03	10.83
May-28, 2009 9:55:50 PM	34.00	1.00	4026.201	26.4	66.89	10.69
May-28, 2009 10:05:50 PM	34.17	1.01	4031.549	26.5	67.01	10.81
May-28, 2009 10:15:50 PM	34.33	1.01	3977.663	26.1	66.81	10.61
May-28, 2009 10:25:50 PM	34.50	1.02	4029.799	26.4	66.91	10.71
May-28, 2009 10:35:50 PM	34.67	1.03	3972.342	26.1	66.79	10.59
May-28, 2009 10:45:50 PM	34.83	1.03	4043.005	26.5	66.85	10.65
May-28, 2009 10:55:50 PM	35.00	1.04	3993.34	26.2	66.77	10.57
May-28, 2009 11:05:50 PM	35.17	1.05	4031.03	26.5	66.72	10.52
May-28, 2009 11:15:50 PM	35.33	1.06	3995.586	26.2	66.71	10.51
May-28, 2009 11:25:50 PM	35.50	1.06	4026.279	26.4	66.73	10.53
May-28, 2009 11:35:50 PM	35.67	1.07	4031.03	26.5	66.71	10.51
May-28, 2009 11:45:50 PM	35.83	1.08	4000.922	26.3	66.66	10.46
May-28, 2009 11:55:50 PM	36.00	1.08	4007.444	26.3	66.66	10.46
May-29, 2009 12:05:50 AM	36.17	1.09	4028.59	26.4	66.77	10.57
May-29, 2009 12:15:50 AM	36.33	1.10	4030.355	26.4	66.75	10.55
May-29, 2009 12:25:50 AM	36.50	1.10	3998.659	26.2	66.73	10.53
May-29, 2009 12:35:50 AM	36.67	1.11	4046.74	26.6	66.67	10.47
May-29, 2009 12:45:50 AM	36.83	1.12	4023.178	26.4	66.67	10.47
May-29, 2009 12:55:50 AM	37.00	1.13	4027.404	26.4	66.54	10.34
May-29, 2009 1:05:50 AM	37.17	1.13	4035.169	26.5	66.65	10.45
May-29, 2009 1:15:50 AM	37.33	1.14	3969.424	26.0	66.50	10.30
May-29, 2009 1:25:50 AM	37.50	1.15	4026.649	26.4	66.54	10.34
May-29, 2009 1:35:50 AM	37.67	1.15	4036.718	26.5	66.52	10.32
May-29, 2009 1:45:50 AM	37.83	1.16	4015.432	26.3	66.56	10.36
May-29, 2009 1:55:50 AM	38.00	1.17	4021.823	26.4	66.44	10.24
May-29, 2009 2:05:50 AM	38.17	1.17	4011.057	26.3	66.50	10.30
May-29, 2009 2:15:50 AM	38.33	1.18	4039.131	26.5	66.20	10.00
May-29, 2009 2:25:50 AM	38.50	1.19	4048.819	26.6	66.56	10.36
May-29, 2009 2:35:50 AM	38.67	1.19	4028.021	26.4	66.52	10.32
May-29, 2009 2:45:50 AM	38.83	1.20	4009.858	26.3	66.46	10.26
May-29, 2009 2:55:50 AM	39.00	1.21	4032.826	26.5	66.44	10.24
May-29, 2009 3:05:50 AM	39.17	1.22	4026.205	26.4	66.50	10.30
May-29, 2009 3:15:50 AM	39.33	1.22	4022.663	26.4	66.40	10.20
May-29, 2009 3:25:50 AM	39.50	1.23	4041.04	26.5	66.42	10.22
May-29, 2009 3:35:50 AM	39.67	1.24	4025.627	26.4	66.46	10.26
May-29, 2009 3:45:50 AM	39.83	1.24	4043.548	26.5	66.48	10.28
May-29, 2009 3:55:50 AM	40.00	1.25	4003.998	26.3	66.44	10.24
May-29, 2009 4:05:50 AM	40.17	1.26	4039.326	26.5	66.38	10.18
May-29, 2009 4:15:50 AM	40.33	1.26	4026.201	26.4	66.40	10.20
May-29, 2009 4:25:50 AM	40.50	1.27	4034.489	26.5	66.28	10.08
May-29, 2009 4:35:50 AM	40.67	1.28	4014.232	26.3	66.32	10.12
May-29, 2009 4:45:50 AM	40.83	1.28	4027.404	26.4	66.28	10.08
May-29, 2009 4:55:50 AM	41.00	1.29	4048.374	26.6	66.44	10.24

May-29, 2009 5:05:50 AM	41.17	1.30	4026.759	26.4	66.40	10.20
May-29, 2009 5:15:50 AM	41.33	1.31	4047.612	26.6	66.42	10.22
May-29, 2009 5:25:50 AM	41.50	1.31	4043.468	26.5	66.32	10.12
May-29, 2009 5:35:50 AM	41.67	1.32	4022.126	26.4	66.52	10.32
May-29, 2009 5:45:50 AM	41.83	1.33	4036.899	26.5	66.26	10.06
May-29, 2009 5:55:50 AM	42.00	1.33	4020.094	26.4	66.21	10.01
May-29, 2009 6:05:50 AM	42.17	1.34	4037.594	26.5	66.40	10.20
May-29, 2009 6:15:50 AM	42.33	1.35	4018.94	26.4	66.36	10.16
May-29, 2009 6:25:50 AM	42.50	1.35	4034.657	26.5	66.38	10.18
May-29, 2009 6:35:50 AM	42.67	1.36	4023.247	26.4	66.40	10.20
May-29, 2009 6:45:50 AM	42.83	1.37	4040.002	26.5	66.38	10.18
May-29, 2009 6:55:50 AM	43.00	1.38	4013.471	26.3	66.38	10.18
May-29, 2009 7:05:50 AM	43.17	1.38	3998.138	26.2	66.32	10.12
May-29, 2009 7:15:50 AM	43.33	1.39	4021.296	26.4	66.34	10.14
May-29, 2009 7:25:50 AM	43.50	1.40	4033.965	26.5	66.23	10.03
May-29, 2009 7:35:50 AM	43.67	1.40	4034.657	26.5	66.34	10.14
May-29, 2009 7:45:50 AM	43.83	1.41	4031.475	26.5	66.40	10.20
May-29, 2009 7:55:50 AM	44.00	1.42	4040.531	26.5	66.38	10.18
May-29, 2009 8:05:50 AM	44.17	1.42	3990.17	26.2	66.24	10.04
May-29, 2009 8:15:50 AM	44.33	1.43	4032.283	26.5	66.30	10.10
May-29, 2009 8:25:50 AM	44.50	1.44	4025.447	26.4	66.34	10.14
May-29, 2009 8:35:50 AM	44.67	1.44	4045.88	26.5	66.40	10.20
May-29, 2009 8:45:50 AM	44.83	1.45	4014.232	26.3	66.25	10.05
May-29, 2009 8:55:50 AM	45.00	1.46	4021.296	26.4	66.40	10.20
May-29, 2009 9:05:50 AM	45.17	1.47	4015.963	26.4	66.21	10.01
May-29, 2009 9:15:50 AM	45.33	1.47	3971.824	26.1	66.28	10.08
May-29, 2009 9:25:50 AM	45.50	1.48	4015.439	26.3	66.48	10.28
May-29, 2009 9:35:50 AM	45.67	1.49	4026.839	26.4	66.42	10.22
May-29, 2009 9:45:50 AM	45.83	1.49	4012.256	26.3	66.36	10.16
May-29, 2009 9:55:50 AM	46.00	1.50	7906.946	51.9	68.03	11.83

λ	2.90 W/(mK)	1.68 BTU/hr-ft-F	Well ID	GTW-1
α	0.107 m ² /day	1.150 ft ² /day		
r_b	1.00E-05 m	0.0 in		
T_o	13.4 °C	56.2 °F		
Rb	0.211 mK/W	0.36588715 hr-ft-F/BTU		
dtau	0.007 days			
pc	2.35E+06 J/m ³ -K	35.00 BTU/ft ³ -F		

t-tau(d)	q(t-tau)	Calc ΔT	Obs ΔT	tau	RB	RS	Diff
1.50	51.9	17.03	11.83	0.0069	4.562E-01	4.562E-01	26.98949
1.49	26.3	10.77	10.155	0.0139	1.902E-02	4.752E-01	0.376855
1.49	26.3	10.77	10.28	0.0208	1.112E-02	4.863E-01	0.242001
1.48	26.1	10.71	10.075	0.0278	7.892E-03	4.942E-01	0.400371
1.47	26.4	10.78	10.01	0.0347	6.122E-03	5.004E-01	0.591977
1.47	26.4	10.79	10.195	0.0417	5.002E-03	5.054E-01	0.351863
1.46	26.3	10.78	10.05	0.0486	4.229E-03	5.096E-01	0.531748
1.45	26.5	10.83	10.195	0.0556	3.663E-03	5.132E-01	0.400083
1.44	26.4	10.79	10.135	0.0625	3.231E-03	5.165E-01	0.43548
1.44	26.4	10.80	10.135	0.0694	2.891E-03	5.194E-01	0.43632
1.43	26.5	10.81	10.095	0.0764	2.615E-03	5.220E-01	0.506287
1.42	26.5	10.82	10.175	0.0833	2.387E-03	5.244E-01	0.413814
1.42	26.5	10.80	10.195	0.0903	2.196E-03	5.266E-01	0.370109
1.41	26.5	10.81	10.135	0.0972	2.033E-03	5.286E-01	0.452065
1.40	26.5	10.80	10.03	0.1042	1.893E-03	5.305E-01	0.599669
1.40	26.4	10.78	10.135	0.1111	1.771E-03	5.323E-01	0.419988
1.39	26.2	10.75	10.115	0.1181	1.663E-03	5.339E-01	0.401783
1.38	26.3	10.78	10.175	0.1250	1.568E-03	5.355E-01	0.360085
1.38	26.3	10.78	10.175	0.1319	1.483E-03	5.370E-01	0.363455
1.37	26.5	10.82	10.175	0.1389	1.407E-03	5.384E-01	0.415476
1.36	26.5	10.81	10.175	0.1458	1.339E-03	5.397E-01	0.40357
1.35	26.4	10.79	10.155	0.1528	1.276E-03	5.410E-01	0.39953
1.35	26.5	10.82	10.195	0.1597	1.220E-03	5.422E-01	0.385924
1.34	26.4	10.79	10.01	0.1667	1.168E-03	5.434E-01	0.608872
1.33	26.5	10.82	10.055	0.1736	1.120E-03	5.445E-01	0.580754
1.33	26.4	10.80	10.32	0.1806	1.076E-03	5.456E-01	0.226634
1.32	26.5	10.83	10.115	0.1875	1.035E-03	5.466E-01	0.511774
1.31	26.5	10.83	10.115	0.1944	9.977E-04	5.476E-01	0.511865
1.31	26.6	10.84	10.22	0.2014	9.627E-04	5.486E-01	0.379776
1.30	26.6	10.84	10.24	0.2083	9.301E-04	5.495E-01	0.354522
1.29	26.4	10.80	10.075	0.2153	8.996E-04	5.504E-01	0.52853
1.28	26.3	10.78	10.115	0.2222	8.710E-04	5.513E-01	0.447156
1.28	26.5	10.82	10.075	0.2292	8.442E-04	5.521E-01	0.54941
1.27	26.4	10.80	10.2	0.2361	8.190E-04	5.529E-01	0.365009
1.26	26.5	10.82	10.18	0.2431	7.953E-04	5.537E-01	0.414054
1.26	26.3	10.77	10.24	0.2500	7.729E-04	5.545E-01	0.281051
1.25	26.3	10.78	10.24	0.2569	7.517E-04	5.553E-01	0.286718
1.24	26.5	10.84	10.28	0.2639	7.316E-04	5.560E-01	0.312474
1.24	26.5	10.83	10.22	0.2708	7.126E-04	5.567E-01	0.377637

1.23	26.4	10.81	10.2	0.2778	6.946E-04	5.574E-01	0.368665
1.22	26.4	10.81	10.3	0.2847	6.774E-04	5.581E-01	0.265047
1.22	26.5	10.83	10.24	0.2917	6.611E-04	5.587E-01	0.343419
1.21	26.3	10.79	10.26	0.2986	6.455E-04	5.594E-01	0.285023
1.20	26.4	10.83	10.32	0.3056	6.307E-04	5.600E-01	0.256511
1.19	26.6	10.86	10.36	0.3125	6.165E-04	5.606E-01	0.250396
1.19	26.6	10.86	10.36	0.3194	6.030E-04	5.612E-01	0.250146
1.18	26.5	10.84	10	0.3264	5.900E-04	5.618E-01	0.71357
1.17	26.4	10.82	10.24	0.3333	5.776E-04	5.624E-01	0.335515
1.17	26.3	10.81	10.36	0.3403	5.657E-04	5.630E-01	0.20508
1.16	26.5	10.85	10.32	0.3472	5.543E-04	5.635E-01	0.278112
1.15	26.4	10.83	10.34	0.3542	5.433E-04	5.641E-01	0.241285
1.15	26.0	10.75	10.3	0.3611	5.327E-04	5.646E-01	0.202301
1.14	26.5	10.86	10.445	0.3681	5.226E-04	5.651E-01	0.170008
1.13	26.4	10.85	10.34	0.3750	5.128E-04	5.656E-01	0.257791
1.13	26.4	10.85	10.34	0.3819	5.034E-04	5.661E-01	0.26045
1.12	26.4	10.85	10.465	0.3889	4.943E-04	5.666E-01	0.145283
1.11	26.2	10.81	10.525	0.3958	4.856E-04	5.671E-01	0.083557
1.10	26.4	10.87	10.545	0.4028	4.771E-04	5.676E-01	0.104368
1.10	26.4	10.87	10.565	0.4097	4.690E-04	5.681E-01	0.091677
1.09	26.3	10.84	10.46	0.4167	4.611E-04	5.685E-01	0.143954
1.08	26.3	10.84	10.46	0.4236	4.535E-04	5.690E-01	0.142067
1.08	26.5	10.89	10.505	0.4306	4.461E-04	5.694E-01	0.147675
1.07	26.4	10.89	10.525	0.4375	4.390E-04	5.699E-01	0.130358
1.06	26.4	10.89	10.525	0.4444	4.320E-04	5.703E-01	0.1328
1.06	26.2	10.85	10.505	0.4514	4.254E-04	5.707E-01	0.117717
1.05	26.2	10.85	10.565	0.4583	4.189E-04	5.711E-01	0.083937
1.04	26.5	10.94	10.645	0.4653	4.126E-04	5.716E-01	0.084808
1.03	26.1	10.84	10.585	0.4722	4.064E-04	5.720E-01	0.063061
1.03	26.4	10.93	10.71	0.4792	4.005E-04	5.724E-01	0.049935
1.02	26.1	10.86	10.61	0.4861	3.947E-04	5.728E-01	0.064736
1.01	26.5	10.96	10.81	0.4931	3.891E-04	5.731E-01	0.022273
1.01	26.4	10.96	10.69	0.5000	3.837E-04	5.735E-01	0.07303
1.00	26.4	10.97	10.69	0.5069	3.784E-04	5.739E-01	0.078906
0.99	26.5	11.01	10.83	0.5139	3.733E-04	5.743E-01	0.031092
0.99	26.5	11.01	10.95	0.5208	3.683E-04	5.746E-01	0.003998
0.98	26.1	10.94	11.015	0.5278	3.634E-04	5.750E-01	0.006054
0.97	26.4	11.01	11.01	0.5347	3.586E-04	5.754E-01	2.46E-06
0.97	26.5	11.04	10.99	0.5417	3.540E-04	5.757E-01	0.00298
0.96	26.5	11.06	11.01	0.5486	3.495E-04	5.761E-01	0.002086
0.95	26.5	11.07	11.115	0.5556	3.451E-04	5.764E-01	0.001909
0.94	26.5	11.10	11.295	0.5625	3.408E-04	5.768E-01	0.038153
0.94	26.5	11.12	11.295	0.5694	3.366E-04	5.771E-01	0.032307
0.93	26.5	11.12	11.175	0.5764	3.325E-04	5.774E-01	0.002776
0.92	26.4	11.11	11.355	0.5833	3.286E-04	5.778E-01	0.058936
0.92	26.3	11.13	11.455	0.5903	3.247E-04	5.781E-01	0.105233
0.91	26.5	11.19	11.59	0.5972	3.209E-04	5.784E-01	0.156193
0.90	26.4	11.20	11.61	0.6042	3.172E-04	5.787E-01	0.166287
0.90	26.4	11.23	11.725	0.6111	3.135E-04	5.790E-01	0.243841
0.89	26.4	11.25	11.89	0.6181	3.100E-04	5.793E-01	0.409999

0.88	26.3	11.26	11.91	0.6250	3.065E-04	5.797E-01	0.417639
0.88	26.3	11.30	11.91	0.6319	3.031E-04	5.800E-01	0.373192
0.87	26.1	11.28	12.115	0.6389	2.998E-04	5.803E-01	0.690235
0.86	26.3	11.38	12.54	0.6458	2.966E-04	5.805E-01	1.350682
0.85	26.2	11.41	12.705	0.6528	2.934E-04	5.808E-01	1.682441
0.85	25.6	11.34	12.885	0.6597	2.903E-04	5.811E-01	2.382693
0.84	26.1	11.54	13.305	0.6667	2.873E-04	5.814E-01	3.121003
0.83	25.9	11.58	13.66	0.6736	2.843E-04	5.817E-01	4.33066
0.83	25.7	11.65	14.155	0.6806	2.814E-04	5.820E-01	6.276709
0.82	24.9	11.62	14.765	0.6875	2.785E-04	5.823E-01	9.89703
0.81	24.9	11.88	14.765	0.6944	2.757E-04	5.825E-01	8.35022
0.81	25.0	12.35	16.26	0.7014	2.730E-04	5.828E-01	15.30108
0.80	49.0	18.23	17.75	0.7083	2.703E-04	5.831E-01	0.233639
0.79	50.0	18.43	17.83	0.7153	2.677E-04	5.834E-01	0.36285
0.78	49.5	18.30	17.85	0.7222	2.651E-04	5.836E-01	0.206058
0.78	49.7	18.34	17.725	0.7292	2.625E-04	5.839E-01	0.375673
0.77	49.7	18.31	17.5	0.7361	2.600E-04	5.841E-01	0.654093
0.76	49.5	18.25	17.48	0.7431	2.576E-04	5.844E-01	0.58686
0.76	50.2	18.39	17.545	0.7500	2.552E-04	5.847E-01	0.708724
0.75	50.2	18.36	17.545	0.7569	2.529E-04	5.849E-01	0.659795
0.74	50.1	18.31	17.4	0.7639	2.505E-04	5.852E-01	0.825274
0.74	50.6	18.39	17.27	0.7708	2.483E-04	5.854E-01	1.253343
0.73	50.9	18.41	17.03	0.7778	2.461E-04	5.856E-01	1.901816
0.72	50.6	18.30	16.875	0.7847	2.439E-04	5.859E-01	2.043326
0.72	51.1	18.36	16.855	0.7917	2.417E-04	5.861E-01	2.265369
0.71	50.9	18.27	16.715	0.7986	2.396E-04	5.864E-01	2.412792
0.70	51.3	18.28	16.445	0.8056	2.375E-04	5.866E-01	3.361294
0.69	51.4	18.19	16.08	0.8125	2.355E-04	5.868E-01	4.466048
0.69	51.4	18.07	16.08	0.8194	2.335E-04	5.871E-01	3.971949
0.68	51.7	17.99	15.525	0.8264	2.315E-04	5.873E-01	6.089727
0.67	51.8	17.76	13.75	0.8333	2.296E-04	5.875E-01	16.07815
0.67	51.9	17.33	13.485	0.8403	2.277E-04	5.878E-01	14.81302
0.66	26.5	11.17	12.115	0.8472	2.258E-04	5.880E-01	0.897294
0.65	26.6	11.22	12.4	0.8542	2.240E-04	5.882E-01	1.384809
0.65	26.4	11.23	12.38	0.8611	2.221E-04	5.884E-01	1.326804
0.64	26.4	11.28	12.625	0.8681	2.204E-04	5.887E-01	1.82116
0.63	25.9	11.24	12.765	0.8750	2.186E-04	5.889E-01	2.311253
0.63	25.9	11.33	12.765	0.8819	2.169E-04	5.891E-01	2.048017
0.62	26.3	11.53	13.125	0.8889	2.152E-04	5.893E-01	2.545948
0.61	26.2	11.62	13.91	0.8958	2.135E-04	5.895E-01	5.226704
0.60	26.1	11.75	14.4	0.9028	2.119E-04	5.897E-01	7.028307
0.60	25.6	11.90	15.205	0.9097	2.102E-04	5.899E-01	10.92479
0.59	25.2	12.24	16.4	0.9167	2.086E-04	5.902E-01	17.26503
0.58	50.2	18.33	18.215	0.9236	2.071E-04	5.904E-01	0.014246
0.58	49.6	18.17	18.055	0.9306	2.055E-04	5.906E-01	0.01388
0.57	49.6	18.15	18.095	0.9375	2.040E-04	5.908E-01	0.003077
0.56	49.6	18.14	18.095	0.9444	2.025E-04	5.910E-01	0.001874
0.56	50.0	18.22	18.115	0.9514	2.010E-04	5.912E-01	0.011764
0.55	49.0	17.97	18.055	0.9583	1.995E-04	5.914E-01	0.006418
0.54	50.1	18.23	18.215	0.9653	1.981E-04	5.916E-01	0.000376

0.53	50.2	18.23	17.93	0.9722	1.967E-04	5.918E-01	0.089159
0.53	49.4	18.02	17.83	0.9792	1.953E-04	5.920E-01	0.034337
0.52	49.7	18.08	17.995	0.9861	1.939E-04	5.922E-01	0.007666
0.51	50.3	18.19	18.055	0.9931	1.925E-04	5.924E-01	0.017155
0.51	49.1	17.89	17.95	1.0000	1.912E-04	5.925E-01	0.003867
0.50	49.1	17.88	17.95	1.0069	1.899E-04	5.927E-01	0.004668
0.49	49.4	17.94	17.83	1.0139	1.886E-04	5.929E-01	0.013193
0.49	50.6	18.20	17.81	1.0208	1.873E-04	5.931E-01	0.148825
0.48	49.0	17.82	17.85	1.0278	1.860E-04	5.933E-01	0.001102
0.47	50.4	18.12	17.975	1.0347	1.847E-04	5.935E-01	0.021657
0.47	49.5	17.88	17.83	1.0417	1.835E-04	5.937E-01	0.002987
0.46	49.5	17.90	17.685	1.0486	1.823E-04	5.938E-01	0.045671
0.45	50.7	18.16	17.91	1.0556	1.811E-04	5.940E-01	0.061297
0.44	50.4	18.05	17.89	1.0625	1.799E-04	5.942E-01	0.025832
0.44	50.4	18.03	17.89	1.0694	1.787E-04	5.944E-01	0.019343
0.43	50.4	18.02	17.77	1.0764	1.776E-04	5.946E-01	0.061702
0.42	50.4	17.99	17.975	1.0833	1.764E-04	5.947E-01	0.000229
0.42	50.3	17.95	17.81	1.0903	1.753E-04	5.949E-01	0.018635
0.41	50.4	17.95	17.75	1.0972	1.742E-04	5.951E-01	0.04075
0.40	50.5	17.94	17.81	1.1042	1.731E-04	5.953E-01	0.017439
0.40	50.4	17.89	17.81	1.1111	1.720E-04	5.954E-01	0.00677
0.39	50.7	17.94	17.645	1.1181	1.709E-04	5.956E-01	0.087678
0.38	50.6	17.88	17.73	1.1250	1.699E-04	5.958E-01	0.023739
0.38	50.6	17.85	17.73	1.1319	1.688E-04	5.959E-01	0.015467
0.37	50.2	17.74	17.565	1.1389	1.678E-04	5.961E-01	0.030496
0.36	50.6	17.82	17.71	1.1458	1.668E-04	5.963E-01	0.012962
0.35	50.9	17.85	17.52	1.1528	1.658E-04	5.964E-01	0.107597
0.35	50.4	17.70	17.69	1.1597	1.648E-04	5.966E-01	0.000148
0.34	50.9	17.78	17.645	1.1667	1.638E-04	5.968E-01	0.017493
0.33	49.6	17.45	17.415	1.1736	1.628E-04	5.969E-01	0.001177
0.33	51.0	17.77	17.54	1.1806	1.619E-04	5.971E-01	0.051078
0.32	50.7	17.66	17.5	1.1875	1.609E-04	5.973E-01	0.026129
0.31	50.7	17.63	17.5	1.1944	1.600E-04	5.974E-01	0.01607
0.31	50.7	17.58	17.44	1.2014	1.590E-04	5.976E-01	0.020149
0.30	50.8	17.57	17.355	1.2083	1.581E-04	5.977E-01	0.047129
0.29	51.1	17.59	17.275	1.2153	1.572E-04	5.979E-01	0.101663
0.28	50.3	17.37	17.335	1.2222	1.563E-04	5.980E-01	0.001566
0.28	50.2	17.31	17.135	1.2292	1.554E-04	5.982E-01	0.029115
0.27	49.4	17.08	17.05	1.2361	1.546E-04	5.984E-01	0.001126
0.26	51.0	17.45	17.25	1.2431	1.537E-04	5.985E-01	0.038187
0.26	50.9	17.36	17.17	1.2500	1.528E-04	5.987E-01	0.034347
0.25	50.9	17.30	17.17	1.2569	1.520E-04	5.988E-01	0.01701
0.24	50.2	17.08	16.95	1.2639	1.512E-04	5.990E-01	0.017967
0.24	50.6	17.13	16.975	1.2708	1.503E-04	5.991E-01	0.024465
0.23	49.6	16.86	16.75	1.2778	1.495E-04	5.993E-01	0.012994
0.22	51.0	17.13	16.81	1.2847	1.487E-04	5.994E-01	0.105348
0.22	49.6	16.77	16.69	1.2917	1.479E-04	5.996E-01	0.006617
0.21	51.1	17.07	16.65	1.2986	1.471E-04	5.997E-01	0.172935
0.20	50.9	16.96	16.53	1.3056	1.463E-04	5.999E-01	0.182986
0.19	50.4	16.77	16.37	1.3125	1.455E-04	6.000E-01	0.162012

0.19	50.4	16.71	16.37	1.3194	1.448E-04	6.001E-01	0.116331
0.18	50.5	16.66	16.325	1.3264	1.440E-04	6.003E-01	0.11388
0.17	51.4	16.82	16.08	1.3333	1.433E-04	6.004E-01	0.542729
0.17	51.7	16.79	16.02	1.3403	1.425E-04	6.006E-01	0.594362
0.16	51.4	16.62	15.71	1.3472	1.418E-04	6.007E-01	0.820116
0.15	51.6	16.54	15.65	1.3542	1.411E-04	6.009E-01	0.790017
0.15	52.0	16.47	15.26	1.3611	1.403E-04	6.010E-01	1.468274
0.14	51.4	16.17	14.905	1.3681	1.396E-04	6.011E-01	1.611058
0.13	51.2	15.91	14.34	1.3750	1.389E-04	6.013E-01	2.458459
0.13	51.2	15.62	14.34	1.3819	1.382E-04	6.014E-01	1.648506
0.12	51.9	15.29	13.59	1.3889	1.375E-04	6.016E-01	2.901054
0.11	26.2	9.00	11.03	1.3958	1.368E-04	6.017E-01	4.135295
0.10	26.2	8.99	11.13	1.4028	1.362E-04	6.018E-01	4.576143
0.10	26.5	9.07	11.415	1.4097	1.355E-04	6.020E-01	5.499504
0.09	26.3	9.02	11.51	1.4167	1.348E-04	6.021E-01	6.198728
0.08	26.5	9.07	11.805	1.4236	1.342E-04	6.022E-01	7.506327
0.08	26.5	9.06	12.015	1.4306	1.335E-04	6.024E-01	8.732244
0.07	26.6	9.09	12.255	1.4375	1.329E-04	6.025E-01	10.03561
0.06	26.6	9.11	12.255	1.4444	1.322E-04	6.026E-01	9.889745
0.06	26.3	9.10	12.665	1.4514	1.316E-04	6.028E-01	12.69028
0.05	26.4	9.20	13.87	1.4583	1.310E-04	6.029E-01	21.85232
0.04	26.2	9.31	14.685	1.4653	1.303E-04	6.030E-01	28.92992
0.03	26.2	9.66	15.44	1.4722	1.297E-04	6.032E-01	33.43945
0.03	51.5	15.69	17.01	1.4792	1.291E-04	6.033E-01	1.7357
0.02	50.6	15.31	17.07	1.4861	1.285E-04	6.034E-01	3.090863
0.01	51.2	15.28	16.93	1.4931	1.279E-04	6.035E-01	2.735185
0.01	51.4	15.11	16.95	1.5000	1.273E-04	6.037E-01	3.397377
0.00	51.4	14.85	16.95	1.5069	1.267E-04	6.038E-01	4.410627
-0.01	51.4	14.54	#N/A	1.5139	1.261E-04	6.039E-01	
-0.01	51.4	14.13	#N/A	1.5208	1.256E-04	6.040E-01	
-0.02	51.4	13.56	#N/A	1.5278	1.250E-04	6.042E-01	
-0.03	51.4	12.58	#N/A	1.5347	1.244E-04	6.043E-01	

404.8926

Appendix C

Time (days)	Time (hours)	Observed Data	Department of Energy GPM Model	Convolution of Line Source
0.00	10.00	16.95	16.905	14.85
0.01	10.17	16.93	16.918	15.11
0.01	10.33	17.07	16.974	15.28
0.02	10.50	17.01	16.978	15.31
0.03	10.67	15.44	17.004	15.69
0.03	10.83	14.685	17.07	9.66
0.04	11.00	13.87	13.772	9.31
0.05	11.17	13.265	12.725	9.20
0.06	11.33	12.665	12.005	9.10
0.06	11.50	12.255	11.521	9.11
0.07	11.67	12.015	11.168	9.09
0.08	11.83	11.805	10.897	9.06
0.08	12.00	11.51	10.697	9.07
0.09	12.17	11.415	10.549	9.02
0.10	12.33	11.13	10.395	9.07
0.10	12.50	11.03	10.274	8.99
0.11	12.67	12.71	10.182	9.00
0.12	12.83	13.59	10.1	15.29
0.13	13.00	14.34	13.202	15.62
0.13	13.17	14.905	14.408	15.91
0.14	13.33	15.26	15.104	16.17
0.15	13.50	15.65	15.565	16.47
0.15	13.67	15.71	15.884	16.54
0.16	13.83	16.02	16.152	16.62
0.17	14.00	16.08	16.356	16.79
0.17	14.17	16.385	16.51	16.82
0.18	14.33	16.325	16.613	16.66
0.19	14.50	16.37	16.767	16.71
0.19	14.67	16.53	16.833	16.77
0.20	14.83	16.65	16.913	16.96
0.21	15.00	16.69	16.955	17.07
0.22	15.17	16.81	17.023	16.77
0.22	15.33	16.75	17.05	17.13
0.23	15.50	16.975	17.116	16.86
0.24	15.67	17.07	17.146	17.13
0.24	15.83	16.95	17.197	17.08
0.25	16.00	17.17	17.286	17.30
0.26	16.17	17.25	17.255	17.36
0.26	16.33	17.05	17.32	17.45
0.27	16.50	17.135	17.368	17.08
0.28	16.67	17.335	17.304	17.31
0.28	16.83	17.275	17.382	17.37
0.29	17.00	17.355	17.451	17.59
0.30	17.17	17.275	17.473	17.57
0.31	17.33	17.44	17.534	17.58
0.31	17.50	17.5	17.554	17.63
0.32	17.67	17.54	17.557	17.66
0.33	17.83	17.415	17.598	17.77
0.33	18.00	17.645	17.66	17.45
0.34	18.17	17.69	17.68	17.78
0.35	18.33	17.52	17.666	17.70
0.35	18.50	17.71	17.717	17.85
0.36	18.67	17.62	17.698	17.82
0.37	18.83	17.565	17.751	17.74
0.38	19.00	17.73	17.814	17.85
0.38	19.17	17.645	17.832	17.88
0.39	19.33	17.81	17.871	17.94

0.40	19.50	17.81	17.887	17.89
0.40	19.67	17.75	17.915	17.94
0.41	19.83	17.81	17.923	17.95
0.42	20.00	17.975	17.938	17.95
0.42	20.17	17.725	17.977	17.99
0.43	20.33	17.77	18.003	18.02
0.44	20.50	17.89	17.985	18.03
0.44	20.67	17.91	18.05	18.05
0.45	20.83	17.685	18.035	18.16
0.46	21.00	17.83	18.047	17.90
0.47	21.17	17.975	18.06	17.88
0.47	21.33	17.85	18.102	18.12
0.48	21.50	17.81	18.129	17.82
0.49	21.67	17.89	18.174	18.20
0.49	21.83	17.83	18.189	17.94
0.50	22.00	17.95	18.205	17.88
0.51	22.17	18.055	18.246	17.89
0.51	22.33	17.995	18.202	18.19
0.52	22.50	17.83	18.222	18.08
0.53	22.67	17.93	18.255	18.02
0.53	22.83	18.215	18.25	18.23
0.54	23.00	18.055	18.285	18.23
0.55	23.17	18.055	18.286	17.97
0.56	23.33	18.115	18.258	18.22
0.56	23.50	18.095	18.294	18.14
0.57	23.67	18.055	18.305	18.15
0.58	23.83	18.215	18.328	18.17
0.58	24.00	16.4	18.324	18.33
0.59	24.17	15.205	18.348	12.24
0.60	24.33	14.4	18.379	11.90
0.60	24.50	13.91	15.286	11.75
0.61	24.67	13.44	14.192	11.62
0.62	24.83	13.125	13.489	11.53
0.63	25.00	12.765	13.012	11.33
0.63	25.17	12.625	12.671	11.24
0.64	25.33	12.38	12.415	11.28
0.65	25.50	12.4	12.187	11.23
0.65	25.67	12.115	12.06	11.22
0.66	25.83	13.485	11.913	11.17
0.67	26.00	13.75	11.783	17.33
0.67	26.17	14.905	11.687	17.76
0.68	26.33	15.525	11.603	17.99
0.69	26.50	16.08	14.852	18.07
0.69	26.67	16.445	15.902	18.19
0.70	26.83	16.715	16.553	18.28
0.71	27.00	16.855	16.997	18.27
0.72	27.17	16.875	17.289	18.36
0.72	27.33	17.03	17.549	18.30
0.73	27.50	17.27	17.715	18.41
0.74	27.67	17.23	17.857	18.39
0.74	27.83	17.4	17.904	18.31
0.75	28.00	17.545	18.032	18.36
0.76	28.17	17.48	18.04	18.39
0.76	28.33	17.5	18.071	18.25
0.77	28.50	17.725	18.104	18.31
0.78	28.67	17.85	18.134	18.34
0.78	28.83	17.83	18.152	18.30
0.79	29.00	17.75	18.158	18.43

0.80	29.17	17.85	18.195	18.23
0.81	29.33	16.26	18.239	12.35
0.81	29.50	14.765	18.24	11.88
0.82	29.67	14.155	18.249	11.62
0.83	29.83	13.66	16.792	11.65
0.83	30.00	13.305	14.694	11.58
0.84	30.17	12.885	13.763	11.54
0.85	30.33	12.705	13.221	11.34
0.85	30.50	12.54	12.809	11.41
0.86	30.67	12.36	12.569	11.38
0.87	30.83	12.115	12.352	11.28
0.88	31.00	11.91	12.156	11.30
0.88	31.17	11.89	12.02	11.26
0.89	31.33	11.725	11.899	11.25
0.90	31.50	11.61	11.793	11.23
0.90	31.67	11.59	11.705	11.20
0.91	31.83	11.455	11.63	11.19
0.92	32.00	11.355	11.562	11.13
0.92	32.17	11.355	11.504	11.11
0.93	32.33	11.175	11.452	11.12
0.94	32.50	11.295	11.397	11.12
0.94	32.67	11.115	11.347	11.10
0.95	32.83	11.01	11.302	11.07
0.96	33.00	10.99	11.257	11.06
0.97	33.17	11.01	11.234	11.04
0.97	33.33	11.015	11.199	11.01
0.98	33.50	10.95	11.151	10.94
0.99	33.67	10.83	11.121	11.01
0.99	33.83	10.83	11.087	11.01
1.00	34.00	10.69	11.063	10.97
1.01	34.17	10.81	11.023	10.96
1.01	34.33	10.61	10.999	10.96
1.02	34.50	10.71	10.968	10.86
1.03	34.67	10.585	10.947	10.93
1.03	34.83	10.645	10.94	10.84
1.04	35.00	10.565	10.912	10.94
1.05	35.17	10.52	10.878	10.85
1.06	35.33	10.505	10.876	10.85
1.06	35.50	10.525	10.859	10.89
1.07	35.67	10.505	10.849	10.89
1.08	35.83	10.46	10.83	10.89
1.08	36.00	10.46	10.816	10.84
1.09	36.17	10.565	10.796	10.84
1.10	36.33	10.545	10.781	10.87
1.10	36.50	10.525	10.769	10.87
1.11	36.67	10.465	10.765	10.81
1.12	36.83	10.465	10.745	10.85
1.13	37.00	10.34	10.739	10.85
1.13	37.17	10.445	10.722	10.85
1.14	37.33	10.3	10.711	10.86
1.15	37.50	10.34	10.694	10.75
1.15	37.67	10.32	10.684	10.83
1.16	37.83	10.36	10.677	10.85
1.17	38.00	10.24	10.669	10.81
1.17	38.17	10.3	10.66	10.82
1.18	38.33	10	10.654	10.84
1.19	38.50	10.36	10.634	10.86
1.19	38.67	10.32	10.643	10.86

1.20	38.83	10.26	10.621	10.83
1.21	39.00	10.24	10.617	10.79
1.22	39.17	10.3	10.604	10.83
1.22	39.33	10.2	10.602	10.81
1.23	39.50	10.22	10.606	10.81
1.24	39.67	10.26	10.591	10.83
1.24	39.83	10.28	10.575	10.84
1.25	40.00	10.24	10.576	10.78
1.26	40.17	10.18	10.561	10.77
1.26	40.33	10.2	10.564	10.82
1.27	40.50	10.075	10.565	10.80
1.28	40.67	10.115	10.552	10.82
1.28	40.83	10.075	10.553	10.78
1.29	41.00	10.24	10.541	10.80
1.30	41.17	10.2	10.533	10.84
1.31	41.33	10.22	10.536	10.84
1.31	41.50	10.115	10.533	10.83
1.32	41.67	10.32	10.521	10.83
1.33	41.83	10.055	10.526	10.80
1.33	42.00	10.01	10.512	10.82
1.34	42.17	10.195	10.516	10.79
1.35	42.33	10.155	10.507	10.82
1.35	42.50	10.175	10.498	10.79
1.36	42.67	10.195	10.496	10.81
1.37	42.83	10.175	10.494	10.82
1.38	43.00	10.175	10.484	10.78
1.38	43.17	10.115	10.485	10.78
1.39	43.33	10.135	10.484	10.75
1.40	43.50	10.03	10.47	10.78
1.40	43.67	10.135	10.461	10.80
1.41	43.83	10.195	10.464	10.81
1.42	44.00	10.175	10.476	10.80
1.42	44.17	10.035	10.475	10.82
1.43	44.33	10.095	10.457	10.81
1.44	44.50	10.135	10.46	10.80
1.44	44.67	10.195	10.454	10.79
1.45	44.83	10.05	10.465	10.83
1.46	45.00	10.195	10.446	10.78
1.47	45.17	10.01	10.464	10.79
1.47	45.33	10.075	10.459	10.78
1.48	45.50	10.28	10.458	10.71
1.49	45.67	10.215	10.447	10.77
1.49	45.83	10.155	10.447	10.77
1.50	46.00	11.83	10.443	17.03

Appendix D

Red Rose Transit GTW-1

Time (Hours)	Field Measured Temp		Modeled Temp		STRMS	(k*dT/dk)	(k*dT/dk)
	(°F)	DTETC	(°F)				
0.02	59.45	3.048	56.402		3.048	0	-1.44
0.03	59.41	2.018	57.392		2.585	0	-2.02
0.05	59.15	1.022	58.128		2.191-0.497E-08	-2.47	
0.07	59.57	0.836	58.734		1.943-0.141E-06	-2.85	
0.09	59.47	0.228	59.242		1.741-0.155E-05	-3.17	
0.1	59.49	-0.2	59.69		1.591-0.933E-05	-3.46	
0.12	59.63	-0.457	60.087		1.483-0.375E-04	-3.73	
0.14	59.59	-0.853	60.443		1.420-0.114E-03	-3.96	
0.15	59.45	-1.322	60.772		1.409-0.282E-03	-4.19	
0.17	60.67	-0.409	61.079		1.343-0.598E-03	-4.4	
0.19	61.4	0.034	61.366		1.281-0.113E-02	-4.6	
0.2	61.64	0.013	61.627		1.226-0.195E-02	-4.79	
0.22	61.76	-0.122	61.882		1.179-0.312E-02	-4.97	
0.24	61.93	-0.195	62.125		1.137-0.472E-02	-5.15	
0.26	62.31	-0.043	62.353		1.099-0.680E-02	-5.32	
0.27	62.25	-0.318	62.568		1.067-0.942E-02	-5.48	
0.29	62.31	-0.461	62.771		1.041-0.126E-01	-5.64	
0.31	62.49	-0.469	62.959		1.018-0.164E-01	-5.79	
0.32	62.47	-0.665	63.135		1.002-0.209E-01	-5.93	
0.34	62.85	-0.471	63.321		0.982-0.260E-01	-6.08	
0.36	63.16	-0.332	63.492		0.961-0.317E-01	-6.22	
0.37	63.44	-0.219	63.659		0.940-0.381E-01	-6.36	
0.39	63.6	-0.221	63.821		0.921-0.452E-01	-6.5	
0.41	63.72	-0.238	63.958		0.903-0.529E-01	-6.62	
0.43	63.94	-0.172	64.112		0.885-0.612E-01	-6.75	
0.44	63.98	-0.276	64.256		0.870-0.702E-01	-6.87	
0.46	64.08	-0.312	64.392		0.856-0.797E-01	-6.99	
0.48	64.34	-0.19	64.53		0.841-0.899E-01	-7.11	
0.49	64.32	-0.333	64.653		0.829-0.101	-7.23	
0.51	64.43	-0.357	64.787		0.817-0.112	-7.34	
0.53	64.66	-0.252	64.912		0.805-0.124	-7.45	
0.54	64.54	-0.489	65.029		0.797-0.136	-7.56	
0.56	64.75	-0.377	65.127		0.788-0.149	-7.65	
0.58	64.91	-0.324	65.234		0.778-0.162	-7.75	
0.6	65.07	-0.269	65.339		0.768-0.175	-7.85	
0.61	65.2	-0.23	65.43		0.759-0.189	-7.94	
0.63	65.11	-0.423	65.533		0.751-0.204	-8.03	
0.65	65.26	-0.35	65.61		0.744-0.219	-8.11	
0.66	65.32	-0.389	65.709		0.737-0.234	-8.2	
0.68	65.46	-0.349	65.809		0.730-0.249	-8.29	
0.7	65.46	-0.421	65.881		0.724-0.265	-8.36	
0.71	65.68	-0.299	65.979		0.716-0.281	-8.45	
0.73	65.68	-0.389	66.069		0.711-0.297	-8.53	

0.75	65.84	-0.315	66.155	0.704-0.314	-8.61	
0.77	65.88	-0.35	66.23	0.698-0.330	-8.68	
0.78	66.06	-0.254	66.314	0.691-0.347	-8.76	
0.8	66.04	-0.361	66.401	0.686-0.364	-8.83	
0.82	66.24	-0.221	66.461	0.680-0.382	-8.9	
0.83	66.13	-0.378	66.508	0.675-0.399	-8.95	
0.85	66.42	-0.165	66.585	0.668-0.417	-9.02	
0.87	66.29	-0.373	66.663	0.664-0.435	-9.08	
0.88	66.44	-0.299	66.739	0.659-0.453	-9.15	
0.9	66.52	-0.291	66.811	0.654-0.471	-9.21	
0.92	66.73	-0.146	66.876	0.648-0.489	-9.27	
0.94	66.71	-0.233	66.943	0.643-0.507	-9.33	
0.95	66.59	-0.417	67.007	0.640-0.525	-9.39	
0.97	66.85	-0.199	67.049	0.634-0.543	-9.43	
0.99	66.83	-0.276	67.106	0.630-0.562	-9.48	
1	66.93	-0.238	67.168	0.625-0.580	-9.54	
1.02	67.06	-0.165	67.225	0.621-0.599	-9.59	
1.04	66.93	-0.327	67.257	0.617-0.617	-9.62	
1.05	67.1	-0.217	67.317	0.613-0.636	-9.67	
1.07	67.18	-0.203	67.383	0.608-0.654	-9.73	
1.09	67.28	-0.155	67.435	0.604-0.673	-9.77	
1.1	67.3	-0.194	67.494	0.600-0.692	-9.82	
1.12	67.36	-0.185	67.545	0.595-0.710	-9.86	
1.14	67.42	-0.182	67.602	0.591-0.729	-9.91	
1.16	67.58	-0.08	67.66	0.587-0.747	-9.96	
1.17	67.54	-0.171	67.711	0.583-0.766	-10	
1.19	67.58	-0.162	67.742	0.579-0.785	-10	
1.21	67.59	-0.195	67.785	0.576-0.803	-10.1	
1.22	67.55	-0.264	67.814	0.573-0.822	-10.1	
1.24	67.57	-0.281	67.851	0.570-0.840	-10.1	
1.26	67.79	-0.12	67.91	0.566-0.859	-10.2	
1.28	67.79	-0.163	67.953	0.562-0.877	-10.2	
1.29	67.93	-0.04	67.97	0.559-0.895	-10.2	
1.31	67.71	-0.286	67.996	0.556-0.914	-10.2	
1.33	68.1	0.052	68.048	0.552-0.932	-10.3	
1.34	67.94	-0.158	68.098	0.549-0.950	-10.3	
1.36	68.02	-0.124	68.144	0.546-0.968	-10.4	
1.38	68.06	-0.126	68.186	0.543-0.987	-10.4	
1.39	68.04	-0.182	68.222	0.54	-1	-10.4
1.41	68.1	-0.161	68.261	0.537	-1.02	-10.4
1.43	68.14	-0.154	68.294	0.534	-1.04	-10.5
1.45	68.2	-0.124	68.324	0.531	-1.06	-10.5
1.46	68.22	-0.14	68.36	0.528	-1.08	-10.5
1.48	68.26	-0.139	68.399	0.525	-1.09	-10.5
1.5	68.18	-0.236	68.416	0.523	-1.11	-10.6
1.51	68.32	-0.11	68.43	0.52	-1.13	-10.6
1.53	68.34	-0.12	68.46	0.517	-1.15	-10.6

1.55	68.38	-0.13	68.51	0.515	-1.16	-10.6
1.56	68.65	0.091	68.559	0.512	-1.18	-10.7
1.58	68.44	-0.165	68.605	0.509	-1.2	-10.7
1.6	68.42	-0.225	68.645	0.507	-1.22	-10.7
1.62	68.65	-0.029	68.679	0.505	-1.23	-10.7
1.63	68.73	0.019	68.711	0.502	-1.25	-10.8
1.65	68.71	-0.003	68.713	0.499	-1.27	-10.8
1.67	68.69	-0.037	68.727	0.497	-1.28	-10.8
1.68	68.67	-0.103	68.773	0.494	-1.3	-10.8
1.7	68.79	0	68.79	0.492	-1.32	-10.8
1.72	68.85	0.024	68.826	0.489	-1.33	-10.8
1.73	68.87	0.017	68.853	0.487	-1.35	-10.9
1.75	68.91	0.022	68.888	0.485	-1.37	-10.9
1.77	68.91	-0.007	68.917	0.482	-1.38	-10.9
1.79	68.91	-0.013	68.923	0.48	-1.4	-10.9
1.8	69.03	0.071	68.959	0.478	-1.42	-10.9
1.82	69.11	0.104	69.006	0.476	-1.43	-11
1.84	69.09	0.059	69.031	0.474	-1.45	-11
1.85	69.05	-0.008	69.058	0.471	-1.47	-11
1.87	69.11	0.014	69.096	0.469	-1.48	-11
1.89	69.15	0.019	69.131	0.467	-1.5	-11
1.9	69.17	0.014	69.156	0.465	-1.51	-11
1.92	69.25	0.075	69.175	0.463	-1.53	-11.1
1.94	69.25	0.067	69.183	0.461	-1.54	-11.1
1.96	69.37	0.159	69.211	0.459	-1.56	-11.1
1.97	69.31	0.087	69.223	0.457	-1.58	-11.1
1.99	69.39	0.144	69.246	0.456	-1.59	-11.1
2.01	69.39	0.113	69.277	0.454	-1.61	-11.1
2.02	69.29	-0.023	69.313	0.452	-1.62	-11.1
2.04	69.57	0.221	69.349	0.45	-1.64	-11.2
2.06	69.57	0.199	69.371	0.449	-1.65	-11.2
2.07	69.45	0.059	69.391	0.447	-1.67	-11.2
2.09	69.47	0.047	69.423	0.445	-1.68	-11.2
2.11	69.49	0.046	69.444	0.444	-1.7	-11.2
2.13	69.57	0.1	69.47	0.442	-1.71	-11.2
2.14	69.53	0.03	69.5	0.44	-1.73	-11.2
2.16	69.63	0.116	69.514	0.438	-1.74	-11.2
2.18	69.59	0.081	69.509	0.437	-1.75	-11.2
2.19	69.79	0.252	69.538	0.436	-1.77	-11.3
2.21	69.67	0.092	69.578	0.434	-1.78	-11.3
2.23	69.67	0.079	69.591	0.432	-1.8	-11.3
2.24	69.73	0.12	69.61	0.431	-1.81	-11.3
2.26	69.59	-0.045	69.635	0.429	-1.83	-11.3
2.28	69.85	0.182	69.668	0.428	-1.84	-11.3
2.3	69.71	0.024	69.686	0.426	-1.85	-11.3
2.31	69.83	0.13	69.7	0.425	-1.87	-11.3
2.33	69.95	0.233	69.717	0.424	-1.88	-11.4

2.35	69.87	0.124	69.746	0.423	-1.9	-11.4
2.36	70.05	0.281	69.769	0.422	-1.91	-11.4
2.38	69.87	0.105	69.765	0.42	-1.92	-11.4
2.4	69.97	0.174	69.796	0.419	-1.94	-11.4
2.41	69.89	0.061	69.829	0.418	-1.95	-11.4
2.43	69.91	0.062	69.848	0.416	-1.96	-11.4
2.45	69.97	0.109	69.861	0.415	-1.98	-11.4
2.47	70.01	0.121	69.889	0.414	-1.99	-11.4
2.48	70.05	0.135	69.915	0.412	-2.01	-11.4
2.5	70.13	0.22	69.91	0.411	-2.02	-11.4
2.52	69.99	0.055	69.935	0.41	-2.03	-11.5
2.53	70.13	0.163	69.967	0.409	-2.04	-11.5
2.55	70.15	0.168	69.982	0.408	-2.06	-11.5
2.57	70.17	0.163	70.007	0.406	-2.07	-11.5
2.58	70.13	0.106	70.024	0.405	-2.08	-11.5
2.6	70.01	-0.004	70.014	0.404	-2.1	-11.5
2.62	70.17	0.142	70.028	0.403	-2.11	-11.5
2.64	70.2	0.166	70.034	0.402	-2.12	-11.5
2.65	70.19	0.132	70.058	0.4	-2.13	-11.5
2.67	70.34	0.255	70.085	0.4	-2.15	-11.5
2.69	70.36	0.252	70.108	0.399	-2.16	-11.5
2.7	70.24	0.117	70.123	0.398	-2.17	-11.5
2.72	70.28	0.154	70.126	0.397	-2.18	-11.5
2.74	70.48	0.327	70.153	0.396	-2.2	-11.5
2.75	70.32	0.133	70.187	0.395	-2.21	-11.6
2.77	70.21	0.032	70.178	0.394	-2.22	-11.6
2.79	70.36	0.165	70.195	0.393	-2.23	-11.6
2.81	70.42	0.199	70.221	0.392	-2.25	-11.6
2.82	70.42	0.182	70.238	0.391	-2.26	-11.6
2.84	70.4	0.147	70.253	0.39	-2.27	-11.6
2.86	70.42	0.141	70.279	0.389	-2.28	-11.6
2.87	70.48	0.182	70.298	0.388	-2.29	-11.6
2.89	70.48	0.165	70.315	0.387	-2.31	-11.6
2.91	70.48	0.161	70.319	0.386	-2.32	-11.6
2.92	70.42	0.108	70.312	0.385	-2.33	-11.6
2.94	70.54	0.209	70.331	0.385	-2.34	-11.6
2.96	70.5	0.143	70.357	0.384	-2.35	-11.6
2.98	70.48	0.132	70.348	0.383	-2.36	-11.6
2.99	70.6	0.246	70.354	0.382	-2.38	-11.6
3.01	70.67	0.283	70.387	0.382	-2.39	-11.6
3.03	70.68	0.272	70.408	0.381	-2.4	-11.6
3.04	70.65	0.224	70.426	0.38	-2.41	-11.6
3.06	70.67	0.248	70.422	0.38	-2.42	-11.6
3.08	70.64	0.191	70.449	0.379	-2.43	-11.7
3.09	70.62	0.141	70.479	0.378	-2.44	-11.7
3.11	70.79	0.291	70.499	0.378	-2.46	-11.7
3.13	70.83	0.317	70.513	0.377	-2.47	-11.7

3.15	70.77	0.246	70.524	0.377	-2.48	-11.7
3.16	70.77	0.232	70.538	0.376	-2.49	-11.7
3.18	70.81	0.25	70.56	0.376	-2.5	-11.7
3.2	70.79	0.219	70.571	0.375	-2.51	-11.7
3.21	70.83	0.271	70.559	0.374	-2.52	-11.7
3.23	70.79	0.221	70.569	0.374	-2.53	-11.7
3.25	70.75	0.17	70.58	0.373	-2.54	-11.7
3.26	70.81	0.227	70.583	0.372	-2.55	-11.7
3.28	70.79	0.213	70.577	0.372	-2.56	-11.7
3.3	70.89	0.279	70.611	0.371	-2.58	-11.7
3.32	70.85	0.21	70.64	0.371	-2.59	-11.7
3.33	70.89	0.26	70.63	0.37	-2.6	-11.7
3.35	71.05	0.404	70.646	0.37	-2.61	-11.7
3.37	70.89	0.24	70.65	0.37	-2.62	-11.7
3.38	71.01	0.334	70.676	0.37	-2.63	-11.7
3.4	70.99	0.292	70.698	0.369	-2.64	-11.7
3.42	71.11	0.393	70.717	0.369	-2.65	-11.7
3.43	71.01	0.286	70.724	0.369	-2.66	-11.7
3.45	71.15	0.406	70.744	0.369	-2.67	-11.7
3.47	71.09	0.329	70.761	0.369	-2.68	-11.8
3.49	71.03	0.245	70.785	0.369	-2.69	-11.8
3.5	71.05	0.247	70.803	0.368	-2.7	-11.8
3.52	71.07	0.256	70.814	0.368	-2.71	-11.8
3.54	71.11	0.29	70.82	0.367	-2.72	-11.8
3.55	71.13	0.301	70.829	0.367	-2.73	-11.8
3.57	71.01	0.172	70.838	0.366	-2.74	-11.8
3.59	71.11	0.264	70.846	0.366	-2.75	-11.8
3.6	71.19	0.324	70.866	0.366	-2.76	-11.8
3.62	71.17	0.295	70.875	0.365	-2.77	-11.8
3.64	71.19	0.292	70.898	0.365	-2.78	-11.8
3.66	71.18	0.267	70.913	0.365	-2.79	-11.8
3.67	71.17	0.251	70.919	0.364	-2.8	-11.8
3.69	71.09	0.151	70.939	0.364	-2.81	-11.8
3.71	71.32	0.366	70.954	0.364	-2.82	-11.8
3.72	71.17	0.227	70.943	0.363	-2.83	-11.8
3.74	71.22	0.261	70.959	0.363	-2.84	-11.8
3.76	71.28	0.304	70.976	0.362	-2.85	-11.8
3.77	71.18	0.207	70.973	0.362	-2.86	-11.8
3.79	71.38	0.387	70.993	0.362	-2.87	-11.8
3.81	71.24	0.222	71.018	0.362	-2.87	-11.8
3.83	71.38	0.349	71.031	0.361	-2.88	-11.8
3.84	71.24	0.226	71.014	0.361	-2.89	-11.8
3.86	71.3	0.265	71.035	0.361	-2.9	-11.8
3.88	71.26	0.225	71.035	0.36	-2.91	-11.8
3.89	71.32	0.282	71.038	0.36	-2.92	-11.8
3.91	71.38	0.324	71.056	0.36	-2.93	-11.8
3.93	71.34	0.257	71.083	0.359	-2.94	-11.8

3.94	71.3	0.2	71.1	0.359	-2.95	-11.8
3.96	71.38	0.274	71.106	0.358	-2.96	-11.8
3.98	71.38	0.256	71.124	0.358	-2.97	-11.9
4	71.42	0.276	71.144	0.358	-2.98	-11.9
4.01	71.44	0.286	71.154	0.357	-2.99	-11.9
4.03	71.32	0.191	71.129	0.357	-2.99	-11.8
4.05	71.44	0.296	71.144	0.357	-3	-11.9
4.06	71.44	0.283	71.157	0.356	-3.01	-11.9
4.08	71.32	0.168	71.152	0.356	-3.02	-11.8
4.1	71.53	0.351	71.179	0.356	-3.03	-11.9
4.11	71.55	0.345	71.205	0.356	-3.04	-11.9
4.13	71.53	0.303	71.227	0.356	-3.05	-11.9
4.15	71.42	0.208	71.212	0.355	-3.06	-11.9
4.17	71.42	0.195	71.225	0.355	-3.06	-11.9
4.18	71.53	0.287	71.243	0.354	-3.07	-11.9
4.2	71.53	0.265	71.265	0.354	-3.08	-11.9
4.22	71.57	0.287	71.283	0.354	-3.09	-11.9
4.23	71.51	0.227	71.283	0.353	-3.1	-11.9
4.25	71.47	0.175	71.295	0.353	-3.11	-11.9
4.27	71.5	0.212	71.288	0.352	-3.12	-11.9
4.28	71.63	0.335	71.295	0.352	-3.12	-11.9
4.3	71.5	0.183	71.317	0.352	-3.13	-11.9
4.32	71.65	0.321	71.329	0.352	-3.14	-11.9
4.33	71.77	0.426	71.344	0.352	-3.15	-11.9
4.35	71.71	0.358	71.352	0.352	-3.16	-11.9
4.37	71.71	0.355	71.355	0.352	-3.17	-11.9
4.39	71.55	0.198	71.352	0.352	-3.18	-11.9
4.4	71.71	0.345	71.365	0.352	-3.18	-11.9
4.42	71.63	0.269	71.361	0.351	-3.19	-11.9
4.44	71.57	0.19	71.38	0.351	-3.2	-11.9
4.45	71.85	0.448	71.402	0.351	-3.21	-11.9
4.47	71.63	0.209	71.421	0.351	-3.22	-11.9
4.49	71.75	0.314	71.436	0.351	-3.22	-11.9
4.5	71.67	0.256	71.414	0.35	-3.23	-11.9
4.52	71.81	0.384	71.426	0.35	-3.24	-11.9
4.54	71.73	0.288	71.442	0.35	-3.25	-11.9
4.56	71.81	0.347	71.463	0.35	-3.26	-11.9
4.57	71.61	0.162	71.448	0.35	-3.26	-11.9
4.59	71.77	0.312	71.458	0.35	-3.27	-11.9
4.61	71.79	0.317	71.473	0.349	-3.28	-11.9
4.62	71.79	0.296	71.494	0.349	-3.29	-11.9
4.64	71.89	0.383	71.507	0.349	-3.3	-11.9
4.66	71.77	0.255	71.515	0.349	-3.3	-11.9
4.68	71.75	0.219	71.531	0.349	-3.31	-11.9
4.69	71.95	0.407	71.543	0.349	-3.32	-11.9
4.71	71.81	0.259	71.551	0.349	-3.33	-11.9
4.73	71.75	0.218	71.532	0.348	-3.34	-11.9

4.74	71.83	0.289	71.541	0.348	-3.34	-11.9
4.76	71.92	0.351	71.569	0.348	-3.35	-11.9
4.78	71.73	0.173	71.557	0.348	-3.36	-11.9
4.79	71.81	0.245	71.565	0.347	-3.37	-11.9
4.81	71.98	0.394	71.586	0.348	-3.37	-11.9
4.83	71.69	0.113	71.577	0.347	-3.38	-11.9
4.85	71.87	0.285	71.585	0.347	-3.39	-11.9
4.86	71.96	0.356	71.604	0.347	-3.4	-11.9
4.88	71.79	0.17	71.62	0.346	-3.4	-12
4.9	72	0.362	71.638	0.346	-3.41	-12
4.91	71.94	0.295	71.645	0.346	-3.42	-12
4.93	72.06	0.398	71.662	0.346	-3.43	-12
4.95	71.93	0.256	71.674	0.346	-3.43	-12
4.96	71.91	0.229	71.681	0.346	-3.44	-12
4.98	72.06	0.378	71.682	0.346	-3.45	-12
5	72.16	0.473	71.687	0.346	-3.46	-12
5.02	72	0.324	71.676	0.346	-3.46	-12
5.03	72.08	0.387	71.693	0.347	-3.47	-12
5.05	72.02	0.321	71.699	0.346	-3.48	-12
5.07	72	0.296	71.704	0.346	-3.49	-12
5.08	71.91	0.215	71.695	0.346	-3.49	-12
5.1	72.12	0.409	71.711	0.346	-3.5	-12
5.12	71.98	0.259	71.721	0.346	-3.51	-12
5.13	72.06	0.326	71.734	0.346	-3.52	-12
5.15	72.12	0.373	71.747	0.346	-3.52	-12
5.17	71.95	0.187	71.763	0.346	-3.53	-12
5.19	72.06	0.292	71.768	0.345	-3.54	-12
5.2	71.91	0.133	71.777	0.345	-3.54	-12
5.22	72.14	0.366	71.774	0.345	-3.55	-12
5.24	71.98	0.216	71.764	0.345	-3.56	-12
5.25	72.02	0.246	71.774	0.344	-3.56	-12
5.27	72.04	0.262	71.778	0.344	-3.57	-12
5.29	72	0.217	71.783	0.344	-3.58	-12
5.3	72.26	0.465	71.795	0.344	-3.59	-12
5.32	72.12	0.309	71.811	0.344	-3.59	-12
5.34	71.14	0.176	70.964	0.344	-3.6	-11.5
5.36	70.44	0.177	70.263	0.343	-3.61	-11.1
5.37	70.54	0.683	69.857	0.345	-3.61	-10.9
5.39	70.4	0.868	69.532	0.348	-3.62	-10.7
5.41	70.46	1.198	69.262	0.354	-3.63	-10.5
5.42	70.52	1.473	69.047	0.363	-3.63	-10.4
5.44	70.5	1.65	68.85	0.374	-3.64	-10.2
5.46	70.58	1.902	68.678	0.388	-3.65	-10.1
5.47	70.64	2.121	68.519	0.405	-3.65	-10
5.49	70.56	2.187	68.373	0.422	-3.66	-9.89
5.51	70.09	1.854	68.236	0.434	-3.67	-9.79
5.53	69.74	1.627	68.113	0.443	-3.67	-9.7

5.54	69.58	1.589	67.991	0.451	-3.68	-9.61
5.56	69.37	1.495	67.875	0.457	-3.69	-9.52
5.58	69.33	1.564	67.766	0.465	-3.69	-9.44
5.59	69.35	1.68	67.67	0.473	-3.7	-9.36
5.61	69.21	1.631	67.579	0.481	-3.7	-9.28
5.63	69.29	1.799	67.491	0.49	-3.71	-9.21
5.64	69.21	1.803	67.407	0.499	-3.71	-9.14
5.66	69.19	1.868	67.322	0.509	-3.72	-9.07
5.68	69.09	1.848	67.242	0.518	-3.72	-9
5.7	69.05	1.882	67.168	0.528	-3.72	-8.93
5.71	68.77	1.669	67.101	0.535	-3.73	-8.87
5.73	68.77	1.735	67.035	0.542	-3.73	-8.81
5.75	68.52	1.565	66.955	0.548	-3.73	-8.74
5.76	68.62	1.725	66.895	0.555	-3.73	-8.68
5.78	69.81	2.109	67.701	0.566	-3.74	-9.07
5.8	70.17	1.819	68.351	0.574	-3.74	-9.42
5.81	70.13	1.408	68.722	0.578	-3.74	-9.62
5.83	70.15	1.171	68.979	0.581	-3.74	-9.76
5.85	69.97	0.771	69.199	0.581	-3.74	-9.88
5.87	69.97	0.59	69.38	0.581	-3.74	-9.98
5.88	69.95	0.404	69.546	0.581	-3.74	-10.1
5.9	69.93	0.272	69.658	0.58	-3.74	-10.1
5.92	69.93	0.144	69.786	0.579	-3.74	-10.2
5.93	69.87	-0.035	69.905	0.579	-3.74	-10.3
5.95	69.91	-0.095	70.005	0.578	-3.74	-10.3
5.97	70.36	0.259	70.101	0.577	-3.74	-10.4
5.98	70.75	0.563	70.187	0.577	-3.74	-10.4
6	70.69	0.412	70.278	0.577	-3.74	-10.5
6.02	70.81	0.457	70.353	0.576	-3.74	-10.5
6.04	70.85	0.422	70.428	0.576	-3.74	-10.6
6.05	70.73	0.226	70.504	0.575	-3.74	-10.6
6.07	70.89	0.327	70.563	0.575	-3.74	-10.6
6.09	70.68	0.049	70.631	0.574	-3.74	-10.7
6.1	70.89	0.2	70.69	0.573	-3.74	-10.7
6.12	70.79	0.062	70.728	0.572	-3.74	-10.7
6.14	71.03	0.246	70.784	0.572	-3.74	-10.8
6.15	71.17	0.335	70.835	0.571	-3.74	-10.8
6.17	71.13	0.268	70.862	0.571	-3.74	-10.8
6.19	71.24	0.328	70.912	0.57	-3.74	-10.9
6.21	71.27	0.303	70.967	0.57	-3.74	-10.9
6.22	71.3	0.288	71.012	0.569	-3.75	-10.9
6.24	71.26	0.205	71.055	0.568	-3.75	-11
6.26	71.44	0.343	71.097	0.568	-3.75	-11
6.27	71.38	0.246	71.134	0.567	-3.75	-11
6.29	71.22	0.073	71.147	0.566	-3.76	-11.1
6.31	71.3	0.103	71.197	0.566	-3.76	-11.1
6.32	71.38	0.171	71.209	0.565	-3.76	-11.1

6.34	71.42	0.167	71.253	0.564	-3.76	-11.1
6.36	71.5	0.221	71.279	0.564	-3.77	-11.2
6.38	71.51	0.195	71.315	0.563	-3.77	-11.2
6.39	71.53	0.209	71.321	0.562	-3.77	-11.2
6.41	71.51	0.162	71.348	0.562	-3.78	-11.2
6.43	71.6	0.236	71.364	0.561	-3.78	-11.2
6.44	71.69	0.282	71.408	0.561	-3.79	-11.3
6.46	71.65	0.229	71.421	0.56	-3.79	-11.3
6.48	71.59	0.158	71.432	0.559	-3.8	-11.3
6.49	71.65	0.205	71.445	0.559	-3.8	-11.3
6.51	71.75	0.258	71.492	0.558	-3.81	-11.3
6.53	71.79	0.254	71.536	0.557	-3.81	-11.4
6.55	71.79	0.22	71.57	0.557	-3.81	-11.4
6.56	71.73	0.132	71.598	0.556	-3.82	-11.4
6.58	71.67	0.08	71.59	0.555	-3.83	-11.4
6.6	71.93	0.311	71.619	0.555	-3.83	-11.4
6.61	71.83	0.182	71.648	0.554	-3.84	-11.4
6.63	71.69	0.021	71.669	0.554	-3.84	-11.5
6.65	71.87	0.177	71.693	0.553	-3.85	-11.5
6.66	71.89	0.173	71.717	0.552	-3.85	-11.5
6.68	71.81	0.077	71.733	0.552	-3.86	-11.5
6.7	71.93	0.178	71.752	0.551	-3.86	-11.5
6.72	71.85	0.078	71.772	0.55	-3.87	-11.5
6.73	71.89	0.097	71.793	0.55	-3.87	-11.6
6.75	72.08	0.273	71.807	0.549	-3.88	-11.6
6.77	71.85	0.033	71.817	0.548	-3.89	-11.6
6.78	72.06	0.225	71.835	0.548	-3.89	-11.6
6.8	71.96	0.104	71.856	0.547	-3.9	-11.6
6.82	72.02	0.145	71.875	0.547	-3.9	-11.6
6.83	72.04	0.143	71.897	0.546	-3.91	-11.6
6.85	71.98	0.071	71.909	0.545	-3.92	-11.6
6.87	71.91	-0.01	71.92	0.545	-3.92	-11.7
6.89	72.16	0.225	71.935	0.544	-3.93	-11.7
6.9	72.06	0.115	71.945	0.543	-3.93	-11.7
6.92	72.12	0.164	71.956	0.543	-3.94	-11.7
6.94	72.14	0.171	71.969	0.542	-3.95	-11.7
6.95	72.18	0.194	71.986	0.542	-3.95	-11.7
6.97	72.1	0.133	71.967	0.541	-3.96	-11.7
6.99	72.24	0.277	71.963	0.541	-3.96	-11.7
7	72.18	0.19	71.99	0.54	-3.97	-11.7
7.02	72.3	0.28	72.02	0.539	-3.98	-11.7
7.04	72.08	0.041	72.039	0.539	-3.98	-11.7
7.06	72.22	0.165	72.055	0.538	-3.99	-11.7
7.07	72.14	0.1	72.04	0.538	-3.99	-11.7
7.09	72.18	0.142	72.038	0.537	-4	-11.7
7.11	72.2	0.143	72.057	0.536	-4.01	-11.8
7.12	72.26	0.172	72.088	0.536	-4.01	-11.8

7.14	72.2	0.117	72.083	0.535	-4.02	-11.8
7.16	72.3	0.199	72.101	0.535	-4.03	-11.8
7.17	72.36	0.24	72.12	0.534	-4.03	-11.8
7.19	72.3	0.169	72.131	0.534	-4.04	-11.8
7.21	72.34	0.2	72.14	0.533	-4.04	-11.8
7.23	72.18	0.027	72.153	0.532	-4.05	-11.8
7.24	72.26	0.091	72.169	0.532	-4.06	-11.8
7.26	72.4	0.229	72.171	0.531	-4.06	-11.8
7.28	72.36	0.187	72.173	0.531	-4.07	-11.8
7.29	72.38	0.188	72.192	0.53	-4.08	-11.8
7.31	72.24	0.059	72.181	0.53	-4.08	-11.8
7.33	72.51	0.314	72.196	0.529	-4.09	-11.8
7.34	72.38	0.17	72.21	0.529	-4.09	-11.8
7.36	72.36	0.137	72.223	0.528	-4.1	-11.8
7.38	72.24	0.026	72.214	0.528	-4.11	-11.8
7.4	72.36	0.123	72.237	0.527	-4.11	-11.8
7.41	72.4	0.142	72.258	0.526	-4.12	-11.9
7.43	72.42	0.151	72.269	0.526	-4.12	-11.9
7.45	72.4	0.129	72.271	0.525	-4.13	-11.9
7.46	72.4	0.111	72.289	0.525	-4.14	-11.9
7.48	72.42	0.13	72.29	0.524	-4.14	-11.9
7.5	72.46	0.153	72.307	0.524	-4.15	-11.9
7.51	72.32	-0.005	72.325	0.523	-4.15	-11.9
7.53	72.44	0.135	72.305	0.522	-4.16	-11.9
7.55	72.4	0.082	72.318	0.522	-4.17	-11.9
7.57	72.34	0.028	72.312	0.521	-4.17	-11.9
7.58	72.47	0.142	72.328	0.521	-4.18	-11.9
7.6	72.49	0.17	72.32	0.52	-4.18	-11.9
7.62	72.4	0.095	72.305	0.52	-4.19	-11.9
7.63	72.49	0.164	72.326	0.519	-4.2	-11.9
7.65	72.57	0.223	72.347	0.519	-4.2	-11.9
7.67	72.44	0.072	72.368	0.518	-4.21	-11.9
7.68	72.57	0.183	72.387	0.518	-4.21	-11.9
7.7	72.51	0.115	72.395	0.517	-4.22	-11.9
7.72	72.51	0.104	72.406	0.517	-4.22	-11.9
7.74	72.65	0.239	72.411	0.516	-4.23	-11.9
7.75	72.44	0.019	72.421	0.515	-4.24	-11.9
7.77	72.53	0.107	72.423	0.515	-4.24	-11.9
7.79	72.42	0.017	72.403	0.514	-4.25	-11.9
7.8	72.63	0.205	72.425	0.514	-4.25	-11.9
7.82	72.69	0.24	72.45	0.513	-4.26	-11.9
7.84	72.55	0.1	72.45	0.513	-4.27	-11.9
7.85	72.63	0.173	72.457	0.512	-4.27	-11.9
7.87	72.67	0.204	72.466	0.512	-4.28	-11.9
7.89	72.75	0.269	72.481	0.512	-4.28	-12
7.91	72.61	0.113	72.497	0.511	-4.29	-12
7.92	72.61	0.113	72.497	0.511	-4.29	-12

7.94	72.57	0.071	72.499	0.51	-4.3	-12
7.96	72.57	0.081	72.489	0.509	-4.3	-12
7.97	72.65	0.145	72.505	0.509	-4.31	-12
7.99	72.79	0.265	72.525	0.509	-4.32	-12
8.01	72.63	0.102	72.528	0.508	-4.32	-12
8.02	72.63	0.114	72.516	0.508	-4.33	-12
8.04	72.75	0.213	72.537	0.507	-4.33	-12
8.06	72.59	0.043	72.547	0.507	-4.34	-12
8.08	72.69	0.13	72.56	0.506	-4.34	-12
8.09	72.69	0.129	72.561	0.506	-4.35	-12
8.11	72.59	0.026	72.564	0.505	-4.35	-12
8.13	72.61	0.07	72.54	0.505	-4.36	-12
8.14	72.73	0.169	72.561	0.504	-4.36	-12
8.16	72.69	0.144	72.546	0.504	-4.37	-12
8.18	72.71	0.156	72.554	0.503	-4.38	-12
8.19	72.67	0.126	72.544	0.503	-4.38	-12
8.21	72.59	0.023	72.567	0.502	-4.39	-12
8.23	72.57	0.009	72.561	0.502	-4.39	-12
8.25	72.67	0.087	72.583	0.501	-4.4	-12
8.26	72.67	0.096	72.574	0.501	-4.4	-12
8.28	72.63	0.064	72.566	0.5	-4.41	-12
8.3	72.77	0.195	72.575	0.5	-4.41	-12
8.31	72.63	0.067	72.563	0.499	-4.42	-12
8.33	72.79	0.201	72.589	0.499	-4.42	-12
8.35	72.61	-0.01	72.62	0.498	-4.43	-12
8.36	72.77	0.144	72.626	0.498	-4.43	-12
8.38	72.69	0.072	72.618	0.497	-4.44	-12
8.4	72.87	0.24	72.63	0.497	-4.44	-12
8.42	72.77	0.115	72.655	0.496	-4.45	-12
8.43	72.87	0.205	72.665	0.496	-4.45	-12
8.45	72.81	0.133	72.677	0.496	-4.46	-12
8.47	72.77	0.084	72.686	0.495	-4.46	-12
8.48	72.89	0.19	72.7	0.495	-4.47	-12
8.5	72.87	0.164	72.706	0.494	-4.48	-12
8.52	72.77	0.062	72.708	0.494	-4.48	-12
8.53	72.73	0.015	72.715	0.493	-4.49	-12
8.55	72.85	0.126	72.724	0.493	-4.49	-12
8.57	72.81	0.078	72.732	0.492	-4.5	-12
8.59	72.69	-0.027	72.717	0.492	-4.5	-12
8.6	72.85	0.139	72.711	0.491	-4.51	-12
8.62	72.87	0.137	72.733	0.491	-4.51	-12
8.64	72.89	0.146	72.744	0.49	-4.52	-12
8.65	72.73	-0.025	72.755	0.49	-4.52	-12
8.67	72.81	0.058	72.752	0.489	-4.52	-12
8.69	72.81	0.063	72.747	0.489	-4.53	-12
8.7	72.81	0.062	72.748	0.489	-4.53	-12
8.72	72.83	0.075	72.755	0.488	-4.54	-12

8.74	72.85	0.084	72.766	0.488	-4.54	-12
8.76	73.04	0.262	72.778	0.487	-4.55	-12
8.77	72.81	0.031	72.779	0.487	-4.55	-12
8.79	72.83	0.059	72.771	0.486	-4.56	-12
8.81	72.73	-0.055	72.785	0.486	-4.56	-12
8.82	72.81	0.009	72.801	0.485	-4.57	-12
8.84	72.75	-0.055	72.805	0.485	-4.57	-12
8.86	72.79	0.017	72.773	0.484	-4.58	-12
8.87	72.83	0.035	72.795	0.484	-4.58	-12
8.89	72.89	0.078	72.812	0.484	-4.59	-12
8.91	72.85	0.046	72.804	0.483	-4.59	-12
8.93	72.87	0.061	72.809	0.483	-4.6	-12
8.94	72.81	-0.015	72.825	0.482	-4.6	-12
8.96	72.87	0.045	72.825	0.482	-4.61	-12
8.98	72.79	-0.014	72.804	0.481	-4.61	-12
8.99	72.83	0.004	72.826	0.481	-4.62	-12
9.01	72.85	0.029	72.821	0.48	-4.62	-12
9.03	72.97	0.137	72.833	0.48	-4.63	-12
9.04	72.95	0.125	72.825	0.48	-4.63	-12
9.06	72.95	0.118	72.832	0.479	-4.64	-12
9.08	72.91	0.055	72.855	0.479	-4.64	-12
9.1	72.83	-0.014	72.844	0.478	-4.64	-12
9.11	72.91	0.065	72.845	0.478	-4.65	-12
9.13	72.97	0.107	72.863	0.477	-4.65	-12
9.15	72.99	0.11	72.88	0.477	-4.66	-12
9.16	72.75	-0.135	72.885	0.477	-4.66	-12
9.18	73.08	0.183	72.897	0.476	-4.67	-12
9.2	72.99	0.086	72.904	0.476	-4.67	-12
9.21	72.99	0.084	72.906	0.475	-4.68	-12
9.23	72.97	0.058	72.912	0.475	-4.68	-12
9.25	72.97	0.066	72.904	0.474	-4.69	-12
9.27	72.87	-0.008	72.878	0.474	-4.69	-12
9.28	73.04	0.151	72.889	0.474	-4.7	-12
9.3	73.06	0.143	72.917	0.473	-4.7	-12
9.32	72.91	-0.013	72.923	0.473	-4.7	-12
9.33	73.01	0.078	72.932	0.472	-4.71	-12
9.35	73.06	0.117	72.943	0.472	-4.71	-12
9.37	72.99	0.055	72.935	0.472	-4.72	-12
9.38	72.97	0.036	72.934	0.471	-4.72	-12
9.4	72.99	0.063	72.927	0.471	-4.73	-12
9.42	73.03	0.084	72.946	0.47	-4.73	-12
9.44	72.99	0.053	72.937	0.47	-4.74	-12
9.45	73.06	0.112	72.948	0.469	-4.74	-12
9.47	73.01	0.054	72.956	0.469	-4.74	-12
9.49	72.95	-0.024	72.974	0.469	-4.75	-12
9.5	73.14	0.16	72.98	0.468	-4.75	-12
9.52	73.1	0.108	72.992	0.468	-4.76	-12

9.54	73.08	0.11	72.97	0.467	-4.76	-12
9.55	73.01	0.028	72.982	0.467	-4.77	-12
9.57	73.05	0.059	72.991	0.467	-4.77	-12
9.59	72.93	-0.07	73	0.466	-4.77	-12
9.61	73.03	0.037	72.993	0.466	-4.78	-12
9.62	72.97	0.008	72.962	0.465	-4.78	-12
9.64	73.1	0.119	72.981	0.465	-4.79	-12
9.66	73.01	0.007	73.003	0.465	-4.79	-12
9.67	73.01	0.025	72.985	0.464	-4.8	-12
9.69	73.12	0.133	72.987	0.464	-4.8	-12
9.71	72.89	-0.119	73.009	0.463	-4.8	-12
9.72	73.15	0.121	73.029	0.463	-4.81	-12
9.74	73.01	-0.021	73.031	0.463	-4.81	-12
9.76	73.03	-0.008	73.038	0.462	-4.82	-12
9.78	73.05	-0.006	73.056	0.462	-4.82	-12
9.79	73.23	0.171	73.059	0.462	-4.83	-12
9.81	73.19	0.131	73.059	0.461	-4.83	-12
9.83	73.03	-0.024	73.054	0.461	-4.83	-12
9.84	73.13	0.062	73.068	0.46	-4.84	-12
9.86	73.07	0.004	73.066	0.46	-4.84	-12
9.88	73.13	0.045	73.085	0.46	-4.85	-12
9.89	73.1	0.007	73.093	0.459	-4.85	-12
9.91	73.15	0.043	73.107	0.459	-4.85	-12.1
9.93	72.97	-0.145	73.115	0.458	-4.86	-12.1
9.95	73.09	-0.009	73.099	0.458	-4.86	-12
9.96	73.08	-0.015	73.095	0.458	-4.87	-12
9.98	73.1	-0.005	73.105	0.457	-4.87	-12
10	73.18	0.07	73.11	0.457	-4.87	-12
10.01	73.11	0.003	73.107	0.457	-4.88	-12
10.03	73.12	0.01	73.11	0.456	-4.88	-12
10.05	73.17	0.05	73.12	0.456	-4.89	-12
10.06	73.15	0.029	73.121	0.455	-4.89	-12
10.08	73.15	0.02	73.13	0.455	-4.9	-12
10.1	73.13	0.003	73.127	0.455	-4.9	-12
10.12	73.07	-0.058	73.128	0.454	-4.9	-12
10.13	73.11	-0.009	73.119	0.454	-4.91	-12
10.15	73.19	0.072	73.118	0.453	-4.91	-12
10.17	73.03	-0.092	73.122	0.453	-4.92	-12
10.18	73.11	-0.015	73.125	0.453	-4.92	-12
10.2	73.15	0.017	73.133	0.452	-4.92	-12
10.22	73.27	0.138	73.132	0.452	-4.93	-12
10.23	73.23	0.084	73.146	0.452	-4.93	-12
10.25	73.15	-0.006	73.156	0.451	-4.94	-12
10.27	73.1	-0.063	73.163	0.451	-4.94	-12
10.29	73.17	-0.004	73.174	0.451	-4.94	-12
10.3	73.27	0.093	73.177	0.45	-4.95	-12
10.32	73.07	-0.104	73.174	0.45	-4.95	-12

10.34	73.23	0.048	73.182	0.449	-4.96	-12
10.35	73.17	-0.02	73.19	0.449	-4.96	-12
10.37	73.13	-0.055	73.185	0.449	-4.96	-12
10.39	73.21	0.008	73.202	0.448	-4.97	-12
10.4	73.11	-0.102	73.212	0.448	-4.97	-12.1
10.42	73.15	-0.06	73.21	0.448	-4.97	-12.1
10.44	73.13	-0.044	73.174	0.447	-4.98	-12
10.46	73.17	-0.012	73.182	0.447	-4.98	-12
10.47	73.15	-0.05	73.2	0.447	-4.99	-12
10.49	73.17	-0.008	73.178	0.446	-4.99	-12
10.51	73.19	0.01	73.18	0.446	-4.99	-12
10.52	73.11	-0.074	73.184	0.446	-5	-12
10.54	73.27	0.1	73.17	0.445	-5	-12
10.56	73.27	0.081	73.189	0.445	-5.01	-12
10.57	73.19	-0.018	73.208	0.444	-5.01	-12
10.59	73.23	0.005	73.225	0.444	-5.01	-12
10.61	73.35	0.139	73.211	0.444	-5.02	-12
10.63	73.15	-0.07	73.22	0.443	-5.02	-12
10.64	73.25	0.029	73.221	0.443	-5.02	-12
10.66	73.05	-0.154	73.204	0.443	-5.03	-12
10.68	73.17	-0.03	73.2	0.442	-5.03	-12
10.69	73.35	0.138	73.212	0.442	-5.04	-12
10.71	73.21	-0.022	73.232	0.442	-5.04	-12
10.73	73.35	0.105	73.245	0.441	-5.04	-12
10.74	73.31	0.068	73.242	0.441	-5.05	-12
10.76	73.25	-0.003	73.253	0.441	-5.05	-12
10.78	73.27	0.011	73.259	0.44	-5.05	-12
10.79	73.29	0.031	73.259	0.44	-5.06	-12
10.81	73.31	0.044	73.266	0.44	-5.06	-12
10.83	73.33	0.06	73.27	0.439	-5.07	-12
10.85	73.13	-0.141	73.271	0.439	-5.07	-12
10.86	71.75	-0.678	72.428	0.44	-5.07	-11.6
10.88	71.64	-0.095	71.735	0.439	-5.08	-11.2
10.9	71.62	0.294	71.326	0.439	-5.08	-10.9
10.91	71.52	0.517	71.003	0.439	-5.08	-10.7
10.93	71.62	0.872	70.748	0.44	-5.09	-10.6
10.95	71.54	1.032	70.508	0.442	-5.09	-10.4
10.97	71.58	1.279	70.301	0.444	-5.1	-10.3
10.98	71.52	1.389	70.131	0.447	-5.1	-10.2
11	71.58	1.608	69.972	0.451	-5.1	-10.1
11.02	71.71	1.883	69.827	0.457	-5.11	-9.95
11.03	71.23	1.542	69.688	0.461	-5.11	-9.86
11.05	70.89	1.33	69.56	0.463	-5.11	-9.76
11.07	70.6	1.167	69.433	0.465	-5.12	-9.67
11.08	70.52	1.197	69.323	0.467	-5.12	-9.59
11.1	70.48	1.274	69.206	0.469	-5.12	-9.5
11.12	70.3	1.209	69.091	0.471	-5.12	-9.41

11.14	70.38	1.373	69.007	0.474	-5.13	-9.34
11.15	70.23	1.305	68.925	0.477	-5.13	-9.27
11.17	70.23	1.401	68.829	0.479	-5.13	-9.2
11.19	70.21	1.464	68.746	0.482	-5.13	-9.13
11.2	70.19	1.516	68.674	0.486	-5.13	-9.06
11.22	70.07	1.466	68.604	0.489	-5.13	-9
11.24	69.89	1.355	68.535	0.491	-5.13	-8.94
11.25	69.88	1.415	68.465	0.494	-5.13	-8.87
11.27	69.66	1.262	68.398	0.496	-5.13	-8.81
11.29	69.62	1.283	68.337	0.498	-5.13	-8.76
11.31	69.43	1.171	68.259	0.5	-5.13	-8.69
11.32	69.5	1.295	68.205	0.502	-5.13	-8.64
11.34	69.53	1.383	68.147	0.504	-5.13	-8.58
11.36	69.45	1.353	68.097	0.507	-5.13	-8.53
11.37	69.49	1.44	68.05	0.509	-5.12	-8.48
11.39	69.47	1.468	68.002	0.512	-5.12	-8.43
11.41	69.37	1.426	67.944	0.515	-5.12	-8.38
11.42	69.23	1.335	67.895	0.517	-5.12	-8.33
11.44	69.09	1.236	67.854	0.519	-5.11	-8.29
11.46	69.15	1.337	67.813	0.521	-5.11	-8.25
11.48	69.03	1.267	67.763	0.523	-5.11	-8.2
11.49	69.03	1.309	67.721	0.525	-5.1	-8.16
11.51	68.89	1.204	67.686	0.526	-5.1	-8.12
11.53	69.03	1.38	67.65	0.529	-5.09	-8.08
11.54	68.79	1.185	67.605	0.53	-5.09	-8.04
11.56	68.87	1.303	67.567	0.532	-5.09	-8
11.58	68.85	1.313	67.537	0.534	-5.08	-7.97
11.59	68.85	1.343	67.507	0.536	-5.08	-7.93
11.61	68.79	1.32	67.47	0.538	-5.07	-7.9
11.63	68.64	1.219	67.421	0.54	-5.07	-7.85
11.65	68.58	1.191	67.389	0.541	-5.06	-7.82
11.66	68.66	1.292	67.368	0.543	-5.06	-7.79
11.68	68.58	1.237	67.343	0.545	-5.05	-7.76
11.7	68.68	1.365	67.315	0.547	-5.05	-7.73
11.71	68.48	1.191	67.289	0.548	-5.04	-7.71
11.73	68.46	1.195	67.265	0.55	-5.04	-7.68
11.75	68.52	1.281	67.239	0.552	-5.03	-7.65
11.76	68.38	1.17	67.21	0.553	-5.03	-7.62
11.78	68.38	1.211	67.169	0.554	-5.02	-7.59
11.8	68.44	1.295	67.145	0.556	-5.02	-7.56
11.82	68.28	1.163	67.117	0.558	-5.01	-7.54
11.83	68.3	1.203	67.097	0.559	-5.01	-7.51
11.85	68.34	1.259	67.081	0.561	-5	-7.49
11.87	68.38	1.32	67.06	0.563	-5	-7.47
11.88	68.26	1.223	67.037	0.564	-4.99	-7.45
11.9	68.22	1.202	67.018	0.565	-4.98	-7.43
11.92	68.2	1.212	66.988	0.567	-4.98	-7.4

11.93	68.26	1.29	66.97	0.569	-4.97	-7.38
11.95	68.11	1.156	66.954	0.57	-4.97	-7.36
11.97	68.16	1.225	66.935	0.571	-4.96	-7.35
11.99	68.13	1.212	66.918	0.573	-4.96	-7.33
12	68.05	1.153	66.897	0.574	-4.95	-7.31
12.02	68.07	1.191	66.879	0.575	-4.95	-7.29
12.04	68.03	1.167	66.863	0.577	-4.94	-7.27
12.05	67.93	1.095	66.835	0.578	-4.93	-7.25
12.07	68.01	1.188	66.822	0.579	-4.93	-7.23
12.09	67.85	1.046	66.804	0.58	-4.92	-7.22
12.1	67.85	1.059	66.791	0.581	-4.92	-7.2
12.12	67.89	1.114	66.776	0.582	-4.91	-7.19
12.14	67.85	1.088	66.762	0.583	-4.91	-7.17
12.16	67.85	1.101	66.749	0.584	-4.9	-7.16
12.17	67.87	1.14	66.73	0.585	-4.9	-7.14
12.19	67.85	1.148	66.702	0.586	-4.89	-7.12
12.21	67.79	1.098	66.692	0.587	-4.88	-7.11
12.22	67.85	1.167	66.683	0.589	-4.88	-7.1
12.24	67.71	1.044	66.666	0.589	-4.87	-7.09
12.26	67.69	1.052	66.638	0.59	-4.87	-7.07
12.27	67.81	1.179	66.631	0.591	-4.86	-7.06
12.29	67.61	1.001	66.609	0.592	-4.86	-7.04
12.31	67.73	1.129	66.601	0.593	-4.85	-7.03
12.33	67.7	1.105	66.595	0.594	-4.85	-7.02
12.34	67.62	1.038	66.582	0.595	-4.84	-7.01
12.36	67.69	1.115	66.575	0.596	-4.84	-7
12.38	67.68	1.114	66.566	0.597	-4.83	-6.99
12.39	67.66	1.107	66.553	0.598	-4.83	-6.98
12.41	67.62	1.077	66.543	0.599	-4.82	-6.97
12.43	67.58	1.049	66.531	0.6	-4.82	-6.96
12.44	67.76	1.239	66.521	0.601	-4.81	-6.95
12.46	67.52	1.01	66.51	0.602	-4.81	-6.94
12.48	67.52	1.031	66.489	0.603	-4.8	-6.93
12.5	67.56	1.086	66.474	0.604	-4.8	-6.92
12.51	67.46	0.995	66.465	0.604	-4.79	-6.91
12.53	67.46	1.011	66.449	0.605	-4.79	-6.89
12.55	67.48	1.05	66.43	0.606	-4.78	-6.88
12.56	67.56	1.138	66.422	0.607	-4.78	-6.87
12.58	67.33	0.923	66.407	0.608	-4.77	-6.86
12.6	67.31	0.906	66.404	0.608	-4.77	-6.86
12.61	67.4	0.999	66.401	0.609	-4.76	-6.85
12.63	67.38	0.986	66.394	0.609	-4.76	-6.85
12.65	67.44	1.058	66.382	0.61	-4.75	-6.84
12.67	67.54	1.163	66.377	0.611	-4.75	-6.83
12.68	67.42	1.048	66.372	0.612	-4.74	-6.83
12.7	67.4	1.037	66.363	0.613	-4.74	-6.82
12.72	67.42	1.063	66.357	0.614	-4.74	-6.81

12.73	67.42	1.069	66.351	0.615	-4.73	-6.81
12.75	67.23	0.899	66.331	0.615	-4.73	-6.8
12.77	67.34	1.022	66.318	0.616	-4.72	-6.79
12.78	67.23	0.928	66.302	0.616	-4.72	-6.78
12.8	67.21	0.91	66.3	0.617	-4.71	-6.77
12.82	67.23	0.93	66.3	0.617	-4.71	-6.77
12.84	67.25	0.957	66.293	0.618	-4.7	-6.77
12.85	67.09	0.803	66.287	0.618	-4.7	-6.76
12.87	68.77	1.632	67.138	0.621	-4.7	-7.2
12.89	68.89	1.061	67.829	0.621	-4.69	-7.6
12.9	68.73	0.51	68.22	0.621	-4.69	-7.83
12.92	68.91	0.363	68.547	0.621	-4.68	-8.03
12.94	68.95	0.132	68.818	0.621	-4.68	-8.2
12.95	68.85	-0.189	69.039	0.62	-4.68	-8.34
12.97	68.81	-0.402	69.212	0.62	-4.67	-8.46
12.99	68.87	-0.532	69.402	0.62	-4.67	-8.58
13.01	68.79	-0.777	69.567	0.62	-4.66	-8.69
13.02	68.93	-0.781	69.711	0.62	-4.66	-8.79
13.04	69.15	-0.698	69.848	0.62	-4.66	-8.89
13.06	69.61	-0.348	69.958	0.62	-4.65	-8.97
13.07	69.85	-0.239	70.089	0.62	-4.65	-9.06
13.09	69.79	-0.42	70.21	0.62	-4.65	-9.15
13.11	69.89	-0.431	70.321	0.619	-4.64	-9.23
13.12	70.13	-0.296	70.426	0.619	-4.64	-9.31
13.14	70.24	-0.282	70.522	0.619	-4.64	-9.38
13.16	70.24	-0.368	70.608	0.619	-4.64	-9.45
13.18	70.22	-0.468	70.688	0.618	-4.64	-9.52
13.19	70.28	-0.497	70.777	0.618	-4.63	-9.59
13.21	70.15	-0.706	70.856	0.618	-4.63	-9.65
13.23	70.3	-0.606	70.906	0.618	-4.63	-9.7
13.24	70.32	-0.658	70.978	0.618	-4.63	-9.76
13.26	70.54	-0.495	71.035	0.618	-4.63	-9.82
13.28	70.63	-0.456	71.086	0.618	-4.63	-9.87
13.29	70.71	-0.454	71.164	0.618	-4.63	-9.93
13.31	70.89	-0.351	71.241	0.618	-4.64	-9.99
13.33	70.81	-0.494	71.304	0.617	-4.64	-10
13.35	70.75	-0.586	71.336	0.617	-4.64	-10.1
13.36	70.93	-0.47	71.4	0.617	-4.64	-10.1
13.38	70.93	-0.528	71.458	0.617	-4.64	-10.2
13.4	70.99	-0.517	71.507	0.617	-4.65	-10.2
13.41	71.03	-0.525	71.555	0.617	-4.65	-10.3
13.43	71.11	-0.486	71.596	0.617	-4.65	-10.3
13.45	71.17	-0.464	71.634	0.617	-4.65	-10.4
13.46	71.23	-0.464	71.694	0.616	-4.66	-10.4
13.48	71.32	-0.413	71.733	0.616	-4.66	-10.5
13.5	71.28	-0.485	71.765	0.616	-4.67	-10.5
13.52	71.38	-0.435	71.815	0.616	-4.67	-10.5

13.53	71.28	-0.57	71.85	0.616	-4.67	-10.6
13.55	71.36	-0.525	71.885	0.616	-4.68	-10.6
13.57	71.34	-0.587	71.927	0.616	-4.68	-10.6
13.58	71.5	-0.462	71.962	0.616	-4.69	-10.7
13.6	71.46	-0.548	72.008	0.615	-4.69	-10.7
13.62	71.58	-0.462	72.042	0.615	-4.7	-10.8
13.63	71.46	-0.585	72.045	0.615	-4.7	-10.8
13.65	71.6	-0.484	72.084	0.615	-4.71	-10.8
13.67	71.64	-0.489	72.129	0.615	-4.72	-10.8
13.69	71.61	-0.52	72.13	0.615	-4.72	-10.9
13.7	71.46	-0.68	72.14	0.615	-4.73	-10.9
13.72	71.67	-0.504	72.174	0.615	-4.73	-10.9
13.74	71.69	-0.523	72.213	0.615	-4.74	-10.9
13.75	71.53	-0.719	72.249	0.615	-4.74	-11
13.77	71.85	-0.429	72.279	0.615	-4.75	-11
13.79	71.79	-0.509	72.299	0.615	-4.76	-11
13.8	71.73	-0.587	72.317	0.614	-4.76	-11
13.82	71.77	-0.582	72.352	0.614	-4.77	-11.1
13.84	72	-0.385	72.385	0.614	-4.77	-11.1
13.86	71.81	-0.595	72.405	0.614	-4.78	-11.1
13.87	71.97	-0.456	72.426	0.614	-4.79	-11.1
13.89	71.89	-0.534	72.424	0.614	-4.79	-11.1
13.91	71.92	-0.539	72.459	0.614	-4.8	-11.2
13.92	71.96	-0.53	72.49	0.614	-4.81	-11.2
13.94	71.91	-0.597	72.507	0.614	-4.81	-11.2
13.96	71.98	-0.514	72.494	0.614	-4.82	-11.2
13.97	72	-0.518	72.518	0.614	-4.83	-11.2
13.99	72.1	-0.456	72.556	0.613	-4.83	-11.3
14.01	72.14	-0.445	72.585	0.613	-4.84	-11.3
14.03	72.33	-0.285	72.615	0.613	-4.85	-11.3
14.04	72.06	-0.545	72.605	0.613	-4.85	-11.3
14.06	72.12	-0.513	72.633	0.613	-4.86	-11.3
14.08	72.22	-0.429	72.649	0.612	-4.87	-11.3
14.09	72.1	-0.572	72.672	0.612	-4.87	-11.4
14.11	72.22	-0.479	72.699	0.612	-4.88	-11.4
14.13	72.26	-0.425	72.685	0.612	-4.89	-11.4
14.14	72.18	-0.512	72.692	0.612	-4.89	-11.4
14.16	72.24	-0.47	72.71	0.612	-4.9	-11.4
14.18	72.28	-0.457	72.737	0.612	-4.9	-11.4
14.2	72.14	-0.593	72.733	0.612	-4.91	-11.4
14.21	72.32	-0.428	72.748	0.611	-4.92	-11.4
14.23	72.32	-0.445	72.765	0.611	-4.92	-11.5
14.25	72.28	-0.497	72.777	0.611	-4.93	-11.5
14.26	72.32	-0.467	72.787	0.611	-4.94	-11.5
14.28	72.28	-0.529	72.809	0.611	-4.94	-11.5
14.3	72.41	-0.396	72.806	0.611	-4.95	-11.5
14.31	72.32	-0.476	72.796	0.611	-4.96	-11.5

14.33	72.47	-0.343	72.813	0.61	-4.96	-11.5
14.35	72.38	-0.452	72.832	0.61	-4.97	-11.5
14.37	72.41	-0.447	72.857	0.61	-4.98	-11.5
14.38	72.51	-0.368	72.878	0.61	-4.98	-11.5
14.4	72.45	-0.439	72.889	0.61	-4.99	-11.5
14.42	72.36	-0.545	72.905	0.61	-5	-11.6
14.43	72.49	-0.429	72.919	0.609	-5	-11.6
14.45	72.59	-0.347	72.937	0.609	-5.01	-11.6
14.47	72.59	-0.372	72.962	0.609	-5.01	-11.6
14.48	72.65	-0.317	72.967	0.609	-5.02	-11.6
14.5	72.51	-0.463	72.973	0.608	-5.03	-11.6
14.52	72.55	-0.437	72.987	0.608	-5.03	-11.6
14.54	72.53	-0.434	72.964	0.608	-5.04	-11.6
14.55	72.49	-0.485	72.975	0.608	-5.05	-11.6
14.57	72.63	-0.332	72.962	0.608	-5.05	-11.6
14.59	72.63	-0.349	72.979	0.608	-5.06	-11.6
14.6	72.67	-0.332	73.002	0.607	-5.06	-11.6
14.62	72.53	-0.463	72.993	0.607	-5.07	-11.6
14.64	72.63	-0.375	73.005	0.607	-5.08	-11.6
14.65	72.75	-0.283	73.033	0.607	-5.08	-11.6
14.67	72.61	-0.431	73.041	0.606	-5.09	-11.7
14.69	72.65	-0.391	73.041	0.606	-5.09	-11.7
14.71	72.67	-0.389	73.059	0.606	-5.1	-11.7
14.72	72.69	-0.385	73.075	0.606	-5.11	-11.7
14.74	72.57	-0.475	73.045	0.606	-5.11	-11.7
14.76	72.67	-0.392	73.062	0.605	-5.12	-11.7
14.77	72.77	-0.324	73.094	0.605	-5.12	-11.7
14.79	72.57	-0.511	73.081	0.605	-5.13	-11.7
14.81	72.69	-0.415	73.105	0.605	-5.13	-11.7
14.82	72.77	-0.343	73.113	0.605	-5.14	-11.7
14.84	72.77	-0.353	73.123	0.605	-5.15	-11.7
14.86	72.75	-0.342	73.092	0.604	-5.15	-11.7
14.88	72.79	-0.303	73.093	0.604	-5.16	-11.7
14.89	72.71	-0.396	73.106	0.604	-5.16	-11.7
14.91	72.65	-0.47	73.12	0.604	-5.17	-11.7
14.93	72.75	-0.401	73.151	0.603	-5.17	-11.7
14.94	72.89	-0.265	73.155	0.603	-5.18	-11.7
14.96	72.73	-0.429	73.159	0.603	-5.18	-11.7
14.98	72.79	-0.345	73.135	0.603	-5.19	-11.7
14.99	72.98	-0.175	73.155	0.602	-5.2	-11.7
15.01	73	-0.178	73.178	0.602	-5.2	-11.7
15.03	72.77	-0.383	73.153	0.602	-5.21	-11.7
15.05	72.83	-0.298	73.128	0.602	-5.21	-11.7
15.06	73	-0.156	73.156	0.601	-5.22	-11.7
15.08	72.81	-0.382	73.192	0.601	-5.22	-11.7
15.1	72.79	-0.416	73.206	0.601	-5.23	-11.7
15.11	72.91	-0.3	73.21	0.601	-5.23	-11.7

15.13	72.85	-0.373	73.223	0.601	-5.24	-11.7
15.15	72.81	-0.418	73.228	0.6	-5.24	-11.8
15.16	72.98	-0.243	73.223	0.6	-5.25	-11.7
15.18	72.87	-0.365	73.235	0.6	-5.25	-11.8
15.2	72.79	-0.413	73.203	0.6	-5.26	-11.7
15.22	72.89	-0.294	73.184	0.599	-5.26	-11.7
15.23	72.91	-0.265	73.175	0.599	-5.27	-11.7
15.25	72.97	-0.224	73.194	0.599	-5.27	-11.7
15.27	72.85	-0.368	73.218	0.599	-5.28	-11.7
15.28	73.04	-0.213	73.253	0.598	-5.28	-11.8
15.3	72.89	-0.332	73.222	0.598	-5.29	-11.7
15.32	73.14	-0.088	73.228	0.598	-5.29	-11.7
15.33	73.04	-0.21	73.25	0.598	-5.3	-11.7
15.35	72.89	-0.35	73.24	0.597	-5.3	-11.7
15.37	73.04	-0.228	73.268	0.597	-5.31	-11.8
15.39	73.12	-0.175	73.295	0.597	-5.31	-11.8
15.4	73.12	-0.169	73.289	0.596	-5.32	-11.8
15.42	72.95	-0.337	73.287	0.596	-5.32	-11.8
15.44	72.95	-0.31	73.26	0.596	-5.33	-11.7
15.45	72.93	-0.325	73.255	0.596	-5.33	-11.7
15.47	73.01	-0.276	73.286	0.596	-5.34	-11.8
15.49	73.08	-0.216	73.296	0.595	-5.34	-11.8
15.5	72.93	-0.386	73.316	0.595	-5.35	-11.8
15.52	73.26	-0.069	73.329	0.595	-5.35	-11.8
15.54	72.93	-0.395	73.325	0.595	-5.35	-11.8
15.56	73.18	-0.164	73.344	0.594	-5.36	-11.8
15.57	72.95	-0.404	73.354	0.594	-5.36	-11.8
15.59	73.12	-0.232	73.352	0.594	-5.37	-11.8
15.61	73.1	-0.26	73.36	0.594	-5.37	-11.8
15.62	73.01	-0.374	73.384	0.593	-5.38	-11.8
15.64	72.95	-0.398	73.348	0.593	-5.38	-11.8
15.66	73.01	-0.336	73.346	0.593	-5.39	-11.8
15.67	73.1	-0.26	73.36	0.593	-5.39	-11.8
15.69	73.1	-0.239	73.339	0.592	-5.39	-11.8
15.71	73.22	-0.128	73.348	0.592	-5.4	-11.8
15.73	73.11	-0.264	73.374	0.592	-5.4	-11.8
15.74	73.16	-0.235	73.395	0.592	-5.41	-11.8
15.76	73.18	-0.222	73.402	0.591	-5.41	-11.8
15.78	73.2	-0.206	73.406	0.591	-5.42	-11.8
15.79	73.12	-0.256	73.376	0.591	-5.42	-11.8
15.81	73.18	-0.203	73.383	0.59	-5.42	-11.8
15.83	73.03	-0.367	73.397	0.59	-5.43	-11.8
15.84	73.41	-0.002	73.412	0.59	-5.43	-11.8
15.86	73.27	-0.154	73.424	0.59	-5.44	-11.8
15.88	73.18	-0.259	73.439	0.589	-5.44	-11.8
15.9	73.19	-0.248	73.438	0.589	-5.45	-11.8
15.91	73.27	-0.181	73.451	0.589	-5.45	-11.8

15.93	73.21	-0.251	73.461	0.589	-5.45	-11.8
15.95	73.29	-0.184	73.474	0.588	-5.46	-11.8
15.96	73.12	-0.362	73.482	0.588	-5.46	-11.8
15.98	73.27	-0.216	73.486	0.588	-5.47	-11.8
16	73.21	-0.274	73.484	0.588	-5.47	-11.8
16.01	73.23	-0.23	73.46	0.587	-5.47	-11.8
16.03	73.27	-0.194	73.464	0.587	-5.48	-11.8
16.05	73.23	-0.237	73.467	0.587	-5.48	-11.8
16.07	73.27	-0.211	73.481	0.587	-5.49	-11.8
16.08	73.2	-0.291	73.491	0.586	-5.49	-11.8
16.1	73.17	-0.291	73.461	0.586	-5.49	-11.8
16.12	73.15	-0.288	73.438	0.586	-5.5	-11.8
16.13	73.29	-0.16	73.45	0.586	-5.5	-11.8
16.15	73.15	-0.305	73.455	0.585	-5.51	-11.8
16.17	73.29	-0.145	73.435	0.585	-5.51	-11.8
16.18	73.23	-0.232	73.462	0.585	-5.51	-11.8
16.2	73.35	-0.121	73.471	0.584	-5.52	-11.8
16.22	73.09	-0.368	73.458	0.584	-5.52	-11.8
16.23	73.35	-0.137	73.487	0.584	-5.53	-11.8
16.25	73.29	-0.218	73.508	0.584	-5.53	-11.8
16.27	73.27	-0.208	73.478	0.583	-5.53	-11.8
16.29	73.17	-0.317	73.487	0.583	-5.54	-11.8
16.3	73.31	-0.19	73.5	0.583	-5.54	-11.8
16.32	73.37	-0.15	73.52	0.583	-5.55	-11.8
16.34	73.41	-0.115	73.525	0.582	-5.55	-11.8
16.35	73.27	-0.229	73.499	0.582	-5.55	-11.8
16.37	73.29	-0.235	73.525	0.582	-5.56	-11.8
16.39	73.39	-0.143	73.533	0.582	-5.56	-11.8
16.41	73.23	-0.282	73.512	0.581	-5.56	-11.8
16.42	73.31	-0.186	73.496	0.581	-5.57	-11.8
16.44	73.29	-0.219	73.509	0.581	-5.57	-11.8
16.46	73.21	-0.309	73.519	0.581	-5.58	-11.8
16.47	73.41	-0.131	73.541	0.58	-5.58	-11.8
16.49	73.45	-0.118	73.568	0.58	-5.58	-11.8
16.51	73.35	-0.185	73.535	0.58	-5.59	-11.8
16.52	73.27	-0.28	73.55	0.58	-5.59	-11.8
16.54	73.29	-0.271	73.561	0.579	-5.59	-11.8
16.56	73.29	-0.279	73.569	0.579	-5.6	-11.8
16.58	73.47	-0.102	73.572	0.579	-5.6	-11.8
16.59	73.27	-0.269	73.539	0.579	-5.6	-11.8
16.61	73.28	-0.26	73.54	0.578	-5.61	-11.8
16.63	73.47	-0.059	73.529	0.578	-5.61	-11.8
16.64	73.27	-0.249	73.519	0.578	-5.61	-11.8
16.66	73.25	-0.254	73.504	0.578	-5.62	-11.8
16.68	73.44	-0.082	73.522	0.577	-5.62	-11.8
16.69	73.41	-0.1	73.51	0.577	-5.63	-11.8
16.71	73.25	-0.242	73.492	0.577	-5.63	-11.8

16.73	73.44	-0.084	73.524	0.577	-5.63	-11.8
16.75	73.48	-0.075	73.555	0.576	-5.64	-11.8
16.76	73.46	-0.109	73.569	0.576	-5.64	-11.8
16.78	73.48	-0.085	73.565	0.576	-5.64	-11.8
16.8	73.42	-0.138	73.558	0.575	-5.65	-11.8
16.81	73.46	-0.117	73.577	0.575	-5.65	-11.8
16.83	73.34	-0.242	73.582	0.575	-5.65	-11.8
16.85	73.54	-0.047	73.587	0.575	-5.66	-11.8
16.86	73.54	-0.062	73.602	0.574	-5.66	-11.8
16.88	73.44	-0.134	73.574	0.574	-5.66	-11.8
16.9	73.5	-0.099	73.599	0.574	-5.67	-11.8
16.92	73.48	-0.143	73.623	0.573	-5.67	-11.8
16.93	73.5	-0.141	73.641	0.573	-5.67	-11.8
16.95	73.4	-0.256	73.656	0.573	-5.68	-11.8
16.97	73.6	-0.064	73.664	0.573	-5.68	-11.8
16.98	73.42	-0.235	73.655	0.572	-5.68	-11.8
17	73.54	-0.111	73.651	0.572	-5.69	-11.8
17.02	73.58	-0.071	73.651	0.572	-5.69	-11.8
17.03	73.56	-0.098	73.658	0.572	-5.69	-11.8
17.05	73.58	-0.09	73.67	0.571	-5.7	-11.8
17.07	73.4	-0.233	73.633	0.571	-5.7	-11.8
17.09	73.42	-0.182	73.602	0.571	-5.7	-11.8
17.1	73.64	0.007	73.633	0.571	-5.71	-11.8
17.12	73.5	-0.149	73.649	0.57	-5.71	-11.8
17.14	73.58	-0.082	73.662	0.57	-5.71	-11.8
17.15	73.38	-0.293	73.673	0.57	-5.71	-11.8
17.17	73.48	-0.22	73.7	0.57	-5.72	-11.8
17.19	73.54	-0.16	73.7	0.569	-5.72	-11.8
17.2	73.44	-0.235	73.675	0.569	-5.72	-11.8
17.22	73.56	-0.132	73.692	0.569	-5.73	-11.8
17.24	73.56	-0.143	73.703	0.569	-5.73	-11.8
17.26	73.66	-0.049	73.709	0.568	-5.73	-11.8
17.27	73.36	-0.357	73.717	0.568	-5.74	-11.8
17.29	73.56	-0.147	73.707	0.568	-5.74	-11.8
17.31	73.42	-0.301	73.721	0.568	-5.74	-11.8
17.32	73.58	-0.154	73.734	0.567	-5.75	-11.8
17.34	73.56	-0.187	73.747	0.567	-5.75	-11.8
17.36	73.52	-0.234	73.754	0.567	-5.75	-11.8
17.37	73.46	-0.259	73.719	0.567	-5.76	-11.8
17.39	73.56	-0.157	73.717	0.566	-5.76	-11.8
17.41	73.66	-0.069	73.729	0.566	-5.76	-11.8
17.43	73.54	-0.189	73.729	0.566	-5.76	-11.8
17.44	73.62	-0.123	73.743	0.566	-5.77	-11.8
17.46	73.68	-0.085	73.765	0.565	-5.77	-11.8
17.48	73.64	-0.117	73.757	0.565	-5.77	-11.8
17.49	73.66	-0.094	73.754	0.565	-5.78	-11.8
17.51	73.48	-0.259	73.739	0.565	-5.78	-11.8

17.53	73.5	-0.244	73.744	0.564	-5.78	-11.8
17.54	73.58	-0.167	73.747	0.564	-5.79	-11.8
17.56	73.58	-0.167	73.747	0.564	-5.79	-11.8
17.58	73.48	-0.28	73.76	0.564	-5.79	-11.8
17.6	73.74	-0.033	73.773	0.563	-5.8	-11.8
17.61	73.6	-0.18	73.78	0.563	-5.8	-11.8
17.63	73.48	-0.266	73.746	0.563	-5.8	-11.8
17.65	73.54	-0.222	73.762	0.563	-5.8	-11.8
17.66	73.48	-0.277	73.757	0.563	-5.81	-11.8
17.68	73.64	-0.134	73.774	0.562	-5.81	-11.8
17.7	73.52	-0.273	73.793	0.562	-5.81	-11.8
17.71	73.83	0.032	73.798	0.562	-5.82	-11.8
17.73	73.6	-0.207	73.807	0.562	-5.82	-11.8
17.75	73.62	-0.186	73.806	0.561	-5.82	-11.8
17.77	73.79	-0.019	73.809	0.561	-5.83	-11.8
17.78	73.64	-0.168	73.808	0.561	-5.83	-11.8
17.8	73.7	-0.103	73.803	0.561	-5.83	-11.8
17.82	73.62	-0.199	73.819	0.56	-5.83	-11.8
17.83	73.54	-0.258	73.798	0.56	-5.84	-11.8
17.85	73.7	-0.114	73.814	0.56	-5.84	-11.8
17.87	73.62	-0.196	73.816	0.56	-5.84	-11.8
17.88	73.74	-0.084	73.824	0.559	-5.85	-11.8
17.9	73.62	-0.174	73.794	0.559	-5.85	-11.8
17.92	73.74	-0.07	73.81	0.559	-5.85	-11.8
17.94	73.68	-0.159	73.839	0.559	-5.86	-11.8
17.95	73.66	-0.185	73.845	0.558	-5.86	-11.8
17.97	73.72	-0.141	73.861	0.558	-5.86	-11.9
17.99	73.66	-0.194	73.854	0.558	-5.86	-11.8
18	73.62	-0.24	73.86	0.558	-5.87	-11.8
18.02	73.74	-0.143	73.883	0.557	-5.87	-11.9
18.04	73.52	-0.323	73.843	0.557	-5.87	-11.8
18.05	73.72	-0.142	73.862	0.557	-5.88	-11.8
18.07	73.68	-0.185	73.865	0.557	-5.88	-11.8
18.09	73.72	-0.156	73.876	0.557	-5.88	-11.9
18.11	73.7	-0.172	73.872	0.556	-5.88	-11.8
18.12	73.87	-0.016	73.886	0.556	-5.89	-11.9
18.14	73.74	-0.159	73.899	0.556	-5.89	-11.9
18.16	73.7	-0.18	73.88	0.556	-5.89	-11.8
18.17	73.66	-0.215	73.875	0.555	-5.9	-11.8
18.19	73.62	-0.235	73.855	0.555	-5.9	-11.8
18.21	73.83	-0.043	73.873	0.555	-5.9	-11.8
18.22	73.78	-0.11	73.89	0.555	-5.9	-11.8
18.24	73.72	-0.179	73.899	0.554	-5.91	-11.9
18.26	73.7	-0.169	73.869	0.554	-5.91	-11.8
18.28	73.66	-0.178	73.838	0.554	-5.91	-11.8
18.29	73.68	-0.187	73.867	0.554	-5.92	-11.8
18.31	73.64	-0.241	73.881	0.554	-5.92	-11.8

18.33	73.58	-0.286	73.866	0.553	-5.92	-11.8
18.34	73.6	-0.284	73.884	0.553	-5.92	-11.8
18.36	73.85	-0.062	73.912	0.553	-5.93	-11.8
18.38	73.74	-0.151	73.891	0.553	-5.93	-11.8
18.39	73.68	-0.19	73.87	0.552	-5.93	-11.8
18.41	73.85	-0.052	73.902	0.552	-5.93	-11.8
18.43	73.58	-0.308	73.888	0.552	-5.94	-11.8
18.45	73.7	-0.157	73.857	0.552	-5.94	-11.8
18.46	73.62	-0.263	73.883	0.552	-5.94	-11.8
18.48	73.83	-0.079	73.909	0.551	-5.95	-11.8
18.5	73.8	-0.117	73.917	0.551	-5.95	-11.8
18.51	73.74	-0.153	73.893	0.551	-5.95	-11.8
18.53	73.89	-0.012	73.902	0.551	-5.95	-11.8
18.55	73.66	-0.227	73.887	0.55	-5.96	-11.8
18.56	73.76	-0.139	73.899	0.55	-5.96	-11.8
18.58	73.64	-0.238	73.878	0.55	-5.96	-11.8
18.6	73.83	-0.062	73.892	0.55	-5.96	-11.8
18.62	73.81	-0.098	73.908	0.549	-5.97	-11.8
18.63	73.76	-0.153	73.913	0.549	-5.97	-11.8
18.65	73.68	-0.218	73.898	0.549	-5.97	-11.8
18.67	73.85	-0.069	73.919	0.549	-5.98	-11.8
18.68	73.91	-0.023	73.933	0.549	-5.98	-11.8
18.7	73.72	-0.236	73.956	0.548	-5.98	-11.8
18.72	73.68	-0.244	73.924	0.548	-5.98	-11.8
18.73	73.85	-0.091	73.941	0.548	-5.99	-11.8
18.75	73.8	-0.13	73.93	0.548	-5.99	-11.8
18.77	73.83	-0.07	73.9	0.547	-5.99	-11.8
18.79	73.74	-0.191	73.931	0.547	-5.99	-11.8
18.8	73.83	-0.125	73.955	0.547	-6	-11.8
18.82	73.91	-0.041	73.951	0.547	-6	-11.8
18.84	73.85	-0.115	73.965	0.546	-6	-11.8
18.85	73.81	-0.166	73.976	0.546	-6	-11.8
18.87	73.91	-0.077	73.987	0.546	-6.01	-11.8
18.89	73.87	-0.123	73.993	0.546	-6.01	-11.8
18.9	73.85	-0.134	73.984	0.546	-6.01	-11.8
18.92	73.82	-0.177	73.997	0.545	-6.01	-11.8
18.94	73.89	-0.118	74.008	0.545	-6.02	-11.9
18.96	73.7	-0.304	74.004	0.545	-6.02	-11.8
18.97	73.83	-0.168	73.998	0.545	-6.02	-11.8
18.99	73.89	-0.124	74.014	0.544	-6.02	-11.9
19.01	73.66	-0.323	73.983	0.544	-6.03	-11.8
19.02	73.93	-0.074	74.004	0.544	-6.03	-11.8
19.04	73.82	-0.186	74.006	0.544	-6.03	-11.8
19.06	73.7	-0.282	73.982	0.544	-6.03	-11.8
19.07	73.72	-0.273	73.993	0.543	-6.04	-11.8
19.09	73.72	-0.247	73.967	0.543	-6.04	-11.8
19.11	73.93	-0.058	73.988	0.543	-6.04	-11.8

19.13	73.87	-0.145	74.015	0.543	-6.05	-11.8
19.14	73.89	-0.145	74.035	0.543	-6.05	-11.8
19.16	73.8	-0.232	74.032	0.542	-6.05	-11.8
19.18	73.89	-0.147	74.037	0.542	-6.05	-11.8
19.19	73.8	-0.217	74.017	0.542	-6.06	-11.8
19.21	73.77	-0.246	74.016	0.542	-6.06	-11.8
19.23	73.87	-0.152	74.022	0.542	-6.06	-11.8
19.24	73.89	-0.146	74.036	0.541	-6.06	-11.8
19.26	73.89	-0.157	74.047	0.541	-6.07	-11.8
19.28	73.97	-0.095	74.065	0.541	-6.07	-11.9
19.3	73.95	-0.122	74.072	0.541	-6.07	-11.9
19.31	73.76	-0.309	74.069	0.541	-6.07	-11.9
19.33	73.93	-0.141	74.071	0.54	-6.08	-11.9
19.35	73.91	-0.16	74.07	0.54	-6.08	-11.9
19.36	73.99	-0.088	74.078	0.54	-6.08	-11.9
19.38	73.93	-0.157	74.087	0.54	-6.08	-11.9
19.4	73.8	-0.286	74.086	0.539	-6.09	-11.9
19.41	74.01	-0.095	74.105	0.539	-6.09	-11.9
19.43	73.85	-0.21	74.06	0.539	-6.09	-11.8
19.45	73.93	-0.134	74.064	0.539	-6.09	-11.8
19.46	73.95	-0.133	74.083	0.539	-6.1	-11.9
19.48	73.95	-0.142	74.092	0.538	-6.1	-11.9
19.5	73.89	-0.197	74.087	0.538	-6.1	-11.9
19.52	73.77	-0.327	74.097	0.538	-6.1	-11.9
19.53	73.97	-0.139	74.109	0.538	-6.1	-11.9
19.55	73.85	-0.271	74.121	0.538	-6.11	-11.9
19.57	73.81	-0.3	74.11	0.537	-6.11	-11.9
19.58	73.97	-0.129	74.099	0.537	-6.11	-11.9
19.6	73.89	-0.226	74.116	0.537	-6.11	-11.9
19.62	73.97	-0.149	74.119	0.537	-6.12	-11.9
19.64	73.89	-0.228	74.118	0.537	-6.12	-11.9
19.65	73.83	-0.285	74.115	0.536	-6.12	-11.9
19.67	73.97	-0.161	74.131	0.536	-6.12	-11.9
19.69	73.87	-0.264	74.134	0.536	-6.13	-11.9
19.7	73.85	-0.266	74.116	0.536	-6.13	-11.9
19.72	74.01	-0.111	74.121	0.536	-6.13	-11.9
19.74	73.82	-0.32	74.14	0.536	-6.13	-11.9
19.75	73.72	-0.386	74.106	0.535	-6.14	-11.8
19.77	74.03	-0.083	74.113	0.535	-6.14	-11.9
19.79	73.77	-0.315	74.085	0.535	-6.14	-11.8
19.8	73.89	-0.204	74.094	0.535	-6.14	-11.8
19.82	73.97	-0.153	74.123	0.535	-6.15	-11.9
19.84	74.08	-0.046	74.126	0.534	-6.15	-11.9
19.86	73.87	-0.273	74.143	0.534	-6.15	-11.9
19.87	73.87	-0.236	74.106	0.534	-6.15	-11.8
19.89	74.01	-0.108	74.118	0.534	-6.16	-11.8
19.91	74.03	-0.108	74.138	0.534	-6.16	-11.9

19.92	73.99	-0.152	74.142	0.533	-6.16	-11.9
19.94	73.87	-0.244	74.114	0.533	-6.16	-11.8
19.96	73.99	-0.126	74.116	0.533	-6.17	-11.8
19.98	73.91	-0.208	74.118	0.533	-6.17	-11.8
19.99	73.95	-0.188	74.138	0.533	-6.17	-11.8
20.01	73.81	-0.341	74.151	0.532	-6.17	-11.9
20.03	73.97	-0.183	74.153	0.532	-6.18	-11.9
20.04	73.99	-0.173	74.163	0.532	-6.18	-11.9
20.06	73.95	-0.219	74.169	0.532	-6.18	-11.9
20.08	74.01	-0.138	74.148	0.532	-6.18	-11.8
20.09	74.05	-0.114	74.164	0.531	-6.18	-11.9
20.11	73.95	-0.217	74.167	0.531	-6.19	-11.9
20.13	73.93	-0.233	74.163	0.531	-6.19	-11.9
20.15	73.89	-0.268	74.158	0.531	-6.19	-11.8
20.16	73.93	-0.247	74.177	0.531	-6.19	-11.9
20.18	74.03	-0.152	74.182	0.531	-6.2	-11.9
20.2	73.91	-0.234	74.144	0.53	-6.2	-11.8
20.21	73.95	-0.216	74.166	0.53	-6.2	-11.8
20.23	74.01	-0.17	74.18	0.53	-6.2	-11.9
20.25	73.85	-0.324	74.174	0.53	-6.21	-11.8
20.26	74.01	-0.183	74.193	0.53	-6.21	-11.9
20.28	74.01	-0.195	74.205	0.529	-6.21	-11.9
20.3	74.03	-0.164	74.194	0.529	-6.21	-11.9
20.32	73.87	-0.323	74.193	0.529	-6.21	-11.9
20.33	73.99	-0.213	74.203	0.529	-6.22	-11.9
20.35	73.93	-0.28	74.21	0.529	-6.22	-11.9
20.37	73.95	-0.231	74.181	0.529	-6.22	-11.8
20.38	73.85	-0.313	74.163	0.528	-6.22	-11.8
20.4	74.18	-0.003	74.183	0.528	-6.23	-11.8
20.42	74.03	-0.173	74.203	0.528	-6.23	-11.9
20.43	73.99	-0.221	74.211	0.528	-6.23	-11.9
20.45	73.97	-0.246	74.216	0.528	-6.23	-11.9
20.47	74.05	-0.161	74.211	0.528	-6.24	-11.9
20.49	73.95	-0.235	74.185	0.527	-6.24	-11.8
20.5	73.87	-0.297	74.167	0.527	-6.24	-11.8
20.52	73.89	-0.287	74.177	0.527	-6.24	-11.8
20.54	73.93	-0.269	74.199	0.527	-6.24	-11.8
20.55	74.01	-0.214	74.224	0.527	-6.25	-11.9
20.57	73.93	-0.294	74.224	0.527	-6.25	-11.9
20.59	73.91	-0.309	74.219	0.526	-6.25	-11.8
20.6	74.07	-0.145	74.215	0.526	-6.25	-11.8
20.62	74.09	-0.145	74.235	0.526	-6.26	-11.9
20.64	74.01	-0.241	74.251	0.526	-6.26	-11.9
20.66	74.01	-0.24	74.25	0.526	-6.26	-11.9
20.67	74.14	-0.116	74.256	0.525	-6.26	-11.9
20.69	73.95	-0.269	74.219	0.525	-6.26	-11.8
20.71	73.95	-0.254	74.204	0.525	-6.27	-11.8

20.72	74.11	-0.119	74.229	0.525	-6.27	-11.8
20.74	73.97	-0.276	74.246	0.525	-6.27	-11.9
20.76	74.05	-0.19	74.24	0.525	-6.27	-11.8
20.77	74.05	-0.208	74.258	0.524	-6.28	-11.9
20.79	73.91	-0.326	74.236	0.524	-6.28	-11.8
20.81	74.2	-0.04	74.24	0.524	-6.28	-11.8
20.83	73.95	-0.285	74.235	0.524	-6.28	-11.8
20.84	74.14	-0.12	74.26	0.524	-6.28	-11.9
20.86	74.07	-0.201	74.271	0.524	-6.29	-11.9
20.88	73.99	-0.27	74.26	0.523	-6.29	-11.8
20.89	73.89	-0.386	74.276	0.523	-6.29	-11.9
20.91	74.09	-0.193	74.283	0.523	-6.29	-11.9
20.93	74.07	-0.221	74.291	0.523	-6.3	-11.9
20.94	74.11	-0.186	74.296	0.523	-6.3	-11.9
20.96	73.91	-0.347	74.257	0.523	-6.3	-11.8
20.98	74.01	-0.218	74.228	0.522	-6.3	-11.8
21	74.01	-0.237	74.247	0.522	-6.3	-11.8
21.01	74.12	-0.152	74.272	0.522	-6.31	-11.8
21.03	73.99	-0.261	74.251	0.522	-6.31	-11.8
21.05	74.18	-0.085	74.265	0.522	-6.31	-11.8
21.06	73.97	-0.268	74.238	0.522	-6.31	-11.8
21.08	74.11	-0.154	74.264	0.521	-6.31	-11.8
21.1	74.18	-0.117	74.297	0.521	-6.32	-11.9
21.11	73.99	-0.3	74.29	0.521	-6.32	-11.8
21.13	74.18	-0.113	74.293	0.521	-6.32	-11.8
21.15	74.05	-0.21	74.26	0.521	-6.32	-11.8
21.17	73.87	-0.4	74.27	0.521	-6.33	-11.8
21.18	74.03	-0.257	74.287	0.52	-6.33	-11.8
21.2	74.22	-0.081	74.301	0.52	-6.33	-11.8
21.22	74.18	-0.128	74.308	0.52	-6.33	-11.9
21.23	74.09	-0.224	74.314	0.52	-6.33	-11.9
21.25	73.89	-0.401	74.291	0.52	-6.34	-11.8
21.27	74.15	-0.151	74.301	0.52	-6.34	-11.8
21.28	74.03	-0.26	74.29	0.519	-6.34	-11.8
21.3	74.01	-0.271	74.281	0.519	-6.34	-11.8
21.32	74.18	-0.122	74.302	0.519	-6.34	-11.8
21.34	74.05	-0.273	74.323	0.519	-6.35	-11.9
21.35	74.2	-0.138	74.338	0.519	-6.35	-11.9
21.37	74.26	-0.079	74.339	0.518	-6.35	-11.9
21.39	74.14	-0.198	74.338	0.518	-6.35	-11.9
21.4	73.99	-0.307	74.297	0.518	-6.36	-11.8
21.42	74.03	-0.249	74.279	0.518	-6.36	-11.8
21.44	74.22	-0.094	74.314	0.518	-6.36	-11.8
21.45	74.09	-0.248	74.338	0.518	-6.36	-11.9
21.47	74.07	-0.278	74.348	0.518	-6.36	-11.9
21.49	73.95	-0.379	74.329	0.517	-6.37	-11.8
21.51	74.22	-0.127	74.347	0.517	-6.37	-11.9

21.52	74.03	-0.288	74.318	0.517	-6.37	-11.8
21.54	74.03	-0.296	74.326	0.517	-6.37	-11.8
21.56	74.16	-0.191	74.351	0.517	-6.37	-11.9
21.57	74.09	-0.252	74.342	0.517	-6.38	-11.8
21.59	74.18	-0.17	74.35	0.516	-6.38	-11.8
21.61	74.2	-0.171	74.371	0.516	-6.38	-11.9
21.62	74.15	-0.222	74.372	0.516	-6.38	-11.9
21.64	74.03	-0.34	74.37	0.516	-6.38	-11.9
21.66	74.13	-0.244	74.374	0.516	-6.39	-11.9
21.68	74.13	-0.253	74.383	0.516	-6.39	-11.9
21.69	73.91	-0.438	74.348	0.516	-6.39	-11.8
21.71	74.05	-0.277	74.327	0.515	-6.39	-11.8
21.73	74.16	-0.147	74.307	0.515	-6.39	-11.8
21.74	74.13	-0.213	74.343	0.515	-6.4	-11.8
21.76	74.05	-0.27	74.32	0.515	-6.4	-11.8
21.78	74.2	-0.135	74.335	0.515	-6.4	-11.8
21.79	74.22	-0.144	74.364	0.515	-6.4	-11.8
21.81	74.18	-0.195	74.375	0.514	-6.4	-11.8
21.83	74.26	-0.129	74.389	0.514	-6.41	-11.9
21.85	74.01	-0.358	74.368	0.514	-6.41	-11.8
21.86	73.95	-0.386	74.336	0.514	-6.41	-11.8
21.88	74.11	-0.248	74.358	0.514	-6.41	-11.8
21.9	74.18	-0.204	74.384	0.514	-6.41	-11.8
21.91	74.05	-0.329	74.379	0.514	-6.42	-11.8
21.93	74.01	-0.383	74.393	0.514	-6.42	-11.9
21.95	74.16	-0.2	74.36	0.513	-6.42	-11.8
21.96	74.24	-0.145	74.385	0.513	-6.42	-11.8
21.98	74.2	-0.205	74.405	0.513	-6.42	-11.9
22	74.13	-0.252	74.382	0.513	-6.43	-11.8
22.02	74.03	-0.332	74.362	0.513	-6.43	-11.8
22.03	74.32	-0.057	74.377	0.513	-6.43	-11.8
22.05	74.13	-0.254	74.384	0.512	-6.43	-11.8
22.07	74.32	-0.083	74.403	0.512	-6.43	-11.8
22.08	74.26	-0.161	74.421	0.512	-6.44	-11.9
22.1	74.09	-0.341	74.431	0.512	-6.44	-11.9
22.12	74.16	-0.276	74.436	0.512	-6.44	-11.9
22.13	74.26	-0.182	74.442	0.512	-6.44	-11.9
22.15	74.18	-0.266	74.446	0.511	-6.44	-11.9
22.17	74.24	-0.21	74.45	0.511	-6.45	-11.9
22.19	74.17	-0.275	74.445	0.511	-6.45	-11.9
22.2	74.09	-0.316	74.406	0.511	-6.45	-11.8
22.22	74.15	-0.253	74.403	0.511	-6.45	-11.8
22.24	74.13	-0.265	74.395	0.511	-6.45	-11.8
22.25	74.09	-0.294	74.384	0.511	-6.46	-11.8
22.27	74.03	-0.344	74.374	0.511	-6.46	-11.8
22.29	74.01	-0.386	74.396	0.51	-6.46	-11.8
22.3	74.18	-0.209	74.389	0.51	-6.46	-11.8

22.32	74.18	-0.222	74.402	0.51	-6.46	-11.8
22.34	74.16	-0.211	74.371	0.51	-6.47	-11.8
22.36	74.28	-0.11	74.39	0.51	-6.47	-11.8
22.37	74.3	-0.11	74.41	0.51	-6.47	-11.8
22.39	74.15	-0.279	74.429	0.509	-6.47	-11.8
22.41	74.36	-0.079	74.439	0.509	-6.47	-11.8
22.42	74.05	-0.361	74.411	0.509	-6.48	-11.8
22.44	74.15	-0.232	74.382	0.509	-6.48	-11.8
22.46	74.36	-0.04	74.4	0.509	-6.48	-11.8
22.47	74.24	-0.176	74.416	0.509	-6.48	-11.8
22.49	74.03	-0.392	74.422	0.509	-6.48	-11.8
22.51	74.18	-0.254	74.434	0.508	-6.49	-11.8
22.53	74.17	-0.271	74.441	0.508	-6.49	-11.8
22.54	74.17	-0.267	74.437	0.508	-6.49	-11.8
22.56	74.13	-0.319	74.449	0.508	-6.49	-11.8
22.58	74.3	-0.162	74.462	0.508	-6.49	-11.8
22.59	74.28	-0.173	74.453	0.508	-6.5	-11.8
22.61	74.26	-0.199	74.459	0.508	-6.5	-11.8
22.63	74.22	-0.223	74.443	0.507	-6.5	-11.8
22.64	74.3	-0.145	74.445	0.507	-6.5	-11.8
22.66	74.19	-0.265	74.455	0.507	-6.5	-11.8
22.68	74.26	-0.212	74.472	0.507	-6.51	-11.8
22.7	74.24	-0.238	74.478	0.507	-6.51	-11.8
22.71	74.07	-0.411	74.481	0.507	-6.51	-11.8
22.73	74.2	-0.234	74.434	0.507	-6.51	-11.8
22.75	74.03	-0.381	74.411	0.506	-6.51	-11.8
22.76	74.13	-0.291	74.421	0.506	-6.51	-11.8
22.78	74.2	-0.227	74.427	0.506	-6.52	-11.8
22.8	74.15	-0.296	74.446	0.506	-6.52	-11.8
22.81	74.09	-0.363	74.453	0.506	-6.52	-11.8
22.83	74.22	-0.23	74.45	0.506	-6.52	-11.8
22.85	74.24	-0.22	74.46	0.506	-6.52	-11.8
22.87	74.22	-0.255	74.475	0.506	-6.53	-11.8
22.88	74.11	-0.362	74.472	0.505	-6.53	-11.8
22.9	74.24	-0.239	74.479	0.505	-6.53	-11.8
22.92	74.28	-0.214	74.494	0.505	-6.53	-11.8
22.93	74.28	-0.21	74.49	0.505	-6.53	-11.8
22.95	74.03	-0.435	74.465	0.505	-6.54	-11.8
22.97	74.11	-0.321	74.431	0.505	-6.54	-11.8
22.98	74.09	-0.366	74.456	0.505	-6.54	-11.8
23	74.19	-0.295	74.485	0.505	-6.54	-11.8
23.02	74.17	-0.313	74.483	0.504	-6.54	-11.8
23.04	74.13	-0.345	74.475	0.504	-6.54	-11.8
23.05	74.23	-0.247	74.477	0.504	-6.55	-11.8
23.07	74.28	-0.202	74.482	0.504	-6.55	-11.8
23.09	73.99	-0.466	74.456	0.504	-6.55	-11.8
23.1	74.24	-0.187	74.427	0.504	-6.55	-11.8

23.12	74.13	-0.323	74.453	0.504	-6.55	-11.8
23.14	73.82	-0.651	74.471	0.504	-6.56	-11.8
23.15	74.28	-0.206	74.486	0.504	-6.56	-11.8
23.17	74.17	-0.316	74.486	0.504	-6.56	-11.8
23.19	74.28	-0.209	74.489	0.504	-6.56	-11.8
23.21	74.11	-0.389	74.499	0.503	-6.56	-11.8
23.22	74.4	-0.106	74.506	0.503	-6.57	-11.8
23.24	74.07	-0.398	74.468	0.503	-6.57	-11.8
23.26	74.22	-0.215	74.435	0.503	-6.57	-11.8
23.27	74.24	-0.221	74.461	0.503	-6.57	-11.8
23.29	74.42	-0.063	74.483	0.503	-6.57	-11.8
23.31	74.17	-0.311	74.481	0.503	-6.57	-11.8
23.32	74.07	-0.388	74.458	0.503	-6.58	-11.8
23.34	74.26	-0.214	74.474	0.502	-6.58	-11.8
23.36	74.34	-0.156	74.496	0.502	-6.58	-11.8
23.38	74.3	-0.205	74.505	0.502	-6.58	-11.8
23.39	74.09	-0.381	74.471	0.502	-6.58	-11.8
23.41	74.19	-0.292	74.482	0.502	-6.58	-11.8
23.43	74.32	-0.194	74.514	0.502	-6.59	-11.8
23.44	74.34	-0.182	74.522	0.502	-6.59	-11.8
23.46	74.26	-0.225	74.485	0.501	-6.59	-11.8
23.48	74.17	-0.306	74.476	0.501	-6.59	-11.8
23.49	74.15	-0.344	74.494	0.501	-6.59	-11.8
23.51	74.34	-0.171	74.511	0.501	-6.6	-11.8
23.53	74.11	-0.363	74.473	0.501	-6.6	-11.8
23.55	74.24	-0.247	74.487	0.501	-6.6	-11.8
23.56	74.26	-0.238	74.498	0.501	-6.6	-11.8
23.58	74.52	-0.002	74.522	0.5	-6.6	-11.8
23.6	74.28	-0.255	74.535	0.5	-6.6	-11.8
23.61	74.15	-0.358	74.508	0.5	-6.61	-11.8
23.63	74.26	-0.245	74.505	0.5	-6.61	-11.8
23.65	74.17	-0.354	74.524	0.5	-6.61	-11.8
23.66	74.2	-0.305	74.505	0.5	-6.61	-11.8
23.68	74.22	-0.276	74.496	0.5	-6.61	-11.8
23.7	74.15	-0.314	74.464	0.5	-6.61	-11.8
23.72	74.19	-0.278	74.468	0.5	-6.62	-11.8
23.73	74.09	-0.37	74.46	0.499	-6.62	-11.8
23.75	74.11	-0.37	74.48	0.499	-6.62	-11.8
23.77	74.26	-0.235	74.495	0.499	-6.62	-11.8
23.78	74.28	-0.222	74.502	0.499	-6.62	-11.8
23.8	74.32	-0.192	74.512	0.499	-6.63	-11.8
23.82	74.3	-0.216	74.516	0.499	-6.63	-11.8
23.83	74.3	-0.228	74.528	0.499	-6.63	-11.8
23.85	74.32	-0.205	74.525	0.499	-6.63	-11.8
23.87	74.34	-0.196	74.536	0.498	-6.63	-11.8
23.89	74.17	-0.332	74.502	0.498	-6.63	-11.8
23.9	74.2	-0.278	74.478	0.498	-6.64	-11.8

23.92	74.22	-0.275	74.495	0.498	-6.64	-11.8
23.94	74.3	-0.216	74.516	0.498	-6.64	-11.8
23.95	74.3	-0.218	74.518	0.498	-6.64	-11.8
23.97	74.3	-0.211	74.511	0.498	-6.64	-11.8
23.99	74.24	-0.265	74.505	0.497	-6.64	-11.8
24	74.32	-0.204	74.524	0.497	-6.65	-11.8
24.02	74.26	-0.281	74.541	0.497	-6.65	-11.8
24.04	74.36	-0.181	74.541	0.497	-6.65	-11.8
24.06	74.2	-0.308	74.508	0.497	-6.65	-11.8
24.07	74.24	-0.249	74.489	0.497	-6.65	-11.8
24.09	74.26	-0.239	74.499	0.497	-6.65	-11.8
24.11	74.26	-0.248	74.508	0.497	-6.66	-11.8
24.12	74.32	-0.21	74.53	0.496	-6.66	-11.8
24.14	74.26	-0.268	74.528	0.496	-6.66	-11.8
24.16	74.28	-0.268	74.548	0.496	-6.66	-11.8
24.17	74.38	-0.178	74.558	0.496	-6.66	-11.8
24.19	74.32	-0.239	74.559	0.496	-6.66	-11.8
24.21	74.34	-0.224	74.564	0.496	-6.67	-11.8
24.23	74.22	-0.317	74.537	0.496	-6.67	-11.8
24.24	74.4	-0.144	74.544	0.495	-6.67	-11.8
24.26	74.38	-0.188	74.568	0.495	-6.67	-11.8
24.28	74.38	-0.188	74.568	0.495	-6.67	-11.8
24.29	74.17	-0.396	74.566	0.495	-6.67	-11.8
24.31	74.42	-0.159	74.579	0.495	-6.68	-11.8
24.33	74.15	-0.429	74.579	0.495	-6.68	-11.8
24.34	74.26	-0.314	74.574	0.495	-6.68	-11.8
24.36	74.28	-0.3	74.58	0.495	-6.68	-11.8
24.38	72.84	-0.915	73.755	0.495	-6.68	-11.4
24.4	72.62	-0.451	73.071	0.495	-6.68	-11
24.41	72.5	-0.152	72.652	0.495	-6.69	-10.7
24.43	72.56	0.219	72.341	0.495	-6.69	-10.5
24.45	72.66	0.567	72.093	0.495	-6.69	-10.4
24.46	72.68	0.801	71.879	0.495	-6.69	-10.2
24.48	72.6	0.919	71.681	0.496	-6.69	-10.1
24.5	72.54	1.054	71.486	0.496	-6.69	-9.97
24.51	72.7	1.368	71.332	0.497	-6.69	-9.86
24.53	72.5	1.319	71.181	0.498	-6.7	-9.76
24.55	72.6	1.547	71.053	0.5	-6.7	-9.66
24.57	71.93	1.01	70.92	0.5	-6.7	-9.57
24.58	71.68	0.875	70.805	0.501	-6.7	-9.49
24.6	71.48	0.797	70.683	0.501	-6.7	-9.4
24.62	71.45	0.864	70.586	0.501	-6.7	-9.32
24.63	71.39	0.912	70.478	0.502	-6.7	-9.24
24.65	71.41	1.018	70.392	0.502	-6.7	-9.17
24.67	71.35	1.033	70.317	0.503	-6.7	-9.11
24.68	71.31	1.073	70.237	0.503	-6.7	-9.04
24.7	71.09	0.935	70.155	0.504	-6.7	-8.97

24.72	71.27	1.186	70.084	0.505	-6.7	-8.91
24.74	71.07	1.059	70.011	0.505	-6.7	-8.85
24.75	71.01	1.063	69.947	0.506	-6.7	-8.79
24.77	70.78	0.909	69.871	0.506	-6.7	-8.73
24.79	70.72	0.918	69.802	0.507	-6.69	-8.67
24.8	70.64	0.904	69.736	0.507	-6.69	-8.61
24.82	70.6	0.911	69.689	0.507	-6.69	-8.56
24.84	70.44	0.817	69.623	0.508	-6.69	-8.5
24.85	70.4	0.84	69.56	0.508	-6.68	-8.45
24.87	70.36	0.86	69.5	0.508	-6.68	-8.39
24.89	70.44	0.981	69.459	0.509	-6.68	-8.35
24.91	70.34	0.929	69.411	0.509	-6.67	-8.3
24.92	70.36	0.985	69.375	0.51	-6.67	-8.26
24.94	70.17	0.847	69.323	0.51	-6.66	-8.22
24.96	70.03	0.758	69.272	0.51	-6.66	-8.17
24.97	70.11	0.867	69.243	0.51	-6.65	-8.13
24.99	70.11	0.898	69.212	0.511	-6.65	-8.1
25.01	69.99	0.832	69.158	0.511	-6.64	-8.05
25.02	69.95	0.834	69.116	0.511	-6.64	-8.01
25.04	69.95	0.861	69.089	0.512	-6.63	-7.98
25.06	69.78	0.72	69.06	0.512	-6.63	-7.95
25.08	69.9	0.871	69.029	0.512	-6.62	-7.91
25.09	69.78	0.786	68.994	0.512	-6.62	-7.88
25.11	69.84	0.875	68.965	0.513	-6.61	-7.85
25.13	69.68	0.754	68.926	0.513	-6.6	-7.81
25.14	69.68	0.783	68.897	0.513	-6.6	-7.78
25.16	69.64	0.769	68.871	0.513	-6.59	-7.75
25.18	69.63	0.789	68.841	0.514	-6.58	-7.72
25.19	69.53	0.715	68.815	0.514	-6.58	-7.7
25.21	69.47	0.684	68.786	0.514	-6.57	-7.67
25.23	69.55	0.787	68.763	0.514	-6.56	-7.64
25.25	69.39	0.663	68.727	0.514	-6.56	-7.61
25.26	69.47	0.768	68.702	0.515	-6.55	-7.59
25.28	69.41	0.729	68.681	0.515	-6.54	-7.56
25.3	69.45	0.787	68.663	0.515	-6.54	-7.54
25.31	69.33	0.693	68.637	0.515	-6.53	-7.52
25.33	69.33	0.715	68.615	0.515	-6.52	-7.5
25.35	69.23	0.634	68.596	0.515	-6.52	-7.48
25.36	69.25	0.677	68.573	0.515	-6.51	-7.45
25.38	69.23	0.681	68.549	0.516	-6.5	-7.43
25.4	69.23	0.702	68.528	0.516	-6.5	-7.41
25.42	69.19	0.683	68.507	0.516	-6.49	-7.39
25.43	69.19	0.699	68.491	0.516	-6.48	-7.37
25.45	69.11	0.643	68.467	0.516	-6.48	-7.35
25.47	69.05	0.603	68.447	0.516	-6.47	-7.34
25.48	69.01	0.593	68.417	0.516	-6.46	-7.31
25.5	68.97	0.583	68.387	0.516	-6.46	-7.29

25.52	68.95	0.584	68.366	0.516	-6.45	-7.27
25.53	69.07	0.711	68.359	0.516	-6.44	-7.26
25.55	69.03	0.683	68.347	0.517	-6.43	-7.24
25.57	68.91	0.587	68.323	0.517	-6.43	-7.23
25.59	69.01	0.696	68.314	0.517	-6.42	-7.21
25.6	68.99	0.686	68.304	0.517	-6.41	-7.2
25.62	68.91	0.623	68.287	0.517	-6.41	-7.19
25.64	68.89	0.618	68.272	0.517	-6.4	-7.17
25.65	68.91	0.65	68.26	0.517	-6.39	-7.16
25.67	68.83	0.587	68.243	0.517	-6.39	-7.15
25.69	68.77	0.544	68.226	0.517	-6.38	-7.13
25.7	68.83	0.619	68.211	0.517	-6.37	-7.12
25.72	68.75	0.556	68.194	0.517	-6.37	-7.11
25.74	68.75	0.571	68.179	0.517	-6.36	-7.09
25.76	68.78	0.609	68.171	0.517	-6.35	-7.09
25.77	68.68	0.534	68.146	0.517	-6.35	-7.07
25.79	68.7	0.568	68.132	0.517	-6.34	-7.06
25.81	68.72	0.598	68.122	0.518	-6.33	-7.05
25.82	68.7	0.587	68.113	0.518	-6.33	-7.04
25.84	68.58	0.48	68.1	0.518	-6.32	-7.03
25.86	68.56	0.474	68.086	0.518	-6.32	-7.02
25.87	68.52	0.443	68.077	0.518	-6.31	-7.01
25.89	68.58	0.515	68.065	0.518	-6.3	-7
25.91	68.52	0.477	68.043	0.517	-6.3	-6.98
25.93	68.46	0.437	68.023	0.517	-6.29	-6.97
25.94	68.48	0.471	68.009	0.517	-6.28	-6.96
25.96	68.44	0.437	68.003	0.517	-6.28	-6.95
25.98	68.48	0.488	67.992	0.517	-6.27	-6.95
25.99	68.54	0.557	67.983	0.517	-6.27	-6.94
26.01	68.6	0.622	67.978	0.517	-6.26	-6.93
26.03	68.52	0.548	67.972	0.517	-6.25	-6.93
26.04	68.42	0.464	67.956	0.517	-6.25	-6.92
26.06	68.48	0.531	67.949	0.517	-6.24	-6.91
26.08	68.3	0.358	67.942	0.517	-6.24	-6.91
26.1	68.36	0.426	67.934	0.517	-6.23	-6.9
26.11	68.38	0.458	67.922	0.517	-6.22	-6.89
26.13	68.38	0.467	67.913	0.517	-6.22	-6.88
26.15	68.34	0.447	67.893	0.517	-6.21	-6.87
26.16	68.3	0.413	67.887	0.517	-6.21	-6.87
26.18	68.32	0.439	67.881	0.517	-6.2	-6.86
26.2	68.26	0.4	67.86	0.517	-6.2	-6.85
26.21	68.24	0.39	67.85	0.517	-6.19	-6.84
26.23	68.36	0.513	67.847	0.517	-6.18	-6.84
26.25	68.21	0.372	67.838	0.517	-6.18	-6.83
26.27	68.2	0.374	67.826	0.517	-6.17	-6.83
26.28	68.21	0.389	67.821	0.517	-6.17	-6.82
26.3	68.13	0.317	67.813	0.517	-6.16	-6.82

26.32	68.26	0.452	67.808	0.517	-6.16	-6.81
26.33	68.23	0.427	67.803	0.517	-6.15	-6.81
26.35	69.69	1.043	68.647	0.517	-6.15	-7.25
26.37	69.87	0.538	69.332	0.517	-6.14	-7.64
26.38	69.95	0.217	69.733	0.517	-6.14	-7.88
26.4	69.81	-0.234	70.044	0.517	-6.13	-8.07
26.42	69.95	-0.333	70.283	0.517	-6.12	-8.23
26.44	69.83	-0.671	70.501	0.517	-6.12	-8.37
26.45	69.71	-0.994	70.704	0.517	-6.11	-8.5
26.47	69.91	-0.978	70.888	0.518	-6.11	-8.62
26.49	69.79	-1.262	71.052	0.518	-6.1	-8.73
26.5	69.73	-1.443	71.173	0.52	-6.1	-8.82
26.52	69.95	-1.365	71.315	0.521	-6.09	-8.92
26.54	70.48	-0.968	71.448	0.521	-6.09	-9.01
26.55	70.69	-0.883	71.573	0.521	-6.09	-9.1
26.57	70.87	-0.809	71.679	0.522	-6.08	-9.18
26.59	70.79	-0.965	71.755	0.522	-6.08	-9.24
26.61	71.05	-0.795	71.845	0.522	-6.07	-9.31
26.62	70.93	-1.015	71.945	0.523	-6.07	-9.39
26.64	70.89	-1.126	72.016	0.523	-6.07	-9.45
26.66	71.09	-1.012	72.102	0.524	-6.06	-9.52
26.67	71.27	-0.928	72.198	0.524	-6.06	-9.59
26.69	71.11	-1.176	72.286	0.525	-6.06	-9.66
26.71	71.17	-1.188	72.358	0.525	-6.06	-9.73
26.72	71.37	-1.044	72.414	0.526	-6.06	-9.78
26.74	71.3	-1.189	72.489	0.527	-6.06	-9.84
26.76	71.4	-1.136	72.536	0.527	-6.06	-9.89
26.78	71.54	-1.061	72.601	0.528	-6.06	-9.95
26.79	71.69	-0.954	72.644	0.528	-6.06	-9.99
26.81	71.71	-0.987	72.697	0.529	-6.06	-10
26.83	71.81	-0.943	72.753	0.529	-6.06	-10.1
26.84	71.75	-1.037	72.787	0.529	-6.06	-10.1
26.86	71.73	-1.128	72.858	0.53	-6.06	-10.2
26.88	71.81	-1.109	72.919	0.531	-6.06	-10.2
26.89	71.87	-1.104	72.974	0.531	-6.06	-10.3
26.91	71.87	-1.147	73.017	0.532	-6.06	-10.3
26.93	71.91	-1.146	73.056	0.532	-6.07	-10.4
26.95	72.02	-1.076	73.096	0.533	-6.07	-10.4
26.96	71.98	-1.132	73.112	0.533	-6.07	-10.5
26.98	72.14	-1	73.14	0.534	-6.07	-10.5
27	72.18	-1.017	73.197	0.534	-6.08	-10.5
27.01	72.16	-1.086	73.246	0.535	-6.08	-10.6
27.03	72.28	-1.004	73.284	0.535	-6.08	-10.6
27.05	72.28	-1.046	73.326	0.536	-6.09	-10.7
27.06	72.35	-1.006	73.356	0.536	-6.09	-10.7
27.08	72.28	-1.096	73.376	0.537	-6.09	-10.7
27.1	72.41	-0.972	73.382	0.537	-6.1	-10.7

27.12	72.41	-0.984	73.394	0.537	-6.1	-10.7
27.13	72.51	-0.928	73.438	0.538	-6.11	-10.8
27.15	72.55	-0.939	73.489	0.538	-6.11	-10.8
27.17	72.59	-0.936	73.526	0.538	-6.12	-10.9
27.18	72.59	-0.956	73.546	0.539	-6.12	-10.9
27.2	72.65	-0.925	73.575	0.539	-6.12	-10.9
27.22	72.57	-1.036	73.606	0.54	-6.13	-10.9
27.23	72.71	-0.924	73.634	0.54	-6.13	-11
27.25	72.67	-0.989	73.659	0.54	-6.14	-11
27.27	72.84	-0.849	73.689	0.541	-6.14	-11
27.29	72.71	-1.005	73.715	0.541	-6.15	-11
27.3	72.65	-1.091	73.741	0.541	-6.15	-11.1
27.32	72.79	-0.959	73.749	0.542	-6.16	-11.1
27.34	72.9	-0.865	73.765	0.542	-6.16	-11.1
27.35	72.79	-0.999	73.789	0.543	-6.17	-11.1
27.37	72.92	-0.882	73.802	0.543	-6.17	-11.1
27.39	72.88	-0.949	73.829	0.543	-6.18	-11.2
27.4	72.81	-1.037	73.847	0.544	-6.19	-11.2
27.42	72.94	-0.926	73.866	0.544	-6.19	-11.2
27.44	72.77	-1.094	73.864	0.544	-6.2	-11.2
27.46	72.94	-0.945	73.885	0.545	-6.2	-11.2
27.47	72.91	-0.992	73.902	0.545	-6.21	-11.2
27.49	72.98	-0.935	73.915	0.545	-6.21	-11.3
27.51	73.06	-0.878	73.938	0.546	-6.22	-11.3
27.52	73.12	-0.836	73.956	0.546	-6.22	-11.3
27.54	73.06	-0.912	73.972	0.546	-6.23	-11.3
27.56	72.89	-1.091	73.981	0.547	-6.23	-11.3
27.57	73.1	-0.893	73.993	0.547	-6.24	-11.3
27.59	72.87	-1.1	73.97	0.548	-6.24	-11.3
27.61	72.95	-1.049	73.999	0.548	-6.25	-11.4
27.63	73.1	-0.914	74.014	0.548	-6.26	-11.4
27.64	73	-1.036	74.036	0.549	-6.26	-11.4
27.66	73.18	-0.877	74.057	0.549	-6.27	-11.4
27.68	73.12	-0.936	74.056	0.549	-6.27	-11.4
27.69	73.02	-1.025	74.045	0.55	-6.28	-11.4
27.71	73.08	-0.976	74.056	0.55	-6.28	-11.4
27.73	73.26	-0.795	74.055	0.55	-6.29	-11.4
27.74	73.24	-0.832	74.072	0.551	-6.29	-11.4
27.76	73.16	-0.937	74.097	0.551	-6.3	-11.4
27.78	73.22	-0.876	74.096	0.551	-6.3	-11.4
27.8	73.18	-0.919	74.099	0.551	-6.31	-11.5
27.81	73.16	-0.938	74.098	0.552	-6.31	-11.5
27.83	73.22	-0.884	74.104	0.552	-6.32	-11.5
27.85	73.23	-0.91	74.14	0.552	-6.33	-11.5
27.86	73.39	-0.777	74.167	0.552	-6.33	-11.5
27.88	73.23	-0.949	74.179	0.553	-6.34	-11.5
27.9	73.34	-0.847	74.187	0.553	-6.34	-11.5

27.91	73.42	-0.771	74.191	0.553	-6.35	-11.5
27.93	73.16	-1.045	74.205	0.554	-6.35	-11.5
27.95	73.18	-1.03	74.21	0.554	-6.36	-11.5
27.97	73.25	-0.969	74.219	0.554	-6.36	-11.5
27.98	73.31	-0.922	74.232	0.555	-6.37	-11.6
28	73.33	-0.912	74.242	0.555	-6.37	-11.6
28.02	73.41	-0.828	74.238	0.555	-6.38	-11.6
28.03	73.39	-0.824	74.214	0.555	-6.38	-11.6
28.05	73.47	-0.76	74.23	0.555	-6.39	-11.6
28.07	73.45	-0.772	74.222	0.556	-6.39	-11.6
28.08	73.56	-0.677	74.237	0.556	-6.4	-11.6
28.1	73.33	-0.916	74.246	0.556	-6.4	-11.6
28.12	73.45	-0.783	74.233	0.556	-6.41	-11.6
28.14	73.37	-0.887	74.257	0.556	-6.41	-11.6
28.15	73.29	-0.95	74.24	0.557	-6.42	-11.6
28.17	73.52	-0.74	74.26	0.557	-6.42	-11.6
28.19	73.33	-0.908	74.238	0.557	-6.42	-11.6
28.2	73.51	-0.726	74.236	0.557	-6.43	-11.6
28.22	73.43	-0.831	74.261	0.557	-6.43	-11.6
28.24	73.48	-0.784	74.264	0.558	-6.44	-11.6
28.25	73.29	-0.949	74.239	0.558	-6.44	-11.6
28.27	73.47	-0.788	74.258	0.558	-6.45	-11.6
28.29	73.5	-0.786	74.286	0.558	-6.45	-11.6
28.31	73.56	-0.732	74.292	0.558	-6.46	-11.6
28.32	73.38	-0.891	74.271	0.559	-6.46	-11.6
28.34	73.56	-0.726	74.286	0.559	-6.47	-11.6
28.36	73.6	-0.699	74.299	0.559	-6.47	-11.6
28.37	73.58	-0.704	74.284	0.559	-6.47	-11.6
28.39	73.6	-0.693	74.293	0.559	-6.48	-11.6
28.41	73.56	-0.742	74.302	0.559	-6.48	-11.6
28.42	73.49	-0.799	74.289	0.559	-6.49	-11.6
28.44	73.6	-0.698	74.298	0.559	-6.49	-11.6
28.46	73.68	-0.622	74.302	0.56	-6.5	-11.6
28.48	73.5	-0.789	74.289	0.56	-6.5	-11.6
28.49	73.85	-0.454	74.304	0.56	-6.5	-11.6
28.51	73.6	-0.736	74.336	0.56	-6.51	-11.6
28.53	73.48	-0.844	74.324	0.56	-6.51	-11.6
28.54	73.6	-0.687	74.287	0.56	-6.52	-11.6
28.56	73.75	-0.56	74.31	0.56	-6.52	-11.6
28.58	73.44	-0.865	74.305	0.56	-6.53	-11.6
28.59	73.72	-0.606	74.326	0.56	-6.53	-11.6
28.61	73.68	-0.665	74.345	0.56	-6.53	-11.6
28.63	73.64	-0.699	74.339	0.56	-6.54	-11.6
28.65	73.7	-0.615	74.315	0.56	-6.54	-11.6
28.66	73.74	-0.594	74.334	0.561	-6.54	-11.6
28.68	73.74	-0.611	74.351	0.561	-6.55	-11.6
28.7	73.62	-0.733	74.353	0.561	-6.55	-11.6

28.71	73.64	-0.717	74.357	0.561	-6.56	-11.6
28.73	73.68	-0.67	74.35	0.561	-6.56	-11.6
28.75	73.66	-0.702	74.362	0.561	-6.56	-11.6
28.76	73.52	-0.83	74.35	0.561	-6.57	-11.6
28.78	73.79	-0.578	74.368	0.561	-6.57	-11.6
28.8	73.74	-0.632	74.372	0.561	-6.58	-11.6
28.82	73.93	-0.439	74.369	0.561	-6.58	-11.6
28.83	73.6	-0.752	74.352	0.561	-6.58	-11.6
28.85	73.83	-0.532	74.362	0.561	-6.59	-11.6
28.87	73.83	-0.554	74.384	0.561	-6.59	-11.6
28.88	73.7	-0.66	74.36	0.561	-6.59	-11.6
28.9	73.7	-0.665	74.365	0.561	-6.6	-11.6
28.92	73.8	-0.573	74.373	0.561	-6.6	-11.6
28.93	73.68	-0.665	74.345	0.561	-6.6	-11.6
28.95	73.78	-0.578	74.358	0.561	-6.61	-11.6
28.97	73.83	-0.535	74.365	0.561	-6.61	-11.6
28.99	73.64	-0.73	74.37	0.562	-6.61	-11.6
29	73.85	-0.508	74.358	0.562	-6.62	-11.6
29.02	73.64	-0.69	74.33	0.562	-6.62	-11.6
29.04	73.7	-0.619	74.319	0.562	-6.62	-11.6
29.05	73.72	-0.628	74.348	0.562	-6.63	-11.6
29.07	73.93	-0.441	74.371	0.562	-6.63	-11.6
29.09	73.89	-0.486	74.376	0.562	-6.63	-11.6
29.1	73.89	-0.473	74.363	0.562	-6.64	-11.6
29.12	73.91	-0.459	74.369	0.561	-6.64	-11.6
29.14	73.87	-0.503	74.373	0.561	-6.64	-11.6
29.16	73.87	-0.525	74.395	0.561	-6.65	-11.6
29.17	73.72	-0.689	74.409	0.561	-6.65	-11.6
29.19	73.83	-0.574	74.404	0.561	-6.65	-11.6
29.21	73.83	-0.58	74.41	0.562	-6.66	-11.6
29.22	73.97	-0.453	74.423	0.561	-6.66	-11.6
29.24	74.05	-0.372	74.422	0.561	-6.66	-11.6
29.26	73.87	-0.558	74.428	0.561	-6.67	-11.6
29.27	73.89	-0.536	74.426	0.561	-6.67	-11.6
29.29	73.93	-0.497	74.427	0.561	-6.67	-11.6
29.31	73.89	-0.537	74.427	0.561	-6.67	-11.6
29.33	73.91	-0.529	74.439	0.561	-6.68	-11.6
29.34	73.78	-0.665	74.445	0.561	-6.68	-11.6
29.36	73.95	-0.488	74.438	0.561	-6.68	-11.6
29.38	74.14	-0.305	74.445	0.561	-6.69	-11.6
29.39	73.97	-0.496	74.466	0.561	-6.69	-11.6
29.41	74.03	-0.449	74.479	0.561	-6.69	-11.6
29.43	73.97	-0.497	74.467	0.561	-6.7	-11.6
29.44	74.1	-0.363	74.463	0.561	-6.7	-11.6
29.46	74.05	-0.429	74.479	0.561	-6.7	-11.6
29.48	73.85	-0.59	74.44	0.561	-6.7	-11.6
29.5	74.05	-0.394	74.444	0.561	-6.71	-11.6

29.51	74.26	-0.194	74.454	0.561	-6.71	-11.6
29.53	73.91	-0.561	74.471	0.561	-6.71	-11.6
29.55	74.01	-0.48	74.49	0.561	-6.71	-11.6
29.56	74.26	-0.245	74.505	0.561	-6.72	-11.7
29.58	73.95	-0.534	74.484	0.56	-6.72	-11.6
29.6	73.85	-0.605	74.455	0.561	-6.72	-11.6
29.61	73.91	-0.553	74.463	0.561	-6.73	-11.6
29.63	73.95	-0.519	74.469	0.56	-6.73	-11.6
29.65	73.79	-0.659	74.449	0.561	-6.73	-11.6
29.67	73.87	-0.584	74.454	0.561	-6.73	-11.6
29.68	74.07	-0.411	74.481	0.56	-6.74	-11.6
29.7	74.01	-0.486	74.496	0.56	-6.74	-11.6
29.72	74.12	-0.392	74.512	0.56	-6.74	-11.6
29.73	74.1	-0.404	74.504	0.56	-6.75	-11.6
29.75	74.05	-0.453	74.503	0.56	-6.75	-11.6
29.77	74.03	-0.469	74.499	0.56	-6.75	-11.6
29.78	74.05	-0.45	74.5	0.56	-6.75	-11.6
29.8	72.48	-1.192	73.672	0.561	-6.76	-11.2
29.82	72.34	-0.652	72.992	0.561	-6.76	-10.8
29.84	72.42	-0.173	72.593	0.561	-6.76	-10.6
29.85	72.18	-0.103	72.283	0.56	-6.76	-10.4
29.87	72.28	0.254	72.026	0.56	-6.77	-10.2
29.89	72.28	0.472	71.808	0.56	-6.77	-10.1
29.9	72.34	0.72	71.62	0.56	-6.77	-9.95
29.92	72.46	1.012	71.448	0.561	-6.77	-9.83
29.94	72.32	1.032	71.288	0.561	-6.78	-9.72
29.95	72.4	1.251	71.149	0.562	-6.78	-9.62
29.97	72.3	1.285	71.015	0.562	-6.78	-9.53
29.99	71.85	0.956	70.894	0.563	-6.78	-9.44
30.01	71.49	0.712	70.778	0.563	-6.79	-9.36
30.02	71.33	0.657	70.673	0.563	-6.79	-9.28
30.04	71.25	0.677	70.573	0.563	-6.79	-9.2
30.06	71.05	0.577	70.473	0.563	-6.79	-9.12
30.07	70.99	0.628	70.362	0.563	-6.79	-9.04
30.09	70.97	0.707	70.263	0.563	-6.79	-8.96
30.11	70.99	0.804	70.186	0.563	-6.79	-8.9
30.12	71.01	0.893	70.117	0.564	-6.79	-8.84
30.14	70.82	0.786	70.034	0.564	-6.79	-8.77
30.16	70.8	0.837	69.963	0.564	-6.79	-8.71
30.18	70.84	0.938	69.902	0.564	-6.79	-8.65
30.19	70.64	0.798	69.842	0.564	-6.79	-8.59
30.21	70.46	0.696	69.764	0.564	-6.79	-8.53
30.23	70.44	0.734	69.706	0.564	-6.79	-8.47
30.24	70.44	0.78	69.66	0.565	-6.79	-8.43
30.26	70.36	0.749	69.611	0.565	-6.78	-8.38
30.28	70.33	0.769	69.561	0.565	-6.78	-8.33
30.29	70.25	0.736	69.514	0.565	-6.78	-8.28

30.31	70.25	0.783	69.467	0.565	-6.77	-8.24
30.33	70.21	0.789	69.421	0.565	-6.77	-8.19
30.35	70.17	0.791	69.379	0.565	-6.77	-8.15
30.36	70.01	0.672	69.338	0.566	-6.76	-8.11
30.38	69.95	0.654	69.296	0.566	-6.76	-8.07
30.4	69.99	0.733	69.257	0.566	-6.76	-8.03
30.41	70.01	0.791	69.219	0.566	-6.75	-7.99
30.43	69.86	0.679	69.181	0.566	-6.75	-7.95
30.45	69.68	0.551	69.129	0.566	-6.74	-7.9
30.46	69.72	0.639	69.081	0.566	-6.74	-7.86
30.48	69.68	0.633	69.047	0.566	-6.73	-7.82
30.5	69.55	0.541	69.009	0.566	-6.73	-7.79
30.52	69.55	0.575	68.975	0.566	-6.72	-7.75
30.53	69.53	0.577	68.953	0.566	-6.72	-7.72
30.55	69.67	0.742	68.928	0.566	-6.71	-7.7
30.57	69.51	0.607	68.903	0.566	-6.71	-7.67
30.58	69.63	0.752	68.878	0.566	-6.7	-7.64
30.6	69.51	0.655	68.855	0.566	-6.69	-7.61
30.62	69.31	0.494	68.816	0.566	-6.69	-7.58
30.63	69.43	0.642	68.788	0.566	-6.68	-7.55
30.65	69.33	0.561	68.769	0.566	-6.68	-7.53
30.67	69.27	0.532	68.738	0.566	-6.67	-7.5
30.69	69.29	0.576	68.714	0.566	-6.67	-7.48
30.7	69.17	0.475	68.695	0.566	-6.66	-7.45
30.72	69.23	0.556	68.674	0.566	-6.65	-7.43
30.74	69.13	0.479	68.651	0.566	-6.65	-7.41
30.75	69.21	0.578	68.632	0.566	-6.64	-7.39
30.77	69.09	0.495	68.595	0.566	-6.63	-7.36
30.79	69.17	0.589	68.581	0.566	-6.63	-7.34
30.8	68.97	0.401	68.569	0.566	-6.62	-7.33
30.82	69.07	0.518	68.552	0.566	-6.62	-7.31
30.84	69.01	0.488	68.522	0.566	-6.61	-7.28
30.86	69.09	0.586	68.504	0.566	-6.6	-7.26
30.87	69.01	0.521	68.489	0.566	-6.6	-7.25
30.89	68.83	0.37	68.46	0.566	-6.59	-7.22
30.91	68.83	0.4	68.43	0.566	-6.58	-7.2
30.92	68.93	0.508	68.422	0.566	-6.58	-7.19
30.94	68.91	0.498	68.412	0.566	-6.57	-7.18
30.96	68.75	0.363	68.387	0.566	-6.56	-7.16
30.97	68.95	0.572	68.378	0.566	-6.56	-7.14
30.99	68.71	0.354	68.356	0.566	-6.55	-7.13
31.01	68.75	0.409	68.341	0.566	-6.55	-7.11
31.03	68.7	0.381	68.319	0.565	-6.54	-7.09
31.04	68.83	0.518	68.312	0.565	-6.53	-7.08
31.06	68.68	0.385	68.295	0.565	-6.53	-7.07
31.08	68.66	0.379	68.281	0.565	-6.52	-7.06
31.09	68.78	0.51	68.27	0.565	-6.51	-7.04

31.11	68.74	0.48	68.26	0.565	-6.51	-7.03
31.13	68.62	0.374	68.246	0.565	-6.5	-7.02
31.14	68.52	0.285	68.235	0.565	-6.5	-7.01
31.16	68.62	0.4	68.22	0.565	-6.49	-7
31.18	68.68	0.47	68.21	0.565	-6.48	-6.99
31.2	68.5	0.304	68.196	0.565	-6.48	-6.98
31.21	68.5	0.318	68.182	0.565	-6.47	-6.97
31.23	68.54	0.366	68.174	0.565	-6.47	-6.96
31.25	68.58	0.414	68.166	0.564	-6.46	-6.95
31.26	68.5	0.348	68.152	0.564	-6.45	-6.94
31.28	68.56	0.418	68.142	0.564	-6.45	-6.93
31.3	68.56	0.427	68.133	0.564	-6.44	-6.92
31.31	68.44	0.323	68.117	0.564	-6.44	-6.91
31.33	68.42	0.321	68.099	0.564	-6.43	-6.9
31.35	68.34	0.263	68.077	0.564	-6.43	-6.88
31.37	68.44	0.371	68.069	0.564	-6.42	-6.87
31.38	68.38	0.323	68.057	0.564	-6.41	-6.87
31.4	68.44	0.387	68.053	0.564	-6.41	-6.86
31.42	68.4	0.359	68.041	0.564	-6.4	-6.85
31.43	68.34	0.307	68.033	0.563	-6.4	-6.84
31.45	68.32	0.301	68.019	0.563	-6.39	-6.83
31.47	68.4	0.388	68.012	0.563	-6.39	-6.83
31.48	68.3	0.297	68.003	0.563	-6.38	-6.82
31.5	68.36	0.367	67.993	0.563	-6.37	-6.81
31.52	68.22	0.247	67.973	0.563	-6.37	-6.8
31.54	68.22	0.249	67.971	0.563	-6.36	-6.8
31.55	68.24	0.276	67.964	0.563	-6.36	-6.79
31.57	68.15	0.192	67.958	0.563	-6.35	-6.79
31.59	68.13	0.179	67.951	0.562	-6.35	-6.78
31.6	68.15	0.219	67.931	0.562	-6.34	-6.77
31.62	68.11	0.185	67.925	0.562	-6.34	-6.77
31.64	68.29	0.371	67.919	0.562	-6.33	-6.76
31.65	68.07	0.165	67.905	0.562	-6.33	-6.75
31.67	68.15	0.248	67.902	0.562	-6.32	-6.75
31.69	68.23	0.331	67.899	0.562	-6.32	-6.75
31.71	68.09	0.197	67.893	0.562	-6.31	-6.74
31.72	68.09	0.208	67.882	0.561	-6.31	-6.74
31.74	68.17	0.295	67.875	0.561	-6.3	-6.73
31.76	68.01	0.156	67.854	0.561	-6.3	-6.72
31.77	68.15	0.3	67.85	0.561	-6.29	-6.71
31.79	68.09	0.24	67.85	0.561	-6.29	-6.71
31.81	67.99	0.148	67.842	0.561	-6.28	-6.71
31.82	67.99	0.16	67.83	0.561	-6.28	-6.7
31.84	68.05	0.227	67.823	0.561	-6.27	-6.7
31.86	67.91	0.106	67.804	0.56	-6.27	-6.69
31.88	67.99	0.188	67.802	0.56	-6.26	-6.68
31.89	67.95	0.152	67.798	0.56	-6.26	-6.68

31.91	67.99	0.199	67.791	0.56	-6.25	-6.68
31.93	68.03	0.247	67.783	0.56	-6.25	-6.67
31.94	67.83	0.052	67.778	0.56	-6.24	-6.67
31.96	67.93	0.153	67.777	0.56	-6.24	-6.67
31.98	67.95	0.176	67.774	0.559	-6.24	-6.67
31.99	67.85	0.088	67.762	0.559	-6.23	-6.66
32.01	67.95	0.194	67.756	0.559	-6.23	-6.66
32.03	68.01	0.256	67.754	0.559	-6.22	-6.65
32.05	67.93	0.181	67.749	0.559	-6.22	-6.65
32.06	67.95	0.207	67.743	0.559	-6.21	-6.65
32.08	67.81	0.075	67.735	0.559	-6.21	-6.64
32.1	67.81	0.081	67.729	0.559	-6.2	-6.64
32.11	67.85	0.136	67.714	0.558	-6.2	-6.63
32.13	67.81	0.099	67.711	0.558	-6.2	-6.63
32.15	67.85	0.139	67.711	0.558	-6.19	-6.63
32.16	67.83	0.126	67.704	0.558	-6.19	-6.63
32.18	67.79	0.094	67.696	0.558	-6.18	-6.62
32.2	67.85	0.158	67.692	0.558	-6.18	-6.62
32.22	67.85	0.163	67.687	0.558	-6.17	-6.62
32.23	67.85	0.171	67.679	0.557	-6.17	-6.61
32.25	67.73	0.062	67.668	0.557	-6.17	-6.61
32.27	67.89	0.222	67.668	0.557	-6.16	-6.61
32.28	67.85	0.186	67.664	0.557	-6.16	-6.61
32.3	67.79	0.128	67.662	0.557	-6.15	-6.6
32.32	67.74	0.082	67.658	0.557	-6.15	-6.6
32.33	67.68	0.028	67.652	0.557	-6.15	-6.6
32.35	67.72	0.076	67.644	0.556	-6.14	-6.6
32.37	67.68	0.042	67.638	0.556	-6.14	-6.59
32.39	67.72	0.088	67.632	0.556	-6.14	-6.59
32.4	67.81	0.181	67.629	0.556	-6.13	-6.59
32.42	67.77	0.146	67.624	0.556	-6.13	-6.59
32.44	67.7	0.078	67.622	0.556	-6.12	-6.58
32.45	67.56	-0.047	67.607	0.556	-6.12	-6.58
32.47	67.66	0.06	67.6	0.555	-6.12	-6.57
32.49	67.74	0.143	67.597	0.555	-6.11	-6.57
32.5	67.74	0.143	67.597	0.555	-6.11	-6.57
32.52	67.68	0.085	67.595	0.555	-6.11	-6.57
32.54	67.64	0.049	67.591	0.555	-6.1	-6.57
32.55	67.64	0.057	67.583	0.555	-6.1	-6.57
32.57	67.6	0.029	67.571	0.555	-6.09	-6.56
32.59	67.52	-0.034	67.554	0.554	-6.09	-6.55
32.61	67.56	0.005	67.555	0.554	-6.09	-6.55
32.62	67.6	0.044	67.556	0.554	-6.08	-6.55
32.64	67.56	0.009	67.551	0.554	-6.08	-6.55
32.66	67.6	0.053	67.547	0.554	-6.08	-6.55
32.67	67.58	0.037	67.543	0.554	-6.07	-6.55
32.69	67.54	0.001	67.539	0.554	-6.07	-6.55

32.71	67.56	0.03	67.53	0.553	-6.07	-6.54
32.73	67.44	-0.077	67.517	0.553	-6.06	-6.53
32.74	67.58	0.062	67.518	0.553	-6.06	-6.54
32.76	67.54	0.02	67.52	0.553	-6.06	-6.54
32.78	67.56	0.052	67.508	0.553	-6.05	-6.53
32.79	67.5	-0.004	67.504	0.553	-6.05	-6.53
32.81	67.56	0.058	67.502	0.553	-6.05	-6.53
32.83	67.44	-0.062	67.502	0.552	-6.04	-6.53
32.84	67.44	-0.058	67.498	0.552	-6.04	-6.53
32.86	67.5	0.003	67.497	0.552	-6.04	-6.53
32.88	67.44	-0.052	67.492	0.552	-6.03	-6.53
32.9	67.52	0.031	67.489	0.552	-6.03	-6.52
32.91	67.56	0.077	67.483	0.552	-6.03	-6.52
32.93	67.54	0.062	67.478	0.552	-6.02	-6.52
32.95	67.6	0.128	67.472	0.551	-6.02	-6.52
32.96	67.48	0.01	67.47	0.551	-6.02	-6.52
32.98	67.38	-0.089	67.469	0.551	-6.01	-6.52
33	67.36	-0.097	67.457	0.551	-6.01	-6.51
33.01	67.56	0.103	67.457	0.551	-6.01	-6.51
33.03	67.33	-0.127	67.457	0.551	-6.01	-6.51
33.05	67.36	-0.094	67.454	0.551	-6	-6.51
33.07	67.46	0.009	67.451	0.551	-6	-6.51
33.08	67.36	-0.085	67.445	0.55	-6	-6.51
33.1	67.48	0.036	67.444	0.55	-5.99	-6.51
33.12	67.36	-0.077	67.437	0.55	-5.99	-6.5
33.13	67.3	-0.134	67.434	0.55	-5.99	-6.5
33.15	67.5	0.066	67.434	0.55	-5.98	-6.5
33.17	67.42	-0.01	67.43	0.55	-5.98	-6.5
33.18	67.34	-0.08	67.42	0.55	-5.98	-6.5
33.2	67.23	-0.177	67.407	0.549	-5.98	-6.49
33.22	67.36	-0.049	67.409	0.549	-5.97	-6.49
33.23	67.52	0.107	67.413	0.549	-5.97	-6.49
33.25	67.23	-0.182	67.412	0.549	-5.97	-6.49
33.27	67.38	-0.03	67.41	0.549	-5.97	-6.49
33.29	67.36	-0.046	67.406	0.549	-5.96	-6.49
33.3	67.4	-0.002	67.402	0.549	-5.96	-6.49
33.32	67.32	-0.079	67.399	0.548	-5.96	-6.49
33.34	67.38	-0.015	67.395	0.548	-5.95	-6.49
33.35	67.3	-0.078	67.378	0.548	-5.95	-6.48
33.37	67.38	0.004	67.376	0.548	-5.95	-6.48
33.39	67.26	-0.107	67.367	0.548	-5.95	-6.48
33.41	67.38	0.015	67.365	0.548	-5.94	-6.48
33.42	67.38	0.012	67.368	0.548	-5.94	-6.48
33.44	67.23	-0.139	67.369	0.548	-5.94	-6.48
33.46	67.25	-0.114	67.364	0.547	-5.94	-6.48
33.47	67.21	-0.141	67.351	0.547	-5.93	-6.47
33.49	67.21	-0.141	67.351	0.547	-5.93	-6.47

33.51	67.19	-0.16	67.35	0.547	-5.93	-6.47
33.52	67.19	-0.151	67.341	0.547	-5.93	-6.47
33.54	67.23	-0.097	67.327	0.547	-5.92	-6.46
33.56	67.32	-0.009	67.329	0.547	-5.92	-6.46
33.58	67.28	-0.054	67.334	0.546	-5.92	-6.46
33.59	67.23	-0.098	67.328	0.546	-5.92	-6.46
33.61	67.34	0.017	67.323	0.546	-5.91	-6.46
33.63	67.28	-0.044	67.324	0.546	-5.91	-6.46
33.64	67.28	-0.041	67.321	0.546	-5.91	-6.46
33.66	67.19	-0.131	67.321	0.546	-5.91	-6.46
33.68	67.21	-0.111	67.321	0.546	-5.9	-6.46
33.69	67.19	-0.115	67.305	0.546	-5.9	-6.45
33.71	67.17	-0.122	67.292	0.545	-5.9	-6.45
33.73	67.17	-0.126	67.296	0.545	-5.9	-6.45
33.75	67.19	-0.105	67.295	0.545	-5.89	-6.45
33.76	67.13	-0.166	67.296	0.545	-5.89	-6.45
33.78	67.11	-0.185	67.295	0.545	-5.89	-6.45
33.8	67.13	-0.163	67.293	0.545	-5.89	-6.45
33.81	67.3	0.011	67.289	0.545	-5.88	-6.45
33.83	67.21	-0.077	67.287	0.544	-5.88	-6.45
33.85	67.19	-0.092	67.282	0.544	-5.88	-6.45
33.86	67.19	-0.093	67.283	0.544	-5.88	-6.45
33.88	67.19	-0.092	67.282	0.544	-5.87	-6.45
33.9	67.15	-0.122	67.272	0.544	-5.87	-6.44
33.91	67.15	-0.117	67.267	0.544	-5.87	-6.44
33.93	67.13	-0.135	67.265	0.544	-5.87	-6.44
33.95	67.17	-0.096	67.266	0.544	-5.87	-6.44
33.97	67.19	-0.078	67.268	0.543	-5.86	-6.44
33.98	67.15	-0.113	67.263	0.543	-5.86	-6.44
34	67.22	-0.031	67.251	0.543	-5.86	-6.43
34.02	67.24	-0.006	67.246	0.543	-5.86	-6.43
34.03	67.05	-0.199	67.249	0.543	-5.85	-6.43
34.05	67.11	-0.135	67.245	0.543	-5.85	-6.43
34.07	67.09	-0.156	67.246	0.543	-5.85	-6.43
34.09	67.11	-0.138	67.248	0.543	-5.85	-6.44
34.1	67.13	-0.115	67.245	0.542	-5.85	-6.43
34.12	67.11	-0.123	67.233	0.542	-5.84	-6.43
34.14	67.03	-0.192	67.222	0.542	-5.84	-6.42
34.15	67.11	-0.113	67.223	0.542	-5.84	-6.42
34.17	67.15	-0.079	67.229	0.542	-5.84	-6.43
34.19	66.93	-0.3	67.23	0.542	-5.83	-6.43
34.2	67.03	-0.195	67.225	0.542	-5.83	-6.43
34.22	67.05	-0.175	67.225	0.542	-5.83	-6.43
34.24	66.95	-0.265	67.215	0.541	-5.83	-6.42
34.26	67.09	-0.115	67.205	0.541	-5.83	-6.42
34.27	67.01	-0.189	67.199	0.541	-5.82	-6.42
34.29	67.05	-0.153	67.203	0.541	-5.82	-6.42

34.31	67.05	-0.15	67.2	0.541	-5.82	-6.42
34.32	67.13	-0.069	67.199	0.541	-5.82	-6.42
34.34	67.03	-0.171	67.201	0.541	-5.82	-6.42
34.36	67.01	-0.178	67.188	0.541	-5.81	-6.41
34.37	67.09	-0.087	67.177	0.54	-5.81	-6.41
34.39	66.91	-0.272	67.182	0.54	-5.81	-6.41
34.41	66.97	-0.203	67.173	0.54	-5.81	-6.41
34.43	67.01	-0.163	67.173	0.54	-5.81	-6.41
34.44	66.95	-0.214	67.164	0.54	-5.8	-6.4
34.46	67.05	-0.116	67.166	0.54	-5.8	-6.4
34.48	66.97	-0.192	67.162	0.54	-5.8	-6.4
34.49	66.99	-0.178	67.168	0.54	-5.8	-6.41
34.51	67.03	-0.143	67.173	0.54	-5.8	-6.41
34.53	67.03	-0.145	67.175	0.539	-5.79	-6.41
34.54	67.05	-0.122	67.172	0.539	-5.79	-6.41
34.56	67.03	-0.139	67.169	0.539	-5.79	-6.41
34.58	67.01	-0.144	67.154	0.539	-5.79	-6.4
34.6	66.95	-0.206	67.156	0.539	-5.79	-6.4
34.61	67.03	-0.122	67.152	0.539	-5.79	-6.4
34.63	67.01	-0.145	67.155	0.539	-5.78	-6.4
34.65	66.95	-0.203	67.153	0.539	-5.78	-6.4
34.66	67.03	-0.117	67.147	0.538	-5.78	-6.4
34.68	66.89	-0.258	67.148	0.538	-5.78	-6.4
34.7	66.99	-0.16	67.15	0.538	-5.78	-6.4
34.71	66.87	-0.281	67.151	0.538	-5.77	-6.4
34.73	67.05	-0.099	67.149	0.538	-5.77	-6.4
34.75	67.01	-0.137	67.147	0.538	-5.77	-6.4
34.77	67.07	-0.078	67.148	0.538	-5.77	-6.4
34.78	66.95	-0.193	67.143	0.538	-5.77	-6.4
34.8	67.03	-0.109	67.139	0.538	-5.77	-6.4
34.82	66.95	-0.19	67.14	0.537	-5.76	-6.4
34.83	66.97	-0.17	67.14	0.537	-5.76	-6.4
34.85	67.01	-0.129	67.139	0.537	-5.76	-6.4
34.87	66.91	-0.228	67.138	0.537	-5.76	-6.4
34.88	66.91	-0.224	67.134	0.537	-5.76	-6.4
34.9	67.14	0.01	67.13	0.537	-5.75	-6.4
34.92	66.87	-0.261	67.131	0.537	-5.75	-6.4
34.94	66.89	-0.239	67.129	0.537	-5.75	-6.4
34.95	66.93	-0.197	67.127	0.536	-5.75	-6.4
34.97	67.05	-0.079	67.129	0.536	-5.75	-6.4
34.99	66.93	-0.188	67.118	0.536	-5.75	-6.4
35	66.91	-0.202	67.112	0.536	-5.74	-6.39
35.02	66.81	-0.293	67.103	0.536	-5.74	-6.39
35.04	66.89	-0.214	67.104	0.536	-5.74	-6.39
35.05	66.97	-0.139	67.109	0.536	-5.74	-6.39
35.07	66.97	-0.139	67.109	0.536	-5.74	-6.39
35.09	66.99	-0.122	67.112	0.536	-5.74	-6.4

35.11	66.99	-0.119	67.109	0.535	-5.73	-6.4
35.12	66.91	-0.185	67.095	0.535	-5.73	-6.39
35.14	67.01	-0.077	67.087	0.535	-5.73	-6.39
35.16	66.79	-0.288	67.078	0.535	-5.73	-6.38
35.17	66.95	-0.132	67.082	0.535	-5.73	-6.38
35.19	66.91	-0.177	67.087	0.535	-5.73	-6.39
35.21	66.93	-0.158	67.088	0.535	-5.72	-6.39
35.22	66.89	-0.199	67.089	0.535	-5.72	-6.39
35.24	66.95	-0.136	67.086	0.535	-5.72	-6.39
35.26	66.87	-0.208	67.078	0.534	-5.72	-6.38
35.28	66.81	-0.27	67.08	0.534	-5.72	-6.39
35.29	66.83	-0.24	67.07	0.534	-5.72	-6.38
35.31	66.87	-0.202	67.072	0.534	-5.72	-6.38
35.33	66.97	-0.106	67.076	0.534	-5.71	-6.38
35.34	66.93	-0.145	67.075	0.534	-5.71	-6.38
35.36	66.79	-0.271	67.061	0.534	-5.71	-6.38
35.38	66.81	-0.246	67.056	0.534	-5.71	-6.38
35.39	66.99	-0.074	67.064	0.534	-5.71	-6.38
35.41	66.89	-0.172	67.062	0.533	-5.71	-6.38
35.43	66.83	-0.225	67.055	0.533	-5.7	-6.38
35.45	66.89	-0.165	67.055	0.533	-5.7	-6.38
35.46	66.83	-0.226	67.056	0.533	-5.7	-6.38
35.48	66.87	-0.189	67.059	0.533	-5.7	-6.38
35.5	66.75	-0.31	67.06	0.533	-5.7	-6.38
35.51	66.89	-0.167	67.057	0.533	-5.7	-6.38
35.53	66.85	-0.209	67.059	0.533	-5.7	-6.38
35.55	66.97	-0.092	67.062	0.533	-5.69	-6.38
35.56	66.85	-0.198	67.048	0.532	-5.69	-6.38
35.58	66.95	-0.101	67.051	0.532	-5.69	-6.38
35.6	66.87	-0.181	67.051	0.532	-5.69	-6.38
35.62	66.85	-0.204	67.054	0.532	-5.69	-6.38
35.63	66.83	-0.221	67.051	0.532	-5.69	-6.38
35.65	66.89	-0.159	67.049	0.532	-5.69	-6.38
35.67	66.89	-0.157	67.047	0.532	-5.68	-6.38
35.68	66.89	-0.155	67.045	0.532	-5.68	-6.38
35.7	66.77	-0.266	67.036	0.532	-5.68	-6.38
35.72	66.81	-0.225	67.035	0.531	-5.68	-6.38
35.73	66.87	-0.166	67.036	0.531	-5.68	-6.38
35.75	66.79	-0.239	67.029	0.531	-5.68	-6.37
35.77	66.75	-0.281	67.031	0.531	-5.68	-6.37
35.79	66.87	-0.167	67.037	0.531	-5.67	-6.38
35.8	66.91	-0.13	67.04	0.531	-5.67	-6.38
35.82	66.64	-0.39	67.03	0.531	-5.67	-6.38
35.84	66.75	-0.281	67.031	0.531	-5.67	-6.38
35.85	66.81	-0.217	67.027	0.531	-5.67	-6.38
35.87	66.72	-0.307	67.027	0.531	-5.67	-6.38
35.89	66.83	-0.195	67.025	0.53	-5.67	-6.38

35.9	66.79	-0.236	67.026	0.53	-5.67	-6.38
35.92	66.83	-0.194	67.024	0.53	-5.66	-6.38
35.94	66.73	-0.295	67.025	0.53	-5.66	-6.38
35.96	66.79	-0.228	67.018	0.53	-5.66	-6.37
35.97	66.77	-0.248	67.018	0.53	-5.66	-6.37
35.99	66.73	-0.286	67.016	0.53	-5.66	-6.37
36.01	66.68	-0.328	67.008	0.53	-5.66	-6.37
36.02	66.66	-0.349	67.009	0.53	-5.66	-6.37
36.04	66.71	-0.293	67.003	0.53	-5.65	-6.37
36.06	66.73	-0.273	67.003	0.53	-5.65	-6.37
36.07	66.83	-0.171	67.001	0.529	-5.65	-6.37
36.09	66.77	-0.233	67.003	0.529	-5.65	-6.37
36.11	66.77	-0.235	67.005	0.529	-5.65	-6.37
36.13	66.79	-0.203	66.993	0.529	-5.65	-6.36
36.14	66.71	-0.284	66.994	0.529	-5.65	-6.37
36.16	66.83	-0.166	66.996	0.529	-5.65	-6.37
36.18	66.79	-0.21	67	0.529	-5.64	-6.37
36.19	66.77	-0.231	67.001	0.529	-5.64	-6.37
36.21	66.73	-0.268	66.998	0.529	-5.64	-6.37
36.23	66.79	-0.207	66.997	0.529	-5.64	-6.37
36.24	66.81	-0.189	66.999	0.528	-5.64	-6.37
36.26	66.81	-0.189	66.999	0.528	-5.64	-6.37
36.28	66.77	-0.225	66.995	0.528	-5.64	-6.37
36.3	66.77	-0.222	66.992	0.528	-5.64	-6.37
36.31	66.73	-0.263	66.993	0.528	-5.64	-6.37
36.33	66.66	-0.321	66.981	0.528	-5.63	-6.36
36.35	66.69	-0.283	66.973	0.528	-5.63	-6.36
36.36	66.81	-0.167	66.977	0.528	-5.63	-6.36
36.38	66.71	-0.27	66.98	0.528	-5.63	-6.36
36.4	66.71	-0.273	66.983	0.528	-5.63	-6.37
36.41	66.79	-0.191	66.981	0.527	-5.63	-6.37
36.43	66.66	-0.319	66.979	0.527	-5.63	-6.37
36.45	66.73	-0.252	66.982	0.527	-5.63	-6.37
36.47	66.71	-0.273	66.983	0.527	-5.62	-6.37
36.48	66.69	-0.284	66.974	0.527	-5.62	-6.36
36.5	66.66	-0.309	66.969	0.527	-5.62	-6.36
36.52	66.75	-0.215	66.965	0.527	-5.62	-6.36
36.53	66.73	-0.241	66.971	0.527	-5.62	-6.36
36.55	66.66	-0.305	66.965	0.527	-5.62	-6.36
36.57	66.73	-0.236	66.966	0.527	-5.62	-6.36
36.58	66.77	-0.194	66.964	0.527	-5.62	-6.36
36.6	66.71	-0.243	66.953	0.526	-5.62	-6.36
36.62	66.73	-0.226	66.956	0.526	-5.61	-6.36
36.64	66.58	-0.381	66.961	0.526	-5.61	-6.36
36.65	66.83	-0.135	66.965	0.526	-5.61	-6.36
36.67	66.77	-0.198	66.968	0.526	-5.61	-6.37
36.69	66.71	-0.258	66.968	0.526	-5.61	-6.37

36.7	66.77	-0.199	66.969	0.526	-5.61	-6.37
36.72	66.66	-0.301	66.961	0.526	-5.61	-6.36
36.74	66.56	-0.4	66.96	0.526	-5.61	-6.36
36.75	66.75	-0.21	66.96	0.526	-5.61	-6.36
36.77	66.71	-0.248	66.958	0.526	-5.6	-6.36
36.79	66.66	-0.3	66.96	0.525	-5.6	-6.37
36.8	66.71	-0.247	66.957	0.525	-5.6	-6.36
36.82	66.73	-0.215	66.945	0.525	-5.6	-6.36
36.84	66.68	-0.266	66.946	0.525	-5.6	-6.36
36.86	66.67	-0.28	66.95	0.525	-5.6	-6.36
36.87	66.69	-0.263	66.953	0.525	-5.6	-6.36
36.89	66.77	-0.181	66.951	0.525	-5.6	-6.36
36.91	66.54	-0.41	66.95	0.525	-5.6	-6.36
36.92	66.77	-0.182	66.952	0.525	-5.59	-6.36
36.94	66.69	-0.26	66.95	0.525	-5.59	-6.36
36.96	66.73	-0.211	66.941	0.525	-5.59	-6.36
36.98	66.69	-0.249	66.939	0.524	-5.59	-6.36
36.99	66.67	-0.269	66.939	0.524	-5.59	-6.36
37.01	66.58	-0.361	66.941	0.524	-5.59	-6.36
37.03	66.75	-0.194	66.944	0.524	-5.59	-6.36
37.04	66.58	-0.363	66.943	0.524	-5.59	-6.36
37.06	66.75	-0.191	66.941	0.524	-5.59	-6.36
37.08	66.75	-0.186	66.936	0.524	-5.59	-6.36
37.09	66.56	-0.377	66.937	0.524	-5.58	-6.36
37.11	66.71	-0.226	66.936	0.524	-5.58	-6.36
37.13	66.54	-0.387	66.927	0.524	-5.58	-6.36
37.15	66.62	-0.298	66.918	0.524	-5.58	-6.35
37.16	66.77	-0.152	66.922	0.524	-5.58	-6.35
37.18	66.65	-0.273	66.923	0.523	-5.58	-6.36
37.2	66.62	-0.306	66.926	0.523	-5.58	-6.36
37.21	66.62	-0.305	66.925	0.523	-5.58	-6.36
37.23	66.73	-0.187	66.917	0.523	-5.58	-6.35
37.25	66.67	-0.24	66.91	0.523	-5.58	-6.35
37.26	66.67	-0.242	66.912	0.523	-5.58	-6.35
37.28	66.71	-0.205	66.915	0.523	-5.57	-6.35
37.3	66.52	-0.395	66.915	0.523	-5.57	-6.35
37.32	66.79	-0.128	66.918	0.523	-5.57	-6.36
37.33	66.64	-0.271	66.911	0.523	-5.57	-6.35
37.35	66.64	-0.271	66.911	0.523	-5.57	-6.35
37.37	66.64	-0.269	66.909	0.522	-5.57	-6.35
37.38	66.54	-0.372	66.912	0.522	-5.57	-6.35
37.4	66.67	-0.246	66.916	0.522	-5.57	-6.36
37.42	66.46	-0.442	66.902	0.522	-5.57	-6.35
37.43	66.67	-0.23	66.9	0.522	-5.57	-6.35
37.45	66.64	-0.267	66.907	0.522	-5.56	-6.35
37.47	66.58	-0.326	66.906	0.522	-5.56	-6.35
37.48	66.6	-0.293	66.893	0.522	-5.56	-6.35

37.5	66.69	-0.204	66.894	0.522	-5.56	-6.35
37.52	66.71	-0.186	66.896	0.522	-5.56	-6.35
37.54	66.73	-0.161	66.891	0.522	-5.56	-6.35
37.55	66.67	-0.226	66.896	0.522	-5.56	-6.35
37.57	66.67	-0.226	66.896	0.521	-5.56	-6.35
37.59	66.52	-0.367	66.887	0.521	-5.56	-6.34
37.6	66.54	-0.349	66.889	0.521	-5.56	-6.35
37.62	66.65	-0.242	66.892	0.521	-5.56	-6.35
37.64	66.52	-0.362	66.882	0.521	-5.56	-6.34
37.66	66.6	-0.284	66.884	0.521	-5.55	-6.34
37.67	66.62	-0.266	66.886	0.521	-5.55	-6.34
37.69	66.52	-0.366	66.886	0.521	-5.55	-6.35
37.71	66.54	-0.337	66.877	0.521	-5.55	-6.34
37.72	66.6	-0.279	66.879	0.521	-5.55	-6.34
37.74	66.54	-0.342	66.882	0.521	-5.55	-6.34
37.76	66.69	-0.192	66.882	0.521	-5.55	-6.34
37.77	66.52	-0.35	66.87	0.521	-5.55	-6.34
37.79	66.6	-0.266	66.866	0.52	-5.55	-6.34
37.81	66.69	-0.181	66.871	0.52	-5.55	-6.34
37.83	66.67	-0.207	66.877	0.52	-5.55	-6.34
37.84	66.46	-0.419	66.879	0.52	-5.54	-6.34
37.86	66.62	-0.262	66.882	0.52	-5.54	-6.35
37.88	66.5	-0.384	66.884	0.52	-5.54	-6.35
37.89	66.6	-0.282	66.882	0.52	-5.54	-6.35
37.91	66.65	-0.231	66.881	0.52	-5.54	-6.35
37.93	66.6	-0.273	66.873	0.52	-5.54	-6.34
37.94	66.6	-0.276	66.876	0.52	-5.54	-6.34
37.96	66.69	-0.184	66.874	0.52	-5.54	-6.34
37.98	66.52	-0.352	66.872	0.52	-5.54	-6.34
38	66.52	-0.349	66.869	0.52	-5.54	-6.34
38.01	66.5	-0.37	66.87	0.519	-5.54	-6.34
38.03	66.65	-0.221	66.871	0.519	-5.54	-6.34
38.05	66.63	-0.241	66.871	0.519	-5.53	-6.34
38.06	66.48	-0.389	66.869	0.519	-5.53	-6.34
38.08	66.5	-0.355	66.855	0.519	-5.53	-6.34
38.1	66.56	-0.296	66.856	0.519	-5.53	-6.34
38.11	66.54	-0.317	66.857	0.519	-5.53	-6.34
38.13	66.58	-0.279	66.859	0.519	-5.53	-6.34
38.15	66.56	-0.3	66.86	0.519	-5.53	-6.34
38.17	66.52	-0.337	66.857	0.519	-5.53	-6.34
38.18	66.5	-0.357	66.857	0.519	-5.53	-6.34
38.2	66.71	-0.147	66.857	0.519	-5.53	-6.34
38.22	66.46	-0.399	66.859	0.519	-5.53	-6.34
38.23	66.5	-0.361	66.861	0.519	-5.53	-6.34
38.25	66.54	-0.32	66.86	0.518	-5.53	-6.34
38.27	66.5	-0.361	66.861	0.518	-5.52	-6.34
38.28	66.67	-0.194	66.864	0.518	-5.52	-6.35

38.3	66.48	-0.383	66.863	0.518	-5.52	-6.35
38.32	66.52	-0.334	66.854	0.518	-5.52	-6.34
38.34	66.63	-0.222	66.852	0.518	-5.52	-6.34
38.35	66.48	-0.376	66.856	0.518	-5.52	-6.34
38.37	66.6	-0.256	66.856	0.518	-5.52	-6.34
38.39	66.56	-0.29	66.85	0.518	-5.52	-6.34
38.4	66.52	-0.323	66.843	0.518	-5.52	-6.34
38.42	66.52	-0.327	66.847	0.518	-5.52	-6.34
38.44	66.5	-0.34	66.84	0.518	-5.52	-6.34
38.45	66.54	-0.301	66.841	0.518	-5.52	-6.34
38.47	66.46	-0.373	66.833	0.518	-5.52	-6.33
38.49	66.54	-0.294	66.834	0.517	-5.51	-6.33
38.51	66.52	-0.306	66.826	0.517	-5.51	-6.33
38.52	66.63	-0.198	66.828	0.517	-5.51	-6.33
38.54	66.67	-0.161	66.831	0.517	-5.51	-6.33
38.56	66.42	-0.415	66.835	0.517	-5.51	-6.33
38.57	66.48	-0.355	66.835	0.517	-5.51	-6.33
38.59	66.56	-0.272	66.832	0.517	-5.51	-6.33
38.61	66.56	-0.275	66.835	0.517	-5.51	-6.33
38.62	66.54	-0.296	66.836	0.517	-5.51	-6.34
38.64	66.6	-0.24	66.84	0.517	-5.51	-6.34
38.66	66.63	-0.213	66.843	0.517	-5.51	-6.34
38.68	66.54	-0.299	66.839	0.517	-5.51	-6.34
38.69	66.48	-0.356	66.836	0.516	-5.51	-6.34
38.71	66.44	-0.398	66.838	0.516	-5.51	-6.34
38.73	66.48	-0.356	66.836	0.516	-5.5	-6.34
38.74	66.46	-0.374	66.834	0.516	-5.5	-6.34
38.76	66.44	-0.392	66.832	0.516	-5.5	-6.34
38.78	66.46	-0.373	66.833	0.516	-5.5	-6.34
38.79	66.5	-0.333	66.833	0.516	-5.5	-6.34
38.81	66.56	-0.27	66.83	0.516	-5.5	-6.34
38.83	66.44	-0.381	66.821	0.516	-5.5	-6.33
38.85	66.48	-0.333	66.813	0.516	-5.5	-6.33
38.86	66.52	-0.297	66.817	0.516	-5.5	-6.33
38.88	66.63	-0.194	66.824	0.516	-5.5	-6.33
38.9	66.48	-0.333	66.813	0.516	-5.5	-6.33
38.91	66.61	-0.204	66.814	0.516	-5.5	-6.33
38.93	66.5	-0.314	66.814	0.516	-5.5	-6.33
38.95	66.54	-0.269	66.809	0.515	-5.5	-6.33
38.96	66.5	-0.315	66.815	0.515	-5.49	-6.33
38.98	66.48	-0.337	66.817	0.515	-5.49	-6.33
39	66.48	-0.337	66.817	0.515	-5.49	-6.33
39.02	66.48	-0.34	66.82	0.515	-5.49	-6.33
39.03	66.52	-0.298	66.818	0.515	-5.49	-6.33
39.05	66.58	-0.237	66.817	0.515	-5.49	-6.33
39.07	66.52	-0.294	66.814	0.515	-5.49	-6.33
39.08	66.5	-0.317	66.817	0.515	-5.49	-6.33

39.1	66.2	-0.62	66.82	0.515	-5.49	-6.33
39.12	66.48	-0.327	66.807	0.515	-5.49	-6.33
39.13	66.5	-0.299	66.799	0.515	-5.49	-6.32
39.15	66.5	-0.304	66.804	0.515	-5.49	-6.33
39.17	66.63	-0.178	66.808	0.515	-5.49	-6.33
39.19	66.5	-0.313	66.813	0.515	-5.49	-6.33
39.2	66.56	-0.252	66.812	0.514	-5.49	-6.33
39.22	66.56	-0.247	66.807	0.514	-5.48	-6.33
39.24	66.5	-0.308	66.808	0.514	-5.48	-6.33
39.25	66.44	-0.359	66.799	0.514	-5.48	-6.33
39.27	66.56	-0.245	66.805	0.514	-5.48	-6.33
39.29	66.44	-0.357	66.797	0.514	-5.48	-6.33
39.3	66.48	-0.318	66.798	0.514	-5.48	-6.33
39.32	66.46	-0.342	66.802	0.514	-5.48	-6.33
39.34	66.46	-0.335	66.795	0.514	-5.48	-6.33
39.36	66.4	-0.398	66.798	0.514	-5.48	-6.33
39.37	66.44	-0.362	66.802	0.514	-5.48	-6.33
39.39	66.4	-0.402	66.802	0.514	-5.48	-6.33
39.41	66.4	-0.401	66.801	0.514	-5.48	-6.33
39.42	66.42	-0.384	66.804	0.514	-5.48	-6.33
39.44	66.52	-0.283	66.803	0.514	-5.48	-6.33
39.46	66.48	-0.325	66.805	0.514	-5.48	-6.33
39.47	66.52	-0.285	66.805	0.513	-5.48	-6.33
39.49	66.38	-0.426	66.806	0.513	-5.47	-6.33
39.51	66.48	-0.323	66.803	0.513	-5.47	-6.33
39.53	66.56	-0.241	66.801	0.513	-5.47	-6.33
39.54	66.5	-0.305	66.805	0.513	-5.47	-6.33
39.56	66.34	-0.452	66.792	0.513	-5.47	-6.33
39.58	66.46	-0.333	66.793	0.513	-5.47	-6.33
39.59	66.52	-0.276	66.796	0.513	-5.47	-6.33
39.61	66.46	-0.332	66.792	0.513	-5.47	-6.33
39.63	66.46	-0.325	66.785	0.513	-5.47	-6.32
39.64	66.5	-0.287	66.787	0.513	-5.47	-6.33
39.66	66.52	-0.271	66.791	0.513	-5.47	-6.33
39.68	66.48	-0.315	66.795	0.513	-5.47	-6.33
39.7	66.5	-0.293	66.793	0.513	-5.47	-6.33
39.71	66.46	-0.332	66.792	0.513	-5.47	-6.33
39.73	66.46	-0.321	66.781	0.513	-5.47	-6.32
39.75	66.42	-0.355	66.775	0.512	-5.47	-6.32
39.76	66.4	-0.38	66.78	0.512	-5.47	-6.32
39.78	66.44	-0.345	66.785	0.512	-5.47	-6.33
39.8	66.48	-0.304	66.784	0.512	-5.46	-6.33
39.81	66.38	-0.393	66.773	0.512	-5.46	-6.32
39.83	66.46	-0.315	66.775	0.512	-5.46	-6.32
39.85	66.48	-0.301	66.781	0.512	-5.46	-6.33
39.87	66.55	-0.222	66.772	0.512	-5.46	-6.32
39.88	66.48	-0.296	66.776	0.512	-5.46	-6.32

39.9	66.44	-0.329	66.769	0.512	-5.46	-6.32
39.92	66.46	-0.311	66.771	0.512	-5.46	-6.32
39.93	66.61	-0.167	66.777	0.512	-5.46	-6.32
39.95	66.5	-0.277	66.777	0.512	-5.46	-6.32
39.97	66.42	-0.356	66.776	0.512	-5.46	-6.32
39.98	66.28	-0.496	66.776	0.512	-5.46	-6.32
40	66.44	-0.336	66.776	0.511	-5.46	-6.32
40.02	66.4	-0.378	66.778	0.511	-5.46	-6.33
40.04	66.36	-0.42	66.78	0.511	-5.46	-6.33
40.05	66.46	-0.318	66.778	0.511	-5.46	-6.33
40.07	66.4	-0.375	66.775	0.511	-5.46	-6.33
40.09	66.42	-0.354	66.774	0.511	-5.46	-6.32
40.1	66.38	-0.383	66.763	0.511	-5.45	-6.32
40.12	66.4	-0.364	66.764	0.511	-5.45	-6.32
40.14	66.38	-0.378	66.758	0.511	-5.45	-6.32
40.15	66.38	-0.381	66.761	0.511	-5.45	-6.32
40.17	66.38	-0.378	66.758	0.511	-5.45	-6.32
40.19	66.42	-0.342	66.762	0.511	-5.45	-6.32
40.21	66.46	-0.305	66.765	0.511	-5.45	-6.32
40.22	66.48	-0.279	66.759	0.511	-5.45	-6.32
40.24	66.48	-0.285	66.765	0.511	-5.45	-6.32
40.26	66.42	-0.338	66.758	0.511	-5.45	-6.32
40.27	66.46	-0.3	66.76	0.511	-5.45	-6.32
40.29	66.42	-0.345	66.765	0.511	-5.45	-6.32
40.31	66.46	-0.305	66.765	0.51	-5.45	-6.32
40.32	66.52	-0.244	66.764	0.51	-5.45	-6.32
40.34	66.44	-0.322	66.762	0.51	-5.45	-6.32
40.36	66.36	-0.405	66.765	0.51	-5.45	-6.32
40.38	66.46	-0.305	66.765	0.51	-5.45	-6.32
40.39	66.36	-0.404	66.764	0.51	-5.45	-6.32
40.41	66.48	-0.283	66.763	0.51	-5.45	-6.32
40.43	66.46	-0.302	66.762	0.51	-5.44	-6.32
40.44	66.44	-0.322	66.762	0.51	-5.44	-6.32
40.46	66.46	-0.301	66.761	0.51	-5.44	-6.32
40.48	66.52	-0.245	66.765	0.51	-5.44	-6.32
40.49	66.36	-0.405	66.765	0.51	-5.44	-6.33
40.51	66.36	-0.392	66.752	0.51	-5.44	-6.32
40.53	66.34	-0.411	66.751	0.51	-5.44	-6.32
40.55	66.34	-0.407	66.747	0.51	-5.44	-6.32
40.56	66.5	-0.25	66.75	0.51	-5.44	-6.32
40.58	66.36	-0.394	66.754	0.51	-5.44	-6.32
40.6	66.44	-0.315	66.755	0.509	-5.44	-6.32
40.61	66.34	-0.405	66.745	0.509	-5.44	-6.32
40.63	66.48	-0.27	66.75	0.509	-5.44	-6.32
40.65	66.44	-0.312	66.752	0.509	-5.44	-6.32
40.66	66.38	-0.372	66.752	0.509	-5.44	-6.32
40.68	66.44	-0.312	66.752	0.509	-5.44	-6.32

40.7	66.36	-0.396	66.756	0.509	-5.44	-6.32
40.72	66.46	-0.3	66.76	0.509	-5.44	-6.32
40.73	66.4	-0.36	66.76	0.509	-5.44	-6.32
40.75	66.36	-0.397	66.757	0.509	-5.44	-6.32
40.77	66.52	-0.238	66.758	0.509	-5.44	-6.32
40.78	66.42	-0.336	66.756	0.509	-5.43	-6.32
40.8	66.44	-0.31	66.75	0.509	-5.43	-6.32
40.82	66.46	-0.294	66.754	0.509	-5.43	-6.32
40.83	66.44	-0.313	66.753	0.509	-5.43	-6.32
40.85	66.44	-0.309	66.749	0.509	-5.43	-6.32
40.87	66.38	-0.372	66.752	0.508	-5.43	-6.32
40.89	66.42	-0.334	66.754	0.508	-5.43	-6.32
40.9	66.52	-0.237	66.757	0.508	-5.43	-6.33
40.92	66.46	-0.298	66.758	0.508	-5.43	-6.33
40.94	66.44	-0.315	66.755	0.508	-5.43	-6.33
40.95	66.4	-0.354	66.754	0.508	-5.43	-6.33
40.97	66.38	-0.375	66.755	0.508	-5.43	-6.33
40.99	66.5	-0.253	66.753	0.508	-5.43	-6.33
41	66.36	-0.381	66.741	0.508	-5.43	-6.32
41.02	66.38	-0.362	66.742	0.508	-5.43	-6.32
41.04	66.38	-0.37	66.75	0.508	-5.43	-6.32
41.05	66.44	-0.309	66.749	0.508	-5.43	-6.32
41.07	66.34	-0.41	66.75	0.508	-5.43	-6.32
41.09	66.44	-0.302	66.742	0.508	-5.43	-6.32
41.11	66.48	-0.261	66.741	0.508	-5.43	-6.32
41.12	66.34	-0.392	66.732	0.508	-5.43	-6.32
41.14	66.4	-0.334	66.734	0.508	-5.43	-6.32
41.16	66.44	-0.293	66.733	0.507	-5.43	-6.32
41.17	66.5	-0.238	66.738	0.507	-5.42	-6.32
41.19	66.42	-0.322	66.742	0.507	-5.42	-6.32
41.21	66.36	-0.384	66.744	0.507	-5.42	-6.32
41.23	66.36	-0.383	66.743	0.507	-5.42	-6.32
41.24	66.44	-0.305	66.745	0.507	-5.42	-6.32
41.26	66.3	-0.444	66.744	0.507	-5.42	-6.32
41.28	66.44	-0.306	66.746	0.507	-5.42	-6.32
41.29	66.57	-0.179	66.749	0.507	-5.42	-6.33
41.31	66.28	-0.468	66.748	0.507	-5.42	-6.33
41.33	66.4	-0.336	66.736	0.507	-5.42	-6.32
41.34	66.48	-0.254	66.734	0.507	-5.42	-6.32
41.36	66.4	-0.332	66.732	0.507	-5.42	-6.32
41.38	66.4	-0.335	66.735	0.507	-5.42	-6.32
41.4	66.44	-0.29	66.73	0.507	-5.42	-6.32
41.41	66.38	-0.341	66.721	0.507	-5.42	-6.31
41.43	66.42	-0.306	66.726	0.506	-5.42	-6.32
41.45	66.52	-0.215	66.735	0.506	-5.42	-6.32
41.46	66.34	-0.398	66.738	0.506	-5.42	-6.32
41.48	66.32	-0.413	66.733	0.506	-5.42	-6.32

41.5	66.34	-0.386	66.726	0.506	-5.42	-6.32
41.51	66.34	-0.377	66.717	0.506	-5.42	-6.31
41.53	66.34	-0.374	66.714	0.506	-5.42	-6.31
41.55	66.36	-0.359	66.719	0.506	-5.42	-6.31
41.57	66.44	-0.282	66.722	0.506	-5.42	-6.31
41.58	66.38	-0.347	66.727	0.506	-5.42	-6.32
41.6	66.32	-0.401	66.721	0.506	-5.41	-6.31
41.62	66.46	-0.263	66.723	0.506	-5.41	-6.31
41.63	66.38	-0.341	66.721	0.506	-5.41	-6.31
41.65	66.28	-0.441	66.721	0.506	-5.41	-6.31
41.67	66.32	-0.402	66.722	0.506	-5.41	-6.32
41.68	66.44	-0.286	66.726	0.506	-5.41	-6.32
41.7	66.36	-0.367	66.727	0.506	-5.41	-6.32
41.72	66.38	-0.335	66.715	0.506	-5.41	-6.31
41.74	66.36	-0.349	66.709	0.506	-5.41	-6.31
41.75	66.34	-0.377	66.717	0.506	-5.41	-6.31
41.77	66.38	-0.341	66.721	0.505	-5.41	-6.32
41.79	66.4	-0.323	66.723	0.505	-5.41	-6.32
41.8	66.42	-0.302	66.722	0.505	-5.41	-6.32
41.82	66.44	-0.286	66.726	0.505	-5.41	-6.32
41.84	66.34	-0.385	66.725	0.505	-5.41	-6.32
41.85	66.32	-0.405	66.725	0.505	-5.41	-6.32
41.87	66.27	-0.443	66.713	0.505	-5.41	-6.31
41.89	66.42	-0.295	66.715	0.505	-5.41	-6.31
41.91	66.23	-0.477	66.707	0.505	-5.41	-6.31
41.92	66.4	-0.309	66.709	0.505	-5.41	-6.31
41.94	66.27	-0.436	66.706	0.505	-5.41	-6.31
41.96	66.4	-0.309	66.709	0.505	-5.41	-6.31
41.97	66.42	-0.291	66.711	0.505	-5.41	-6.31
41.99	66.4	-0.312	66.712	0.505	-5.41	-6.31
42.01	66.42	-0.292	66.712	0.505	-5.41	-6.31
42.02	66.34	-0.372	66.712	0.505	-5.41	-6.31
42.04	66.34	-0.374	66.714	0.505	-5.41	-6.31
42.06	66.36	-0.355	66.715	0.505	-5.41	-6.31
42.08	66.46	-0.255	66.715	0.505	-5.4	-6.31
42.09	66.34	-0.378	66.718	0.504	-5.4	-6.32
42.11	66.36	-0.359	66.719	0.504	-5.4	-6.32
42.13	66.29	-0.417	66.707	0.504	-5.4	-6.31
42.14	66.5	-0.209	66.709	0.504	-5.4	-6.31
42.16	66.42	-0.296	66.716	0.504	-5.4	-6.32
42.18	66.36	-0.356	66.716	0.504	-5.4	-6.32
42.19	66.38	-0.334	66.714	0.504	-5.4	-6.32
42.21	66.34	-0.371	66.711	0.504	-5.4	-6.31
42.23	66.34	-0.371	66.711	0.504	-5.4	-6.31
42.25	66.32	-0.381	66.701	0.504	-5.4	-6.31
42.26	66.44	-0.262	66.702	0.504	-5.4	-6.31
42.28	66.34	-0.366	66.706	0.504	-5.4	-6.31

42.3	66.36	-0.346	66.706	0.504	-5.4	-6.31
42.31	66.34	-0.362	66.702	0.504	-5.4	-6.31
42.33	66.32	-0.387	66.707	0.504	-5.4	-6.31
42.35	66.4	-0.312	66.712	0.504	-5.4	-6.32
42.36	66.46	-0.253	66.713	0.504	-5.4	-6.32
42.38	66.23	-0.484	66.714	0.504	-5.4	-6.32
42.4	66.32	-0.392	66.712	0.504	-5.4	-6.32
42.42	66.42	-0.288	66.708	0.503	-5.4	-6.31
42.43	66.42	-0.287	66.707	0.503	-5.4	-6.31
42.45	66.42	-0.286	66.706	0.503	-5.4	-6.31
42.47	66.4	-0.308	66.708	0.503	-5.4	-6.31
42.48	66.32	-0.378	66.698	0.503	-5.4	-6.31
42.5	66.52	-0.178	66.698	0.503	-5.4	-6.31
42.52	66.46	-0.237	66.697	0.503	-5.4	-6.31
42.53	66.48	-0.218	66.698	0.503	-5.4	-6.31
42.55	66.42	-0.278	66.698	0.503	-5.4	-6.31
42.57	66.56	-0.143	66.703	0.503	-5.39	-6.31
42.59	66.48	-0.223	66.703	0.503	-5.39	-6.31
42.6	66.44	-0.266	66.706	0.503	-5.39	-6.31
42.62	66.36	-0.346	66.706	0.503	-5.39	-6.31
42.64	66.4	-0.308	66.708	0.503	-5.39	-6.32
42.65	66.28	-0.416	66.696	0.503	-5.39	-6.31
42.67	66.26	-0.439	66.699	0.502	-5.39	-6.31
42.69	66.4	-0.3	66.7	0.502	-5.39	-6.31
42.7	66.4	-0.299	66.699	0.502	-5.39	-6.31
42.72	66.42	-0.28	66.7	0.502	-5.39	-6.31
42.74	66.4	-0.299	66.699	0.502	-5.39	-6.31
42.76	66.28	-0.419	66.699	0.502	-5.39	-6.31
42.77	66.38	-0.321	66.701	0.502	-5.39	-6.31
42.79	66.42	-0.284	66.704	0.502	-5.39	-6.31
42.81	66.3	-0.394	66.694	0.502	-5.39	-6.31
42.82	66.46	-0.234	66.694	0.502	-5.39	-6.31
42.84	66.21	-0.485	66.695	0.502	-5.39	-6.31
42.86	66.36	-0.327	66.687	0.502	-5.39	-6.31
42.87	66.42	-0.269	66.689	0.502	-5.39	-6.31
42.89	66.3	-0.394	66.694	0.502	-5.39	-6.31
42.91	66.5	-0.198	66.698	0.502	-5.39	-6.31
42.93	66.4	-0.302	66.702	0.502	-5.39	-6.31
42.94	66.38	-0.318	66.698	0.502	-5.39	-6.31
42.96	66.4	-0.286	66.686	0.502	-5.39	-6.31
42.98	66.36	-0.318	66.678	0.501	-5.39	-6.3
42.99	66.32	-0.364	66.684	0.501	-5.39	-6.31
43.01	66.4	-0.291	66.691	0.501	-5.39	-6.31
43.03	66.32	-0.369	66.689	0.501	-5.39	-6.31
43.04	66.46	-0.226	66.686	0.501	-5.39	-6.31
43.06	66.38	-0.306	66.686	0.501	-5.39	-6.31
43.08	66.4	-0.281	66.681	0.501	-5.39	-6.3

43.1	66.34	-0.344	66.684	0.501	-5.39	-6.31
43.11	66.32	-0.365	66.685	0.501	-5.39	-6.31
43.13	66.32	-0.355	66.675	0.501	-5.39	-6.3
43.15	66.36	-0.317	66.677	0.501	-5.38	-6.3
43.16	66.38	-0.305	66.685	0.501	-5.38	-6.31
43.18	66.36	-0.325	66.685	0.501	-5.38	-6.31
43.2	66.4	-0.285	66.685	0.501	-5.38	-6.31
43.21	66.36	-0.315	66.675	0.501	-5.38	-6.3
43.23	66.32	-0.357	66.677	0.501	-5.38	-6.3
43.25	66.36	-0.325	66.685	0.501	-5.38	-6.31
43.27	66.42	-0.264	66.684	0.5	-5.38	-6.31
43.28	66.42	-0.264	66.684	0.5	-5.38	-6.31
43.3	66.4	-0.282	66.682	0.5	-5.38	-6.31
43.32	66.34	-0.339	66.679	0.5	-5.38	-6.3
43.33	66.46	-0.224	66.684	0.5	-5.38	-6.31
43.35	66.38	-0.307	66.687	0.5	-5.38	-6.31
43.37	66.48	-0.208	66.688	0.5	-5.38	-6.31
43.38	66.34	-0.351	66.691	0.5	-5.38	-6.31
43.4	66.38	-0.308	66.688	0.5	-5.38	-6.31
43.42	66.34	-0.339	66.679	0.5	-5.38	-6.31
43.44	66.36	-0.32	66.68	0.5	-5.38	-6.31
43.45	66.42	-0.262	66.682	0.5	-5.38	-6.31
43.47	66.34	-0.343	66.683	0.5	-5.38	-6.31
43.49	66.34	-0.337	66.677	0.5	-5.38	-6.3
43.5	66.17	-0.5	66.67	0.5	-5.38	-6.3
43.52	66.4	-0.272	66.672	0.5	-5.38	-6.3
43.54	66.42	-0.26	66.68	0.5	-5.38	-6.31
43.55	66.44	-0.244	66.684	0.499	-5.38	-6.31
43.57	66.38	-0.306	66.686	0.499	-5.38	-6.31
43.59	66.38	-0.305	66.685	0.499	-5.38	-6.31
43.61	66.44	-0.242	66.682	0.499	-5.38	-6.31
43.62	66.38	-0.298	66.678	0.499	-5.38	-6.31
43.64	66.3	-0.367	66.667	0.499	-5.38	-6.3
43.66	66.28	-0.381	66.661	0.499	-5.38	-6.3
43.67	66.32	-0.348	66.668	0.499	-5.38	-6.3
43.69	66.38	-0.295	66.675	0.499	-5.38	-6.3
43.71	66.36	-0.317	66.677	0.499	-5.38	-6.31
43.72	66.44	-0.24	66.68	0.499	-5.38	-6.31
43.74	66.28	-0.39	66.67	0.499	-5.38	-6.3
43.76	66.36	-0.312	66.672	0.499	-5.38	-6.3
43.78	66.36	-0.314	66.674	0.499	-5.37	-6.3
43.79	66.26	-0.416	66.676	0.499	-5.37	-6.31
43.81	66.23	-0.443	66.673	0.499	-5.37	-6.3
43.83	66.25	-0.414	66.664	0.499	-5.37	-6.3
43.84	66.32	-0.335	66.655	0.499	-5.37	-6.29
43.86	66.38	-0.278	66.658	0.498	-5.37	-6.3
43.88	66.4	-0.267	66.667	0.498	-5.37	-6.3

43.89	66.32	-0.353	66.673	0.498	-5.37	-6.3
43.91	66.3	-0.375	66.675	0.498	-5.37	-6.31
43.93	66.23	-0.445	66.675	0.498	-5.37	-6.31
43.95	66.4	-0.275	66.675	0.498	-5.37	-6.31
43.96	66.3	-0.376	66.676	0.498	-5.37	-6.31
43.98	66.42	-0.255	66.675	0.498	-5.37	-6.31
44	66.21	-0.466	66.676	0.498	-5.37	-6.31
44.01	66.36	-0.304	66.664	0.498	-5.37	-6.3
44.03	66.32	-0.339	66.659	0.498	-5.37	-6.3
44.05	66.25	-0.41	66.66	0.498	-5.37	-6.3
44.06	66.32	-0.347	66.667	0.498	-5.37	-6.3
44.08	66.3	-0.372	66.672	0.498	-5.37	-6.3
44.1	66.34	-0.328	66.668	0.498	-5.37	-6.3
44.12	66.36	-0.308	66.668	0.498	-5.37	-6.3
44.13	66.3	-0.373	66.673	0.498	-5.37	-6.31
44.15	66.3	-0.375	66.675	0.498	-5.37	-6.31
44.17	66.4	-0.278	66.678	0.498	-5.37	-6.31
44.18	66.38	-0.297	66.677	0.498	-5.37	-6.31
44.2	66.34	-0.334	66.674	0.498	-5.37	-6.31
44.22	66.28	-0.39	66.67	0.497	-5.37	-6.31
44.23	66.34	-0.326	66.666	0.497	-5.37	-6.3
44.25	66.46	-0.211	66.671	0.497	-5.37	-6.31
44.27	66.36	-0.31	66.67	0.497	-5.37	-6.31
44.29	66.38	-0.29	66.67	0.497	-5.37	-6.31
44.3	66.26	-0.403	66.663	0.497	-5.37	-6.3
44.32	66.3	-0.357	66.657	0.497	-5.37	-6.3
44.34	66.34	-0.321	66.661	0.497	-5.37	-6.3
44.35	66.4	-0.263	66.663	0.497	-5.37	-6.3
44.37	66.23	-0.436	66.666	0.497	-5.37	-6.3
44.39	66.46	-0.21	66.67	0.497	-5.37	-6.31
44.4	66.17	-0.502	66.672	0.497	-5.37	-6.31
44.42	66.44	-0.235	66.675	0.497	-5.37	-6.31
44.44	66.34	-0.336	66.676	0.497	-5.37	-6.31
44.46	66.34	-0.339	66.679	0.497	-5.37	-6.31
44.47	66.3	-0.373	66.673	0.497	-5.37	-6.31
44.49	66.42	-0.24	66.66	0.497	-5.37	-6.3
44.51	66.3	-0.363	66.663	0.497	-5.37	-6.3
44.52	66.34	-0.321	66.661	0.497	-5.36	-6.3
44.54	66.34	-0.324	66.664	0.496	-5.36	-6.3
44.56	66.36	-0.305	66.665	0.496	-5.36	-6.3
44.57	66.34	-0.328	66.668	0.496	-5.36	-6.31
44.59	66.32	-0.343	66.663	0.496	-5.36	-6.3
44.61	66.28	-0.38	66.66	0.496	-5.36	-6.3
44.63	66.36	-0.307	66.667	0.496	-5.36	-6.31
44.64	66.34	-0.327	66.667	0.496	-5.36	-6.31
44.66	66.21	-0.444	66.654	0.496	-5.36	-6.3
44.68	66.32	-0.33	66.65	0.496	-5.36	-6.3

44.69	66.38	-0.274	66.654	0.496	-5.36	-6.3
44.71	66.4	-0.259	66.659	0.496	-5.36	-6.3
44.73	66.36	-0.302	66.662	0.496	-5.36	-6.3
44.74	66.34	-0.321	66.661	0.496	-5.36	-6.3
44.76	66.3	-0.364	66.664	0.496	-5.36	-6.3
44.78	66.36	-0.303	66.663	0.496	-5.36	-6.3
44.8	66.28	-0.383	66.663	0.496	-5.36	-6.3
44.81	66.28	-0.386	66.666	0.496	-5.36	-6.31
44.83	66.4	-0.265	66.665	0.496	-5.36	-6.31
44.85	66.36	-0.303	66.663	0.496	-5.36	-6.31
44.86	66.26	-0.406	66.666	0.496	-5.36	-6.31
44.88	66.38	-0.289	66.669	0.495	-5.36	-6.31
44.9	66.24	-0.419	66.659	0.495	-5.36	-6.3
44.91	66.4	-0.26	66.66	0.495	-5.36	-6.3
44.93	66.4	-0.264	66.664	0.495	-5.36	-6.31
44.95	66.3	-0.36	66.66	0.495	-5.36	-6.3
44.97	66.26	-0.391	66.651	0.495	-5.36	-6.3
44.98	66.3	-0.342	66.642	0.495	-5.36	-6.29
45	66.3	-0.346	66.646	0.495	-5.36	-6.3
45.02	66.36	-0.296	66.656	0.495	-5.36	-6.3
45.03	66.26	-0.399	66.659	0.495	-5.36	-6.3
45.05	66.24	-0.41	66.65	0.495	-5.36	-6.3
45.07	66.28	-0.362	66.642	0.495	-5.36	-6.29
45.08	66.34	-0.303	66.643	0.495	-5.36	-6.3
45.1	66.46	-0.192	66.652	0.495	-5.36	-6.3
45.12	66.4	-0.258	66.658	0.495	-5.36	-6.3
45.14	66.4	-0.262	66.662	0.495	-5.36	-6.31
45.15	66.42	-0.244	66.664	0.495	-5.36	-6.31
45.17	66.28	-0.383	66.663	0.495	-5.36	-6.31
45.19	66.34	-0.319	66.659	0.495	-5.36	-6.3
45.2	66.3	-0.359	66.659	0.494	-5.36	-6.3
45.22	66.3	-0.36	66.66	0.494	-5.36	-6.31
45.24	66.42	-0.239	66.659	0.494	-5.36	-6.3
45.25	66.38	-0.283	66.663	0.494	-5.36	-6.31
45.27	66.44	-0.226	66.666	0.494	-5.36	-6.31
45.29	66.34	-0.324	66.664	0.494	-5.36	-6.31
45.3	66.34	-0.32	66.66	0.494	-5.36	-6.31
45.32	66.34	-0.319	66.659	0.494	-5.36	-6.31
45.34	66.4	-0.258	66.658	0.494	-5.36	-6.31
45.36	66.19	-0.47	66.66	0.494	-5.36	-6.31
45.37	66.36	-0.302	66.662	0.494	-5.36	-6.31
45.39	66.34	-0.32	66.66	0.494	-5.36	-6.31
45.41	66.36	-0.297	66.657	0.494	-5.36	-6.3
45.42	66.26	-0.388	66.648	0.494	-5.36	-6.3
45.44	66.38	-0.274	66.654	0.494	-5.35	-6.3
45.46	66.32	-0.339	66.659	0.494	-5.35	-6.31
45.48	66.36	-0.3	66.66	0.494	-5.35	-6.31

45.49	66.21	-0.448	66.658	0.494	-5.35	-6.31
45.51	66.23	-0.426	66.656	0.494	-5.35	-6.3
45.53	66.21	-0.438	66.648	0.494	-5.35	-6.3
45.54	66.3	-0.34	66.64	0.493	-5.35	-6.3
45.56	66.4	-0.249	66.649	0.493	-5.35	-6.3
45.58	66.23	-0.421	66.651	0.493	-5.35	-6.3
45.59	66.28	-0.37	66.65	0.493	-5.35	-6.3
45.61	66.3	-0.345	66.645	0.493	-5.35	-6.3
45.63	66.32	-0.327	66.647	0.493	-5.35	-6.3
45.65	66.3	-0.353	66.653	0.493	-5.35	-6.3
45.66	66.36	-0.287	66.647	0.493	-5.35	-6.3
45.68	66.38	-0.267	66.647	0.493	-5.35	-6.3
45.7	66.36	-0.29	66.65	0.493	-5.35	-6.3
45.71	66.3	-0.348	66.648	0.493	-5.35	-6.3
45.73	66.25	-0.396	66.646	0.493	-5.35	-6.3
45.75	66.44	-0.211	66.651	0.493	-5.35	-6.3
45.76	66.36	-0.29	66.65	0.493	-5.35	-6.3
45.78	66.26	-0.393	66.653	0.493	-5.35	-6.3
45.8	66.19	-0.455	66.645	0.493	-5.35	-6.3
45.82	66.36	-0.284	66.644	0.493	-5.35	-6.3
45.83	66.34	-0.307	66.647	0.493	-5.35	-6.3
45.85	66.38	-0.269	66.649	0.493	-5.35	-6.3
45.87	66.38	-0.269	66.649	0.493	-5.35	-6.3
45.88	66.4	-0.238	66.638	0.492	-5.35	-6.3
45.9	66.4	-0.239	66.639	0.492	-5.35	-6.3
45.92	66.38	-0.26	66.64	0.492	-5.35	-6.3
45.93	66.34	-0.306	66.646	0.492	-5.35	-6.3
45.95	66.3	-0.346	66.646	0.492	-5.35	-6.3
45.97	66.34	-0.304	66.644	0.492	-5.35	-6.3
45.99	66.38	-0.263	66.643	0.492	-5.35	-6.3