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**Effects of Pervious Concrete Thickness on Leachate Water Temperature during Simulated
Rain Events**

A scholarly capstone submitted in partial fulfillment of the requirements for the degree of
MASTER OF BUILDING CONSTRUCTION

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[Supplemental Video
Presentation](#)

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Abstract

As construction continues to alter the horizon and cities continue to expand, an added emphasis has been put on construction materials. Concrete, a widely used material in the construction industry today continues to increase the nations heat island effect. Concretes ability to store heat on its surface brings negative concerns to the area of stormwater management and stormwater runoff. This research shows that impervious surfaces hold heat longer on their surface after a rain event when compared to pervious materials. Pervious surfaces offer an ability to mitigate heat from storm water when infiltration rates are higher than 3,000 in/hr. This study shows that pervious test cells with a higher infiltration rate offer higher heat mitigation abilities. Surfaces with higher infiltration rates are able to rid water rather quickly reducing the negative effects of the pervious concrete. Within this research pervious concrete was evaluated for its thermal characteristics as it relates to urban stormwater. Furthermore 4" and 6" pervious concrete test cells were compared to see if varying pervious concrete thickness would change leachate water temperatures. In this study leachate water temperature in 6" pervious concrete studied had a cooler leachate temperature than 4" pervious concrete. This is due to having a larger volume of concrete in the 6" pervious concrete that is able to absorb heat better than 4" pervious concrete. Pervious concretes ability to leach stormwater makes it a sustainable option to impervious concrete. This result of this study show that pervious surfaces have increased surface temperatures as compared to impervious surfaces. In areas where direct pedestrian contact is made pervious concrete is not recommended based on its thermal characteristics.

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Chapter 1: Introduction

1.1 Research Background/Rationale

Pervious concrete, also known as permeable or porous concrete, has special characteristics and is known for its ability to allow water to leach through its surface into the soil below it. Pervious concrete mix differs from traditional concrete mixtures; its mix lacks fine aggregates. With little to no fine aggregates in a pervious concrete mix, water is able to seep through the open voids, and the concrete's surface. Pervious concrete, although not commonly used in commercial construction, is best suited for flatwork applications such as driveways, and parking lots. These low-stress areas typically receive a high volume of urban stormwater, which can cause negative effects. Stormwater runoff occurs in almost every region of the United States, where locally heavy rainfall is common. In the event of heavy rain, pervious areas such as yards and vegetation areas are unable to handle large amounts of rainwater. Rainfall is unable to penetrate impervious surfaces and forced to be diverted away from urban areas. Stormwater, if not properly contained or infiltrated, can harm surrounding landscapes and waterways. "The use of pervious concrete is among the Best Management Practices (BMP) recommended by the US EPA and by other agencies and geotechnical engineers across the country for the management of stormwater runoff on a regional and local basis" (Tennis, Leming, & Akers, 2004). The use of pervious concrete in the built environment resulted in positive environmental impacts sparking interest in other research avenues such as stormwater heat mitigation.

As construction in the United States continues to grow laterally, the built environment continues to change the landscape. Land that was previously wilderness is now home to large cities with many buildings and roads intertwined within themselves. Areas that were once natural vegetation are now asphalt roads, concrete sidewalks, and buildings with impervious roofing materials. This change, which might be beneficial to the pedestrians that call these cities home, is bringing negative changes to the land around them. The negative effects of the built environment have added emphasis on building materials, and their ability to store heat on their surface. This phenomenon is known as the heat island effect and is common in most cities across the United States. "According to the EPA, the annual mean air temperature of a city with 1 million people or more can be 1.8-5.4°F (1-3°C) warmer than its surroundings" (Heat Island Effect, 2019). This

temperature spike can affect natural vegetation planted within the city as well as an increase in energy consumption in homes and businesses. As stormwater flows across urban roads and sidewalks, the temperature of stormwater increases. This temperature spike can have adverse effects on the natural environment in and adjacent to urban cities.

One feasible use for pervious concrete as it relates to stormwater heat mitigation is areas located in and around academic campuses. Academic campuses from a bird's eye look can show similar characteristics of a large city. Sidewalks are commonly used to guide students to and from buildings, creating a roadway system much like a city. These sidewalks typically receive relatively low stress compared to a city street, and at max operating capacity might have a few hundred people walking across them. Auburn University, an academic institution located in Auburn, Alabama, is unique in the sense that it has a free-flowing creek flowing through and underneath its campus. Parkerson Mill Creek enters Auburn's campus on the North and Northeast sides and flows through the center of campus. Parkerson Mill Creek has added extra consideration to construction in and around Auburn's campus in efforts to minimize the negative effects examined. If pervious concrete can offer reduced stormwater temperatures, it is possible to reduce the negative effects brought on by the built environment to local creeks and streams. For this reason, the purpose of this research is to understand the leachate temperatures in pervious concrete and evaluate its characteristics as they relate to heat mitigation from urban stormwater.

1.2 Research Aim

The research aim is to evaluate the thermal properties of pervious concrete and determine if varying pervious concrete thickness can offer a change in its ability to mitigate heat from urban stormwater.

1.3 Research Objectives

The following objectives will guide this study:

1. To evaluate and record leachate water temperatures in pervious concrete, using temperature sensors placed on the surface, mid-section, and outflow, while conducting simulated rain events.
2. Determine if varying pervious concrete thickness (4" and 6" thick sections) can change its ability to mitigate heat from water leachate.
3. To evaluate and record runoff water temperatures on impervious concrete (4"), using temperature sensors placed on the surface, mid-section, and outflow, while conducting simulated rain events.
4. Compare data collected from pervious concrete studies to data collected in impervious concrete studies and evaluate the relationship between the two.

1.4 Key Questions

1. Does urban stormwater have an increased temperature due to impervious building materials?
2. Does pervious concrete have the ability to mitigate heat from urban stormwater?
3. Are pervious materials better at mitigating heat from urban stormwater than impervious materials?
4. Will leachate water in pervious pavement increase/decrease when pervious concrete thicknesses 4" and 6" are varied?
5. Are pervious building materials useful in low-stress applications to reduce the negative effects of stormwater runoff?

1.5 Research Scope

The scope of this research will be to conduct lab research using mesocosms and evaluate data recorded in similar research. It will focus on pervious concrete thicknesses and its relationship to heat mitigation in urban stormwater.

Chapter 2: Literature Review

2.1 Literature Review

When reviewing literature pertaining to the topic of concrete's thermal properties, there are several key topics that research has tracked over time. Topics found include urban heat island effect, Pervious concrete vs. Traditional concrete, sustainable design, etc. These findings indicate that there is an area of concern in the built environment. While reviewing literature pertaining to concrete thickness and its thermal relationship, there is little to no information regarding this subject. There is much research on the environmental impacts of pervious concrete. Pervious concrete is a more sustainable option for traditional concrete used in everyday construction. As the heat island effect grows in concern within cities in the United States, pervious concrete research is increasing to understand its thermal properties.

The research conducted in this study is part of an ongoing study to understand thermal characteristics within pervious concrete better. Green Infrastructure researchers have set a framework for research to be conducted in the Mike Hubbard Center for Advanced Science, Innovation and Commerce (CASIC) Building at Auburn University. Previous studies are conducted here to research surfaces used in the built environment. Previous experiments conducted in the Green Infrastructure Lab have compared pervious materials to impervious materials, pervious pavers, and turfgrass under rain simulations. Surfaces were heated for five hours, with heat lamps suspended above each surface material to replicate thermal load similar to the sun. Sprinklers replicated rainfall and allowed researchers to record data related to stormwater and how temperatures vary on each surface type. As seen in the photo below, researchers placed temperature sensors on the surface, concrete's midpoint, gravel midpoint, and outflow to record temperature data as the rainwater reacts to each surface type. Water was channeled from each test cell stand and was directed to pots with natural vegetation located close by. By directing the water from the various surfaces, researchers were able to make visual observations and determine if different surface materials offer more or less of an effect on the plants.

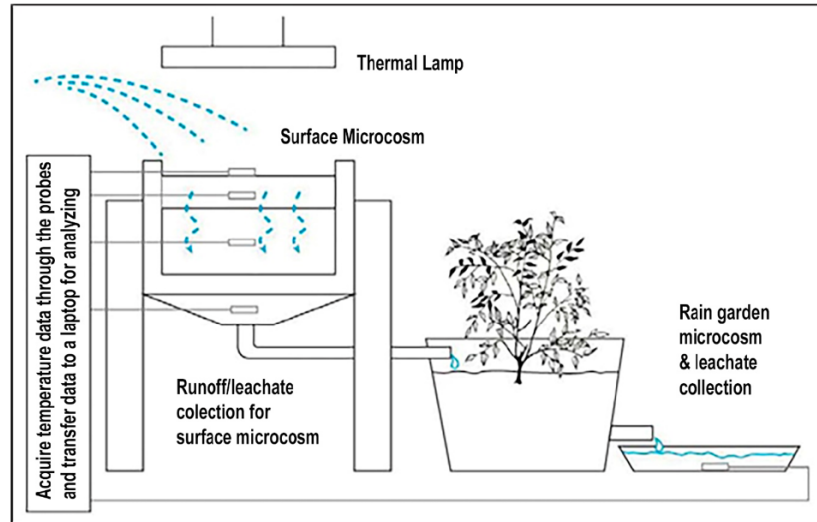


Figure 1 Pervious Concrete Test Cell Diagram LeBleu, C.; Dougherty, M.; Rahn, K.; Wright, A.; Bowen, R.; Wang, R.; Orjuela, J.; Britton, K, 2019

The results of this study reported that pervious concrete offers a higher daytime surface temperature when compared to other materials studied. This is due to the roughness on the pervious concrete's surface that allows it to trap heat within its pores. On the contrary, pervious surface documented a reduced thermal spike as leachate water passed through the concrete's surface. This study noted favorable results in the area of reducing stormwater temperatures through pervious concrete leaching processes (LeBleu, C.; Dougherty, M.; Rahn, K.; Wright, A.; Bowen, R.; Wang, R.; Orjuela, J.; Britton, K, 2019). Figure 1.

Studies conducted to determine if the voids in pervious concrete offer a cooling effect document a positive comparison to traditional concrete commonly used in construction. The Federal

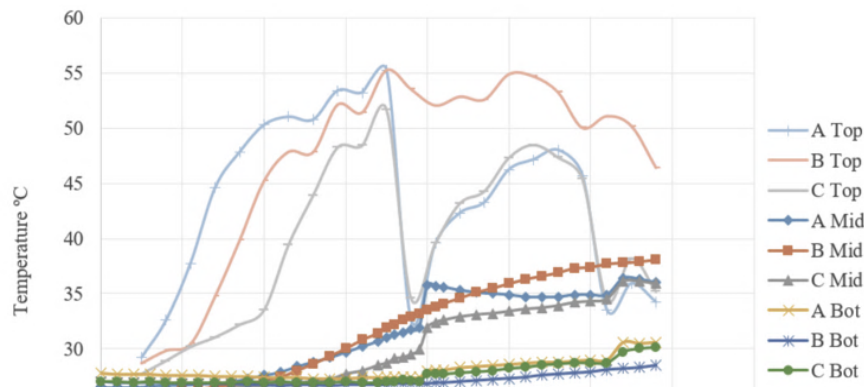


Figure 2 Temperature spike due to heat difference at the concrete's surface. (Lorenzi, Haselbach, Silva, Filho, Perrutto, & Bidinotto, 2018)

University of Rio Grande in Brazil to prove this theory conducted a parking lot study. During this study, the researchers observed an existing pervious parking lot. Data such as surface temperatures, evaporation rates, and heat transfer was collected. Readings recorded include temperatures taken at the surface, mid-section and outflow of the pervious concrete. Water used to simulate a rainfall event was placed in a container outside to warm and poured over the pervious concrete once it reached ambient temperature. Data reported that initially, the temperature spiked due to the heat difference at the concrete's surface (Figure 2) as the moisture leached through the pervious concrete. As a result, the temperature reduced due to heat transfer within the concrete. As the water exits, the pervious concrete temperature reduced more minimizing negative effects brought on by heat as it pertains to stormwater. The results reported from this study indicated that pervious concrete could be used as a source to mitigate heat in stormwater. Additional findings noted that when moisture is present within the pervious pours, evaporation occurs. The evaporation cooling effect caused by the existing moisture is greater than the initial heat brought on by the rainfall. This cooling effect happens within the pervious concrete (Lorenzi, Haselbach, Silva Filho, Pessutto, & Bidinotto, 2018).

Based on Lorenzi, Haselbach, Silva Filho, Pessutto, & Bidinotto's research and similar research, data reports that pervious concrete offers thermal benefits compared to impervious concrete. The research results studied on thermal benefits spark the question, if we manipulate pervious concrete such as paint it, increase its thickness, or vary mixtures, will this affect its cooling abilities?

An interesting study conducted in China relates to this topic. Researchers studied an alternate concrete mix thought to be more environmentally friendly compared to traditional mix. Recycled concrete (RGA), commonly seen in landfills all across the world, was used as large aggregates in this created mix. Since pervious concrete has very few fine aggregates, researchers chose to use recycled glass cullets (WGC) to replace traditional fine aggregates. Researchers tested it for its structural properties, permeability, and thermal conductivity. While studying the thermal conductivity of this mix, "Pervious Concrete was measured using a quick thermal conductivity meter (QTM-500) based on ASTM C1113-90 (2013) Hot Wire Method" (Lu, Yan, He, Poon, 2019). Prior to this test, researchers expected the created mixture to have a lower thermal

conductivity compared to traditional mix because glass has a lower thermal conductivity rate compared to rock. See the results of the study in the chart below (Figure 3). As a result, when there is no glass in the mix, the thermal conductivity of the mixture is increased.

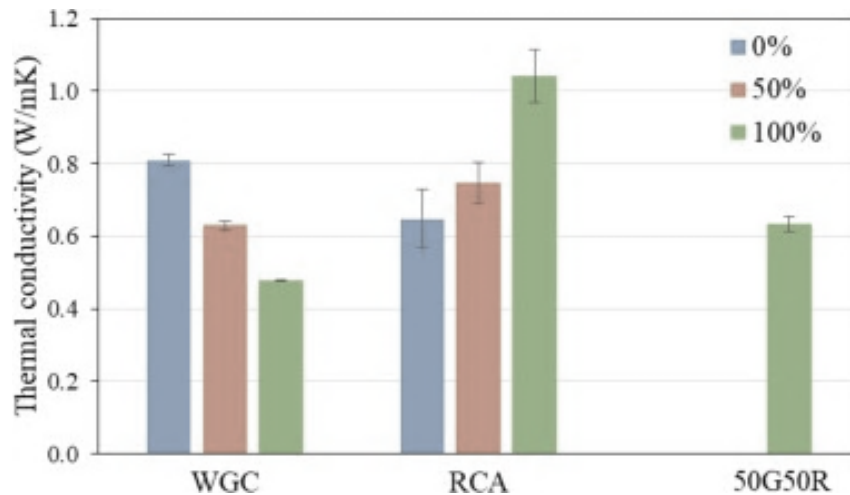


Figure 3 Results showing that glass has a lower thermal conductivity rate compared to rock. (Lu, Yan, He, & Poon, 2019)

When evaluating the topic of pervious concrete, it is important to note the structural characteristics of this unique mixture. Pervious concrete mix typically consists of three ingredients: portland cement, large aggregates, and water and is unique in the sense that there are little to no fine aggregates. Large aggregates can vary, “Both rounded aggregate (gravel) and angular aggregate (crushed stone) are used to produce pervious concrete. Typically, higher strengths are achieved with rounded aggregates, although angular aggregates generally are suitable” (Tennis, Leming, & Akers 2004). Fine aggregates in pervious concrete mixtures reduce the infiltration rate and the concrete's ability to take on water. High voids in pervious concrete, which create optimal filtration, can lower the structural integrity of the concrete.

Pervious concrete having weaker structural properties needs a strong subgrade to allow it to perform correctly. As pervious concrete continues to develop, testing within itself has proven viable to determine how mixtures compare with other mixtures. A study conducted in Northern Ohio compared four pervious mixtures to determine their performance among each other. The study evaluated subgrade soils/pervious paving materials and their effects on water filtration. Drainage data was collected using monitoring sensors installed above and below grade. The research findings stated that pre-installation soil testing is recommended prior to concrete install.

Subgrade soil saturation varied between soil types, testing would allow for better design and performance of the pervious surface (Winston, Dorsey, Smolek, & Hunt, 2018).

Pervious concrete is a sustainable alternative to a building material used on almost every construction project. Additionally, pervious concrete has a life cycle that is comparable to traditional concrete. “Most parking areas, when properly constructed, will last 20 to 40 years, according to the Southern California Ready Mixed Concrete Association” (Concrete Network, 2018). According to an article called The Concrete Conundrum, “concrete is the single most widely used construction material in the world” (Chemistry World 2008).

Chapter: 3 Methodology

3.1 Methodology

This research methodology is primarily data-driven, with experimental data collection conducted in the Green Infrastructure Lab at the Hubbard Center for Advanced Science, Innovation, and Commerce (CASIC) building at Auburn University. Researchers evaluated pervious test cells for their ability to mitigate heat from leachate water. Data from test cells include 4” pervious concrete, 6” pervious concrete, and 4” impervious concrete. Within these experiments, data recorded included comparisons to determine if varying pervious concrete thickness effects its ability to mitigate heat from leachate water. The experiment included 4” impervious concrete as a control. The experiment compared leachate thermal data recorded from pervious concrete to the thermal runoff of the impervious concrete.

The use of the Green Infrastructure Lab allows for testing in a controlled environment. Researchers evaluated concrete test cells in a scenario that mimics a 1” rain event in the summertime in Auburn, AL. Weather patterns in the south typically show strong afternoon storms that are often quick, but these storms at peak rainfall can be quite intense at times. Concrete mesocosms heated for approximately 5 hours will replicate summertime temperatures prior to turning on the sprinklers. Water sprinklers will simulate rain and rained on the concrete test cells for approximately 1 hour. While simulating a rain event, temperature sensors will

record water temperature at the surface, concrete mid-section, and outflow of each concrete test cell. The temperature will begin recording when the heat lamps are turned and will conclude 1 hour and 45 minutes after the sprinklers are turned off.

3.2 Lab Set-Up

The carefully thought out lab design and configuration give ample space for pervious concrete observations. Test Cell racks were designed and fabricated and will allow for 12 independent observations within this study. Future research will be conducted by the Green Infrastructure team to observe pervious pavers and gravel patterns under similar scenarios. In order to eliminate favoring room conditions, test cell location is random. See set-up below. (Figures: 4,5)

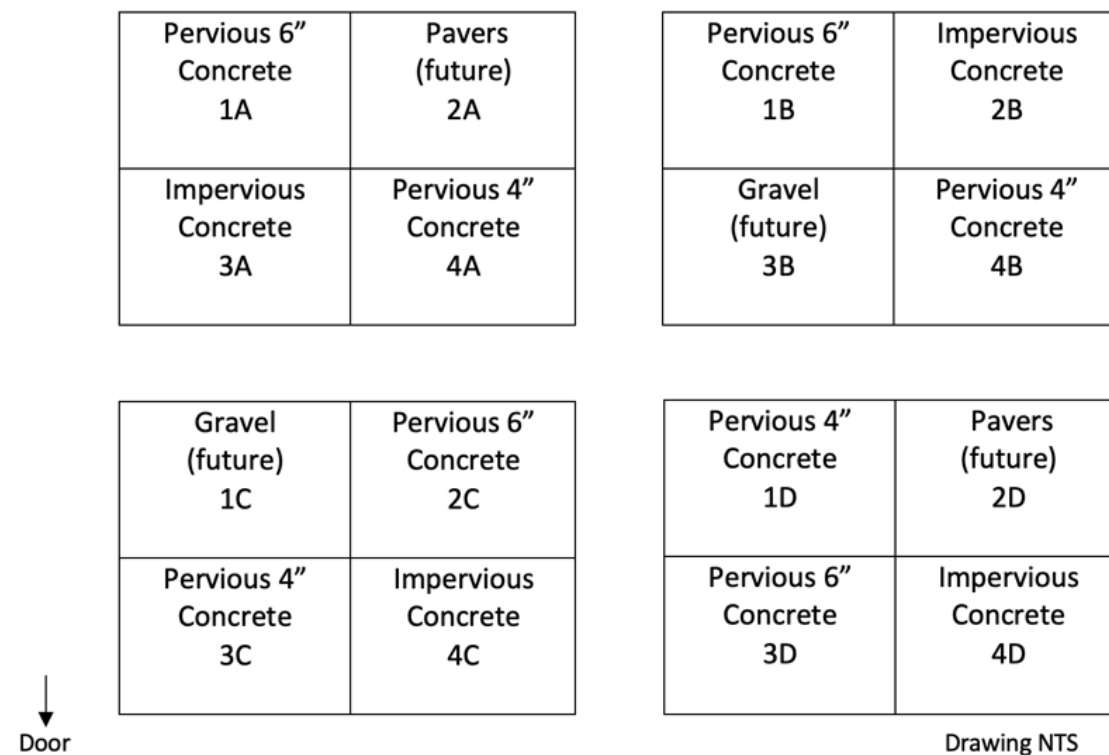


Figure 4 Plan View of Green Infrastructure Lab



Figure 5 Photo of the Green infostructure Lab Layout

3.3 Sprinkler Layout

As previously stated, the objective of this research is to test pervious concrete under simulated rain events. To achieve the desired precipitation rate across all 12 of the test cells, 4 Hunter MP1000 Plastic Rotary Nozzles manufactured in the United States, are each attached to a Model 1806 Sprinkler Body. The sprinklers are operated at 30 PSI, which will be recorded with an Ashcroft® transducer rated at 100psi. Researchers installed sprinklers on each corner of the experimental area to ensure an even distribution across all 12 cells (Figure 6).

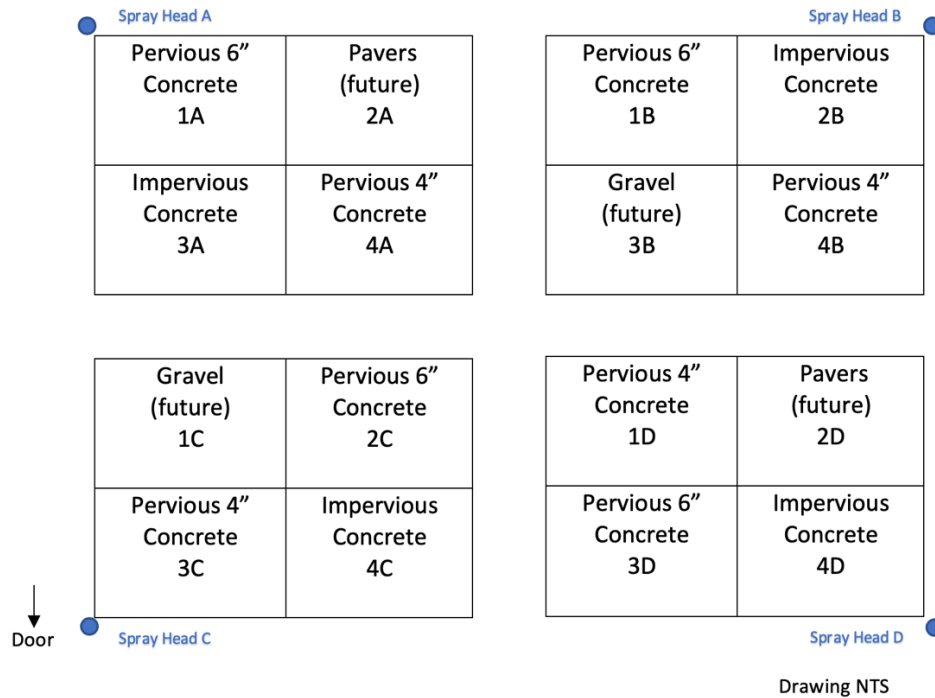


Figure 6 Sprinkler Layout Plan View

3.4 Heat Lamps

Heat lamps used in this experiment are Solaira Alpha 120V- 1500 Watt Weatherproof Infrared Heaters and are manufactured in Mississauga, Ontario, Canada. A total of 4 heat lamps are suspended above the experimental area and used to heat the concrete test cells. Heat lamps are suspended 24 in above the concrete test cells to ensure sunlight intensity creates a similar scenario seen on a pedestrian sidewalk. Each test cell will remain under heat for approximately 5-6 hours or until thermal temperature readings within the concrete reach a plateau.

3.5 Concrete Test Cells

The concrete test cells were pre-casted prior to installing the concrete in the test cell boxes. The use of wood forms (cut to a desired 4" and 6" depths) will be used to shape the concrete test cells to a 12" x 12" square. A RocTest® TH-T 3 Kohm temperature sensor manufactured in Quebec, Canada, is embedded in the mid-section of the concrete form prior to pouring the concrete. By

casting the temperature sensors into the concrete's midsection, it reduces the chance of negative results brought on by foreign objects. (Figure 7,8).



Figure 7 Midpoint Sensor in Concrete Form



Figure 8 Concrete Temperature Sensor Placement

This experiment will evaluate pervious concrete to achieve an optimal infiltration rate while still maintaining structural integrity that can be used in commercial applications. American Concrete Institutes (ACI) guidelines for pervious concrete were followed in this study. With the help of the National Ready-Mix Association, a pervious concrete mixture will be designed to meet the specifications needed for this research. The pervious mixture can be seen in Table 1 below.

Researchers hand mixed and poured the pervious concrete test cells at the Robison Morton Field Lab at Auburn University. Pervious concrete test cells were covered with plastic and allowed to cure for 7 days before being removed from their forms.

Pervious Concrete Mix Design		
Materials		Quantities
4" Pervious	3/4" Clean Aggregate (#57 Stone)	2300 lbs
	Sand	310 lbs
	Portland Cement	500 lbs
	Water	20-23 gal
6" Pervious	3/4" Clean Aggregate (#57 Stone)	2300 lbs
	Sand	310 lbs
	Portland Cement	500 lbs
	Water	20-23 gal
	Polypropylene Micro-Fibers	3 lbs

Table 1 Pervious Concrete Mixtures

3.6 Test Cell Boxes

In this research, 12 individual test cell boxes were designed and used to allow for uninterrupted water flow through the test cell boxes. These durable and sturdy boxes reduce adverse effects such as warping caused by the weight stress brought on by the gravel and concrete pavers. Constructed with pressure-treated 2" x 12" lumber, the test cell boxes have inside dimensions of the box are 13" x 13". The boxes were treated with water sealer to prevent water loss due to

water penetration in the wood. To support the weight of the gravel and concrete 3 - 3/8" rods were placed in the bottom of the box. Each rod was fastened with a lock washer, washer, and nut to prevent undesired movement. Rod lengths varied; each rod was cut flush with the outside edge of the cell box after it was secured. To have uninterrupted water flow through the box, a 12" x 12" piece of expanded metal was placed on top of the rods to hold materials. The expanded metal received paint to prevent rusting and secured to the rods with wire ties to prevent shifting in the box. Pervious concrete test cell boxes have a funnel system attached to the outflow side to channel leaching water and record temperature readings. Impervious test cell box design allows for water runoff of the impervious concrete. The desired slope of the impervious concrete for this experiment is 1/4" per 1' which is commonly used in construction. The desired slope will initiate water movement but not at a speed that will skew the thermal readings of the water flow. The gutter attached to the side of the test cell box directs water to where temperature readings can be collected. Each gutter is shielded with an insulating material to prevent unwanted thermal heating in the collection gutters in efforts to achieve accurate data. (Figure 9,10,11,12)

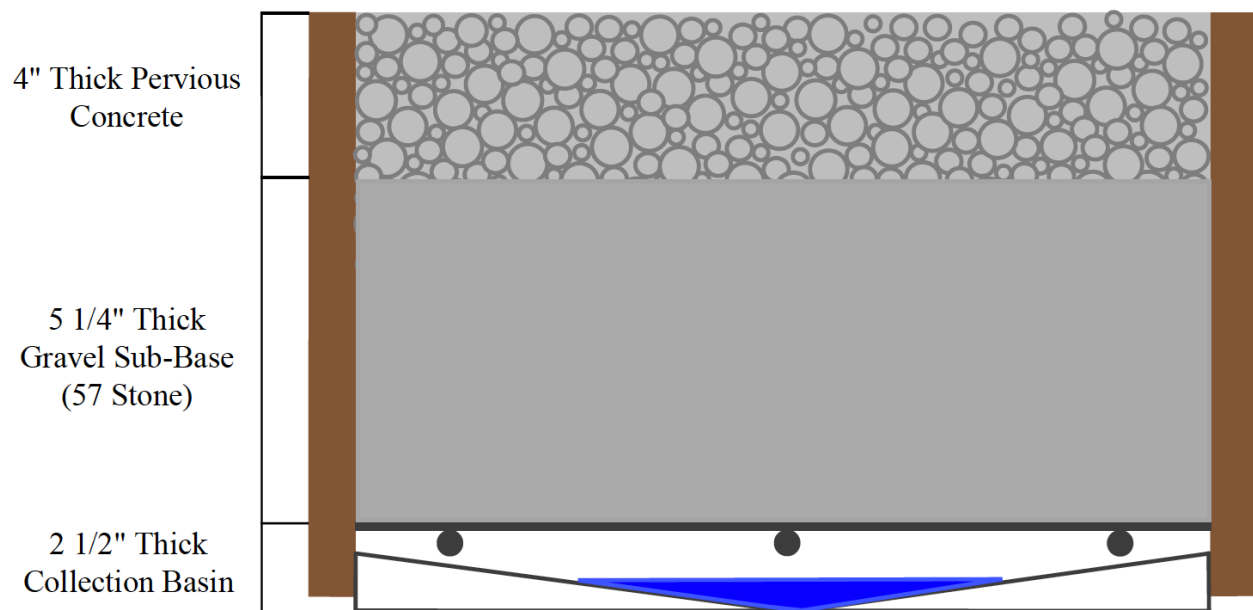


Figure 9 Test Cell Box Design (Pervious)



Figure 10 Impervious Test Cell Box

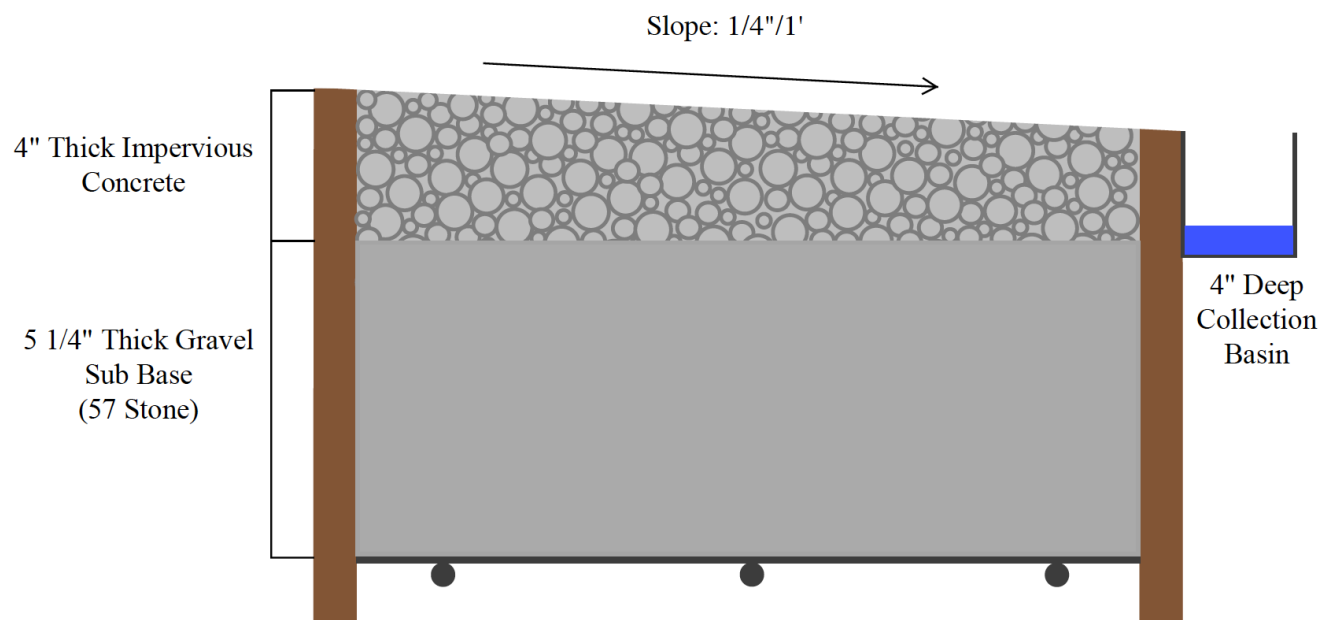


Figure 11 Test Cell Box Design (impervious)



Figure 12 Impervious Test Cell Box

3.7 Temperature Sensors

Three individual RocTest® TH-T 3 Kohm temperature sensors per a test cell box, will record temperature data during this experiment. Sensors test with accuracy of $\pm 0.5\%$ and can record temperatures ranging from -50 to $+150$ C. Sensor locations are on the concrete surface, concrete mid-section, and outflow collection. (Figure 13,14,15,16: Table 2)

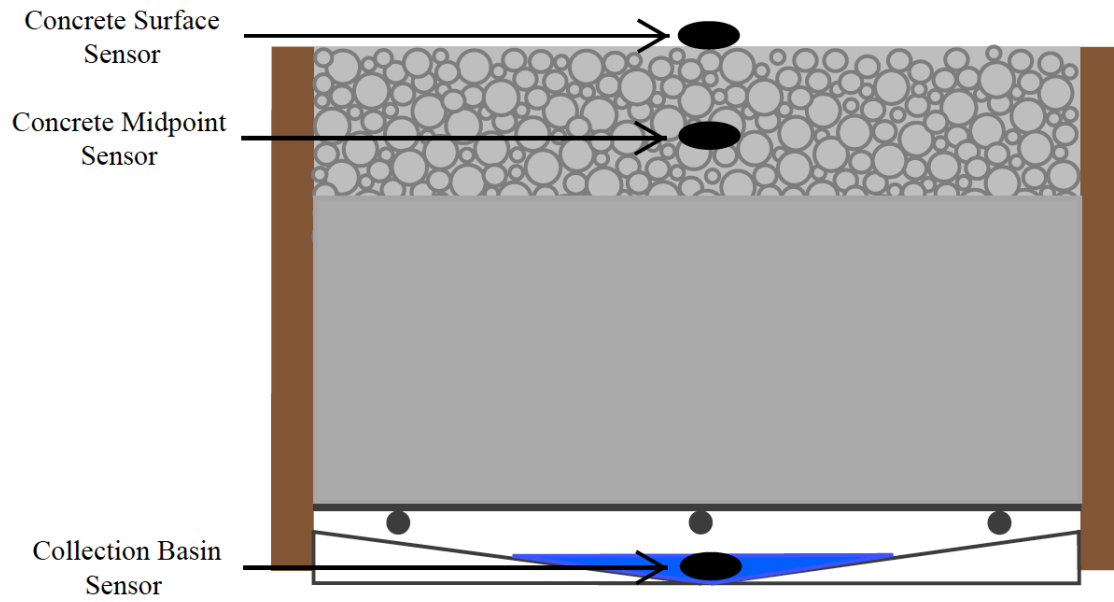


Figure 13 Temperature Sensor Diagram (pervious)



Figure 14 Outflow Temperature Sensor Pervious Concrete

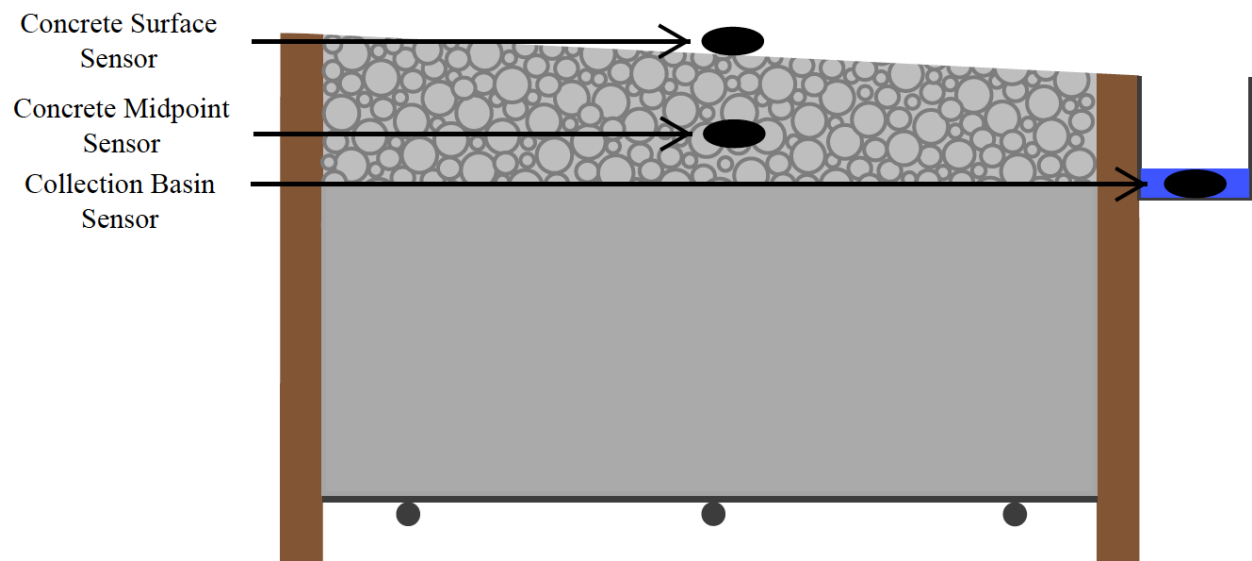


Figure 15 Temperature Sensor Diagram (Impervious)



Figure 16 Outflow Temperature Sensor Impervious Concrete

Test Cell	Surface Type	Reading	Th-T S/N	Data Port
1A	Pervious 6"	Surface	133016056	1
		Material Middle	133016034	2
		Water Collection	13301800143	3
3A	Impervious 4"	Surface	133016054	4
		Material Middle	133016039	5
		Water Collection	133016049	6
4A	Pervious 4"	Surface	133016048	7
		Material Middle	133016035	8
		Water Collection	133016030	9
1B	Pervious 6"	Surface	133016044	10
		Material Middle	133016050	11
		Water Collection	13301800142	12
2B	Impervious 4"	Surface	13301800144	13
		Material Middle	133016029	14
		Water Collection	13301800141	15
4B	Pervious 4"	Surface	133016051	16
		Material Middle	133016031	17
		Water Collection	133016046	18
2C	Pervious 6"	Surface	133016047	19
		Material Middle	133016037	20
		Water Collection	133016059	21
3C	Pervious 4"	Surface	133016058	22
		Material Middle	133016036	23
		Water Collection	133016038	24
4C	Imervious 4"	Surface	133016043	25
		Material Middle	133016041	26
		Water Collection	133016053	27
1D	Pervious 4"	Surface	133016052	1A
		Material Middle	133016045	2A
		Water Collection	133016060	3A
3D	Pervious 6"	Surface	133016033	4A
		Material Middle	133016042	5A
		Water Collection	133016032	6A
4A	Pervious 4"	Surface	133016040	7A
		Material Middle	133016055	8A
		Water Collection	133016057	9A

Table 2 Temperature Sensor Locations

Chapter: 4 Results & Findings

Within the Green Infrastructure Lab at the Hubbard Center for Advanced Science, Innovation, and Commerce (CASIC) building at Auburn University, data collection will be carefully evaluated. This study is intended to research pervious concrete and evaluate its thermal properties as it relates to stormwater runoff. Experimental testing was conducted prior to lab simulations to understand pervious concretes characteristics better. Furthermore, trial testing will be conducted to see how pervious and impervious materials will react under the heat lamps used in this study. Three independent tests were conducted to mimic a summer rain in the Auburn, Alabama area. Data were recorded throughout the entire lab simulations and evaluated by the researchers.

4.1 Distribution Uniformity/Precipitation Rate

To determine the volume of precipitation that would reach each test cell, a distribution uniformity calculation and a precipitation rate calculation was evaluated prior to the study. To collect water in the testing area, 16 individual 6" x 6" plastic containers were placed under the sprinklers. See figure 17 & Table 3 for a representation.



Figure 17 Precipitation Rate and Uniform Distribution Testing

To allow for a measurable amount of water to be collected, the sprinklers were turned on for 15 minutes. Water was removed from each plastic container and recorded with a graduated cylinder. The results of this study are shown below.

Water Pressure		
Location	Pressure	Units
A	30	lbs
B	34	lbs
C	32	lbs
D	29	lbs

Precipitation Collection		
Rack Location	Test Cell	Amount
Rack A	1A	119 mL
	2A	127 mL
	3A	94 mL
	4A	130 mL
Rack B	1B	126mL
	2B	78mL
	3B	180mL
	4B	121mL
Rack C	1C	133mL
	2C	126mL
	3C	76mL
	4C	108mL
Rack D	1D	104mL
	2D	168mL
	3D	98mL
	4D	74mL

Table 3 Precipitation Rate and Uniform Distribution Results

Distribution Uniformity (DU) Calculation

$$\begin{aligned}
 DU_{LQ} &= \left[\frac{\text{Average Catch in Lower Quarter}}{\text{Average Catch Overall}} \right] \times \\
 &= \left[\frac{80.5 \text{ mL}}{116.38 \text{ mL}} \right] \times \\
 &= 69\%
 \end{aligned}$$

Precipitation Rate (PR) Calculation

$$\begin{aligned}
 PR_{\text{net}} &= \frac{3.66 \times \text{Average Catch Overall}}{T_R \times \text{Collection Area (in}^2\text{)}} \\
 &= \frac{3.66 \times (116.38 \text{ mL})}{(15 \text{ min}) \times (36 \text{ in}^2)} \\
 &= .78 \text{ in/hr}
 \end{aligned}$$

4.2 Dry Density

To check for consistency among the pervious and impervious concrete test cells, weight readings, and dimensions were recorded. This information was used to calculate the density in cubic inches of each test cell.

Dry Density Calculation

Density- (Length x Width x Height)

	Dimensions in Inches			Volume	Weight
Sample ID	Length	Width	Height	CU in	lbs
1A	12	12	6	864	54.9
1B	11 3/4	11 3/4	5 3/4	794	47.0
2C	11 7/8	11 7/8	6	846	52.2
3D	12	12	5 7/8	846	55.7
4A	12 1/8	12	4	582	40.1
4B	12	12	4	576	38.1
3C	12	12	3 7/8	558	39.8
1D	12	12	4	576	38.8
3A	12	12	3 3/4	540	42.8
2B	12	12	3 3/4	540	38.1
4C	11 7/8	11 7/8	3 3/4	529	43.6
4D	12	12	3 3/4	540	38.5

Table 4 Dry Density Calculation Results

4.3 Porosity

A porosity test was observed for each pervious test cell used in this experiment. Porosity is the calculation of open voids created by the pervious concrete. The process used to calculate

porosity in this study was the water displacement method. The steps are as followed: **1.** A 24” x 24” x 16” metal sink was filled to the 8” mark. **2.** Once the water had a chance to stabilize at the 8” mark, the pervious concrete was added. **3.** The pervious concrete was allowed to rest in the water for approximately 30 minutes. During the soaking process, the concrete was agitated by shaking it to help remove trapped air bubbles. **4.** After the concrete soaked, water was removed by a graduated cylinder and recorded. Water was removed until the water reached the initial 8” mark. The volume of water removed from the tub results in the volume of water displaced by the pervious concrete.

Porosity Calculation

Dry Volume in³ = Length x Width x Hight

Volume Displaced = Water Volume (ml) x (0.06102374 in³/ml)

Porosity % = $\frac{[(\text{Dry Volume in}^3) \times (\text{Volume Displaced in}^3)]}{(\text{Total Volume in}^3)} \times 100$

See Table 5.

Sample ID	Starting Depth (in)	Soak Time (min)	Dry Volume in ³	Volume Displaced (ml)	Volume Displaced in ³	Porosity %
1A (6")	8"	33	864.00	9,975	608.71	17.3%
1B (6")	8"	30	793.85	8,929	544.88	18.6%
2C (6")	8"	30	844.32	9,845	600.78	16.9%
3D (6")	8"	33	846.00	9,930	605.97	16.5%
4A (4")	8"	45	582	6,900	421.06	16.0%
4B (4")	8"	35	576	6,265	382.31	20.2%
3C (4")	8"	45	558	6,660	406.42	15.7%
1D (4")	8"	35	576	6,860	418.62	15.8%

Table 5 Porosity Calculation Results

4.4 Infiltration Rate

Infiltration testing was also conducted as preliminary research to determine how fast water could leach through the pervious concrete test cells. An 8” single ring infiltrometer constructed by Auburn University researchers has been used in previous research with good results. The infiltrometer ring was secured to the pervious test cells using a foam seal to prevent water loss from seepage. A mark was made at 6” above the pervious concrete, and the water infiltrometer

was filled till water reached the mark. The time it took the water to empty the cylinder was recorded, this data was used to calculate the infiltration rate (in/hr.) as seen in the diagram below. (Figure 18 & Table 6)

Infiltration Calculation

Infiltration Rate Formula- (water depth (in) / time (sec.)) x 60 (gal/min) x 60 (gal/hr.)

Infiltration Average- (Trial 1(in/hr.) + Trial 2(in/hr.) + Trial 3(in/hr.) + Trial 4(in/hr.) + Trial 5(in/hr.)) / 5

Sample ID	Trials For Each Sample										Infiltration Rate	
	Trial One		Trial Two		Trial Three		Trial Four		Trial Five		Average	Median
	Time (sec)	Rate (in/Hr)	Time (sec)	Rate (in/Hr)	Time (sec)	Rate (in/Hr)	Time (Sec)	Rate (in/Hr)	Time (sec)	Rate (in/Hr)	in/Hr	in/Hr
1A (6")	8.94	2,416	8.74	2,471	9.21	2,345	9.58	2,255	9.44	2,288	2,355	2,345
1B (6")	3.35	6,448	3.05	7,082	3.50	6,171	3.10	6,968	2.89	7,474	6,829	6,968
2C (6")	8.46	2,553	8.15	2,650	6.3	3,429	6.14	3,518	6.16	3,506	3,131	3,429
3D (6")	8.5	2,541	8.55	2,526	8.62	2,506	8.73	2,474	10.14	2,130	2,436	2,506
4B (4")	9.76	2,213	9.93	2,175	10.1	2,139	10.03	2,154	9.99	2,162	2,169	2,162
4A (4")	6.82	3,167	6.45	3,349	6.17	3,501	6.67	3,238	6.72	3,214	3,294	3,238
3C (4")	10.85	1,991	11.44	1,888	11.62	1,859	11.63	1,857	11.78	1,834	1,886	1,859
1D (4")	9.94	2,173	10.01	2,158	9.99	2,162	9.87	2,188	8.9	2,427	2,222	2,173

Table 6 Infiltration Rate Calculation Results



Figure 18 Pervious Concrete Infiltration Rate Testing

4.5 Trial Testing

In order to have an accurate representation of how the concrete surfaces would behave under the heat lamps, two trial tests were conducted. These tests were used to determine the heating times for the simulations. In the first trial, heat was applied for four consecutive hours before turning the heat lamps off. Surface recordings were evaluated on all 12 surfaces, and average temperature for each surface material was calculated. Refer to figure 19 below to see how the surface temperatures changed as heat was applied.

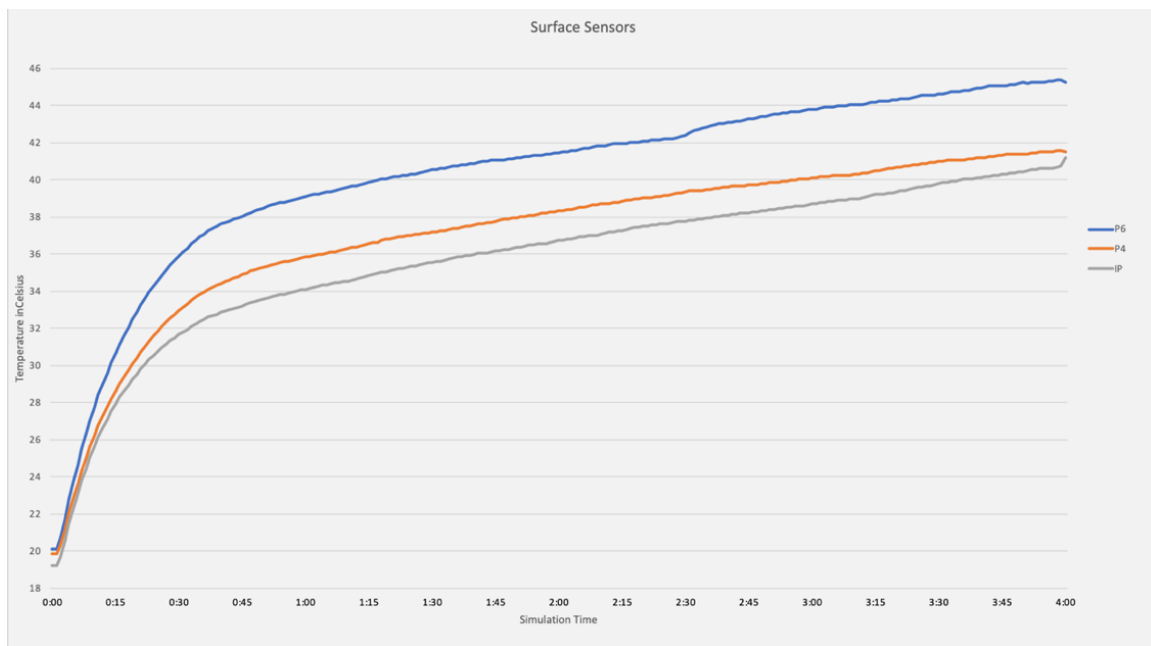


Figure 19 Four Hour Test Trial Results

Prior to conducting the second trial, each heat lamp was adjusted to ensure they sat level with the concrete surface. In the second trial, heat was applied for five consecutive hours before turning the heat lamps off. Surface recordings were evaluated on all 12 surfaces, and an average temperature for each surface material was calculated. Figure 20 below shows the results of the second trial.

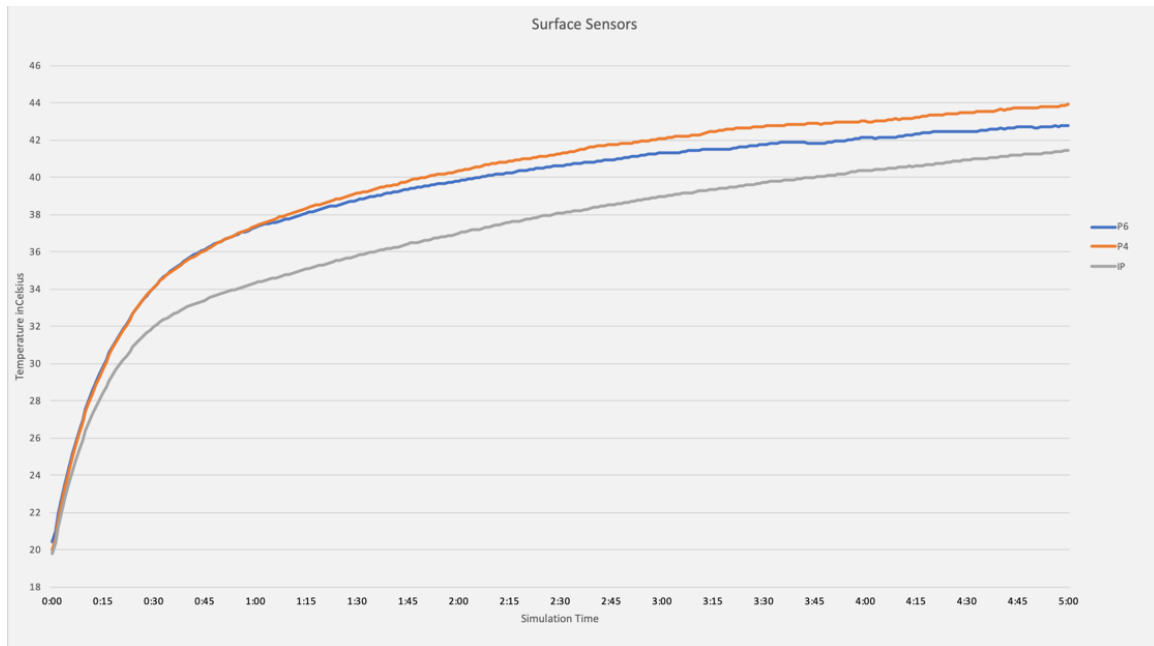


Figure 20 Five Hour Test Trial Results

4.6 Testing

Test One

This is the first of three-simulation evaluated in this study. Under this simulation pervious 6", pervious 4", and impervious concrete was tested as previously mentioned. The testing in this simulation was broken into three parts that lasted a total of 7 hours and 15 minutes. The heating cycle where the concrete was exposed to the heat lamps lasted 5 consecutive hours. The cooling cycle where the sprinklers were introduced lasted 1 hour. Sprinklers were turned on immediately after the heat was removed from the concretes surface. A post-study lasted 1 hour and 15 minutes after the sprinklers were removed to observe the cooling trends created by the three materials in this study. As seen in the table 7 and Figures 21,22,23 below temperatures varied across all three surface materials. The highest average temperature was recorded by the surface sensor on the 4" pervious concrete surface. When comparing outflow results in the 4" pervious concrete test cells to the 6" pervious concrete test cells, the 6" pervious concrete test cells had a lower average temperature.

Pervious 6" Concrete			
	Surface Sensor	Midpoint Sensor	Outflow Sensor
Average Temperature	35.03	28.66	23.46
High Temperature	43.44	35.21	25.40
Low Temperature	20.90	20.02	19.67
Standard Deviation	7.87	4.59	1.28
Median Temperature	38.90	29.67	23.94

Pervious 4" Concrete			
	Surface Sensor	Midpoint Sensor	Outflow Sensor
Average Temperature	35.33	33.40	23.89
High Temperature	44.43	43.04	26.16
Low Temperature	20.54	20.04	19.95
Standard Deviation	8.29	6.48	1.51
Median Temperature	39.18	33.73	24.31

Impervious 4" Concrete			
	Surface Sensor	Midpoint Sensor	Outflow Sensor
Average Temperature	34.07	31.40	23.39
High Temperature	41.92	39.36	25.29
Low Temperature	20.32	19.91	19.99
Standard Deviation	6.15	5.10	1.36
Median Temperature	35.98	31.50	23.57

Table 7 Test One Temperature Readings in Celsius

During the 5-hour heating cycle, surface temperatures changed rapidly. As seen in figure 21 below, the largest increase in temperature took place from the start of the study to the 0:30 minute mark. Once the surfaces reached a point in the study, the temperatures began to level off and gradually increased until the sprinklers were turned on. Temperatures fell quickly once the sprinklers were introduced until all three surfaces reached a point that was slightly warmer than the starting temperature. Surface temperatures on all three surfaces gradually increased again in the post study after the sprinklers were turned off. As seen in figure 23 below, outflow temperature readings changed throughout the study. Temperatures remained constant throughout the heating cycle. During the cooling cycle when the sprinklers were introduced, temperature readings reacted to leaching water. In this cooling cycle the 4" pervious concrete test cells and

the 6" Pervious concrete test cells tended to trend warmer than impervious test cells. As the study continued, pervious surfaces would eventually fall below the impervious surfaces.

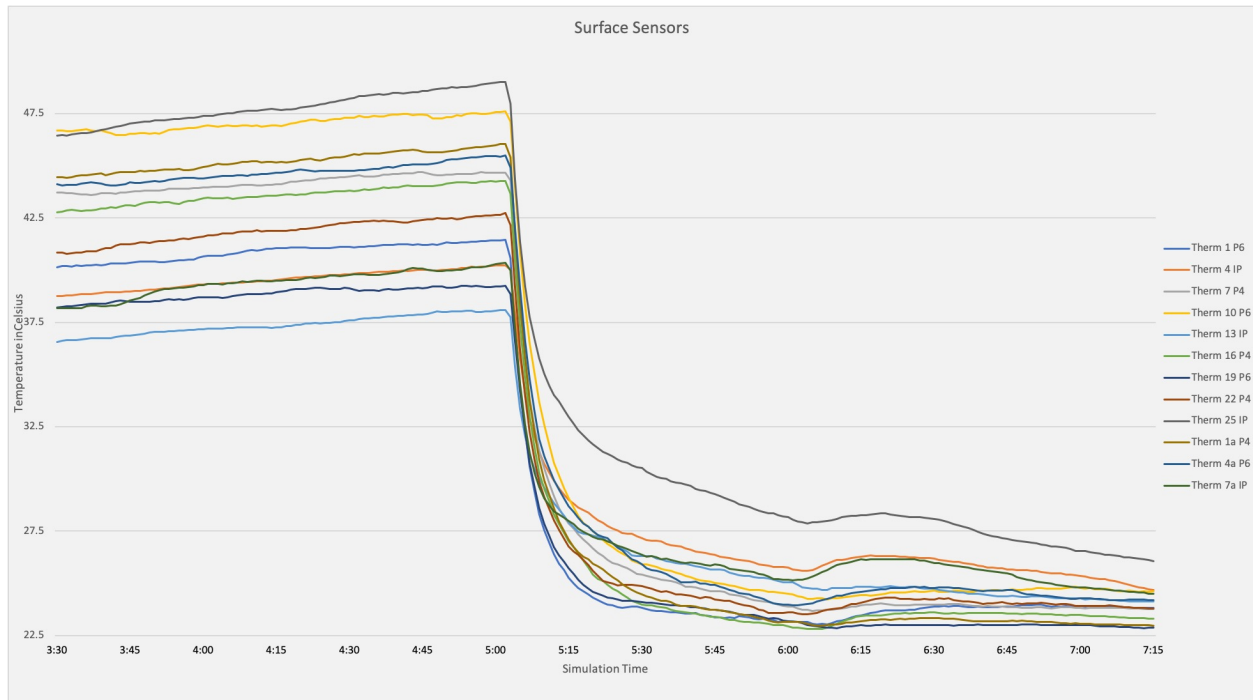


Figure 21 Test One Surface Temperature Sensors

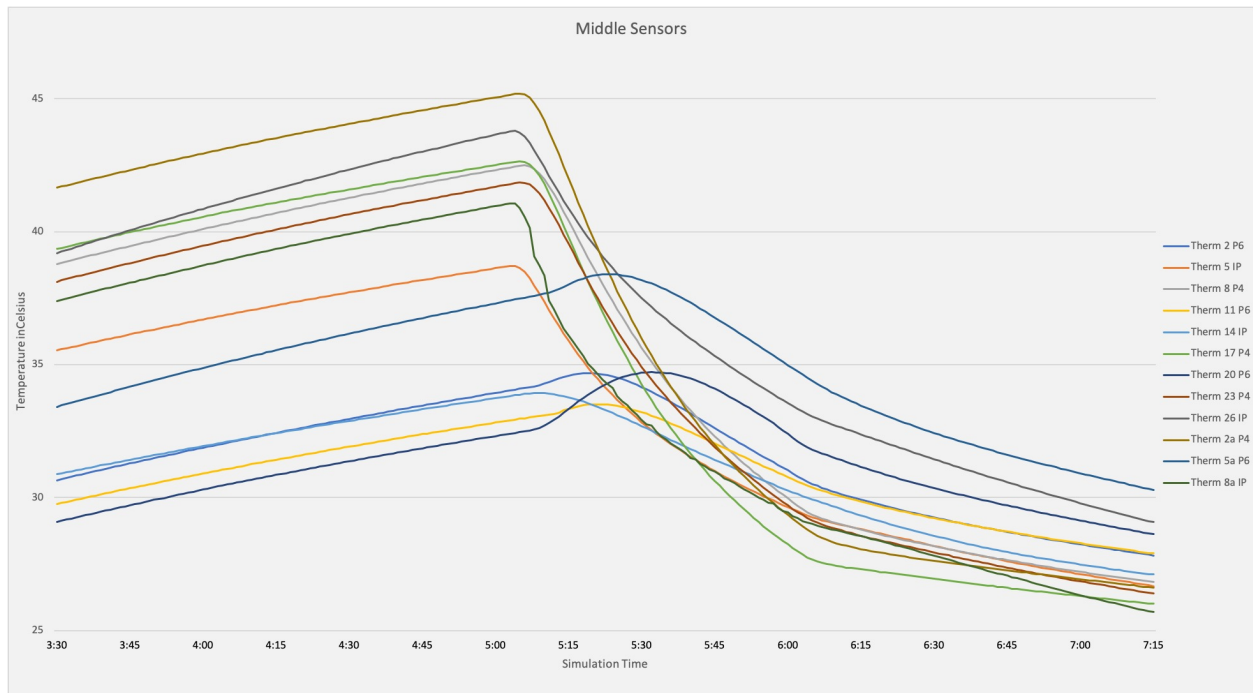


Figure 22 Test One Midpoint Temperature Sensors

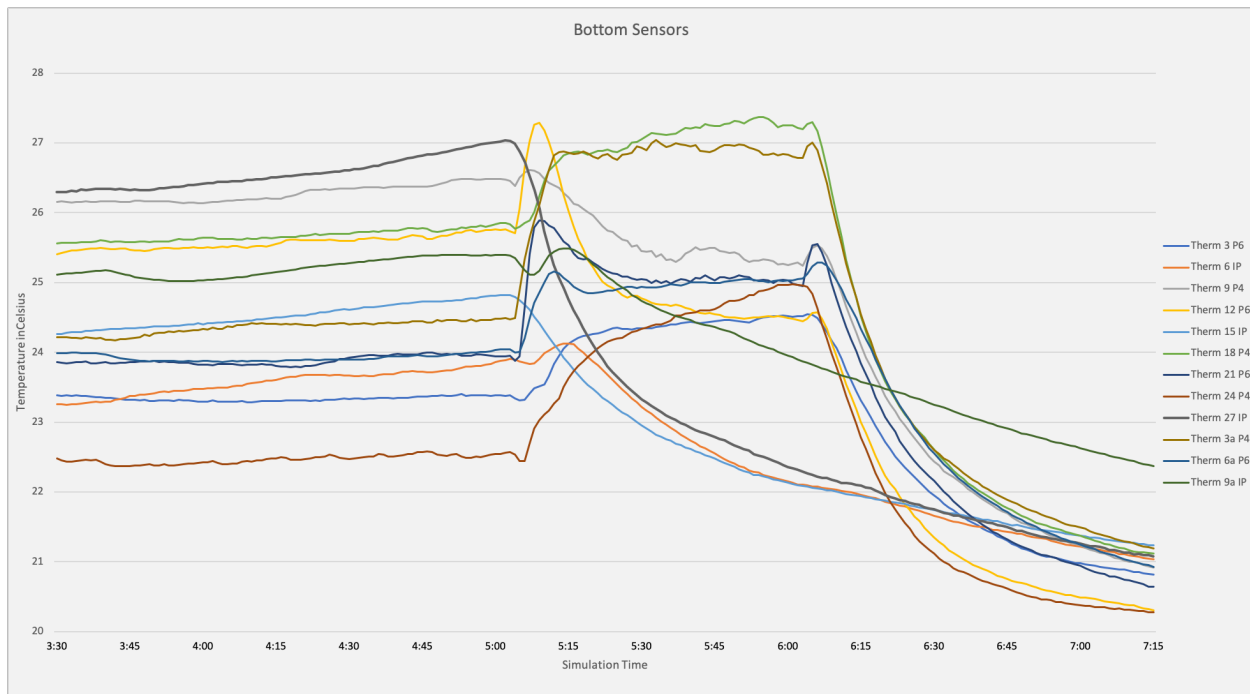


Figure 23 Test One Outflow Temperature Sensors

Test Two

The second simulation in this study followed the same outline as the first simulation. As previously stated, the simulation was broken it three phases that lasted a total of 7 hours and 15 minutes. The heating cycle was recreated and lasted 5 consecutive hours, and the cooling cycle lasted 1 hour. Sprinklers were turned on immediately after the heat was removed from the concretes surface. Data collection continued for 1 hour and 15 minutes after the sprinklers were turned off to evaluate cooling trends among the surfaces. In addition, modifications were made to the impervious collection trays to achieve accurate runoff recordings. Holes were added to the bottom of each collection tray to allow water to drip from the bottoms of each tray. This was an effort to prevent an average temperature reading by the impervious outflow temperature sensors. When evaluating the data recorded from surface, sensors in this simulation, the results were similar. The 4” pervious concrete test cells had the highest average surface temperature at 35.16 degrees Celsius. The outflow readings in this simulation posted slightly different results, unlike simulation one where the 6” pervious test cells and a lower outflow average. The 4” pervious test cells had a lower temperature, despite being the warmest on the surface. (Table 8).

Pervious 6" Concrete			
	Surface Sensor	Midpoint Sensor	Outflow Sensor
Average Temperature	34.84	28.45	23.34
High Temperature	43.57	35.32	25.27
Low Temperature	20.58	19.49	19.05
Standard Deviation	8.14	4.71	1.74
Median Temperature	38.76	29.39	24.06

Pervious 4" Concrete			
	Surface Sensor	Midpoint Sensor	Outflow Sensor
Average Temperature	35.16	33.50	23.31
High Temperature	44.57	43.60	25.62
Low Temperature	20.25	19.71	19.42
Standard Deviation	8.68	6.73	1.71
Median Temperature	39.23	33.79	23.79

Impervious 4" Concrete			
	Surface Sensor	Midpoint Sensor	Outflow Sensor
Average Temperature	33.89	31.24	23.18
High Temperature	42.14	39.47	25.61
Low Temperature	19.92	19.44	19.33
Standard Deviation	6.47	5.26	1.88
Median Temperature	35.70	31.37	23.55

Table 8 Test Two Temperature Readings in Celsius

Throughout the second simulation, graphical trends followed the results of the first simulation, much like the first simulation surface temperatures rapidly spiked when the heat lamps were turned on. As the heat cycle continued and surfaces began to warm, the temperatures began to flatten out. Midpoint sensors gradually increased as heat began to penetrate the concrete. As seen in figure 25 below, 6” pervious concrete test cells have a lower internal temperature compared to 4” pervious concrete test cells. Outflow sensors remained constant throughout all of the heating cycles. During the cooling period, the surface temperature quickly decreased as the sprinklers ran. Much like during the heating cycle, the midpoint sensors gradually decreased as the sprinklers ran. Outflow sensors behaved much like they did in the first simulation. The pervious sensors gradually increased as warm water leached through and then drastically decreased as the study continued. Impervious outflow sensors showed a steady decrease in temperature. (Figures 24,25,26)

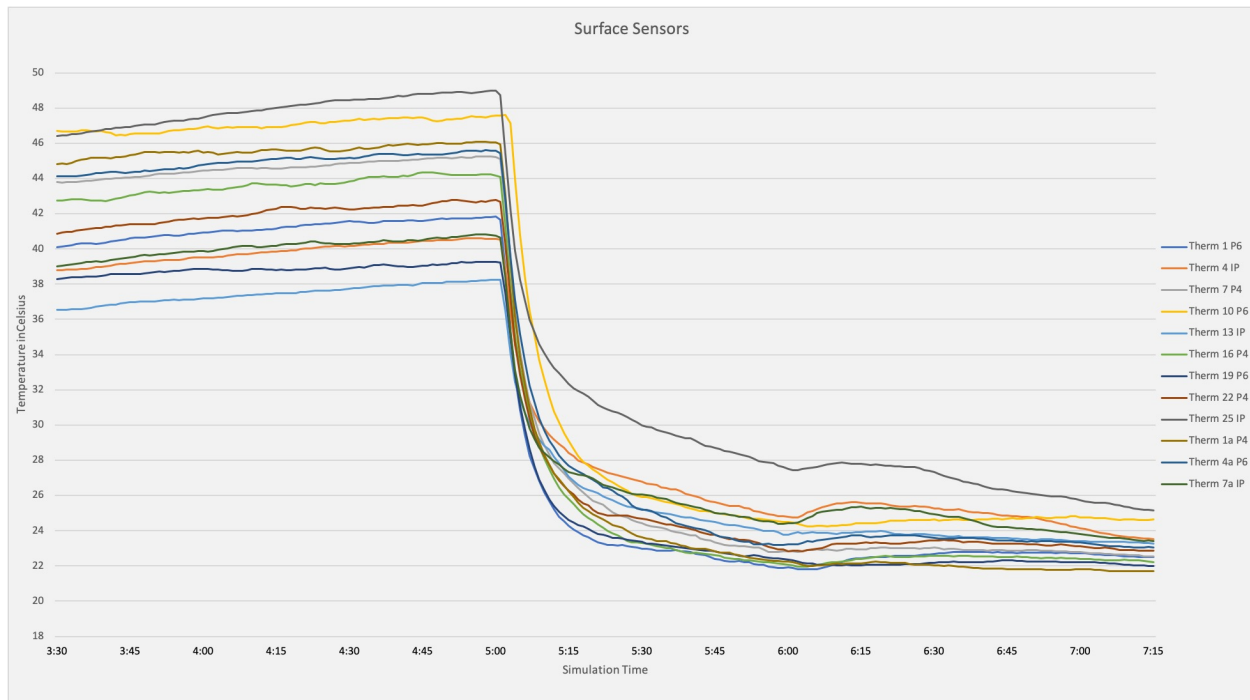


Figure 24 Test Two Surface Temperature Sensors

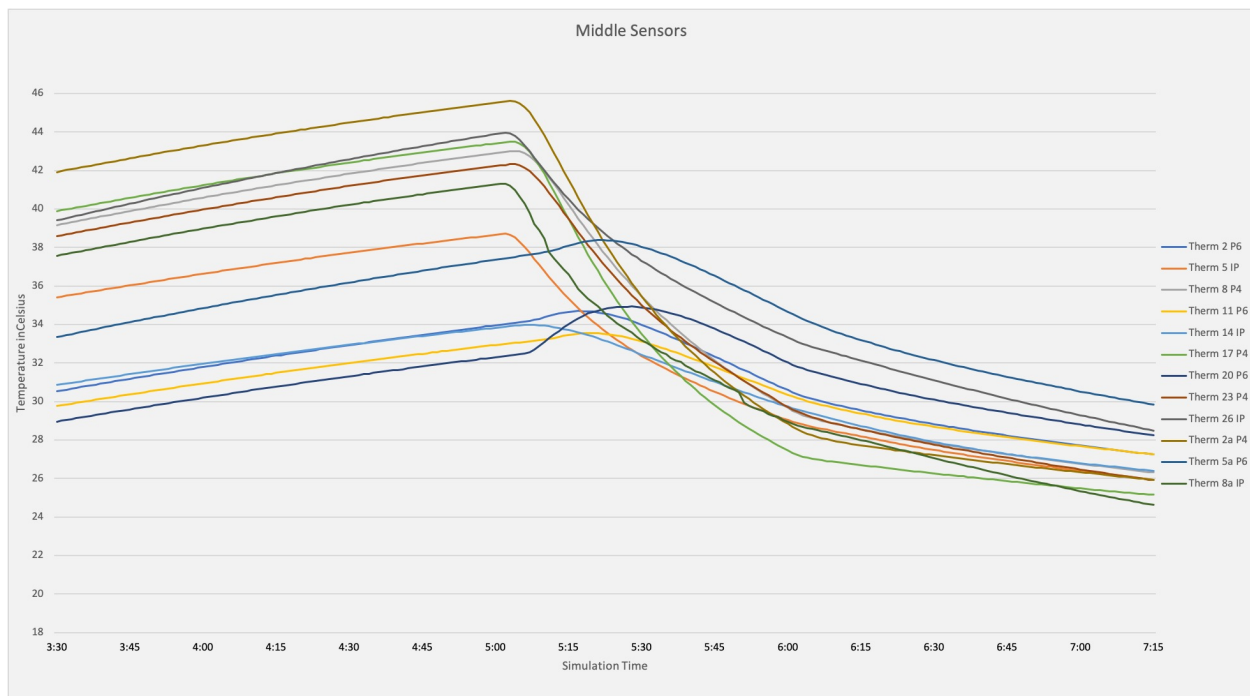


Figure 25 Test Two Midpoint Temperature Sensors

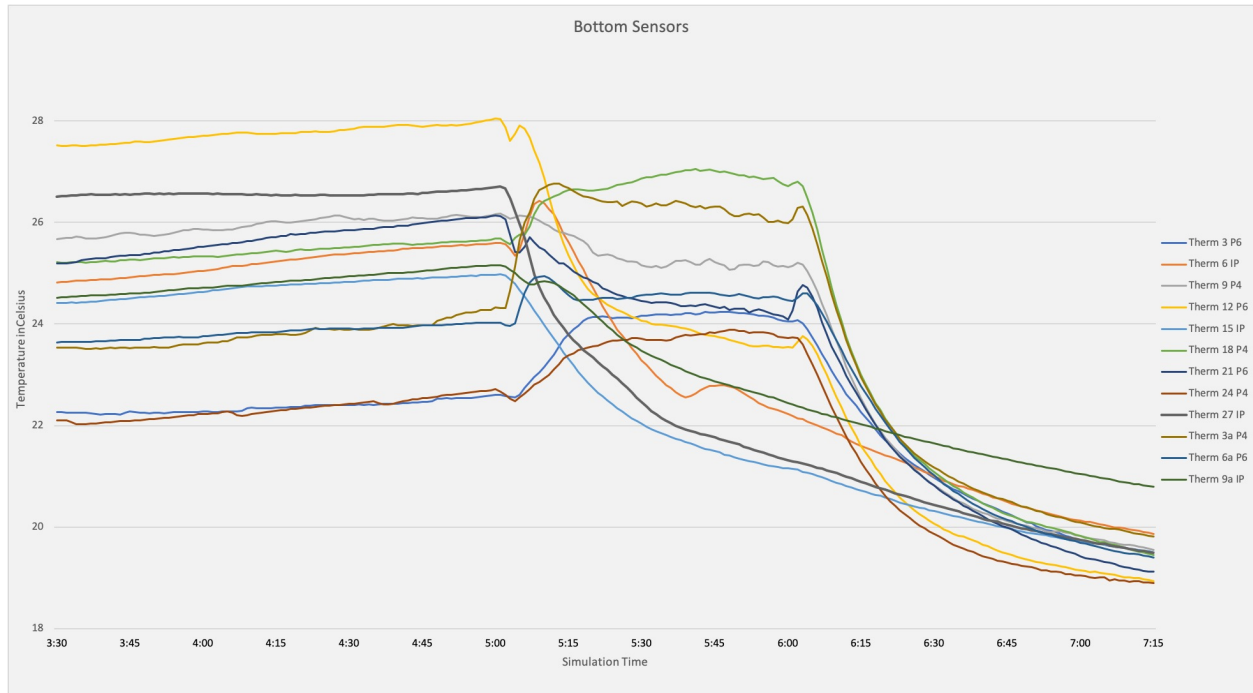


Figure 26 Test Two Outflow Temperature Sensors

Test Three

The third and final simulation in this study followed the same outline as the previous two simulations. The final simulation lasted a total of 7 hours and 15 minutes. The heating cycle was similar to the previous simulations and lasted 5 consecutive hours, and the cooling cycle lasted 1 hour. Water was turned on immediately after the heat was removed from the concrete's surface. Data collection continued for 1 hour and 15 minutes after the sprinklers were turned off to evaluate cooling trends within the materials used. No modifications were made to the testing area prior to this simulation. When evaluating the data recorded in simulation three, the results followed the same patterns and previously observed. The 4" pervious concrete test cells had the warmest average surface temperature compared to the 6" pervious test cells and the impervious test cells. In the midpoint, the 6" pervious test cells had a lower internal temperature compared to the 4" pervious test cells and the impervious test cells. Outflow results were much like simulation one, where the pervious 6" concrete had a lower average temperature than the 4" pervious concrete test cells. (Table 9)

Pervious 6" Concrete			
	Surface Sensor	Midpoint Sensor	Outflow Sensor
Average Temperature	34.59	28.65	23.82
High Temperature	43.29	35.50	25.48
Low Temperature	20.70	19.70	19.37
Standard Deviation	7.72	4.71	1.62
Median Temperature	38.12	29.63	24.47

Pervious 4" Concrete			
	Surface Sensor	Midpoint Sensor	Outflow Sensor
Average Temperature	35.45	33.67	23.67
High Temperature	44.92	43.75	25.90
Low Temperature	20.33	19.86	19.61
Standard Deviation	8.42	6.64	1.61
Median Temperature	39.24	33.89	24.14

Impervious 4" Concrete			
	Surface Sensor	Midpoint Sensor	Outflow Sensor
Average Temperature	34.28	31.57	23.35
High Temperature	42.51	39.75	25.76
Low Temperature	20.08	19.72	19.82
Standard Deviation	6.28	5.21	1.61
Median Temperature	35.99	31.66	23.49

Table 9 Test Three Temperature Readings in Celsius

The graphical results of the third and final simulation were similar to the graphs posted in the previous two simulations. The surface temperatures on all three surfaces spiked when the heat lamps were introduced. Around the 0:30 minute mark, temperatures began to level off for the remainder of the heating cycle. When compared to the surface recordings in the previous two simulations, surface temperatures in this simulation were grouped slightly together. This shows that all three surfaces have a more uniform surface temperature. Midpoint sensors followed the same warming and cooling patterns, as previously observed. Much like the other simulations, 6" pervious concrete test cells had a lower internal temperature compared to 4" pervious concrete test cells and impervious test cells. When evaluating the data recorded in the outflow sensors, it was similar to prior simulations. Pervious 4" concrete and pervious 6" concrete would spike as the cooling cycle began and then do one of three things. Outflow temperature would increase, decrease, or remain constant. As the study continued, the pervious concrete would quickly

decrease in temperature, eventually falling below the impervious concrete surfaces. (Figures 27,28,29).

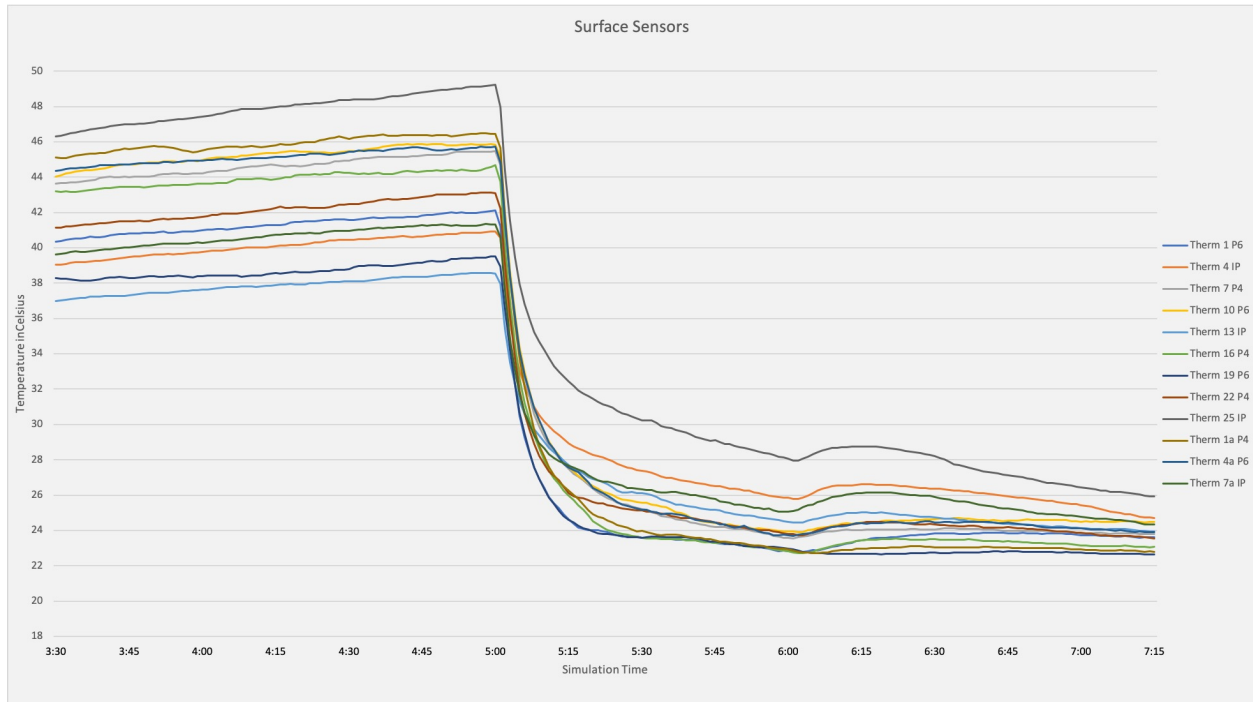


Figure 27 Test Three Surface Temperature Sensors

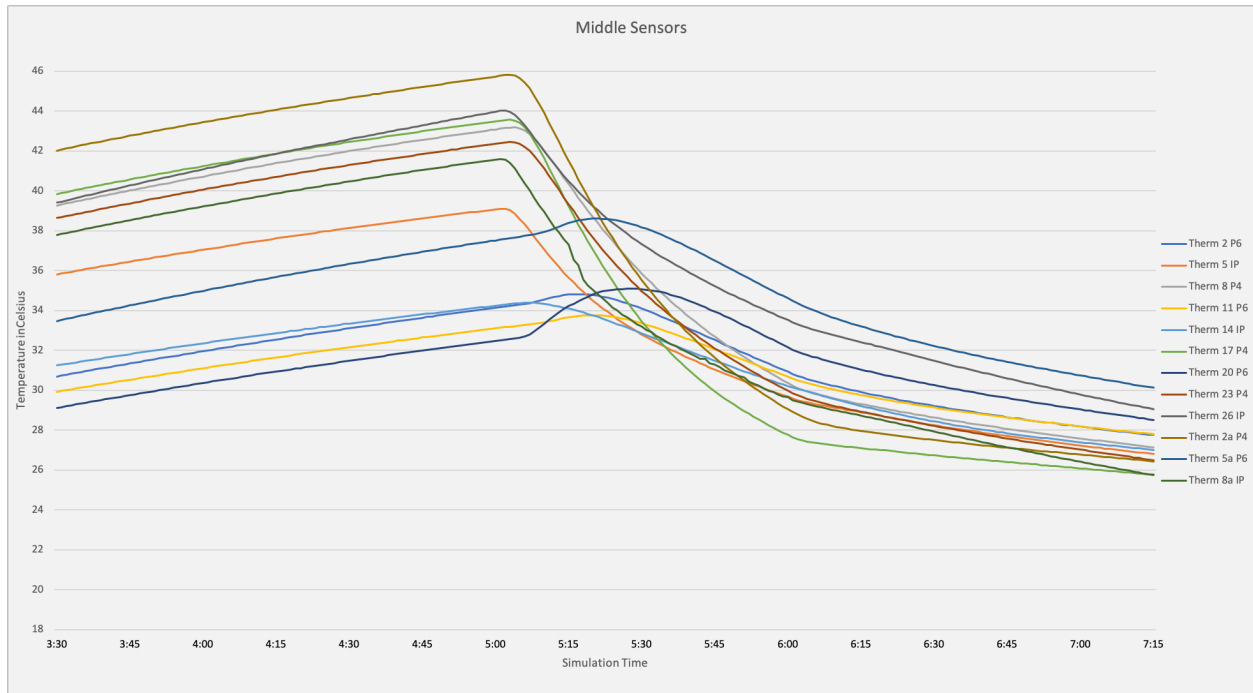


Figure 28 Test Three Midpoint Temperature Sensors

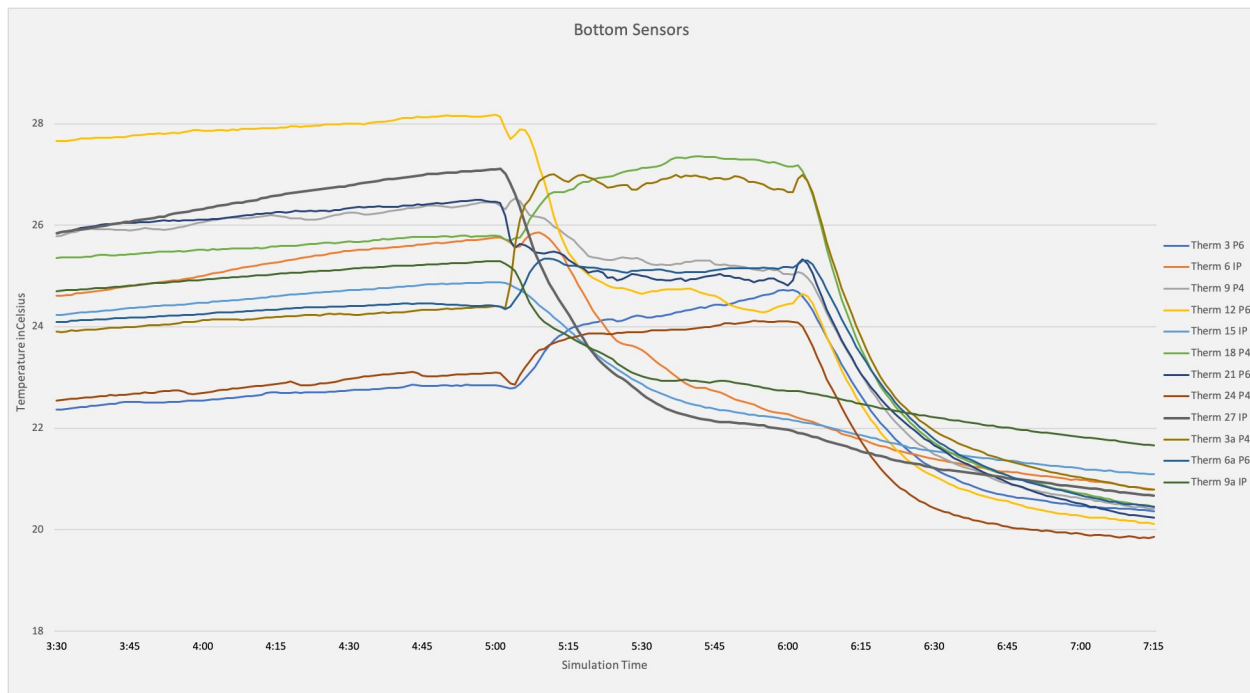


Figure 29 Test Three Outflow Temperature Sensors

Chapter: 5 Conclusion and Future Research

5.1 Conclusion

Within this study, pervious concrete was evaluated for its ability to mitigate heat from urban stormwater during simulated rain events. This study focused on a comparison of 4" pervious concrete and 6" pervious concrete. Impervious test cells were also evaluated in this research. Although both the 4" pervious test cells and 6" pervious test cells behaved similarly throughout this study, there were several areas where the two surfaces deviated slightly. As previously stated, all three surfaces underwent a heating cycle to simulate thermal heating from sunlight. During the heating cycles, both pervious concrete surfaces spike initially due to the change in heat brought on by the heat lamps. The greatest increases in temperature were from the start of the heating cycle to the 0:30-minute mark. Throughout the remainder of the study, the 4" pervious test cells had a higher surface temperature compared to the 6" pervious test cells. The cause of this faster rise in temperature was directly related to the test cell thickness. The 4" pervious test cells used in this study have less volume compared to 6" pervious test cells, which allowed them to heat quicker under the heat lamps. When the cooling cycle began, and water was

applied, the results were flipped. The larger volume of concrete associated with the 6” pervious test cells decreased its cooling capabilities compared to the 4” pervious test cells. The 4” pervious test cells were able to quickly reduce in temperature due to having a lower concrete volume, eventually falling below the 6” pervious test cells. When compared to the impervious test cells, both pervious test cells heated quicker than the impervious test cells. This was interesting, due to the common idea that pervious concrete is cooler than impervious concrete. During the cooling cycle, the pores associated with the pervious concrete, allowed both 4” pervious test cells and 6” pervious test cells to reduce heat much faster than the impervious test cells. At the 6:00 hour, it was interesting to see that all three surface materials slightly increased in temperature again after the water was removed. The increase in the pervious concrete test cells was lower than the impervious test cells. The graph below is composed of average temperatures throughout all three simulations by surface type. (Figure 30)

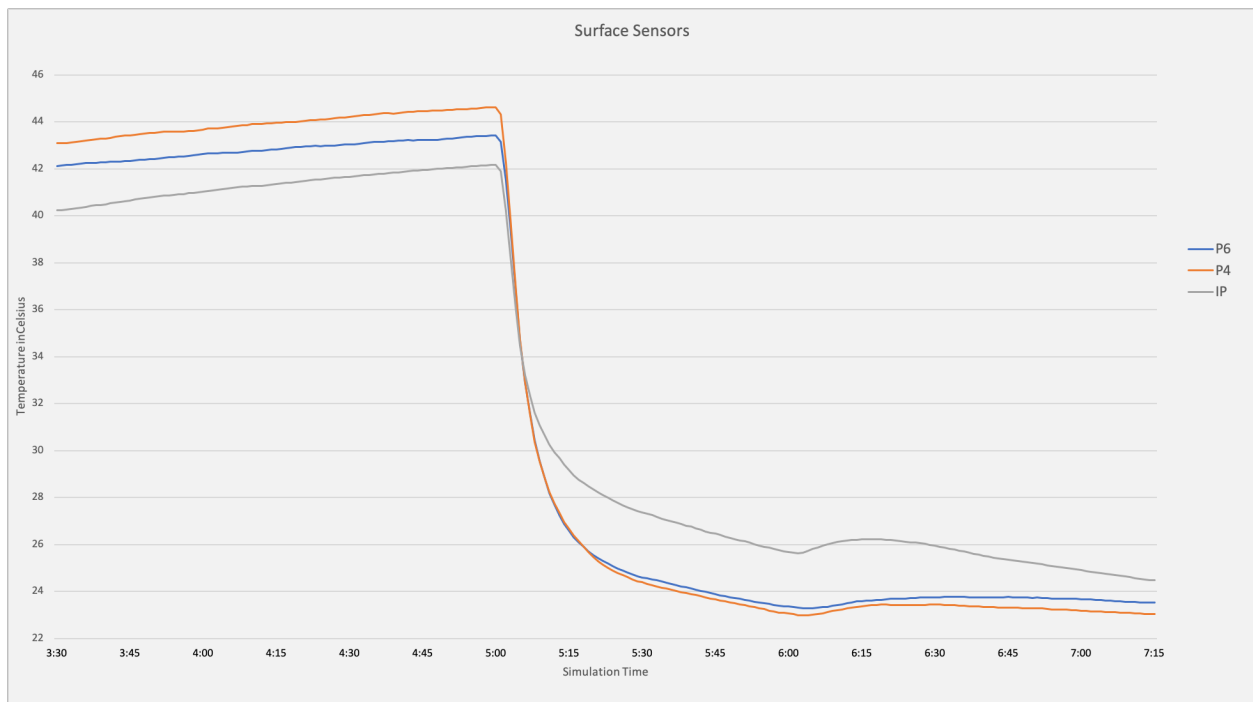


Figure 30 Average Surface Temperature

When evaluating the data recorded by the mid-point sensors, it documented that concrete volume played a key role in its thermal properties. The 4” pervious concrete test cells and the 4” impervious concrete test cells both trended warmer than the 6” pervious concrete test cells. This is due to the 6” pervious concrete test cells have a larger volume of concrete to heat up. In the

cooling cycle, similar results were documented. Pervious 6” test cells took a longer time to cool, and the warmer 4” pervious test cells quickly fell below the 6” pervious test cells before they began to follow the same cooling patterns. The graph below shows average midpoint temperatures throughout the 7 hour and 15-minute simulation. (Figure 31)

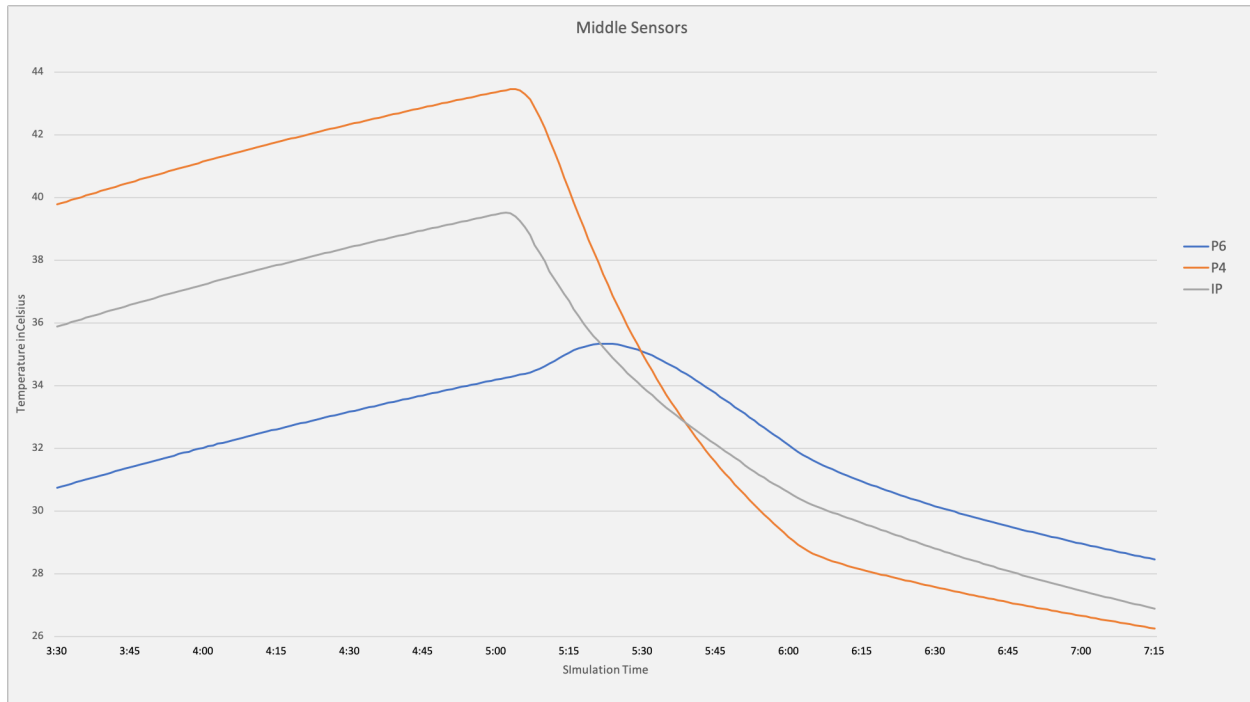


Figure 31 Average Midpoint Temperature

Data recorded by the outflow sensors reported an interesting change in temperature across all three surfaces studied in this experiment. Pervious concrete's ability to allow water to leach through its pores shows different results compared to impervious concrete. When comparing 4” pervious concrete test cells and 6” pervious concrete leachate water from the test cells was similar. Much like the data recorded at the other sensor locations, leachate water was warmer in the 4” pervious concrete test cells compared to the 6” pervious concrete test cells. As the cool down cycle begins and water was introduced, the increased temperature in the 4” pervious concrete spiked slightly due to having a warmer surface temperature. The initial increase was lower on the 6” pervious test cell due to lower surface temperature. As leachate water continued, the 4” pervious test cells stayed at a similar temperature throughout the remainder of the rain simulation. Pervious 6” test cells decreased slightly as the rain simulation continued. After the

water was removed, both pervious test cells fell to almost the same temperature. When comparing pervious concrete to impervious concrete the results were unique. Pervious materials tended to spike when the water was initially started. As the study continued, temperatures would drastically fall, whereas impervious building materials would gradually fall as water was introduced. The graph below shows a comparison between the three surfaces studied. (Figure 32)

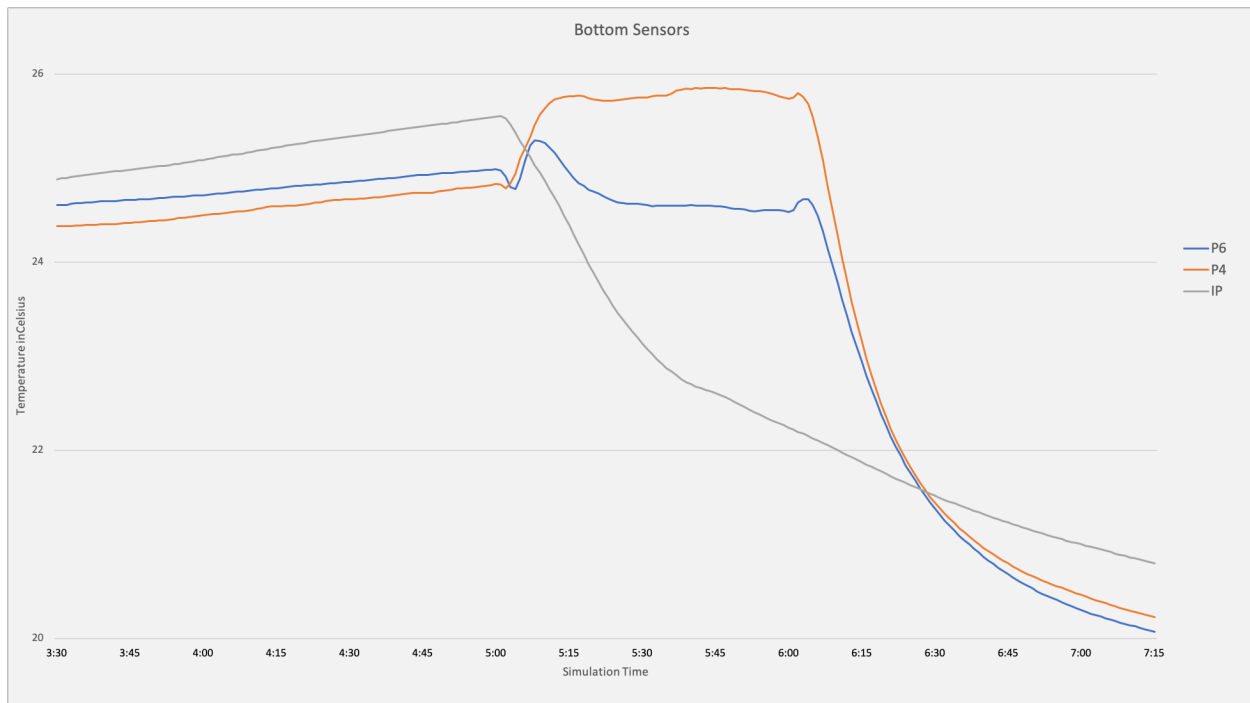


Figure 32 Average Outflow Temperature

Outflow readings varied across the 4" pervious test cells and the 6" pervious test cells. As seen in the figure below, there are several different trends that the pervious concrete followed. Therm 3, Therm 18, Therm 24 each followed the same patterns, as they rapidly increased in the first 15 minutes as water was introduced and then gradually increased as water continued. Therm 6a and Therm 3a had similar cooling characteristics, both sensors increased rapidly as the water was introduced and leveled off throughout the remainder of the cooling cycle. Therm 21 and Therm 9 offered a cooling trend as water continued leach through the concrete. These two sensors ended the cooling cycle at a cooler temperature than at the start. Therm 12 noted the largest decrease in temperature throughout the cooling cycle as it drastically fell in temperature shortly after the water was introduced. Upon further examination, it is clear that outflow temperature readings are directly related to the infiltration rate of the pervious concrete. Pervious test cells with a higher

infiltration rate reported a decreasing temperature trend throughout the cooling cycle, whereas test cells with a lower infiltration rate reported a steady increase in temperature as rainfall continued. High infiltration rates allowed rainwater to leach faster. This decreased the time water spends in the pours reducing the temperature change brought on by pervious concrete. A lower infiltration rate reduced the speed of leaching water, as the cooling cycle continued moisture began to be stored in the concrete, creating a rise in temperature throughout the entire cooling cycle. (Figure 33)

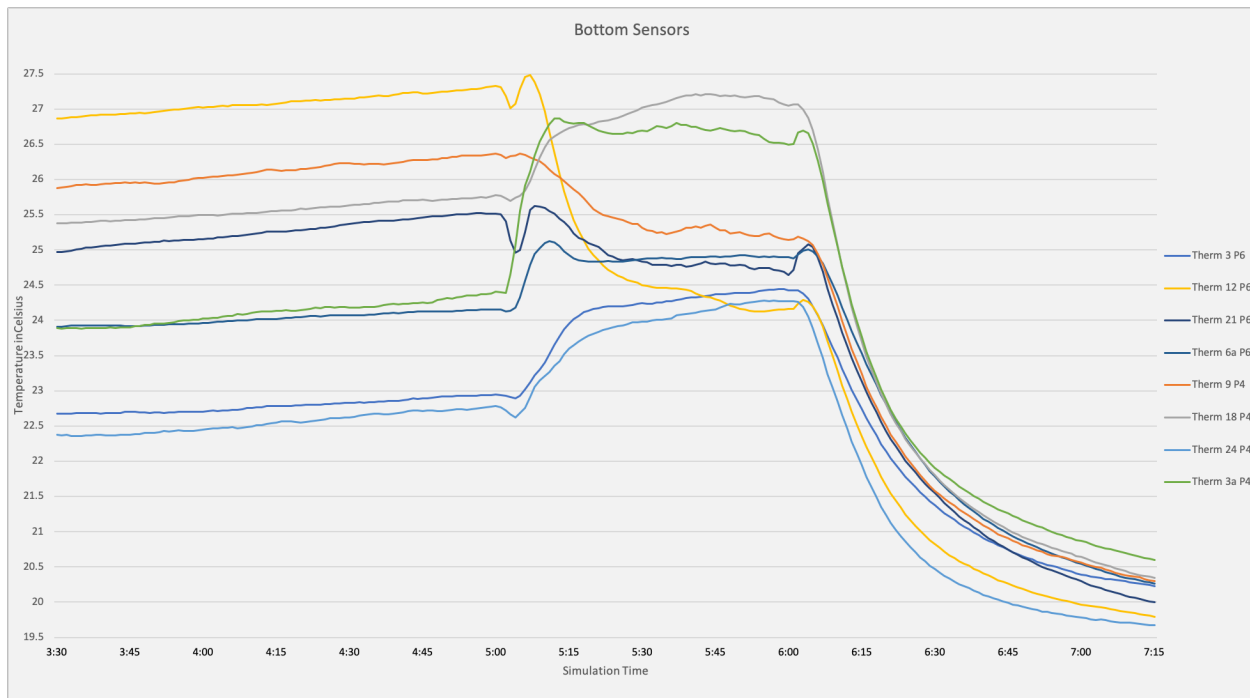


Figure 33 Pervious Concrete Outflow Comparison

When evaluating the results from this study it is clear that varying concrete thickness changes its thermal properties. Pervious concrete is unique in the sense that water can flow through its pores unlike impervious concrete where run off is common. Pervious concrete 6” test cells reported favorable results when compared to 4” pervious concrete test cells in this study. Although the larger volume of concrete in the 6” test cells held heat longer on the surface and midsection, the outflow results reported a slightly cooler temperature than the 4” impervious. When evaluating surface temperatures pervious concrete 4” and 6” both had a warmer surface reading than impervious surface materials. This is concerning when evaluating pervious materials for pedestrian walkways in and around Auburn University’s campus. In other applications, pervious

concrete documented positive results in its ability to offer a cooler environment for urban storm water.

5.2 Future Research

As previously referenced, this study is part of ongoing research conducted by the Green Infrastructure team at Auburn University. As simulation on pervious concrete was conducted in the lab, ways to improve and expand research were recorded. Future research will consist of varying materials tested under lab simulations. As previously documented, one test cell was left vacant in each test rack for future research. In the future, researchers plan to evaluate pervious pavers and gravel under similar conditions studied in this research. By rotating various pervious materials into this study, data can be recorded and compared to 4" pervious and 6" pervious test cells.

This research reported that pervious 6" test cells are slower to heat up compared to 4" pervious test cells. Expanding research in the area of longer trials would show how concrete behaves under higher thermal loads. Heat cycles lasting 8 or 9 hours would allow 6" pervious concrete to reach a more constant internal temperature.

Lastly, if the study was removed from the lab and placed in a natural setting, more accurate data could be achieved. This would allow for natural thermal heating by the sun and moisture from summertime rain clouds. The drawback to the method is it could be time consuming due to the fact that rain is unpredictable at times.

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Appendix

Appendix A

Four Hour Test Trial Results in Celsius

Time	Pervious 6"					Pervious 4"					Impervious 4"				
	T 1	T 10	T 19	T 4a	Avg.	T 7	T 16	T 22	T 1a	Avg.	T 4	T 13	T 25	T 7a	Avg.
0:00	19.77	20.94	19.78	20.05	20.14	19.77	19.80	19.79	19.97	19.83	18.96	19.07	19.32	19.49	19.21
0:01	19.77	20.94	19.78	20.05	20.14	19.78	19.80	19.80	19.97	19.84	18.97	19.08	19.33	19.50	19.22
0:02	20.32	21.70	20.03	20.63	20.67	20.16	20.19	20.33	20.41	20.27	19.23	19.51	20.02	19.90	19.67
0:03	21.31	23.18	20.56	21.72	21.69	20.95	20.90	21.37	21.31	21.13	19.82	20.35	21.18	20.83	20.54
0:04	22.29	24.73	21.13	22.83	22.74	21.78	21.65	22.39	22.22	22.01	20.44	21.24	22.31	21.79	21.44
0:05	23.17	26.21	21.66	23.87	23.73	22.58	22.38	23.31	23.09	22.84	21.05	22.08	23.34	22.70	22.29
0:06	23.99	27.57	22.18	24.85	24.65	23.34	23.07	24.15	23.93	23.62	21.64	22.85	24.28	23.54	23.08
0:07	24.78	28.82	22.67	25.74	25.50	24.05	23.72	24.93	24.63	24.33	22.18	23.56	25.14	24.28	23.79
0:08	25.57	29.97	23.15	26.57	26.32	24.72	24.34	25.67	25.29	25.00	22.70	24.21	25.93	24.97	24.45
0:09	26.30	31.03	23.60	27.32	27.06	25.33	24.93	26.37	25.92	25.64	23.17	24.80	26.67	25.59	25.06
0:10	26.96	31.99	24.03	28.03	27.75	25.91	25.48	26.99	26.56	26.24	23.62	25.36	27.36	26.15	25.62
0:11	27.58	32.89	24.42	28.71	28.40	26.46	25.99	27.58	27.14	26.79	24.04	25.87	27.98	26.69	26.15
0:12	28.15	33.75	24.81	29.30	29.00	26.97	26.47	28.13	27.70	27.32	24.44	26.36	28.55	27.18	26.63
0:13	28.68	34.56	25.17	29.85	29.57	27.44	26.89	28.65	28.14	27.78	24.79	26.83	29.10	27.64	27.09
0:14	29.17	35.37	25.51	30.41	30.11	27.88	27.31	29.13	28.51	28.21	25.15	27.26	29.59	28.05	27.51
0:15	29.64	36.11	25.83	30.92	30.63	28.31	27.71	29.55	28.86	28.61	25.47	27.63	30.08	28.44	27.91
0:16	30.09	36.85	26.16	31.41	31.13	28.71	28.09	29.98	29.21	29.00	25.78	28.00	30.55	28.79	28.28
0:17	30.52	37.53	26.46	31.88	31.60	29.12	28.46	30.39	29.54	29.38	26.08	28.31	30.98	29.11	28.62
0:18	30.93	38.22	26.70	32.34	32.05	29.49	28.79	30.78	29.89	29.74	26.36	28.62	31.37	29.44	28.95
0:19	31.30	38.87	26.95	32.79	32.48	29.86	29.09	31.14	30.24	30.08	26.61	28.94	31.72	29.76	29.26
0:20	31.64	39.48	27.18	33.20	32.87	30.20	29.35	31.48	30.58	30.40	26.83	29.21	32.08	30.04	29.54
0:21	31.99	40.04	27.41	33.58	33.25	30.55	29.62	31.79	30.93	30.72	27.07	29.49	32.42	30.29	29.82
0:22	32.30	40.58	27.62	33.95	33.61	30.87	29.90	32.11	31.21	31.02	27.28	29.74	32.75	30.53	30.07
0:23	32.60	41.09	27.84	34.29	33.95	31.18	30.13	32.43	31.52	31.31	27.47	29.95	33.06	30.76	30.31
0:24	32.87	41.58	28.01	34.60	34.27	31.44	30.38	32.69	31.80	31.58	27.68	30.18	33.35	30.97	30.55
0:25	33.14	42.04	28.20	34.88	34.57	31.67	30.63	32.96	32.10	31.84	27.87	30.41	33.64	31.17	30.77
0:26	33.41	42.50	28.35	35.18	34.86	31.93	30.88	33.22	32.40	32.11	28.04	30.60	33.87	31.35	30.97
0:27	33.65	42.92	28.53	35.43	35.13	32.15	31.12	33.42	32.66	32.34	28.21	30.77	34.11	31.50	31.15
0:28	33.89	43.31	28.68	35.69	35.39	32.36	31.33	33.65	32.88	32.56	28.40	30.95	34.35	31.62	31.33
0:29	34.13	43.69	28.83	35.95	35.65	32.57	31.52	33.85	33.12	32.76	28.54	31.10	34.55	31.74	31.48
0:30	34.35	44.04	28.96	36.20	35.89	32.79	31.70	34.04	33.33	32.97	28.69	31.27	34.72	31.88	31.64
0:31	34.52	44.37	29.11	36.48	36.12	32.99	31.91	34.24	33.50	33.16	28.82	31.39	34.89	32.10	31.80
0:32	34.69	44.65	29.27	36.71	36.33	33.19	32.11	34.44	33.65	33.35	28.96	31.52	35.05	32.27	31.95
0:33	34.88	44.95	29.40	36.91	36.53	33.37	32.28	34.63	33.86	33.53	29.08	31.64	35.23	32.40	32.09
0:34	35.06	45.20	29.52	37.12	36.73	33.52	32.38	34.76	34.05	33.68	29.21	31.78	35.38	32.50	32.22
0:35	35.24	45.43	29.66	37.32	36.91	33.70	32.54	34.91	34.19	33.84	29.34	31.90	35.50	32.67	32.35
0:36	35.41	45.62	29.80	37.52	37.09	33.81	32.69	35.01	34.33	33.96	29.47	32.04	35.58	32.85	32.48
0:37	35.54	45.82	29.95	37.70	37.25	33.92	32.82	35.14	34.48	34.09	29.59	32.16	35.64	32.98	32.59
0:38	35.68	45.98	30.08	37.87	37.40	33.99	32.93	35.28	34.61	34.20	29.71	32.28	35.71	33.07	32.69
0:39	35.77	46.11	30.18	37.98	37.51	34.06	33.05	35.41	34.70	34.31	29.82	32.38	35.76	33.13	32.77
0:40	35.89	46.18	30.29	38.10	37.62	34.17	33.13	35.50	34.84	34.41	29.92	32.48	35.82	33.22	32.86
0:41	35.98	46.26	30.42	38.19	37.71	34.23	33.20	35.55	35.02	34.50	30.02	32.56	35.90	33.28	32.94
0:42	36.03	46.32	30.51	38.27	37.78	34.33	33.30	35.63	35.17	34.61	30.10	32.64	35.99	33.33	33.02
0:43	36.06	46.40	30.64	38.35	37.86	34.45	33.33	35.71	35.26	34.69	30.17	32.70	36.06	33.37	33.07
0:44	36.13	46.45	30.78	38.44	37.95	34.57	33.40	35.80	35.41	34.80	30.23	32.75	36.13	33.44	33.14
0:45	36.19	46.53	30.88	38.52	38.03	34.66	33.46	35.89	35.55	34.89	30.30	32.86	36.20	33.53	33.22
0:46	36.27	46.66	30.98	38.58	38.12	34.75	33.55	36.00	35.59	34.97	30.35	32.95	36.28	33.62	33.30
0:47	36.34	46.79	31.08	38.69	38.22	34.88	33.62	36.09	35.68	35.07	30.43	33.02	36.37	33.70	33.38
0:48	36.40	46.91	31.15	38.76	38.31	34.99	33.63	36.22	35.79	35.16	30.46	33.12	36.44	33.72	33.43
0:49	36.48	47.02	31.22	38.80	38.38	35.09	33.62	36.34	35.85	35.22	30.54	33.21	36.51	33.78	33.51
0:50	36.58	47.16	31.32	38.89	38.49	35.18	33.66	36.39	35.98	35.30	30.60	33.28	36.57	33.84	33.57
0:51	36.63	47.25	31.39	38.98	38.56	35.27	33.70	36.48	36.03	35.37	30.66	33.33	36.62	33.92	33.63
0:52	36.66	47.31	31.47	39.07	38.63	35.36	33.72	36.55	36.12	35.44	30.71	33.39	36.71	34.00	33.70
0:53	36.71	47.41	31.57	39.15	38.71	35.42	33.74	36.64	36.18	35.49	30.78	33.45	36.77	34.05	33.76
0:54	36.75	47.46	31.64	39.21	38.76	35.49	33.76	36.65	36.24	35.54	30.84	33.53	36.80	34.05	33.81
0:55	36.75	47.51	31.72	39.26	38.81	35.58	33.79	36.68	36.30	35.59	30.89	33.61	36.87	34.07	33.86
0:56	36.76	47.53	31.79	39.32	38.85	35.67	33.77	36.76	36.32	35.63	30.96	33.70	36.92	34.09	33.92
0:57	36.81	47.64	31.85	39.39	38.92	35.74	33.80	36.87	36.34	35.69	31.00	33.78	36.99	34.09	33.97
0:58	36.83	47.74	31.89	39.46	38.98	35.82	33.80	36.95	36.42	35.75	31.04	33.86	37.05	34.10	34.01
0:59	36.89	47.79	31.98	39.51	39.04	35.89	33.80	37.00	36.47	35.79	31.09	33.93	37.09	34.12	34.06

1:00	36.92	47.84	32.03	39.55	39.09	35.96	33.86	37.08	36.51	35.85	31.14	33.97	37.14	34.18	34.11
1:01	36.97	47.88	32.07	39.61	39.13	36.01	33.89	37.10	36.51	35.87	31.16	34.03	37.18	34.23	34.15
1:02	37.03	47.94	32.14	39.67	39.19	36.09	33.88	37.12	36.53	35.90	31.20	34.08	37.22	34.28	34.19
1:03	37.09	47.99	32.18	39.71	39.24	36.16	33.89	37.19	36.58	35.95	31.23	34.14	37.33	34.28	34.24
1:04	37.09	48.03	32.22	39.78	39.28	36.23	33.88	37.21	36.66	35.99	31.29	34.21	37.41	34.32	34.31
1:05	37.10	48.11	32.26	39.85	39.33	36.29	33.91	37.23	36.72	36.04	31.35	34.25	37.49	34.35	34.36
1:06	37.11	48.17	32.31	39.93	39.38	36.32	33.91	37.28	36.82	36.09	31.38	34.32	37.57	34.41	34.42
1:07	37.13	48.27	32.35	39.99	39.43	36.38	33.96	37.36	36.86	36.14	31.41	34.37	37.59	34.46	34.46
1:08	37.16	48.37	32.42	40.05	39.50	36.45	34.02	37.45	36.88	36.20	31.43	34.41	37.63	34.48	34.49
1:09	37.20	48.43	32.45	40.13	39.55	36.48	34.04	37.56	36.95	36.26	31.44	34.47	37.69	34.50	34.52
1:10	37.23	48.49	32.51	40.15	39.60	36.53	34.07	37.58	37.01	36.30	31.48	34.51	37.71	34.51	34.55
1:11	37.25	48.53	32.57	40.21	39.64	36.56	34.10	37.62	37.11	36.35	31.51	34.57	37.79	34.59	34.61
1:12	37.32	48.54	32.63	40.31	39.70	36.62	34.13	37.58	37.19	36.38	31.55	34.62	37.83	34.71	34.68
1:13	37.34	48.61	32.65	40.36	39.74	36.68	34.17	37.63	37.25	36.43	31.60	34.68	37.87	34.79	34.74
1:14	37.40	48.66	32.71	40.41	39.79	36.73	34.22	37.68	37.31	36.49	31.64	34.75	37.93	34.86	34.79
1:15	37.47	48.70	32.73	40.47	39.84	36.78	34.27	37.77	37.33	36.54	31.67	34.80	38.01	34.93	34.85
1:16	37.55	48.78	32.78	40.55	39.92	36.84	34.30	37.87	37.35	36.59	31.71	34.85	38.08	34.98	34.90
1:17	37.57	48.84	32.84	40.61	39.97	36.91	34.35	37.92	37.38	36.64	31.77	34.90	38.13	35.04	34.96
1:18	37.64	48.88	32.89	40.67	40.02	36.96	34.43	38.00	37.49	36.72	31.83	34.95	38.21	35.10	35.02
1:19	37.70	48.97	32.90	40.74	40.08	37.02	34.45	38.11	37.58	36.79	31.88	34.99	38.24	35.15	35.06
1:20	37.71	49.04	32.92	40.77	40.11	37.08	34.48	38.21	37.55	36.83	31.92	35.04	38.30	35.16	35.10
1:21	37.73	49.08	32.95	40.84	40.15	37.13	34.49	38.28	37.55	36.86	31.95	35.10	38.40	35.19	35.16
1:22	37.71	49.11	32.98	40.88	40.17	37.17	34.51	38.35	37.62	36.91	31.96	35.13	38.48	35.23	35.20
1:23	37.77	49.17	33.01	40.91	40.22	37.21	34.51	38.43	37.69	36.96	31.99	35.18	38.51	35.30	35.25
1:24	37.80	49.23	33.05	40.97	40.26	37.27	34.53	38.46	37.71	36.99	32.04	35.23	38.57	35.32	35.29
1:25	37.78	49.29	33.09	41.02	40.29	37.32	34.55	38.50	37.74	37.03	32.06	35.30	38.61	35.31	35.32
1:26	37.77	49.33	33.12	41.06	40.32	37.34	34.57	38.49	37.76	37.04	32.08	35.36	38.67	35.34	35.36
1:27	37.82	49.37	33.18	41.09	40.36	37.38	34.64	38.48	37.85	37.09	32.14	35.41	38.73	35.41	35.42
1:28	37.87	49.46	33.20	41.15	40.42	37.41	34.67	38.47	37.95	37.13	32.18	35.45	38.77	35.49	35.47
1:29	37.93	49.56	33.24	41.21	40.48	37.48	34.70	38.46	37.99	37.16	32.22	35.49	38.78	35.56	35.51
1:30	37.96	49.61	33.28	41.25	40.53	37.53	34.72	38.49	37.96	37.17	32.27	35.52	38.80	35.61	35.55
1:31	37.97	49.69	33.33	41.32	40.58	37.58	34.74	38.55	37.99	37.21	32.33	35.55	38.86	35.61	35.59
1:32	38.03	49.70	33.35	41.38	40.62	37.60	34.77	38.57	37.97	37.23	32.37	35.58	38.89	35.66	35.62
1:33	38.08	49.73	33.37	41.42	40.65	37.64	34.80	38.63	38.00	37.27	32.40	35.63	38.93	35.74	35.68
1:34	38.11	49.80	33.40	41.48	40.70	37.67	34.83	38.66	38.09	37.31	32.44	35.68	38.98	35.82	35.73
1:35	38.14	49.81	33.42	41.52	40.73	37.69	34.86	38.75	38.19	37.37	32.45	35.69	39.03	35.90	35.77
1:36	38.16	49.84	33.43	41.58	40.75	37.74	34.85	38.81	38.21	37.40	32.50	35.71	39.12	35.99	35.83
1:37	38.17	49.87	33.45	41.64	40.78	37.78	34.91	38.81	38.27	37.44	32.54	35.73	39.15	36.01	35.86
1:38	38.21	49.96	33.49	41.70	40.84	37.82	34.94	38.85	38.31	37.48	32.58	35.77	39.23	36.04	35.90
1:39	38.29	49.99	33.53	41.76	40.89	37.85	34.98	38.90	38.39	37.53	32.61	35.81	39.29	36.05	35.94
1:40	38.26	50.00	33.52	41.82	40.90	37.89	35.02	38.94	38.42	37.57	32.66	35.83	39.36	36.10	35.99
1:41	38.27	50.01	33.54	41.87	40.92	37.92	35.03	39.01	38.50	37.62	32.69	35.85	39.44	36.12	36.03
1:42	38.36	50.01	33.60	41.91	40.97	37.93	35.05	39.04	38.57	37.64	32.70	35.90	39.49	36.16	36.06
1:43	38.42	50.05	33.63	41.98	41.02	37.98	35.09	39.03	38.58	37.67	32.73	35.91	39.51	36.17	36.08
1:44	38.45	50.13	33.65	42.04	41.07	38.02	35.11	39.08	38.67	37.72	32.76	35.93	39.58	36.19	36.11
1:45	38.45	50.09	33.69	42.05	41.07	38.08	35.13	39.16	38.75	37.78	32.76	35.94	39.66	36.26	36.16
1:46	38.46	50.05	33.71	42.09	41.08	38.14	35.18	39.26	38.81	37.85	32.80	35.96	39.71	36.32	36.20
1:47	38.44	50.08	33.72	42.12	41.09	38.17	35.20	39.31	38.82	37.87	32.85	36.01	39.76	36.35	36.24
1:48	38.46	50.12	33.77	42.12	41.12	38.21	35.25	39.33	38.88	37.92	32.89	36.03	39.81	36.34	36.27
1:49	38.48	50.16	33.80	42.11	41.14	38.27	35.25	39.34	38.94	37.95	32.97	36.07	39.90	36.33	36.32
1:50	38.57	50.22	33.85	42.12	41.19	38.30	35.26	39.38	38.98	37.98	33.02	36.10	39.94	36.34	36.35
1:51	38.61	50.24	33.87	42.13	41.21	38.33	35.31	39.43	38.95	38.00	33.01	36.12	39.99	36.37	36.37
1:52	38.64	50.27	33.90	42.14	41.24	38.35	35.35	39.45	38.95	38.03	33.04	36.17	40.04	36.45	36.42
1:53	38.67	50.28	33.94	42.16	41.26	38.39	35.40	39.52	38.97	38.07	33.05	36.17	40.09	36.55	36.47
1:54	38.70	50.29	33.98	42.22	41.30	38.43	35.46	39.54	38.98	38.10	33.06	36.18	40.12	36.63	36.50
1:55	38.71	50.27	34.00	42.27	41.31	38.50	35.55	39.53	38.96	38.14	33.10	36.13	40.21	36.72	36.54
1:56	38.75	50.24	34.04	42.32	41.34	38.56	35.61	39.56	39.01	38.19	33.11	36.14	40.23	36.76	36.56
1:57	38.79	50.27	34.05	42.33	41.36	38.61	35.64	39.58	39.02	38.21	33.11	36.19	40.22	36.77	36.57
1:58	38.83	50.33	34.08	42.34	41.39	38.62	35.66	39.64	39.11	38.26	33.15	36.25	40.27	36.80	36.62
1:59	38.86	50.37	34.11	42.37	41.43	38.60	35.68	39.65	39.19	38.28	33.18	36.30	40.36	36.83	36.67
2:00	38.89	50.41	34.14	42.40	41.46	38.63	35.72	39.65	39.21	38.30	33.21	36.33	40.48	36.86	36.72
2:01	38.91	50.49	34.14	42.44	41.49	38.67	35.74	39.67	39.24	38.33	33.27	36.36	40.57	36.87	36.77
2:02	38.90	50.59	34.14	42.46	41.52	38.69	35.78	39.72	39.29	38.37	33.29	36.41	40.62	36.89	36.80
2:03	38.87	50.66	34.19	42.48	41.55	38.71	35.82	39.78	39.32	38.41	33.32	36.46	40.64	36.91	36.83
2:04	38.91	50.75	34.20	42.49	41.59	38.76	35.88	39.88	39.38	38.47	33.35	36.52	40.71	36.91	36.87
2:05	38.97	50.78	34.21	42.53	41.62	38.80	35.92	39.91	39.39	38.50	33.38	36.52	40.77	36.96	36.91
2:06	39.03	50.84	34.23	42.57	41.67	38.84	35.97	39.94	39.46	38.56	33.40	36.51	40.83	37.03	36.94
2:07	39.07	50.90	34.24	42.64	41.71	38.88	36.02	39.99	39.52	38.60	33.42	36.51	40.89	37.07	36.97

2:08	39.12	50.97	34.29	42.69	41.77	38.91	36.05	40.04	39.51	38.63	33.46	36.57	40.93	37.07	37.01
2:09	39.14	51.01	34.35	42.69	41.80	38.97	36.12	40.09	39.49	38.67	33.48	36.62	41.02	36.98	37.03
2:10	39.13	51.07	34.35	42.76	41.83	39.01	36.13	40.10	39.51	38.69	33.53	36.69	41.09	37.00	37.08
2:11	39.13	51.14	34.38	42.78	41.86	39.04	36.13	40.07	39.58	38.70	33.58	36.73	41.16	37.08	37.14
2:12	39.12	51.21	34.40	42.86	41.90	39.10	36.14	40.09	39.62	38.74	33.64	36.74	41.18	37.16	37.18
2:13	39.16	51.28	34.42	42.88	41.94	39.12	36.14	40.13	39.70	38.77	33.67	36.78	41.20	37.24	37.22
2:14	39.19	51.26	34.46	42.87	41.94	39.14	36.14	40.11	39.79	38.80	33.69	36.76	41.28	37.30	37.26
2:15	39.18	51.27	34.47	42.92	41.96	39.18	36.16	40.16	39.87	38.84	33.70	36.78	41.35	37.31	37.28
2:16	39.19	51.28	34.52	42.93	41.98	39.23	36.17	40.25	39.93	38.90	33.72	36.81	41.44	37.36	37.33
2:17	39.24	51.30	34.53	42.96	42.01	39.27	36.20	40.25	39.96	38.92	33.75	36.84	41.48	37.43	37.38
2:18	39.27	51.30	34.57	42.99	42.04	39.28	36.22	40.30	39.98	38.95	33.78	36.89	41.54	37.52	37.43
2:19	39.31	51.28	34.61	42.98	42.05	39.31	36.24	40.36	40.00	38.98	33.80	36.90	41.57	37.57	37.46
2:20	39.40	51.27	34.64	42.98	42.07	39.36	36.27	40.40	40.05	39.02	33.84	36.91	41.60	37.60	37.49
2:21	39.41	51.29	34.66	43.05	42.10	39.38	36.27	40.42	40.07	39.03	33.86	36.98	41.63	37.61	37.52
2:22	39.43	51.30	34.68	43.10	42.13	39.42	36.29	40.43	40.09	39.06	33.92	37.03	41.67	37.61	37.56
2:23	39.47	51.28	34.69	43.15	42.15	39.46	36.33	40.46	40.11	39.09	33.93	37.04	41.69	37.68	37.59
2:24	39.50	51.28	34.70	43.17	42.16	39.47	36.37	40.53	40.14	39.13	33.94	37.05	41.75	37.74	37.62
2:25	39.50	51.35	34.72	43.18	42.19	39.46	36.40	40.56	40.17	39.15	33.96	37.08	41.80	37.76	37.65
2:26	39.57	51.36	34.70	43.15	42.20	39.49	36.44	40.63	40.19	39.19	34.00	37.09	41.83	37.73	37.66
2:27	39.59	51.43	34.72	43.20	42.23	39.52	36.49	40.69	40.18	39.22	34.04	37.15	41.90	37.71	37.70
2:28	39.61	51.47	34.76	43.27	42.27	39.54	36.54	40.72	40.24	39.26	34.07	37.18	41.91	37.79	37.74
2:29	39.64	51.49	34.79	43.35	42.32	39.57	36.60	40.74	40.29	39.30	34.07	37.16	41.92	37.87	37.76
2:30	39.67	51.76	34.80	43.39	42.40	39.59	36.67	40.79	40.37	39.35	34.10	37.09	41.91	37.95	37.76
2:31	39.72	52.11	34.82	43.42	42.52	39.60	36.68	40.83	40.43	39.39	34.13	37.15	41.97	37.99	37.81
2:32	39.74	52.46	34.85	43.48	42.63	39.62	36.69	40.86	40.50	39.42	34.16	37.23	42.01	38.02	37.86
2:33	39.78	52.73	34.88	43.48	42.72	39.62	36.70	40.85	40.53	39.42	34.16	37.28	42.05	38.06	37.89
2:34	39.80	53.00	34.87	43.48	42.79	39.62	36.72	40.86	40.57	39.44	34.17	37.35	42.06	38.09	37.92
2:35	39.82	53.21	34.90	43.50	42.86	39.68	36.78	40.89	40.60	39.49	34.19	37.35	42.08	38.12	37.94
2:36	39.80	53.43	34.91	43.56	42.93	39.70	36.82	40.89	40.59	39.50	34.25	37.37	42.08	38.13	37.96
2:37	39.81	53.64	34.89	43.55	42.97	39.67	36.84	40.93	40.64	39.52	34.29	37.39	42.13	38.18	38.00
2:38	39.84	53.77	34.92	43.57	43.03	39.69	36.89	40.95	40.69	39.56	34.32	37.39	42.18	38.23	38.03
2:39	39.79	53.88	34.93	43.53	43.03	39.72	36.94	40.96	40.73	39.59	34.39	37.38	42.27	38.28	38.08
2:40	39.75	54.08	34.93	43.55	43.08	39.74	36.99	41.04	40.73	39.62	34.44	37.41	42.31	38.29	38.11
2:41	39.76	54.18	34.94	43.59	43.12	39.76	37.01	41.11	40.75	39.66	34.48	37.46	42.35	38.25	38.14
2:42	39.79	54.28	34.98	43.62	43.17	39.77	37.03	41.13	40.74	39.67	34.51	37.44	42.43	38.20	38.14
2:43	39.82	54.33	35.00	43.61	43.19	39.79	37.03	41.10	40.73	39.66	34.54	37.45	42.48	38.27	38.18
2:44	39.84	54.43	35.01	43.64	43.23	39.82	37.04	41.12	40.75	39.68	34.58	37.47	42.48	38.32	38.21
2:45	39.89	54.53	35.00	43.66	43.27	39.85	37.04	41.12	40.80	39.70	34.60	37.45	42.50	38.37	38.23
2:46	39.92	54.61	35.02	43.65	43.30	39.86	37.07	41.12	40.85	39.73	34.63	37.48	42.50	38.42	38.26
2:47	39.92	54.65	35.06	43.71	43.34	39.92	37.09	41.13	40.89	39.76	34.66	37.53	42.52	38.44	38.29
2:48	39.97	54.81	35.07	43.74	43.40	39.95	37.09	41.19	40.90	39.78	34.67	37.61	42.54	38.47	38.32
2:49	39.99	54.92	35.08	43.78	43.44	39.98	37.09	41.22	40.93	39.80	34.69	37.68	42.55	38.51	38.36
2:50	40.01	55.00	35.12	43.81	43.49	40.01	37.11	41.25	40.96	39.83	34.70	37.70	42.56	38.58	38.39
2:51	40.03	55.10	35.15	43.78	43.51	40.05	37.11	41.27	40.99	39.85	34.70	37.73	42.57	38.63	38.41
2:52	40.10	55.19	35.15	43.77	43.55	40.08	37.13	41.29	40.99	39.87	34.71	37.77	42.61	38.63	38.43
2:53	40.15	55.20	35.17	43.80	43.58	40.13	37.15	41.39	40.97	39.91	34.73	37.80	42.72	38.64	38.47
2:54	40.13	55.30	35.19	43.88	43.62	40.16	37.15	41.47	41.00	39.94	34.77	37.83	42.75	38.67	38.50
2:55	40.12	55.37	35.23	43.92	43.66	40.18	37.16	41.49	41.04	39.96	34.78	37.87	42.85	38.69	38.55
2:56	40.11	55.37	35.26	43.98	43.68	40.21	37.17	41.50	41.08	39.99	34.79	37.91	42.90	38.70	38.58
2:57	40.16	55.36	35.27	43.97	43.69	40.25	37.21	41.51	41.13	40.02	34.82	37.92	42.89	38.74	38.59
2:58	40.20	55.43	35.31	44.01	43.74	40.30	37.21	41.44	41.19	40.04	34.83	37.96	42.94	38.73	38.62
2:59	40.21	55.50	35.37	44.05	43.78	40.36	37.21	41.49	41.22	40.07	34.88	38.00	43.05	38.74	38.67
3:00	40.25	55.51	35.39	44.04	43.80	40.40	37.23	41.51	41.23	40.09	34.89	38.06	43.11	38.77	38.71
3:01	40.27	55.53	35.40	44.06	43.82	40.37	37.27	41.56	41.23	40.11	34.89	38.11	43.11	38.79	38.72
3:02	40.31	55.64	35.41	44.10	43.86	40.43	37.30	41.60	41.26	40.15	34.91	38.16	43.15	38.83	38.76
3:03	40.36	55.76	35.41	44.12	43.91	40.45	37.32	41.66	41.31	40.19	34.95	38.20	43.22	38.83	38.80
3:04	40.37	55.78	35.40	44.14	43.92	40.47	37.32	41.68	41.27	40.19	34.96	38.21	43.25	38.90	38.83
3:05	40.40	55.77	35.40	44.16	43.93	40.47	37.32	41.75	41.31	40.21	34.99	38.24	43.27	38.95	38.86
3:06	40.41	55.81	35.43	44.20	43.96	40.45	37.35	41.73	41.32	40.21	35.01	38.26	43.33	38.98	38.89
3:07	40.41	55.84	35.46	44.23	43.99	40.46	37.36	41.75	41.37	40.23	35.04	38.27	43.40	38.99	38.93
3:08	40.44	55.85	35.46	44.27	44.00	40.47	37.37	41.76	41.40	40.25	35.06	38.30	43.41	38.94	38.93
3:09	40.44	55.90	35.47	44.27	44.02	40.47	37.38	41.78	41.40	40.26	35.07	38.35	43.44	38.95	38.95
3:10	40.46	55.95	35.54	44.26	44.05	40.51	37.43	41.78	41.39	40.28	35.10	38.35	43.49	38.95	38.97
3:11	40.49	55.96	35.55	44.28	44.07	40.55	37.48	41.81	41.44	40.32	35.12	38.33	43.53	38.99	38.99
3:12	40.49	56.00	35.52	44.29	44.08	40.59	37.50	41.87	41.50	40.36	35.15	38.34	43.59	39.08	39.04
3:13	40.55	56.05	35.55	44.31	44.12	40.63	37.53	41.92	41.47	40.39	35.21	38.32	43.70	39.12	39.09
3:14	40.66	56.04	35.59	44.34	44.16	40.68	37.57	41.98	41.47	40.42	35.26	38.31	43.79	39.16	39.13
3:15	40.73	56.04	35.64	44.41	44.20	40.75	37.59	42.06	41.47	40.47	35.31	38.35	43.89	39.23	39.20

3:16	40.72	56.08	35.68	44.49	44.24	40.77	37.66	42.12	41.54	40.52	35.35	38.36	43.98	39.27	39.24
3:17	40.75	56.10	35.69	44.52	44.26	40.83	37.73	42.14	41.55	40.56	35.39	38.32	44.00	39.31	39.25
3:18	40.74	56.09	35.69	44.54	44.27	40.88	37.80	42.16	41.59	40.61	35.42	38.38	44.04	39.33	39.29
3:19	40.81	56.08	35.71	44.57	44.29	40.91	37.87	42.20	41.60	40.65	35.43	38.34	44.09	39.37	39.31
3:20	40.84	56.10	35.70	44.64	44.32	40.93	37.89	42.23	41.58	40.66	35.46	38.40	44.15	39.44	39.36
3:21	40.92	56.11	35.69	44.63	44.34	40.93	37.94	42.20	41.61	40.67	35.49	38.45	44.21	39.48	39.41
3:22	40.90	56.13	35.73	44.64	44.35	40.96	38.00	42.25	41.67	40.72	35.53	38.46	44.27	39.52	39.44
3:23	40.92	56.19	35.76	44.69	44.39	41.02	38.02	42.30	41.70	40.76	35.57	38.50	44.31	39.59	39.49
3:24	40.89	56.30	35.80	44.73	44.43	41.06	38.06	42.41	41.72	40.81	35.64	38.55	44.38	39.66	39.56
3:25	40.95	56.35	35.84	44.78	44.48	41.10	38.09	42.39	41.74	40.83	35.68	38.60	44.43	39.72	39.61
3:26	40.99	56.41	35.87	44.84	44.53	41.12	38.14	42.42	41.77	40.86	35.72	38.61	44.45	39.76	39.63
3:27	41.03	56.39	35.86	44.91	44.55	41.14	38.15	42.41	41.79	40.87	35.75	38.59	44.50	39.80	39.66
3:28	41.09	56.31	35.89	44.94	44.56	41.20	38.18	42.45	41.86	40.92	35.77	38.58	44.48	39.84	39.67
3:29	41.14	56.28	35.94	44.98	44.59	41.25	38.17	42.52	41.88	40.96	35.78	38.60	44.56	39.90	39.71
3:30	41.14	56.32	35.96	44.97	44.60	41.28	38.17	42.57	41.90	40.98	35.84	38.64	44.65	39.96	39.77
3:31	41.17	56.39	35.98	45.04	44.65	41.28	38.16	42.62	41.96	41.00	35.88	38.71	44.72	40.01	39.83
3:32	41.17	56.53	36.01	45.09	44.70	41.30	38.14	42.69	42.05	41.04	35.92	38.77	44.74	40.00	39.86
3:33	41.20	56.61	36.01	45.12	44.73	41.31	38.15	42.68	42.06	41.05	35.98	38.81	44.77	40.06	39.90
3:34	41.23	56.62	35.98	45.17	44.75	41.36	38.21	42.59	42.07	41.06	36.01	38.84	44.77	40.15	39.94
3:35	41.25	56.57	36.00	45.19	44.75	41.37	38.30	42.62	42.00	41.07	36.04	38.87	44.81	40.17	39.98
3:36	41.27	56.66	36.03	45.23	44.80	41.41	38.28	42.66	41.99	41.08	36.06	38.97	44.87	40.21	40.03
3:37	41.31	56.67	36.09	45.26	44.83	41.45	38.30	42.68	42.03	41.11	36.07	38.96	44.90	40.26	40.05
3:38	41.34	56.73	36.14	45.31	44.88	41.49	38.33	42.66	42.09	41.14	36.08	39.00	44.88	40.28	40.06
3:39	41.35	56.75	36.17	45.35	44.91	41.57	38.36	42.64	42.15	41.18	36.10	39.04	44.89	40.31	40.09
3:40	41.40	56.83	36.19	45.41	44.96	41.59	38.38	42.66	42.17	41.20	36.13	39.08	44.89	40.35	40.11
3:41	41.46	56.91	36.24	45.47	45.02	41.62	38.42	42.70	42.13	41.22	36.18	39.14	44.92	40.37	40.15
3:42	41.48	56.94	36.22	45.52	45.04	41.60	38.44	42.79	42.17	41.25	36.23	39.16	44.99	40.40	40.20
3:43	41.51	56.88	36.22	45.57	45.04	41.61	38.47	42.84	42.18	41.27	36.29	39.16	45.00	40.45	40.22
3:44	41.53	56.82	36.27	45.59	45.05	41.60	38.55	42.83	42.20	41.30	36.31	39.17	44.98	40.54	40.25
3:45	41.55	56.74	36.31	45.62	45.05	41.66	38.60	42.89	42.22	41.34	36.33	39.17	45.02	40.59	40.28
3:46	41.55	56.68	36.31	45.63	45.04	41.70	38.62	42.96	42.17	41.36	36.38	39.15	45.09	40.64	40.31
3:47	41.65	56.77	36.33	45.68	45.11	41.74	38.61	42.98	42.17	41.37	36.39	39.21	45.13	40.67	40.35
3:48	41.68	56.81	36.38	45.72	45.15	41.74	38.60	43.00	42.13	41.37	36.42	39.26	45.14	40.72	40.39
3:49	41.73	56.92	36.42	45.75	45.21	41.75	38.57	42.98	42.15	41.36	36.45	39.30	45.18	40.78	40.43
3:50	41.76	56.90	36.48	45.78	45.23	41.80	38.59	43.02	42.15	41.39	36.49	39.30	45.20	40.84	40.46
3:51	41.77	56.78	36.51	45.77	45.21	41.82	38.61	43.09	42.07	41.40	36.51	39.31	45.20	40.85	40.47
3:52	41.80	56.82	36.57	45.76	45.23	41.85	38.60	43.19	42.04	41.42	36.57	39.37	45.30	40.87	40.53
3:53	41.84	56.83	36.60	45.77	45.26	41.87	38.64	43.26	41.98	41.44	36.61	39.36	45.36	40.89	40.56
3:54	41.87	56.81	36.64	45.75	45.27	41.87	38.75	43.27	42.04	41.48	36.67	39.34	45.40	40.95	40.59
3:55	41.86	56.83	36.66	45.75	45.28	41.87	38.81	43.21	42.06	41.49	36.68	39.36	45.40	41.00	40.61
3:56	41.91	56.83	36.70	45.79	45.31	41.89	38.87	43.13	42.08	41.49	36.68	39.32	45.42	41.06	40.62
3:57	41.93	56.88	36.71	45.81	45.33	41.95	38.90	43.12	42.18	41.54	36.72	39.34	45.47	41.07	40.65
3:58	41.99	56.91	36.70	45.85	45.36	41.98	38.91	43.16	42.25	41.58	36.75	39.32	45.57	41.09	40.68
3:59	41.99	56.97	36.73	45.86	45.39	42.01	38.89	43.20	42.27	41.59	36.78	39.29	45.67	41.17	40.73
4:00	41.78	56.89	36.68	45.74	45.27	41.93	38.72	43.16	42.24	41.51	36.77	39.26	47.52	41.12	41.17

Appendix B

Five Hour Test Trial Results in Celcius

Time	Pervious 6"					Pervious 4"					Impervious 4"				
	T 1	T 10	T 19	T 4a	Avg.	T 7	T 16	T 22	T 1a	Avg.	T 4	T 13	T 25	T 7a	Avg.
0:00	20.09	21.28	20.00	20.43	20.45	19.73	19.97	20.05	20.24	20.00	19.53	19.74	19.99	20.02	19.82
0:01	20.70	21.93	20.39	21.11	21.03	20.31	20.59	20.71	20.92	20.63	19.94	20.14	20.89	20.49	20.37
0:02	21.56	22.94	20.98	22.10	21.89	21.23	21.50	21.65	21.95	21.58	20.66	20.78	22.09	21.29	21.20
0:03	22.43	23.95	21.58	23.08	22.76	22.13	22.40	22.55	22.97	22.51	21.37	21.42	23.24	22.10	22.03
0:04	23.26	24.92	22.18	24.00	23.59	22.99	23.25	23.38	23.92	23.39	22.06	22.05	24.30	22.86	22.82
0:05	24.02	25.82	22.76	24.88	24.37	23.81	24.06	24.14	24.79	24.20	22.71	22.63	25.26	23.56	23.54
0:06	24.73	26.66	23.28	25.72	25.10	24.56	24.83	24.85	25.55	24.95	23.32	23.17	26.12	24.21	24.20
0:07	25.38	27.40	23.79	26.49	25.76	25.25	25.49	25.47	26.30	25.63	23.89	23.69	26.90	24.82	24.82
0:08	25.99	28.11	24.28	27.21	26.40	25.90	26.16	26.01	26.92	26.25	24.41	24.17	27.63	25.37	25.39
0:09	26.57	28.77	24.75	27.86	26.99	26.47	26.78	26.54	27.55	26.84	24.89	24.60	28.29	25.87	25.91
0:10	27.09	29.39	25.17	28.47	27.53	27.00	27.37	27.04	28.15	27.39	25.35	25.00	28.94	26.34	26.41
0:11	27.59	30.01	25.60	29.05	28.06	27.53	27.93	27.51	28.73	27.92	25.78	25.38	29.56	26.78	26.87
0:12	28.03	30.59	25.99	29.60	28.55	28.01	28.43	27.93	29.21	28.40	26.17	25.74	30.12	27.17	27.30
0:13	28.47	31.13	26.36	30.12	29.02	28.49	28.90	28.33	29.69	28.85	26.55	26.07	30.64	27.54	27.70

0:14	28.85	31.63	26.68	30.59	29.44	28.94	29.37	28.68	30.14	29.28	26.91	26.39	31.11	27.89	28.07
0:15	29.22	32.10	27.00	31.03	29.84	29.35	29.81	29.05	30.55	29.69	27.25	26.69	31.56	28.22	28.43
0:16	29.57	32.53	27.29	31.47	30.21	29.75	30.20	29.42	30.99	30.09	27.57	26.97	32.01	28.52	28.77
0:17	29.90	32.91	27.58	31.88	30.57	30.16	30.63	29.76	31.39	30.49	27.88	27.23	32.43	28.83	29.09
0:18	30.19	33.32	27.85	32.30	30.91	30.53	31.03	30.01	31.76	30.83	28.16	27.48	32.80	29.13	29.39
0:19	30.46	33.70	28.11	32.68	31.24	30.89	31.42	30.28	32.09	31.17	28.41	27.74	33.16	29.39	29.67
0:20	30.73	34.06	28.39	33.04	31.55	31.23	31.78	30.57	32.40	31.49	28.67	27.95	33.50	29.64	29.94
0:21	30.94	34.42	28.66	33.38	31.85	31.56	32.11	30.84	32.70	31.80	28.89	28.14	33.83	29.89	30.19
0:22	31.16	34.74	28.91	33.71	32.13	31.85	32.41	31.07	32.99	32.08	29.09	28.35	34.13	30.11	30.42
0:23	31.38	35.11	29.18	34.02	32.42	32.15	32.72	31.36	33.27	32.37	29.31	28.55	34.44	30.33	30.66
0:24	31.64	35.44	29.42	34.31	32.70	32.41	33.01	31.58	33.61	32.65	29.51	28.75	34.71	30.55	30.88
0:25	31.82	35.76	29.65	34.58	32.95	32.64	33.29	31.81	33.90	32.91	29.68	28.95	34.97	30.75	31.09
0:26	32.05	36.03	29.86	34.84	33.20	32.88	33.57	32.01	34.28	33.19	29.85	29.13	35.22	30.95	31.29
0:27	32.29	36.28	30.08	35.08	33.43	33.11	33.85	32.18	34.64	33.44	30.02	29.29	35.41	31.14	31.47
0:28	32.51	36.54	30.27	35.34	33.66	33.34	34.10	32.35	34.93	33.68	30.20	29.43	35.61	31.32	31.64
0:29	32.69	36.80	30.44	35.53	33.87	33.58	34.33	32.53	35.13	33.89	30.36	29.56	35.79	31.47	31.80
0:30	32.88	37.07	30.64	35.72	34.08	33.77	34.58	32.74	35.36	34.11	30.54	29.69	35.96	31.63	31.96
0:31	33.02	37.30	30.80	35.94	34.27	33.94	34.80	32.89	35.56	34.30	30.68	29.83	36.14	31.79	32.11
0:32	33.14	37.56	30.96	36.13	34.45	34.12	34.94	33.03	35.71	34.45	30.80	29.95	36.28	31.89	32.23
0:33	33.30	37.79	31.10	36.32	34.63	34.30	35.14	33.15	35.82	34.60	30.91	30.05	36.44	31.99	32.35
0:34	33.46	37.99	31.24	36.48	34.79	34.47	35.33	33.23	35.97	34.75	31.02	30.12	36.58	32.10	32.45
0:35	33.60	38.20	31.38	36.63	34.95	34.60	35.53	33.33	36.11	34.89	31.14	30.24	36.70	32.17	32.56
0:36	33.73	38.35	31.51	36.79	35.09	34.74	35.71	33.45	36.31	35.05	31.26	30.35	36.84	32.24	32.67
0:37	33.81	38.50	31.65	36.92	35.22	34.89	35.85	33.54	36.47	35.19	31.38	30.44	36.94	32.32	32.77
0:38	33.94	38.68	31.77	37.05	35.36	35.00	35.94	33.65	36.62	35.30	31.48	30.53	37.04	32.41	32.86
0:39	34.05	38.82	31.88	37.17	35.48	35.15	36.01	33.79	36.77	35.43	31.58	30.60	37.15	32.51	32.96
0:40	34.13	39.00	31.99	37.25	35.59	35.27	36.08	33.90	36.93	35.55	31.65	30.67	37.26	32.56	33.04
0:41	34.23	39.16	32.11	37.33	35.71	35.40	36.16	34.03	37.03	35.65	31.74	30.77	37.38	32.60	33.12
0:42	34.36	39.33	32.22	37.41	35.83	35.54	36.26	34.12	37.10	35.76	31.81	30.82	37.47	32.66	33.19
0:43	34.46	39.48	32.30	37.52	35.94	35.66	36.39	34.24	37.17	35.87	31.90	30.88	37.55	32.71	33.26
0:44	34.52	39.60	32.40	37.61	36.03	35.77	36.50	34.30	37.33	35.97	31.98	30.96	37.65	32.74	33.33
0:45	34.58	39.71	32.50	37.75	36.14	35.84	36.57	34.39	37.45	36.06	32.06	31.00	37.77	32.79	33.40
0:46	34.66	39.83	32.56	37.88	36.23	35.95	36.64	34.50	37.56	36.16	32.15	31.04	37.86	32.87	33.48
0:47	34.73	39.96	32.63	37.97	36.32	36.06	36.70	34.54	37.72	36.26	32.24	31.14	37.94	32.94	33.56
0:48	34.78	40.06	32.71	38.08	36.41	36.14	36.81	34.64	37.86	36.36	32.32	31.22	38.02	32.96	33.63
0:49	34.87	40.16	32.76	38.17	36.49	36.24	36.94	34.75	38.02	36.49	32.39	31.26	38.13	33.02	33.70
0:50	34.95	40.29	32.80	38.28	36.58	36.35	36.99	34.85	38.16	36.59	32.47	31.32	38.21	33.08	33.77
0:51	35.04	40.36	32.85	38.36	36.65	36.43	36.99	34.96	38.29	36.67	32.50	31.36	38.28	33.13	33.82
0:52	35.11	40.44	32.91	38.46	36.73	36.54	37.00	35.00	38.40	36.74	32.54	31.41	38.37	33.17	33.87
0:53	35.17	40.54	32.97	38.51	36.80	36.64	37.04	35.07	38.45	36.80	32.61	31.47	38.46	33.20	33.93
0:54	35.27	40.64	33.05	38.60	36.89	36.74	37.11	35.19	38.50	36.89	32.66	31.53	38.50	33.25	33.98
0:55	35.37	40.71	33.12	38.67	36.97	36.85	37.13	35.31	38.64	36.98	32.69	31.58	38.59	33.31	34.04
0:56	35.44	40.80	33.16	38.74	37.03	36.93	37.15	35.40	38.76	37.06	32.74	31.63	38.68	33.37	34.11
0:57	35.49	40.88	33.22	38.80	37.10	36.97	37.23	35.47	38.85	37.13	32.79	31.69	38.74	33.40	34.16
0:58	35.57	40.95	33.26	38.85	37.16	37.06	37.32	35.55	38.91	37.21	32.84	31.73	38.80	33.43	34.20
0:59	35.64	41.04	33.31	38.95	37.24	37.16	37.37	35.65	39.02	37.30	32.91	31.78	38.89	33.47	34.26
1:00	35.72	41.12	33.39	39.01	37.31	37.23	37.46	35.72	39.12	37.38	32.97	31.82	38.97	33.51	34.32
1:01	35.82	41.17	33.45	39.05	37.37	37.32	37.51	35.76	39.19	37.45	33.03	31.90	39.04	33.54	34.38
1:02	35.88	41.24	33.55	39.11	37.44	37.41	37.56	35.80	39.26	37.51	33.09	31.94	39.09	33.56	34.42
1:03	35.92	41.28	33.61	39.14	37.49	37.49	37.59	35.84	39.33	37.56	33.12	31.98	39.18	33.61	34.47
1:04	35.97	41.31	33.64	39.21	37.53	37.61	37.63	35.88	39.40	37.63	33.17	32.01	39.22	33.67	34.52
1:05	36.01	41.36	33.67	39.23	37.57	37.71	37.78	35.88	39.43	37.70	33.21	32.05	39.27	33.74	34.57
1:06	36.02	41.43	33.71	39.25	37.60	37.76	37.90	35.95	39.52	37.78	33.24	32.06	39.34	33.77	34.60
1:07	36.08	41.49	33.73	39.28	37.64	37.82	38.01	36.03	39.61	37.87	33.30	32.10	39.44	33.80	34.66
1:08	36.10	41.56	33.77	39.35	37.70	37.84	38.03	36.09	39.63	37.90	33.36	32.13	39.52	33.85	34.71
1:09	36.11	41.64	33.83	39.38	37.74	37.93	38.05	36.16	39.69	37.96	33.42	32.13	39.59	33.90	34.76
1:10	36.14	41.69	33.89	39.44	37.79	38.02	38.09	36.21	39.70	38.01	33.48	32.15	39.65	33.95	34.81
1:11	36.19	41.73	33.95	39.51	37.85	38.15	38.15	36.22	39.79	38.08	33.52	32.20	39.73	34.01	34.86
1:12	36.25	41.77	34.03	39.58	37.91	38.25	38.14	36.29	39.86	38.13	33.57	32.25	39.82	34.08	34.93
1:13	36.27	41.87	34.08	39.66	37.97	38.33	38.15	36.36	39.97	38.20	33.62	32.30	39.87	34.16	34.99
1:14	36.30	41.93	34.12	39.74	38.02	38.43	38.15	36.45	40.05	38.27	33.65	32.35	39.92	34.20	35.03
1:15	36.34	42.00	34.15	39.81	38.08	38.54	38.21	36.52	40.14	38.35	33.70	32.40	39.95	34.22	35.07
1:16	36.39	42.04	34.18	39.86	38.12	38.61	38.27	36.53	40.19	38.40	33.75	32.44	40.00	34.26	35.11
1:17	36.43	42.05	34.24	39.90	38.15	38.67	38.34	36.56	40.24	38.45	33.77	32.48	40.08	34.32	35.16
1:18	36.48	42.14	34.29	39.98	38.22	38.73	38.37	36.58	40.32	38.50	33.83	32.53	40.13	34.37	35.21
1:19	36.52	42.18	34.35	40.07	38.28	38.79	38.39	36.60	40.37	38.54	33.87	32.55	40.19	34.43	35.26
1:20	36.54	42.22	34.42	40.11	38.32	38.88	38.46	36.63	40.43	38.60	33.94	32.56	40.26	34.51	35.32
1:21	36.59	42.30	34.45	40.15	38.37	38.98	38.53	36.72	40.45	38.67	34.00	32.61	40.34	34.54	35.37

1:22	36.64	42.37	34.49	40.24	38.43	39.05	38.58	36.78	40.44	38.71	34.04	32.66	40.41	34.59	35.43
1:23	36.66	42.39	34.51	40.26	38.46	39.10	38.60	36.85	40.53	38.77	34.10	32.70	40.47	34.64	35.48
1:24	36.69	42.45	34.51	40.28	38.48	39.19	38.61	36.85	40.63	38.82	34.14	32.72	40.52	34.69	35.52
1:25	36.75	42.53	34.57	40.35	38.55	39.27	38.65	36.84	40.72	38.87	34.19	32.72	40.55	34.73	35.55
1:26	36.79	42.61	34.63	40.38	38.60	39.34	38.72	36.88	40.79	38.93	34.23	32.74	40.62	34.80	35.60
1:27	36.81	42.67	34.67	40.37	38.63	39.41	38.79	36.92	40.87	39.00	34.29	32.78	40.67	34.87	35.65
1:28	36.86	42.73	34.73	40.44	38.69	39.46	38.84	36.98	40.93	39.05	34.34	32.81	40.71	34.90	35.69
1:29	36.89	42.81	34.75	40.44	38.72	39.50	38.89	37.04	41.00	39.11	34.35	32.87	40.79	34.92	35.73
1:30	36.94	42.90	34.79	40.50	38.78	39.53	38.91	37.07	41.01	39.13	34.39	32.93	40.87	34.98	35.79
1:31	36.95	42.96	34.81	40.57	38.82	39.57	38.93	37.14	41.05	39.17	34.43	32.97	40.92	34.99	35.83
1:32	36.99	43.03	34.83	40.56	38.86	39.62	38.97	37.20	41.12	39.23	34.47	33.02	41.01	35.04	35.88
1:33	37.03	43.12	34.85	40.59	38.90	39.66	38.96	37.24	41.16	39.25	34.53	33.06	41.07	35.07	35.93
1:34	37.06	43.18	34.90	40.63	38.94	39.73	39.00	37.25	41.25	39.31	34.57	33.09	41.11	35.11	35.97
1:35	37.09	43.22	34.95	40.67	38.98	39.79	39.03	37.28	41.32	39.36	34.59	33.13	41.14	35.13	36.00
1:36	37.14	43.24	35.00	40.69	39.02	39.84	39.08	37.31	41.37	39.40	34.63	33.16	41.20	35.18	36.04
1:37	37.18	43.28	35.07	40.73	39.06	39.88	39.14	37.33	41.44	39.45	34.68	33.16	41.25	35.23	36.08
1:38	37.20	43.32	35.12	40.73	39.09	39.91	39.16	37.37	41.51	39.49	34.71	33.19	41.29	35.24	36.11
1:39	37.23	43.38	35.15	40.77	39.13	39.98	39.22	37.43	41.52	39.54	34.76	33.19	41.36	35.28	36.15
1:40	37.28	43.42	35.18	40.81	39.17	40.02	39.20	37.44	41.56	39.56	34.81	33.21	41.42	35.30	36.18
1:41	37.32	43.49	35.19	40.83	39.21	40.07	39.18	37.51	41.58	39.58	34.82	33.24	41.49	35.34	36.22
1:42	37.38	43.52	35.20	40.88	39.25	40.11	39.20	37.61	41.61	39.63	34.85	33.27	41.57	35.38	36.27
1:43	37.40	43.57	35.22	40.96	39.29	40.19	39.26	37.73	41.64	39.70	34.88	33.31	41.65	35.43	36.32
1:44	37.42	43.62	35.21	41.05	39.32	40.21	39.29	37.77	41.67	39.74	34.92	33.36	41.70	35.48	36.36
1:45	37.42	43.65	35.22	41.13	39.35	40.27	39.36	37.84	41.70	39.79	34.95	33.42	41.74	35.55	36.42
1:46	37.44	43.70	35.25	41.19	39.40	40.33	39.44	37.92	41.76	39.86	35.00	33.46	41.82	35.58	36.47
1:47	37.48	43.75	35.25	41.23	39.43	40.40	39.49	37.94	41.76	39.90	35.04	33.49	41.87	35.59	36.50
1:48	37.53	43.79	35.30	41.24	39.46	40.48	39.55	37.92	41.80	39.94	35.07	33.53	41.88	35.61	36.52
1:49	37.55	43.83	35.33	41.29	39.50	40.55	39.62	37.92	41.78	39.97	35.08	33.58	41.94	35.65	36.56
1:50	37.58	43.88	35.33	41.34	39.53	40.60	39.67	37.98	41.79	40.01	35.13	33.60	42.00	35.68	36.60
1:51	37.56	43.91	35.35	41.35	39.54	40.64	39.72	37.99	41.84	40.05	35.17	33.62	42.01	35.74	36.63
1:52	37.57	43.95	35.41	41.38	39.58	40.65	39.77	38.01	41.92	40.09	35.21	33.63	42.08	35.78	36.67
1:53	37.59	43.98	35.42	41.43	39.61	40.67	39.77	38.08	41.91	40.11	35.25	33.64	42.14	35.84	36.72
1:54	37.64	43.99	35.45	41.50	39.64	40.70	39.81	38.16	41.95	40.16	35.28	33.68	42.20	35.89	36.76
1:55	37.67	44.01	35.45	41.54	39.67	40.78	39.80	38.19	41.97	40.18	35.34	33.68	42.26	35.92	36.80
1:56	37.67	44.06	35.48	41.56	39.69	40.82	39.80	38.21	41.96	40.20	35.37	33.71	42.27	35.95	36.83
1:57	37.70	44.08	35.51	41.57	39.71	40.85	39.85	38.25	41.96	40.23	35.42	33.75	42.33	35.95	36.86
1:58	37.72	44.12	35.50	41.65	39.75	40.87	39.88	38.28	41.99	40.25	35.45	33.80	42.40	35.97	36.91
1:59	37.76	44.17	35.55	41.68	39.79	40.89	39.92	38.33	42.04	40.29	35.51	33.81	42.48	36.01	36.95
2:00	37.79	44.17	35.56	41.74	39.81	40.93	39.94	38.39	42.11	40.34	35.55	33.82	42.55	36.08	37.00
2:01	37.83	44.23	35.58	41.73	39.84	40.94	39.99	38.44	42.15	40.38	35.59	33.84	42.58	36.15	37.04
2:02	37.86	44.28	35.62	41.75	39.88	41.01	39.99	38.43	42.20	40.41	35.61	33.88	42.62	36.20	37.08
2:03	37.90	44.32	35.69	41.76	39.92	41.06	40.01	38.50	42.26	40.46	35.65	33.92	42.66	36.24	37.12
2:04	37.95	44.34	35.69	41.81	39.95	41.11	40.05	38.54	42.26	40.49	35.70	33.96	42.71	36.29	37.17
2:05	37.98	44.36	35.68	41.81	39.96	41.13	40.13	38.62	42.26	40.54	35.72	34.00	42.78	36.26	37.19
2:06	38.00	44.40	35.71	41.83	39.99	41.19	40.14	38.71	42.23	40.57	35.76	34.06	42.85	36.20	37.22
2:07	38.06	44.47	35.74	41.87	40.03	41.22	40.14	38.77	42.31	40.61	35.79	34.09	42.91	36.18	37.24
2:08	38.12	44.50	35.75	41.90	40.07	41.28	40.18	38.87	42.34	40.67	35.83	34.11	42.99	36.24	37.29
2:09	38.18	44.53	35.75	41.96	40.11	41.31	40.18	38.90	42.35	40.68	35.89	34.14	43.03	36.33	37.35
2:10	38.21	44.56	35.72	42.03	40.13	41.32	40.23	38.92	42.41	40.72	35.91	34.18	43.10	36.39	37.39
2:11	38.22	44.56	35.77	42.09	40.16	41.32	40.25	38.97	42.45	40.75	35.95	34.22	43.13	36.42	37.43
2:12	38.26	44.58	35.78	42.10	40.18	41.36	40.25	38.99	42.52	40.78	36.00	34.26	43.20	36.45	37.48
2:13	38.27	44.60	35.78	42.14	40.20	41.40	40.25	38.97	42.57	40.80	36.01	34.27	43.26	36.46	37.50
2:14	38.29	44.62	35.78	42.20	40.22	41.44	40.26	39.00	42.59	40.82	36.05	34.28	43.31	36.52	37.54
2:15	38.32	44.64	35.81	42.23	40.25	41.45	40.32	39.00	42.63	40.85	36.10	34.29	43.33	36.60	37.58
2:16	38.34	44.66	35.85	42.18	40.26	41.48	40.35	39.04	42.68	40.89	36.14	34.32	43.37	36.64	37.62
2:17	38.35	44.68	35.93	42.20	40.29	41.49	40.40	39.09	42.72	40.93	36.18	34.37	43.38	36.67	37.65
2:18	38.37	44.73	35.98	42.26	40.34	41.49	40.44	39.13	42.77	40.96	36.21	34.37	43.41	36.69	37.67
2:19	38.42	44.77	35.96	42.31	40.37	41.46	40.48	39.19	42.84	40.99	36.23	34.41	43.45	36.75	37.71
2:20	38.42	44.79	35.98	42.32	40.38	41.47	40.51	39.16	42.88	41.01	36.28	34.43	43.53	36.78	37.75
2:21	38.45	44.84	35.99	42.38	40.42	41.47	40.57	39.17	42.89	41.03	36.33	34.41	43.54	36.83	37.78
2:22	38.46	44.91	36.02	42.38	40.44	41.50	40.57	39.19	42.93	41.05	36.38	34.45	43.61	36.83	37.82
2:23	38.50	44.92	36.05	42.44	40.48	41.54	40.62	39.24	42.95	41.09	36.42	34.50	43.63	36.88	37.86
2:24	38.55	44.95	36.09	42.47	40.52	41.60	40.62	39.26	42.99	41.12	36.46	34.51	43.68	36.91	37.89
2:25	38.57	44.95	36.12	42.45	40.52	41.63	40.60	39.30	43.04	41.14	36.49	34.53	43.76	36.94	37.93
2:26	38.60	44.96	36.12	42.48	40.54	41.65	40.62	39.31	43.01	41.15	36.51	34.54	43.78	36.97	37.95
2:27	38.65	44.99	36.13	42.51	40.57	41.69	40.67	39.31	43.04	41.18	36.55	34.56	43.80	37.02	37.98
2:28	38.70	45.02	36.15	42.54	40.60	41.74	40.73	39.34	43.08	41.22	36.58	34.60	43.84	37.06	38.02
2:29	38.71	45.02	36.18	42.55	40.61	41.77	40.77	39.39	43.09	41.25	36.62	34.65	43.89	37.09	38.06

2:30	38.73	45.04	36.19	42.53	40.62	41.82	40.78	39.40	43.14	41.28	36.64	34.66	43.94	37.11	38.09
2:31	38.76	45.06	36.23	42.54	40.65	41.87	40.78	39.41	43.19	41.31	36.68	34.66	43.96	37.12	38.11
2:32	38.79	45.07	36.25	42.56	40.67	41.88	40.81	39.44	43.20	41.33	36.71	34.68	44.01	37.14	38.14
2:33	38.82	45.13	36.29	42.59	40.71	41.90	40.86	39.47	43.21	41.36	36.73	34.71	44.03	37.15	38.16
2:34	38.83	45.14	36.35	42.62	40.74	41.93	40.88	39.50	43.23	41.39	36.77	34.73	44.05	37.18	38.18
2:35	38.83	45.15	36.41	42.62	40.75	41.96	40.93	39.58	43.29	41.44	36.79	34.75	44.08	37.15	38.19
2:36	38.86	45.18	36.48	42.59	40.78	42.00	40.99	39.63	43.31	41.48	36.80	34.77	44.12	37.19	38.22
2:37	38.88	45.23	36.47	42.61	40.80	42.03	41.00	39.67	43.35	41.51	36.83	34.81	44.16	37.24	38.26
2:38	38.91	45.22	36.50	42.63	40.81	42.06	41.07	39.76	43.36	41.56	36.86	34.83	44.21	37.29	38.30
2:39	38.94	45.26	36.50	42.64	40.83	42.09	41.12	39.83	43.42	41.61	36.91	34.87	44.28	37.33	38.35
2:40	38.96	45.26	36.49	42.65	40.84	42.08	41.12	39.87	43.50	41.64	36.93	34.92	44.32	37.38	38.39
2:41	38.97	45.29	36.50	42.72	40.87	42.11	41.11	39.92	43.55	41.67	36.95	34.95	44.38	37.40	38.42
2:42	38.97	45.27	36.53	42.80	40.89	42.14	41.09	39.96	43.58	41.69	36.97	34.99	44.43	37.43	38.46
2:43	38.99	45.30	36.56	42.83	40.92	42.20	41.07	39.98	43.61	41.71	37.03	35.02	44.46	37.46	38.49
2:44	39.03	45.27	36.57	42.88	40.94	42.22	41.13	39.98	43.62	41.74	37.06	35.03	44.47	37.48	38.51
2:45	39.05	45.29	36.56	42.87	40.94	42.23	41.18	40.02	43.63	41.77	37.09	35.04	44.52	37.48	38.53
2:46	39.10	45.35	36.55	42.83	40.96	42.25	41.15	40.05	43.65	41.78	37.09	35.05	44.55	37.53	38.55
2:47	39.12	45.37	36.59	42.87	40.99	42.28	41.13	40.03	43.66	41.78	37.10	35.06	44.62	37.56	38.59
2:48	39.13	45.41	36.65	42.91	41.02	42.31	41.16	40.06	43.70	41.81	37.12	35.07	44.67	37.60	38.62
2:49	39.15	45.45	36.72	42.96	41.07	42.34	41.14	40.08	43.74	41.82	37.14	35.11	44.75	37.63	38.66
2:50	39.17	45.48	36.75	42.99	41.10	42.36	41.15	40.09	43.74	41.84	37.16	35.15	44.76	37.65	38.68
2:51	39.17	45.50	36.74	43.02	41.11	42.37	41.15	40.11	43.74	41.84	37.18	35.16	44.81	37.67	38.71
2:52	39.19	45.53	36.72	43.03	41.12	42.41	41.17	40.13	43.73	41.86	37.20	35.17	44.84	37.68	38.72
2:53	39.22	45.56	36.72	43.06	41.14	42.45	41.18	40.16	43.78	41.89	37.22	35.20	44.86	37.72	38.75
2:54	39.27	45.58	36.76	43.08	41.17	42.50	41.21	40.20	43.81	41.93	37.24	35.20	44.94	37.79	38.79
2:55	39.27	45.65	36.82	43.10	41.21	42.53	41.21	40.24	43.81	41.95	37.26	35.22	44.99	37.81	38.82
2:56	39.31	45.69	36.89	43.07	41.24	42.58	41.21	40.29	43.83	41.98	37.27	35.24	45.06	37.84	38.85
2:57	39.34	45.67	36.89	43.11	41.25	42.59	41.27	40.29	43.84	42.00	37.30	35.23	45.12	37.89	38.88
2:58	39.37	45.69	36.92	43.15	41.28	42.62	41.28	40.34	43.86	42.03	37.35	35.24	45.15	37.96	38.93
2:59	39.38	45.71	36.93	43.16	41.30	42.66	41.34	40.38	43.88	42.06	37.39	35.25	45.20	37.99	38.96
3:00	39.37	45.66	36.98	43.18	41.30	42.68	41.36	40.38	43.88	42.07	37.42	35.25	45.23	38.02	38.98
3:01	39.41	45.67	36.99	43.12	41.30	42.69	41.40	40.35	43.89	42.08	37.45	35.27	45.23	38.02	38.99
3:02	39.46	45.71	36.94	43.11	41.30	42.74	41.43	40.38	43.94	42.12	37.49	35.32	45.26	38.02	39.02
3:03	39.50	45.75	36.93	43.14	41.33	42.78	41.50	40.36	43.96	42.15	37.52	35.34	45.28	38.02	39.04
3:04	39.50	45.76	36.91	43.16	41.33	42.79	41.57	40.39	43.99	42.19	37.55	35.37	45.31	38.04	39.07
3:05	39.54	45.82	36.89	43.14	41.35	42.83	41.56	40.38	44.02	42.20	37.59	35.40	45.34	38.08	39.10
3:06	39.56	45.85	36.90	43.13	41.36	42.82	41.55	40.43	44.06	42.21	37.60	35.44	45.37	38.10	39.13
3:07	39.60	45.87	36.96	43.15	41.39	42.82	41.56	40.42	44.07	42.22	37.63	35.46	45.37	38.14	39.15
3:08	39.60	45.89	37.02	43.19	41.43	42.82	41.58	40.46	44.09	42.24	37.66	35.46	45.41	38.18	39.18
3:09	39.61	45.91	37.03	43.17	41.43	42.83	41.62	40.45	44.15	42.26	37.70	35.45	45.40	38.22	39.19
3:10	39.63	45.91	37.07	43.21	41.46	42.86	41.61	40.44	44.20	42.28	37.72	35.50	45.44	38.24	39.22
3:11	39.66	45.95	37.07	43.20	41.47	42.89	41.58	40.51	44.23	42.30	37.75	35.54	45.50	38.25	39.26
3:12	39.66	45.96	37.09	43.23	41.49	42.91	41.62	40.57	44.26	42.34	37.76	35.57	45.55	38.28	39.29
3:13	39.66	45.94	37.11	43.21	41.48	42.95	41.72	40.61	44.27	42.39	37.79	35.58	45.59	38.25	39.30
3:14	39.66	45.89	37.15	43.26	41.49	43.02	41.77	40.69	44.30	42.44	37.80	35.60	45.68	38.24	39.33
3:15	39.65	45.89	37.14	43.37	41.51	43.05	41.75	40.69	44.33	42.45	37.82	35.60	45.68	38.25	39.34
3:16	39.68	45.89	37.18	43.41	41.54	43.06	41.81	40.68	44.32	42.47	37.87	35.60	45.66	38.29	39.36
3:17	39.70	45.81	37.23	43.39	41.53	43.08	41.89	40.67	44.35	42.50	37.90	35.63	45.69	38.32	39.39
3:18	39.68	45.78	37.26	43.34	41.52	43.06	41.98	40.68	44.39	42.53	37.91	35.62	45.76	38.35	39.41
3:19	39.70	45.82	37.28	43.33	41.53	43.07	42.05	40.71	44.45	42.57	37.94	35.64	45.80	38.38	39.44
3:20	39.68	45.82	37.28	43.36	41.54	43.07	42.06	40.71	44.51	42.59	37.97	35.64	45.81	38.41	39.46
3:21	39.69	45.84	37.29	43.38	41.55	43.10	42.09	40.73	44.49	42.60	37.97	35.63	45.83	38.45	39.47
3:22	39.71	45.87	37.30	43.40	41.57	43.11	42.09	40.82	44.52	42.64	37.98	35.65	45.86	38.47	39.49
3:23	39.76	45.90	37.30	43.47	41.61	43.15	42.08	40.85	44.56	42.66	38.01	35.66	45.92	38.50	39.52
3:24	39.79	45.95	37.26	43.55	41.64	43.19	42.08	40.89	44.55	42.68	38.04	35.70	45.97	38.50	39.55
3:25	39.80	46.00	37.22	43.60	41.65	43.23	42.06	40.91	44.53	42.68	38.07	35.71	46.02	38.51	39.58
3:26	39.81	46.08	37.24	43.63	41.69	43.23	42.00	40.93	44.52	42.67	38.08	35.73	46.13	38.51	39.61
3:27	39.80	46.09	37.27	43.65	41.70	43.25	42.00	40.96	44.54	42.69	38.07	35.76	46.18	38.52	39.63
3:28	39.80	46.14	37.29	43.69	41.73	43.26	42.02	40.96	44.55	42.70	38.10	35.78	46.22	38.54	39.66
3:29	39.80	46.18	37.26	43.71	41.74	43.24	42.04	41.00	44.59	42.72	38.13	35.81	46.27	38.55	39.69
3:30	39.82	46.19	37.26	43.73	41.75	43.24	42.09	41.05	44.60	42.74	38.16	35.85	46.29	38.58	39.72
3:31	39.82	46.21	37.31	43.72	41.76	43.25	42.09	41.09	44.60	42.76	38.19	35.88	46.34	38.60	39.75
3:32	39.88	46.24	37.38	43.69	41.80	43.24	42.05	41.13	44.61	42.76	38.20	35.91	46.36	38.60	39.77
3:33	39.91	46.26	37.40	43.72	41.82	43.27	42.04	41.16	44.64	42.78	38.21	35.91	46.37	38.58	39.77
3:34	39.95	46.29	37.41	43.70	41.84	43.29	42.02	41.17	44.64	42.78	38.23	35.94	46.38	38.58	39.78
3:35	39.96	46.33	37.46	43.69	41.86	43.34	42.02	41.19	44.63	42.79	38.26	35.94	46.41	38.63	39.81
3:36	39.97	46.38	37.50	43.67	41.88	43.32	42.07	41.21	44.62	42.80	38.26	35.97	46.43	38.68	39.83
3:37	39.96	46.40	37.52	43.69	41.89	43.31	42.08	41.26	44.63	42.82	38.28	35.99	46.44	38.72	39.86

3:38	39.99	46.38	37.52	43.71	41.90	43.31	42.12	41.31	44.62	42.84	38.27	36.00	46.46	38.76	39.87
3:39	40.01	46.39	37.47	43.66	41.88	43.30	42.14	41.31	44.60	42.84	38.26	36.01	46.48	38.79	39.89
3:40	40.03	46.41	37.44	43.66	41.88	43.33	42.12	41.32	44.60	42.84	38.27	36.03	46.54	38.81	39.91
3:41	40.02	46.44	37.43	43.62	41.88	43.35	42.17	41.28	44.62	42.86	38.30	36.07	46.53	38.83	39.93
3:42	40.04	46.45	37.44	43.61	41.88	43.36	42.19	41.29	44.62	42.86	38.31	36.13	46.54	38.86	39.96
3:43	40.03	46.45	37.37	43.56	41.86	43.41	42.20	41.30	44.64	42.89	38.31	36.15	46.56	38.90	39.98
3:44	40.05	46.45	37.34	43.50	41.83	43.43	42.20	41.31	44.65	42.90	38.31	36.18	46.55	38.95	40.00
3:45	40.04	46.46	37.35	43.46	41.83	43.40	42.24	41.26	44.65	42.89	38.31	36.19	46.58	38.95	40.01
3:46	40.04	46.48	37.37	43.43	41.83	43.42	42.28	41.18	44.64	42.88	38.35	36.21	46.57	38.98	40.03
3:47	40.06	46.45	37.40	43.44	41.84	43.45	42.29	41.13	44.62	42.87	38.37	36.24	46.57	38.99	40.04
3:48	40.09	46.47	37.43	43.44	41.86	43.48	42.29	41.16	44.63	42.89	38.38	36.25	46.63	39.00	40.06
3:49	40.12	46.48	37.45	43.45	41.87	43.48	42.33	41.18	44.65	42.91	38.41	36.26	46.69	39.02	40.09
3:50	40.16	46.46	37.50	43.49	41.90	43.51	42.38	41.13	44.67	42.92	38.45	36.26	46.68	39.07	40.11
3:51	40.18	46.47	37.57	43.48	41.93	43.54	42.40	41.15	44.71	42.95	38.50	36.26	46.71	39.09	40.14
3:52	40.16	46.50	37.62	43.45	41.93	43.51	42.41	41.12	44.75	42.95	38.51	36.27	46.72	39.13	40.16
3:53	40.17	46.51	37.68	43.44	41.95	43.52	42.44	41.07	44.79	42.96	38.55	36.27	46.73	39.15	40.18
3:54	40.19	46.52	37.74	43.48	41.98	43.56	42.38	41.11	44.77	42.95	38.59	36.28	46.77	39.19	40.21
3:55	40.23	46.51	37.80	43.43	41.99	43.60	42.36	41.15	44.72	42.96	38.63	36.31	46.85	39.21	40.25
3:56	40.23	46.50	37.85	43.49	42.02	43.62	42.36	41.17	44.73	42.97	38.65	36.34	46.92	39.22	40.28
3:57	40.25	46.55	37.86	43.57	42.06	43.64	42.37	41.21	44.72	42.99	38.68	36.34	46.95	39.25	40.30
3:58	40.30	46.59	37.86	43.63	42.10	43.65	42.33	41.22	44.72	42.98	38.72	36.36	46.97	39.30	40.34
3:59	40.33	46.61	37.87	43.67	42.12	43.66	42.33	41.33	44.70	43.00	38.73	36.37	46.98	39.31	40.35
4:00	40.35	46.62	37.85	43.71	42.13	43.66	42.39	41.35	44.66	43.01	38.76	36.39	46.96	39.30	40.35
4:01	40.36	46.58	37.81	43.73	42.12	43.61	42.36	41.33	44.66	42.99	38.77	36.42	47.01	39.33	40.38
4:02	40.38	46.60	37.77	43.72	42.12	43.66	42.36	41.31	44.66	43.00	38.78	36.42	47.04	39.34	40.40
4:03	40.37	46.62	37.77	43.68	42.11	43.67	42.40	41.27	44.68	43.00	38.79	36.44	47.08	39.31	40.41
4:04	40.37	46.65	37.76	43.73	42.13	43.69	42.45	41.30	44.68	43.03	38.82	36.48	47.10	39.31	40.43
4:05	40.35	46.69	37.76	43.70	42.12	43.69	42.45	41.32	44.69	43.04	38.81	36.49	47.13	39.34	40.44
4:06	40.36	46.68	37.75	43.71	42.12	43.68	42.50	41.37	44.70	43.06	38.81	36.50	47.17	39.36	40.46
4:07	40.34	46.66	37.78	43.77	42.14	43.70	42.55	41.44	44.68	43.09	38.85	36.53	47.20	39.39	40.49
4:08	40.34	46.66	37.82	43.75	42.14	43.73	42.58	41.49	44.69	43.12	38.85	36.52	47.23	39.40	40.50
4:09	40.34	46.69	37.84	43.76	42.16	43.74	42.57	41.52	44.72	43.14	38.86	36.56	47.24	39.40	40.52
4:10	40.39	46.69	37.88	43.78	42.18	43.72	42.53	41.51	44.74	43.13	38.89	36.56	47.25	39.42	40.53
4:11	40.45	46.68	37.95	43.82	42.23	43.73	42.54	41.56	44.73	43.14	38.90	36.57	47.28	39.45	40.55
4:12	40.45	46.71	37.99	43.81	42.24	43.78	42.58	41.57	44.75	43.17	38.92	36.55	47.32	39.49	40.57
4:13	40.48	46.71	38.02	43.78	42.25	43.79	42.63	41.55	44.76	43.18	38.94	36.56	47.33	39.53	40.59
4:14	40.56	46.70	38.05	43.79	42.28	43.82	42.62	41.54	44.76	43.19	38.97	36.56	47.30	39.51	40.59
4:15	40.63	46.68	38.11	43.87	42.32	43.86	42.67	41.57	44.82	43.23	39.02	36.56	47.30	39.49	40.59
4:16	40.63	46.73	38.15	43.93	42.36	43.88	42.68	41.57	44.84	43.24	39.05	36.58	47.33	39.52	40.62
4:17	40.64	46.76	38.20	43.96	42.39	43.92	42.73	41.58	44.87	43.28	39.05	36.60	47.36	39.53	40.64
4:18	40.66	46.72	38.22	44.01	42.40	43.94	42.78	41.59	44.88	43.30	39.08	36.59	47.40	39.57	40.66
4:19	40.68	46.76	38.21	44.02	42.42	43.94	42.84	41.59	44.91	43.32	39.08	36.62	47.44	39.62	40.69
4:20	40.70	46.75	38.22	44.07	42.43	43.94	42.84	41.63	44.92	43.33	39.08	36.64	47.48	39.64	40.71
4:21	40.67	46.79	38.17	44.10	42.43	43.95	42.84	41.67	44.94	43.35	39.09	36.65	47.52	39.65	40.73
4:22	40.69	46.85	38.12	44.10	42.44	43.99	42.89	41.65	44.90	43.36	39.13	36.68	47.55	39.66	40.75
4:23	40.71	46.86	38.15	44.07	42.45	44.01	42.89	41.69	44.89	43.37	39.14	36.70	47.59	39.66	40.77
4:24	40.72	46.87	38.17	44.11	42.47	44.03	42.88	41.73	44.93	43.39	39.16	36.72	47.65	39.68	40.80
4:25	40.72	46.92	38.20	44.10	42.48	44.03	42.86	41.75	44.95	43.40	39.20	36.73	47.67	39.71	40.83
4:26	40.72	46.95	38.14	44.08	42.47	43.99	42.84	41.80	44.99	43.41	39.25	36.78	47.70	39.74	40.87
4:27	40.73	46.93	38.12	44.10	42.47	43.98	42.89	41.87	45.00	43.43	39.27	36.79	47.72	39.76	40.88
4:28	40.72	46.97	38.16	44.09	42.48	43.98	42.91	41.90	45.03	43.45	39.28	36.79	47.74	39.80	40.90
4:29	40.70	46.93	38.15	44.04	42.46	44.01	42.95	41.92	45.02	43.48	39.30	36.82	47.81	39.81	40.93
4:30	40.71	46.91	38.16	44.01	42.45	44.04	43.04	41.86	44.97	43.48	39.33	36.85	47.83	39.81	40.95
4:31	40.70	46.91	38.16	44.06	42.46	44.06	43.10	41.87	44.99	43.51	39.35	36.88	47.82	39.82	40.97
4:32	40.71	46.92	38.12	44.07	42.45	44.04	43.09	41.88	45.01	43.51	39.36	36.92	47.84	39.78	40.97
4:33	40.70	46.92	38.14	44.11	42.47	44.08	43.09	41.88	45.02	43.52	39.38	36.94	47.85	39.79	40.99
4:34	40.73	46.97	38.18	44.13	42.50	44.12	43.07	41.86	45.03	43.52	39.39	36.96	47.89	39.81	41.01
4:35	40.77	47.04	38.20	44.10	42.53	44.14	43.06	41.83	45.03	43.51	39.40	36.96	47.92	39.84	41.03
4:36	40.78	47.07	38.22	44.09	42.54	44.15	43.03	41.85	45.09	43.53	39.40	36.98	47.91	39.82	41.03
4:37	40.81	47.09	38.28	44.14	42.58	44.15	43.00	41.83	45.08	43.52	39.41	36.98	47.92	39.84	41.04
4:38	40.85	47.08	38.32	44.15	42.60	44.19	42.99	41.88	45.14	43.55	39.44	36.96	47.92	39.90	41.06
4:39	40.88	47.05	38.30	44.18	42.60	44.25	43.04	42.00	45.19	43.62	39.45	36.96	47.96	39.95	41.08
4:40	40.94	47.13	38.30	44.18	42.64	44.27	43.04	42.05	45.19	43.64	39.46	36.99	48.01	39.97	41.11
4:41	40.92	47.14	38.21	44.17	42.61	44.26	43.04	42.02	45.20	43.63	39.47	37.02	48.03	39.99	41.13
4:42	40.92	47.17	38.21	44.19	42.62	44.26	43.06	42.01	45.26	43.65	39.47	37.07	48.07	40.01	41.16
4:43	40.96	47.12	38.26	44.24	42.64	44.25	43.08	42.06	45.32	43.68	39.48	37.07	48.14	40.02	41.18
4:44	40.95	47.16	38.27	44.33	42.68	44.25	43.12	42.07	45.37	43.70	39.46	37.09	48.17	39.99	41.18
4:45	40.96	47.21	38.27	44.38	42.70	44.22	43.19	42.10	45.36	43.72	39.46	37.12	48.17	39.98	41.18

4:46	40.97	47.23	38.31	44.40	42.73	44.24	43.25	42.07	45.31	43.72	39.46	37.17	48.19	40.01	41.21
4:47	40.98	47.25	38.32	44.38	42.73	44.24	43.22	42.11	45.34	43.73	39.47	37.19	48.24	40.04	41.23
4:48	40.97	47.22	38.28	44.33	42.70	44.23	43.24	42.09	45.41	43.74	39.47	37.19	48.27	40.08	41.25
4:49	40.94	47.27	38.24	44.32	42.69	44.24	43.28	42.09	45.44	43.76	39.47	37.16	48.29	40.12	41.26
4:50	40.97	47.22	38.18	44.34	42.68	44.23	43.28	42.08	45.46	43.76	39.49	37.13	48.30	40.15	41.27
4:51	41.01	47.24	38.15	44.31	42.68	44.26	43.28	42.05	45.42	43.75	39.53	37.10	48.27	40.17	41.27
4:52	41.05	47.27	38.17	44.33	42.71	44.27	43.28	42.08	45.44	43.77	39.54	37.10	48.28	40.20	41.28
4:53	41.03	47.25	38.19	44.35	42.71	44.22	43.27	42.10	45.49	43.77	39.55	37.10	48.32	40.20	41.29
4:54	41.02	47.23	38.23	44.41	42.72	44.21	43.28	42.16	45.51	43.79	39.54	37.12	48.37	40.20	41.31
4:55	41.02	47.28	38.22	44.47	42.75	44.25	43.26	42.19	45.49	43.80	39.54	37.12	48.42	40.24	41.33
4:56	41.03	47.28	38.19	44.51	42.75	44.24	43.31	42.21	45.50	43.82	39.54	37.14	48.46	40.27	41.35
4:57	41.00	47.28	38.15	44.53	42.74	44.22	43.32	42.19	45.55	43.82	39.55	37.16	48.47	40.31	41.37
4:58	40.99	47.30	38.10	44.61	42.75	44.22	43.35	42.23	45.61	43.85	39.58	37.20	48.53	40.35	41.41
4:59	41.02	47.32	38.08	44.70	42.78	44.25	43.38	42.25	45.64	43.88	39.60	37.21	48.55	40.33	41.42
5:00	41.04	47.33	38.08	44.77	42.80	44.26	43.40	42.30	45.63	43.90	39.61	37.25	48.60	40.34	41.45

Appendix C

Test One Results in Celsius

Time	Thermistors (1-18)																	
	T 1	T 2	T 3	T 4	T 5	T 6	T 7	T 8	T 9	T 10	T 11	T 12	T 13	T 14	T 15	T 16	T 17	T 18
0:00	20.42	20.07	19.93	20.14	19.50	19.81	20.44	20.08	20.03	21.78	19.83	19.74	20.22	19.58	20.03	20.49	20.07	19.90
0:01	20.42	20.07	19.93	20.13	19.51	19.81	20.45	20.07	20.02	21.78	19.83	19.74	20.22	19.59	20.03	20.48	20.08	19.92
0:02	20.43	20.06	19.94	20.13	19.50	19.79	20.45	20.08	20.02	21.78	19.84	19.74	20.21	19.58	20.01	20.49	20.08	19.90
0:03	20.43	20.06	19.93	20.13	19.50	19.80	20.45	20.08	20.03	21.78	19.84	19.75	20.22	19.59	20.03	20.49	20.08	19.90
0:04	20.96	20.07	19.97	20.48	19.50	19.81	20.94	20.07	20.08	22.35	19.83	19.80	20.58	19.58	20.03	21.01	20.07	19.94
0:05	21.79	20.07	20.03	21.18	19.54	19.85	21.83	20.07	20.20	23.37	19.84	19.93	21.22	19.58	20.05	21.88	20.08	20.03
0:06	22.63	20.07	20.12	21.91	19.59	19.88	22.73	20.08	20.34	24.37	19.84	20.09	21.87	19.59	20.09	22.77	20.09	20.11
0:07	23.45	20.07	20.20	22.62	19.69	19.92	23.59	20.11	20.50	25.35	19.85	20.26	22.49	19.59	20.12	23.62	20.12	20.23
0:08	24.20	20.06	20.28	23.28	19.82	19.96	24.42	20.15	20.67	26.26	19.84	20.42	23.06	19.60	20.16	24.42	20.17	20.35
0:09	24.88	20.07	20.37	23.88	19.96	20.01	25.19	20.22	20.84	27.12	19.84	20.59	23.60	19.60	20.21	25.18	20.25	20.48
0:10	25.52	20.07	20.45	24.44	20.10	20.06	25.90	20.30	21.00	27.92	19.85	20.75	24.12	19.62	20.25	25.87	20.34	20.60
0:11	26.08	20.07	20.53	24.95	20.25	20.11	26.57	20.39	21.15	28.69	19.85	20.91	24.61	19.63	20.30	26.53	20.46	20.72
0:12	26.59	20.07	20.62	25.44	20.41	20.15	27.18	20.51	21.32	29.39	19.85	21.06	25.08	19.66	20.34	27.14	20.60	20.83
0:13	27.10	20.08	20.70	25.89	20.56	20.20	27.74	20.63	21.45	30.02	19.85	21.21	25.49	19.68	20.39	27.71	20.74	20.95
0:14	27.58	20.09	20.78	26.32	20.72	20.26	28.30	20.76	21.60	30.62	19.86	21.36	25.88	19.71	20.43	28.25	20.88	21.05
0:15	28.03	20.09	20.85	26.71	20.87	20.32	28.82	20.89	21.74	31.17	19.86	21.49	26.25	19.75	20.48	28.74	21.05	21.17
0:16	28.44	20.09	20.93	27.08	21.03	20.38	29.29	21.04	21.86	31.64	19.87	21.62	26.61	19.79	20.53	29.21	21.21	21.27
0:17	28.79	20.11	21.01	27.43	21.17	20.44	29.77	21.18	21.98	32.11	19.87	21.75	26.94	19.83	20.57	29.66	21.37	21.38
0:18	29.16	20.13	21.07	27.75	21.31	20.51	30.21	21.33	22.10	32.57	19.89	21.87	27.20	19.87	20.62	30.10	21.54	21.48
0:19	29.53	20.15	21.14	28.08	21.46	20.55	30.64	21.48	22.21	33.05	19.90	21.98	27.49	19.92	20.68	30.54	21.72	21.57
0:20	29.88	20.16	21.21	28.39	21.59	20.62	31.05	21.63	22.32	33.50	19.91	22.10	27.74	19.97	20.73	30.94	21.88	21.66
0:21	30.18	20.19	21.28	28.68	21.73	20.67	31.45	21.78	22.42	33.91	19.94	22.23	27.95	20.02	20.77	31.34	22.06	21.75
0:22	30.45	20.22	21.34	28.94	21.87	20.73	31.82	21.93	22.51	34.27	19.95	22.34	28.17	20.09	20.83	31.69	22.23	21.85
0:23	30.72	20.25	21.40	29.18	22.00	20.77	32.14	22.08	22.59	34.60	19.98	22.47	28.39	20.15	20.87	32.00	22.40	21.94
0:24	30.94	20.29	21.47	29.39	22.13	20.82	32.46	22.23	22.67	34.93	19.99	22.59	28.62	20.20	20.91	32.29	22.57	22.03
0:25	31.14	20.32	21.53	29.58	22.26	20.86	32.74	22.39	22.76	35.24	20.01	22.71	28.82	20.26	20.96	32.59	22.74	22.13
0:26	31.38	20.35	21.59	29.77	22.39	20.91	33.00	22.53	22.84	35.51	20.06	22.82	29.01	20.31	21.01	32.88	22.91	22.21
0:27	31.61	20.39	21.64	29.97	22.51	20.96	33.28	22.69	22.92	35.79	20.09	22.93	29.18	20.39	21.06	33.15	23.08	22.29
0:28	31.86	20.43	21.69	30.17	22.64	20.99	33.58	22.83	22.98	36.05	20.12	23.05	29.36	20.45	21.09	33.39	23.24	22.39
0:29	32.09	20.48	21.74	30.34	22.76	21.05	33.83	22.99	23.04	36.28	20.16	23.13	29.50	20.51	21.14	33.65	23.40	22.47
0:30	32.29	20.53	21.78	30.52	22.88	21.08	34.06	23.13	23.11	36.53	20.19	23.21	29.62	20.58	21.18	33.87	23.56	22.55
0:31	32.49	20.58	21.83	30.68	23.00	21.12	34.29	23.27	23.17	36.74	20.24	23.31	29.73	20.65	21.23	34.11	23.72	22.63
0:32	32.65	20.61	21.87	30.85	23.13	21.16	34.52	23.42	23.23	36.92	20.27	23.39	29.86	20.72	21.28	34.32	23.88	22.73
0:33	32.81	20.67	21.92	31.00	23.24	21.20	34.73	23.57	23.29	37.12	20.32	23.47	29.96	20.79	21.32	34.53	24.03	22.78
0:34	32.96	20.72	21.95	31.15	23.35	21.23	34.94	23.71	23.34	37.36	20.36	23.53	30.05	20.86	21.38	34.69	24.19	22.84
0:35	33.12	20.77	21.98	31.30	23.47	21.28	35.14	23.85	23.39	37.54	20.41	23.60	30.17	20.94	21.41	34.84	24.35	22.92
0:36	33.28	20.82	22.02	31.42	23.58	21.32	35.32	23.99	23.44	37.70	20.45	23.66	30.29	21.02	21.45	35.01	24.50	22.99
0:37	33.42	20.87	22.04	31.54	23.69	21.35	35.51	24.15	23.49	37.86	20.50	23.72	30.40	21.08	21.49	35.15	24.65	23.05
0:38	33.56	20.93	22.07	31.65	23.80	21.39	35.67	24.27	23.53	38.01	20.55	23.79	30.51	21.16	21.54	35.32	24.80	23.13
0:39	33.69	21.00	22.10	31.75	23.91	21.42	35.85	24.42	23.59	38.17	20.60	23.84	30.63	21.23	21.59	35.49	24.95	23.18
0:40	33.79	21.05	22.14	31.87	24.02	21.45	36.00	24.56	23.62	38.32	20.65	23.89	30.72	21.30	21.62	35.64	25.09	23.24
0:41	33.91	21.10	22.17	31.97	24.13	21.48	36.14	24.69	23.66	38.45	20.70	23.95	30.78	21.37	21.66	35.79	25.24	23.30
0:42	34.04	21.16	22.19	32.06	24.24	21.51	36.26	24.83	23.70	38.60	20.74	24.01	30.82	21.45	21.71	35.92	25.38	23.35
0:43	34.17	21.22	22.22	32.19	24.34	21.54	36.40	24.97	23.74	38.72	20.80	24.06	30.89	21.53	21.74	36.03	25.53	23.39

0:44	34.30	21.29	22.24	32.28	24.45	21.55	36.55	25.10	23.78	38.86	20.86	24.11	30.97	21.60	21.77	36.13	25.67	23.44
0:45	34.44	21.35	22.26	32.37	24.55	21.59	36.68	25.23	23.82	38.99	20.90	24.14	31.05	21.67	21.81	36.24	25.81	23.48
0:46	34.53	21.41	22.28	32.47	24.65	21.61	36.82	25.37	23.86	39.12	20.96	24.19	31.14	21.75	21.84	36.40	25.95	23.52
0:47	34.61	21.47	22.30	32.55	24.75	21.63	36.94	25.50	23.89	39.22	21.02	24.22	31.21	21.83	21.87	36.55	26.08	23.57
0:48	34.70	21.53	22.32	32.63	24.86	21.64	37.02	25.63	23.93	39.35	21.07	24.27	31.29	21.91	21.90	36.64	26.23	23.61
0:49	34.74	21.59	22.35	32.72	24.96	21.66	37.10	25.77	23.97	39.47	21.13	24.30	31.36	21.98	21.93	36.73	26.36	23.64
0:50	34.80	21.65	22.37	32.78	25.06	21.68	37.21	25.89	24.00	39.60	21.18	24.31	31.38	22.05	21.96	36.80	26.50	23.67
0:51	34.88	21.72	22.38	32.85	25.16	21.70	37.32	26.02	24.03	39.74	21.24	24.34	31.39	22.13	21.99	36.91	26.63	23.70
0:52	34.94	21.79	22.40	32.94	25.26	21.72	37.40	26.15	24.05	39.83	21.30	24.37	31.46	22.21	22.01	36.98	26.77	23.75
0:53	35.02	21.85	22.42	33.04	25.35	21.75	37.49	26.27	24.08	39.89	21.35	24.40	31.49	22.28	22.04	37.08	26.90	23.80
0:54	35.11	21.91	22.44	33.11	25.45	21.77	37.57	26.40	24.09	39.99	21.41	24.42	31.53	22.36	22.06	37.11	27.04	23.83
0:55	35.19	21.97	22.45	33.22	25.55	21.78	37.67	26.53	24.11	40.04	21.47	24.45	31.56	22.44	22.08	37.21	27.16	23.85
0:56	35.25	22.04	22.47	33.29	25.64	21.79	37.76	26.66	24.13	40.12	21.52	24.47	31.59	22.51	22.11	37.28	27.29	23.88
0:57	35.31	22.11	22.49	33.33	25.75	21.81	37.83	26.78	24.16	40.21	21.58	24.51	31.66	22.58	22.13	37.37	27.42	23.89
0:58	35.38	22.17	22.51	33.38	25.83	21.81	37.91	26.91	24.19	40.28	21.64	24.50	31.73	22.66	22.15	37.48	27.55	23.92
0:59	35.47	22.23	22.54	33.43	25.93	21.83	38.02	27.03	24.21	40.45	21.70	24.47	31.79	22.74	22.18	37.58	27.67	23.94
1:00	35.53	22.30	22.57	33.49	26.02	21.83	38.14	27.14	24.25	40.51	21.76	24.46	31.83	22.81	22.19	37.62	27.80	23.96
1:01	35.60	22.37	22.59	33.56	26.11	21.85	38.22	27.27	24.28	40.59	21.82	24.43	31.90	22.88	22.22	37.68	27.92	23.99
1:02	35.68	22.43	22.60	33.62	26.20	21.87	38.27	27.39	24.33	40.74	21.88	24.43	31.93	22.95	22.25	37.75	28.04	24.00
1:03	35.71	22.49	22.62	33.67	26.29	21.86	38.36	27.51	24.37	40.87	21.95	24.43	31.96	23.03	22.27	37.86	28.17	24.02
1:04	35.77	22.56	22.64	33.71	26.38	21.88	38.41	27.63	24.39	40.98	22.01	24.41	32.04	23.10	22.29	37.92	28.29	24.04
1:05	35.81	22.62	22.66	33.74	26.48	21.89	38.51	27.74	24.41	41.04	22.06	24.38	32.10	23.18	22.31	38.03	28.42	24.06
1:06	35.86	22.69	22.68	33.78	26.56	21.89	38.57	27.86	24.44	41.17	22.13	24.39	32.15	23.24	22.33	38.12	28.53	24.07
1:07	35.93	22.75	22.69	33.86	26.65	21.89	38.65	27.98	24.47	41.31	22.19	24.39	32.20	23.32	22.35	38.20	28.66	24.10
1:08	36.00	22.82	22.71	33.91	26.75	21.90	38.73	28.10	24.50	41.41	22.25	24.39	32.24	23.40	22.37	38.26	28.77	24.12
1:09	36.06	22.89	22.74	33.99	26.84	21.92	38.80	28.21	24.53	41.51	22.32	24.39	32.27	23.47	22.39	38.33	28.89	24.13
1:10	36.12	22.95	22.74	34.04	26.92	21.93	38.89	28.33	24.56	41.61	22.37	24.37	32.30	23.53	22.41	38.41	29.00	24.16
1:11	36.16	23.01	22.76	34.11	27.01	21.94	38.96	28.44	24.59	41.73	22.43	24.37	32.35	23.61	22.43	38.51	29.13	24.17
1:12	36.20	23.08	22.78	34.18	27.10	21.95	39.03	28.55	24.61	41.85	22.50	24.37	32.41	23.67	22.45	38.56	29.25	24.18
1:13	36.25	23.14	22.80	34.24	27.19	21.96	39.07	28.66	24.64	41.92	22.56	24.36	32.47	23.75	22.47	38.58	29.36	24.22
1:14	36.31	23.21	22.81	34.30	27.28	21.97	39.14	28.77	24.66	42.00	22.62	24.36	32.50	23.82	22.49	38.64	29.48	24.24
1:15	36.35	23.27	22.83	34.36	27.37	21.99	39.19	28.88	24.69	42.09	22.68	24.36	32.56	23.88	22.51	38.70	29.60	24.25
1:16	36.39	23.33	22.84	34.41	27.45	22.00	39.23	29.00	24.72	42.14	22.75	24.37	32.61	23.96	22.53	38.77	29.71	24.27
1:17	36.42	23.40	22.86	34.45	27.53	22.01	39.31	29.11	24.74	42.21	22.81	24.37	32.68	24.03	22.54	38.81	29.83	24.28
1:18	36.47	23.46	22.87	34.50	27.63	22.01	39.37	29.21	24.77	42.30	22.86	24.38	32.75	24.10	22.56	38.87	29.94	24.31
1:19	36.46	23.53	22.87	34.55	27.71	22.02	39.43	29.32	24.80	42.35	22.93	24.39	32.79	24.16	22.59	38.90	30.05	24.34
1:20	36.48	23.59	22.88	34.59	27.79	22.02	39.48	29.43	24.83	42.41	22.99	24.42	32.84	24.23	22.61	38.98	30.16	24.35
1:21	36.51	23.66	22.89	34.61	27.87	22.03	39.58	29.53	24.85	42.46	23.05	24.42	32.88	24.30	22.62	39.04	30.28	24.36
1:22	36.52	23.72	22.90	34.66	27.96	22.04	39.65	29.64	24.85	42.49	23.11	24.42	32.91	24.38	22.65	39.12	30.39	24.37
1:23	36.58	23.79	22.91	34.71	28.04	22.05	39.72	29.74	24.88	42.55	23.18	24.42	32.96	24.44	22.66	39.19	30.49	24.39
1:24	36.64	23.85	22.92	34.77	28.11	22.06	39.77	29.85	24.91	42.61	23.24	24.42	32.99	24.50	22.68	39.25	30.59	24.41
1:25	36.69	23.92	22.93	34.84	28.20	22.07	39.84	29.95	24.92	42.67	23.31	24.43	33.03	24.57	22.70	39.29	30.71	24.41
1:26	36.73	23.99	22.94	34.89	28.28	22.08	39.87	30.06	24.94	42.68	23.36	24.44	33.05	24.65	22.72	39.34	30.81	24.43
1:27	36.78	24.05	22.95	34.93	28.36	22.10	39.92	30.16	24.95	42.78	23.43	24.45	33.06	24.71	22.73	39.41	30.91	24.45
1:28	36.82	24.11	22.95	34.97	28.44	22.10	39.97	30.26	24.98	42.84	23.48	24.45	33.10	24.77	22.75	39.45	31.02	24.46
1:29	36.88	24.17	22.96	35.02	28.53	22.11	40.02	30.36	24.99	42.90	23.55	24.46	33.16	24.84	22.77	39.50	31.12	24.47
1:30	36.92	24.24	22.97	35.06	28.60	22.12	40.05	30.46	25.02	43.01	23.60	24.48	33.18	24.90	22.78	39.55	31.23	24.47
1:31	36.94	24.30	22.98	35.08	28.67	22.13	40.06	30.57	25.03	43.11	23.67	24.49	33.22	24.97	22.79	39.60	31.32	24.48
1:32	36.98	24.36	22.99	35.11	28.76	22.15	40.08	30.66	25.05	43.15	23.73	24.48	33.23	25.04	22.81	39.59	31.42	24.49
1:33	37.04	24.43	23.00	35.15	28.84	22.16	40.14	30.75	25.07	43.20	23.79	24.49	33.26	25.10	22.85	39.58	31.53	24.51
1:34	37.12	24.49	23.01	35.20	28.91	22.17	40.22	30.86	25.09	43.30	23.85	24.51	33.31	25.17	22.85	39.58	31.62	24.52
1:35	37.17	24.55	23.02	35.24	28.98	22.18	40.27	30.95	25.11	43.37	23.91	24.52	33.34	25.23	22.87	39.57	31.72	24.53
1:36	37.22	24.62	23.03	35.29	29.06	22.19	40.31	31.05	25.12	43.49	23.98	24.55	33.38	25.29	22.89	39.62	31.82	24.56
1:37	37.29	24.68	23.03	35.35	29.14	22.20	40.38	31.14	25.16	43.55	24.03	24.55	33.43	25.35	22.90	39.64	31.92	24.57
1:38	37.30	24.74	23.04	35.41	29.21	22.21	40.44	31.23	25.17	43.58	24.09	24.55	33.43	25.41	22.92	39.67	32.01	24.59
1:39	37.34	24.81	23.05	35.47	29.29	22.22	40.50	31.33	25.19	43.64	24.15	24.56	33.46	25.49	22.94	39.71	32.11	24.60
1:40	37.40	24.87	23.04	35.54	29.36	22.24	40.57	31.42	25.20	43.73	24.22	24.58	33.49	25.55	22.95	39.76	32.20	24.60
1:41	37.44	24.93	23.05	35.58	29.44	22.25	40.62	31.51	25.23	43.77	24.28	24.57	33.51	25.61	22.97	39.80	32.29	24.62
1:42	37.49	24.98	23.06	35.64	29.51	22.26	40.68	31.61	25.23	43.82	24.33	24.59	33.54	25.67	22.99	39.84	32.39	24.63
1:43	37.52	25.05	23.07	35.70	29.58	22.27	40.72	31.70	25.25	43.89	24.39	24.59	33.60	25.73	23.01	39.86	32.48	24.64
1:44	37.55	25.11	23.07	35.75	29.65	22.28	40.75	31.79	25.26	43.97	24.45	24.60	33.63	25.80	23.03	39.86	32.57	24.66
1:45	37.60	25.17	23.07	35.80	29.72	22.29	40.81	31.88	25.28	43.99	24.51	24.59	33.68	25.85	23.05	39.90	32.67	24.67
1:46	37.62	25.23	23.08	35.85	29.80	22.30	40.84	31.97	25.30	44.02	24.57	24.61	33.72	25.91	23.06	39.95	32.75	24.68
1:47	37.65	25.30	23.08	35.89	29.87	22.32	40.88	32.06	25.31	44.08	24.62	24.62						

1:52	37.83	25.60	23.10	36.05	30.23	22.38	41.10	32.50	25.38	44.27	24.92	24.66	33.95	26.27	23.17	40.14	33.28	24.73
1:53	37.84	25.67	23.11	36.08	30.29	22.39	41.13	32.58	25.39	44.33	24.98	24.67	33.95	26.33	23.18	40.20	33.38	24.72
1:54	37.87	25.71	23.11	36.10	30.36	22.39	41.17	32.67	25.40	44.41	25.03	24.67	33.97	26.39	23.19	40.25	33.46	24.74
1:55	37.89	25.78	23.11	36.13	30.43	22.40	41.19	32.75	25.42	44.37	25.08	24.69	33.99	26.45	23.21	40.30	33.54	24.75
1:56	37.92	25.83	23.11	36.13	30.49	22.40	41.21	32.83	25.42	44.40	25.15	24.68	34.04	26.50	23.22	40.34	33.63	24.76
1:57	37.97	25.89	23.12	36.15	30.56	22.41	41.25	32.91	25.43	44.44	25.20	24.68	34.10	26.57	23.23	40.40	33.70	24.76
1:58	38.01	25.96	23.12	36.19	30.63	22.44	41.28	33.00	25.44	44.50	25.26	24.70	34.13	26.62	23.24	40.45	33.79	24.77
1:59	38.05	26.01	23.13	36.20	30.70	22.45	41.25	33.08	25.44	44.56	25.31	24.71	34.16	26.68	23.26	40.47	33.87	24.78
2:00	38.05	26.07	23.13	36.23	30.77	22.46	41.25	33.16	25.44	44.62	25.37	24.72	34.17	26.73	23.27	40.53	33.95	24.79
2:01	38.09	26.13	23.13	36.28	30.83	22.47	41.31	33.24	25.46	44.68	25.42	24.74	34.24	26.79	23.29	40.59	34.03	24.81
2:02	38.12	26.19	23.14	36.33	30.90	22.48	41.35	33.32	25.46	44.71	25.48	24.74	34.26	26.85	23.30	40.60	34.11	24.81
2:03	38.14	26.25	23.14	36.39	30.96	22.49	41.40	33.40	25.47	44.75	25.54	24.75	34.28	26.90	23.32	40.64	34.19	24.82
2:04	38.17	26.31	23.15	36.44	31.03	22.51	41.44	33.49	25.47	44.78	25.59	24.77	34.35	26.96	23.33	40.71	34.27	24.84
2:05	38.18	26.36	23.15	36.46	31.09	22.52	41.46	33.56	25.48	44.83	25.66	24.80	34.41	27.01	23.35	40.78	34.34	24.84
2:06	38.21	26.42	23.16	36.50	31.17	22.53	41.49	33.64	25.50	44.84	25.71	24.80	34.42	27.06	23.36	40.82	34.42	24.85
2:07	38.24	26.48	23.16	36.52	31.22	22.54	41.52	33.72	25.50	44.92	25.77	24.83	34.47	27.11	23.38	40.82	34.50	24.85
2:08	38.26	26.53	23.17	36.53	31.29	22.55	41.58	33.80	25.50	44.95	25.82	24.86	34.51	27.17	23.40	40.85	34.57	24.88
2:09	38.32	26.59	23.18	36.57	31.34	22.56	41.60	33.87	25.50	44.99	25.88	24.86	34.53	27.22	23.41	40.85	34.64	24.90
2:10	38.38	26.65	23.19	36.59	31.41	22.57	41.60	33.95	25.51	45.06	25.93	24.86	34.55	27.28	23.42	40.87	34.71	24.89
2:11	38.43	26.71	23.20	36.64	31.47	22.58	41.61	34.03	25.52	45.09	25.98	24.87	34.57	27.34	23.45	40.91	34.79	24.90
2:12	38.45	26.76	23.20	36.67	31.53	22.58	41.62	34.10	25.51	45.07	26.04	24.88	34.57	27.38	23.45	40.99	34.87	24.91
2:13	38.45	26.82	23.22	36.68	31.60	22.60	41.65	34.18	25.52	45.11	26.09	24.90	34.57	27.44	23.46	41.03	34.93	24.92
2:14	38.45	26.87	23.21	36.72	31.66	22.61	41.69	34.25	25.53	45.12	26.15	24.90	34.58	27.49	23.48	41.01	35.00	24.93
2:15	38.44	26.94	23.20	36.78	31.72	22.61	41.74	34.32	25.53	45.16	26.20	24.89	34.60	27.54	23.49	41.02	35.08	24.93
2:16	38.44	26.99	23.21	36.80	31.78	22.62	41.76	34.40	25.53	45.22	26.26	24.89	34.62	27.60	23.49	41.01	35.15	24.95
2:17	38.43	27.05	23.22	36.84	31.84	22.63	41.81	34.47	25.54	45.25	26.31	24.88	34.63	27.65	23.51	41.05	35.22	24.95
2:18	38.49	27.10	23.22	36.89	31.91	22.64	41.86	34.55	25.55	45.27	26.36	24.88	34.63	27.70	23.51	41.10	35.30	24.95
2:19	38.50	27.15	23.22	36.93	31.97	22.64	41.90	34.62	25.55	45.29	26.41	24.90	34.69	27.75	23.52	41.16	35.36	24.94
2:20	38.52	27.21	23.22	36.99	32.02	22.66	41.93	34.69	25.56	45.24	26.47	24.90	34.73	27.80	23.53	41.21	35.44	24.95
2:21	38.51	27.27	23.22	37.03	32.08	22.66	42.00	34.77	25.56	45.20	26.51	24.90	34.75	27.85	23.54	41.23	35.51	24.97
2:22	38.51	27.32	23.22	37.06	32.15	22.67	42.06	34.85	25.56	45.20	26.57	24.90	34.78	27.91	23.55	41.25	35.57	24.98
2:23	38.49	27.37	23.23	37.06	32.20	22.67	42.08	34.91	25.56	45.20	26.62	24.91	34.81	27.96	23.56	41.28	35.64	24.98
2:24	38.54	27.43	23.24	37.08	32.27	22.68	42.09	34.98	25.56	45.17	26.68	24.92	34.87	28.00	23.58	41.33	35.71	25.01
2:25	38.56	27.48	23.25	37.10	32.32	22.70	42.09	35.05	25.56	45.15	26.73	24.94	34.89	28.05	23.58	41.39	35.78	25.02
2:26	38.61	27.54	23.25	37.14	32.38	22.72	42.10	35.12	25.56	45.13	26.78	24.95	34.93	28.11	23.60	41.44	35.85	25.04
2:27	38.62	27.60	23.25	37.18	32.44	22.73	42.16	35.19	25.55	45.03	26.83	24.96	34.97	28.16	23.60	41.50	35.91	25.05
2:28	38.65	27.65	23.25	37.23	32.50	22.74	42.16	35.26	25.55	44.95	26.88	24.98	35.01	28.20	23.62	41.48	35.98	25.07
2:29	38.62	27.70	23.25	37.25	32.55	22.74	42.19	35.33	25.56	44.90	26.94	24.98	35.07	28.26	23.63	41.49	36.05	25.08
2:30	38.63	27.76	23.27	37.27	32.61	22.75	42.22	35.39	25.56	44.90	26.99	24.99	35.12	28.30	23.63	41.52	36.11	25.09
2:31	38.64	27.81	23.28	37.28	32.66	22.76	42.27	35.46	25.55	44.97	27.04	25.02	35.12	28.35	23.64	41.52	36.17	25.08
2:32	38.69	27.86	23.29	37.29	32.72	22.77	42.33	35.53	25.55	45.01	27.09	25.04	35.14	28.40	23.65	41.56	36.24	25.11
2:33	38.74	27.92	23.29	37.32	32.77	22.78	42.36	35.59	25.56	45.09	27.14	25.04	35.17	28.45	23.66	41.62	36.30	25.11
2:34	38.76	27.97	23.30	37.35	32.83	22.79	42.38	35.66	25.58	45.18	27.19	25.06	35.19	28.50	23.68	41.68	36.36	25.12
2:35	38.80	28.02	23.30	37.38	32.89	22.79	42.40	35.73	25.59	45.22	27.24	25.05	35.22	28.55	23.69	41.75	36.42	25.13
2:36	38.81	28.07	23.30	37.41	32.94	22.80	42.42	35.79	25.60	45.16	27.29	25.06	35.27	28.59	23.69	41.73	36.48	25.15
2:37	38.85	28.12	23.31	37.46	33.00	22.82	42.44	35.86	25.61	45.14	27.34	25.07	35.33	28.64	23.72	41.77	36.55	25.17
2:38	38.91	28.18	23.31	37.51	33.05	22.84	42.48	35.92	25.61	45.12	27.40	25.06	35.36	28.69	23.72	41.80	36.61	25.18
2:39	38.97	28.23	23.32	37.55	33.10	22.85	42.51	35.98	25.63	45.15	27.44	25.07	35.36	28.75	23.73	41.84	36.67	25.19
2:40	39.00	28.28	23.33	37.57	33.17	22.87	42.54	36.05	25.64	45.26	27.49	25.08	35.38	28.78	23.74	41.85	36.73	25.21
2:41	39.01	28.34	23.34	37.62	33.21	22.88	42.58	36.11	25.66	45.31	27.54	25.11	35.41	28.82	23.75	41.89	36.79	25.21
2:42	39.04	28.39	23.35	37.66	33.27	22.89	42.61	36.18	25.67	45.38	27.59	25.13	35.45	28.88	23.76	41.90	36.85	25.23
2:43	39.09	28.44	23.35	37.69	33.32	22.91	42.66	36.24	25.67	45.43	27.64	25.14	35.48	28.92	23.78	41.95	36.91	25.25
2:44	39.09	28.49	23.37	37.69	33.37	22.92	42.68	36.30	25.67	45.45	27.69	25.16	35.50	28.97	23.78	41.95	36.98	25.27
2:45	39.05	28.54	23.36	37.74	33.43	22.92	42.70	36.36	25.68	45.41	27.74	25.17	35.51	29.02	23.80	42.00	37.03	25.27
2:46	39.10	28.59	23.37	37.75	33.48	22.94	42.73	36.42	25.69	45.42	27.79	25.20	35.55	29.06	23.81	42.06	37.09	25.28
2:47	39.16	28.64	23.38	37.78	33.54	22.94	42.79	36.49	25.71	45.46	27.83	25.21	35.60	29.11	23.84	42.08	37.15	25.30
2:48	39.14	28.69	23.38	37.81	33.58	22.95	42.84	36.55	25.73	45.51	27.89	25.20	35.59	29.15	23.84	42.08	37.21	25.32
2:49	39.13	28.74	23.39	37.83	33.64	22.95	42.87	36.61	25.74	45.52	27.93	25.20	35.57	29.20	23.85	42.07	37.26	25.33
2:50	39.13	28.79	23.39	37.85	33.69	22.96	42.85	36.67	25.75	45.61	27.98	25.20	35.61	29.24	23.87	42.07	37.32	25.35
2:51	39.16	28.84	23.41	37.84	33.74	22.96	42.88	36.73	25.76	45.67	28.03	25.20	35.62	29.29	23.89	42.08	37.38	25.37
2:52	39.16	28.89	23.41	37.86	33.79	22.97	42.92	36.79	25.78	45.75	28.08	25.20	35.65	29.33	23.89	42.15	37.43	25.38
2:53	39.18	28.94	23.43	37.87	33.85	22.98	42.92	36.84	25.79	45.80	28.12	25.21	35.70	29.38	23.90	42.18	37.49	25.39
2:54	39.22	28.99	23.43	37.91	33.90	22.99	42.94	36.90	25.80	45.83	28.17	25.22	35.71	29.42	23.93	42.23	37.54	25.39
2:55	39.25	29.04	23.44	37.94	33.95	23.00	42.94	36.96	25.80	45.83	28.21	25.24						

3:00	39.34	29.28	23.46	38.08	34.20	23.06	43.02	37.24	25.85	45.97	28.45	25.29	35.85	29.68	23.98	42.44	37.86	25.45
3:01	39.37	29.34	23.46	38.13	34.25	23.07	43.08	37.30	25.86	45.97	28.50	25.29	35.88	29.72	23.99	42.51	37.92	25.45
3:02	39.41	29.38	23.46	38.18	34.30	23.07	43.09	37.36	25.87	46.00	28.55	25.30	35.92	29.76	24.01	42.57	37.97	25.45
3:03	39.44	29.43	23.46	38.20	34.35	23.09	43.11	37.41	25.88	45.99	28.59	25.30	35.96	29.80	24.01	42.55	38.02	25.46
3:04	39.49	29.48	23.46	38.25	34.40	23.09	43.13	37.47	25.89	46.01	28.63	25.31	35.97	29.85	24.02	42.56	38.08	25.49
3:05	39.49	29.52	23.45	38.28	34.44	23.11	43.15	37.53	25.89	46.07	28.68	25.33	35.99	29.89	24.03	42.58	38.13	25.50
3:06	39.50	29.58	23.46	38.31	34.48	23.11	43.16	37.58	25.91	46.07	28.72	25.33	36.04	29.93	24.05	42.60	38.18	25.50
3:07	39.56	29.63	23.45	38.32	34.53	23.12	43.18	37.63	25.93	46.12	28.77	25.32	36.08	29.97	24.05	42.61	38.23	25.50
3:08	39.61	29.67	23.46	38.33	34.58	23.13	43.17	37.69	25.94	46.20	28.81	25.34	36.10	30.02	24.07	42.60	38.28	25.50
3:09	39.61	29.72	23.46	38.34	34.63	23.14	43.19	37.75	25.96	46.22	28.87	25.34	36.11	30.06	24.07	42.60	38.34	25.51
3:10	39.64	29.76	23.46	38.35	34.67	23.14	43.20	37.80	25.98	46.22	28.90	25.35	36.11	30.10	24.08	42.65	38.39	25.50
3:11	39.66	29.81	23.46	38.37	34.71	23.16	43.24	37.85	25.98	46.25	28.95	25.37	36.11	30.14	24.10	42.69	38.44	25.51
3:12	39.69	29.86	23.46	38.40	34.76	23.16	43.29	37.90	25.98	46.32	28.99	25.37	36.13	30.17	24.11	42.65	38.49	25.53
3:13	39.72	29.91	23.44	38.42	34.80	23.16	43.35	37.95	25.99	46.37	29.03	25.37	36.17	30.22	24.12	42.64	38.53	25.53
3:14	39.76	29.95	23.43	38.42	34.85	23.17	43.39	38.00	26.02	46.44	29.08	25.36	36.17	30.25	24.13	42.60	38.59	25.53
3:15	39.76	29.99	23.43	38.43	34.89	23.18	43.42	38.05	26.03	46.52	29.12	25.38	36.20	30.29	24.13	42.56	38.64	25.52
3:16	39.78	30.04	23.43	38.43	34.94	23.18	43.44	38.10	26.03	46.54	29.17	25.39	36.24	30.34	24.15	42.63	38.69	25.52
3:17	39.78	30.08	23.43	38.44	34.98	23.19	43.47	38.16	26.06	46.50	29.21	25.39	36.26	30.38	24.15	42.70	38.74	25.52
3:18	39.79	30.13	23.42	38.47	35.03	23.18	43.49	38.21	26.06	46.46	29.25	25.37	36.28	30.42	24.16	42.72	38.79	25.50
3:19	39.81	30.18	23.43	38.48	35.07	23.17	43.49	38.26	26.07	46.51	29.30	25.36	36.29	30.45	24.16	42.72	38.84	25.52
3:20	39.82	30.22	23.42	38.50	35.11	23.18	43.49	38.30	26.08	46.54	29.34	25.36	36.32	30.49	24.18	42.73	38.89	25.52
3:21	39.85	30.26	23.42	38.51	35.15	23.20	43.52	38.35	26.09	46.52	29.38	25.37	36.34	30.53	24.18	42.79	38.94	25.51
3:22	39.86	30.31	23.41	38.52	35.19	23.19	43.55	38.40	26.10	46.53	29.42	25.37	36.38	30.58	24.19	42.79	38.98	25.52
3:23	39.90	30.36	23.40	38.56	35.24	23.21	43.58	38.45	26.11	46.55	29.47	25.38	36.41	30.61	24.20	42.73	39.02	25.53
3:24	39.93	30.40	23.40	38.61	35.28	23.21	43.62	38.50	26.13	46.57	29.51	25.37	36.42	30.65	24.20	42.72	39.07	25.54
3:25	39.97	30.44	23.39	38.64	35.32	23.21	43.63	38.55	26.13	46.62	29.55	25.38	36.45	30.69	24.21	42.73	39.12	25.53
3:26	40.00	30.49	23.39	38.65	35.37	23.23	43.64	38.60	26.13	46.67	29.60	25.38	36.49	30.73	24.22	42.74	39.16	25.54
3:27	40.04	30.53	23.39	38.68	35.42	23.23	43.63	38.65	26.13	46.71	29.64	25.39	36.52	30.76	24.24	42.72	39.21	25.55
3:28	40.07	30.57	23.38	38.69	35.45	23.23	43.65	38.69	26.15	46.71	29.67	25.41	36.52	30.80	24.24	42.74	39.26	25.55
3:29	40.09	30.61	23.37	38.73	35.49	23.24	43.69	38.74	26.14	46.72	29.72	25.41	36.55	30.84	24.25	42.73	39.30	25.57
3:30	40.14	30.66	23.38	38.75	35.54	23.25	43.71	38.78	26.16	46.69	29.76	25.41	36.57	30.88	24.26	42.77	39.35	25.56
3:31	40.18	30.70	23.38	38.75	35.58	23.26	43.71	38.83	26.17	46.68	29.80	25.43	36.61	30.91	24.27	42.81	39.39	25.57
3:32	40.19	30.74	23.38	38.77	35.62	23.25	43.69	38.88	26.16	46.67	29.84	25.44	36.64	30.95	24.28	42.87	39.43	25.57
3:33	40.18	30.79	23.38	38.79	35.66	23.26	43.69	38.92	26.15	46.66	29.88	25.46	36.65	30.99	24.29	42.87	39.48	25.57
3:34	40.21	30.83	23.39	38.80	35.70	23.26	43.66	38.97	26.16	46.68	29.92	25.46	36.66	31.03	24.29	42.84	39.52	25.57
3:35	40.21	30.87	23.37	38.84	35.74	23.26	43.63	39.01	26.16	46.73	29.96	25.47	36.67	31.06	24.29	42.84	39.57	25.58
3:36	40.21	30.91	23.38	38.86	35.78	23.27	43.62	39.07	26.16	46.75	30.00	25.48	36.71	31.10	24.31	42.86	39.61	25.58
3:37	40.22	30.96	23.36	38.86	35.82	23.28	43.59	39.11	26.15	46.70	30.04	25.49	36.75	31.13	24.31	42.86	39.65	25.58
3:38	40.24	31.01	23.36	38.89	35.86	23.30	43.62	39.15	26.15	46.65	30.08	25.49	36.74	31.17	24.32	42.90	39.69	25.59
3:39	40.24	31.04	23.36	38.92	35.90	23.29	43.67	39.19	26.16	46.70	30.12	25.50	36.72	31.21	24.32	42.94	39.73	25.60
3:40	40.26	31.09	23.35	38.94	35.95	23.29	43.69	39.24	26.17	46.64	30.16	25.49	36.72	31.25	24.33	42.96	39.77	25.59
3:41	40.31	31.12	23.35	38.95	35.98	23.30	43.69	39.28	26.17	46.58	30.20	25.48	36.72	31.28	24.34	43.00	39.82	25.58
3:42	40.32	31.17	23.34	38.95	36.02	23.32	43.66	39.33	26.16	46.46	30.23	25.48	36.79	31.32	24.33	42.99	39.86	25.59
3:43	40.31	31.20	23.33	38.95	36.06	23.33	43.70	39.37	26.15	46.46	30.28	25.49	36.84	31.35	24.34	43.04	39.90	25.59
3:44	40.32	31.24	23.33	38.96	36.10	23.35	43.73	39.41	26.15	46.46	30.30	25.49	36.86	31.39	24.34	43.09	39.95	25.58
3:45	40.34	31.28	23.32	38.98	36.14	23.38	43.76	39.46	26.16	46.52	30.35	25.47	36.87	31.43	24.34	43.09	39.98	25.58
3:46	40.38	31.33	23.32	39.00	36.18	23.38	43.79	39.50	26.17	46.55	30.39	25.46	36.88	31.46	24.35	43.08	40.02	25.58
3:47	40.41	31.37	23.31	39.01	36.21	23.39	43.79	39.55	26.17	46.56	30.42	25.46	36.92	31.49	24.36	43.16	40.05	25.59
3:48	40.40	31.41	23.32	39.03	36.26	23.39	43.80	39.59	26.17	46.55	30.46	25.45	36.96	31.53	24.35	43.22	40.09	25.59
3:49	40.40	31.44	23.31	39.05	36.29	23.40	43.82	39.63	26.16	46.54	30.50	25.46	37.00	31.56	24.36	43.25	40.13	25.58
3:50	40.40	31.49	23.31	39.08	36.32	23.41	43.80	39.68	26.17	46.55	30.54	25.47	37.03	31.60	24.37	43.24	40.18	25.59
3:51	40.39	31.52	23.31	39.11	36.36	23.43	43.81	39.72	26.16	46.54	30.58	25.49	37.03	31.63	24.37	43.23	40.21	25.58
3:52	40.39	31.56	23.31	39.11	36.40	23.44	43.85	39.76	26.16	46.63	30.61	25.49	37.04	31.66	24.37	43.26	40.25	25.59
3:53	40.41	31.60	23.31	39.12	36.44	23.44	43.88	39.81	26.17	46.70	30.65	25.50	37.07	31.70	24.37	43.25	40.29	25.59
3:54	40.43	31.64	23.31	39.16	36.48	23.45	43.90	39.85	26.15	46.74	30.69	25.49	37.08	31.74	24.38	43.21	40.32	25.61
3:55	40.46	31.68	23.32	39.18	36.51	23.45	43.90	39.88	26.14	46.74	30.72	25.49	37.09	31.76	24.38	43.16	40.36	25.63
3:56	40.48	31.73	23.31	39.21	36.56	23.45	43.90	39.94	26.14	46.78	30.76	25.50	37.10	31.80	24.39	43.25	40.40	25.62
3:57	40.49	31.76	23.31	39.25	36.59	23.46	43.91	39.98	26.15	46.79	30.79	25.50	37.12	31.84	24.40	43.32	40.44	25.62
3:58	40.52	31.80	23.30	39.29	36.62	23.47	43.92	40.01	26.14	46.81	30.83	25.50	37.13	31.87	24.40	43.32	40.48	25.62
3:59	40.59	31.84	23.29	39.29	36.66	23.47	43.94	40.06	26.14	46.85	30.87	25.50	37.16	31.90	24.42	43.37	40.52	25.64
4:00	40.65	31.88	23.30	39.31	36.70	23.47	43.96	40.11	26.14	46.91	30.90	25.50	37.17	31.94	24.40	43.43	40.56	25.64
4:01	40.67	31.92	23.30	39.33	36.73	23.49	43.97	40.15	26.15	46.94	30.94	25.50	37.19	31.97	24.42	43.46	40.60	25.64
4:02	40.69	31.95	23.31	39.35	36.77	23.49	43.98	40.18	26.16	46.89	30.98	25.50	37.20	32.00	24.42	43.43	40.63	25.64
4:03	40.69	31.99	23.29	39.33	36.81	23.49	43.99	40.23	26.16	46.86	31.01	25.50						

4:08	40.86	32.18	23.30	39.40	36.99	23.53	44.08	40.43	26.18	46.93	31.19	25.50	37.25	32.20	24.45	43.46	40.86	25.62
4:09	40.92	32.21	23.29	39.42	37.02	23.55	44.08	40.47	26.19	46.92	31.21	25.50	37.26	32.24	24.46	43.50	40.89	25.64
4:10	40.95	32.25	23.29	39.43	37.06	23.56	44.08	40.51	26.19	46.91	31.26	25.51	37.24	32.27	24.46	43.50	40.93	25.62
4:11	40.92	32.29	23.29	39.45	37.09	23.56	44.05	40.55	26.19	46.93	31.29	25.53	37.26	32.30	24.47	43.49	40.96	25.63
4:12	40.97	32.32	23.30	39.47	37.12	23.58	44.05	40.59	26.20	46.86	31.33	25.52	37.25	32.33	24.48	43.53	41.00	25.64
4:13	41.03	32.37	23.30	39.48	37.16	23.59	44.09	40.63	26.21	46.91	31.36	25.52	37.25	32.36	24.49	43.58	41.03	25.64
4:14	41.02	32.39	23.31	39.49	37.19	23.60	44.09	40.66	26.20	46.92	31.39	25.53	37.23	32.40	24.49	43.56	41.07	25.64
4:15	41.05	32.43	23.30	39.52	37.22	23.61	44.12	40.70	26.20	46.93	31.42	25.56	37.25	32.42	24.50	43.58	41.10	25.64
4:16	41.07	32.47	23.30	39.56	37.26	23.62	44.12	40.74	26.20	46.91	31.46	25.57	37.26	32.45	24.50	43.59	41.13	25.65
4:17	41.04	32.51	23.31	39.60	37.30	23.64	44.18	40.78	26.22	46.96	31.49	25.60	37.30	32.49	24.51	43.62	41.16	25.65
4:18	41.07	32.54	23.31	39.62	37.33	23.65	44.22	40.82	26.24	47.03	31.52	25.62	37.33	32.51	24.52	43.61	41.20	25.65
4:19	41.09	32.58	23.31	39.64	37.36	23.65	44.23	40.86	26.25	47.06	31.55	25.61	37.37	32.55	24.53	43.59	41.23	25.65
4:20	41.09	32.62	23.31	39.65	37.39	23.67	44.27	40.90	26.28	47.11	31.59	25.61	37.39	32.58	24.53	43.63	41.26	25.67
4:21	41.09	32.64	23.31	39.67	37.43	23.68	44.30	40.94	26.31	47.15	31.62	25.61	37.43	32.61	24.53	43.62	41.29	25.67
4:22	41.07	32.68	23.30	39.68	37.46	23.68	44.30	40.97	26.33	47.20	31.66	25.61	37.44	32.65	24.55	43.69	41.33	25.68
4:23	41.05	32.72	23.31	39.72	37.49	23.67	44.33	41.02	26.33	47.22	31.69	25.61	37.46	32.67	24.55	43.70	41.36	25.69
4:24	41.06	32.75	23.31	39.71	37.53	23.67	44.37	41.06	26.33	47.13	31.73	25.60	37.45	32.70	24.58	43.72	41.39	25.68
4:25	41.05	32.79	23.32	39.73	37.56	23.68	44.39	41.09	26.33	47.14	31.76	25.61	37.46	32.73	24.58	43.71	41.42	25.69
4:26	41.05	32.82	23.32	39.75	37.59	23.67	44.41	41.13	26.33	47.21	31.79	25.62	37.47	32.77	24.59	43.74	41.46	25.70
4:27	41.08	32.86	23.32	39.78	37.62	23.67	44.41	41.17	26.34	47.22	31.82	25.61	37.50	32.80	24.60	43.79	41.49	25.70
4:28	41.10	32.89	23.33	39.77	37.66	23.68	44.44	41.21	26.34	47.25	31.85	25.60	37.51	32.82	24.61	43.77	41.52	25.69
4:29	41.12	32.92	23.34	39.79	37.68	23.67	44.44	41.24	26.34	47.29	31.89	25.60	37.56	32.85	24.62	43.78	41.55	25.70
4:30	41.11	32.96	23.33	39.80	37.72	23.66	44.47	41.28	26.35	47.28	31.92	25.60	37.59	32.89	24.61	43.80	41.58	25.70
4:31	41.09	33.00	23.34	39.83	37.74	23.66	44.52	41.31	26.35	47.30	31.95	25.60	37.59	32.91	24.62	43.78	41.62	25.72
4:32	41.11	33.03	23.34	39.86	37.78	23.66	44.53	41.35	26.36	47.37	31.98	25.62	37.64	32.95	24.63	43.82	41.65	25.73
4:33	41.10	33.06	23.33	39.85	37.81	23.67	44.48	41.39	26.36	47.33	32.01	25.63	37.68	32.97	24.64	43.87	41.68	25.72
4:34	41.13	33.10	23.34	39.86	37.84	23.66	44.49	41.42	26.36	47.34	32.04	25.64	37.69	33.00	24.65	43.84	41.72	25.72
4:35	41.14	33.13	23.34	39.89	37.88	23.66	44.49	41.45	26.37	47.39	32.07	25.64	37.70	33.03	24.65	43.87	41.75	25.73
4:36	41.17	33.16	23.35	39.91	37.90	23.68	44.51	41.50	26.37	47.37	32.10	25.64	37.71	33.06	24.66	43.91	41.78	25.73
4:37	41.20	33.20	23.35	39.93	37.94	23.68	44.56	41.52	26.36	47.37	32.14	25.63	37.75	33.09	24.66	43.95	41.81	25.74
4:38	41.21	33.23	23.35	39.92	37.97	23.68	44.58	41.57	26.37	47.41	32.17	25.61	37.76	33.13	24.68	43.94	41.85	25.74
4:39	41.22	33.26	23.34	39.94	38.00	23.69	44.60	41.60	26.37	47.44	32.20	25.62	37.77	33.15	24.69	43.97	41.87	25.74
4:40	41.23	33.30	23.35	39.95	38.03	23.70	44.61	41.64	26.37	47.44	32.23	25.62	37.79	33.18	24.69	43.97	41.91	25.75
4:41	41.23	33.33	23.35	39.97	38.06	23.72	44.63	41.67	26.37	47.48	32.26	25.64	37.81	33.21	24.70	44.01	41.94	25.76
4:42	41.23	33.37	23.35	39.95	38.09	23.72	44.62	41.71	26.37	47.47	32.29	25.66	37.82	33.23	24.70	44.06	41.97	25.78
4:43	41.21	33.40	23.36	39.98	38.13	23.73	44.64	41.74	26.38	47.41	32.32	25.68	37.84	33.26	24.71	44.03	42.00	25.78
4:44	41.24	33.43	23.36	40.02	38.15	23.73	44.69	41.78	26.37	47.45	32.35	25.67	37.86	33.29	24.72	44.02	42.03	25.77
4:45	41.22	33.46	23.37	40.02	38.18	23.72	44.70	41.81	26.38	47.45	32.39	25.66	37.88	33.32	24.73	44.03	42.06	25.78
4:46	41.22	33.50	23.37	40.01	38.22	23.71	44.63	41.85	26.38	47.40	32.41	25.63	37.90	33.35	24.73	44.01	42.09	25.77
4:47	41.22	33.53	23.38	39.98	38.24	23.71	44.56	41.88	26.38	47.27	32.44	25.63	37.95	33.38	24.73	44.03	42.12	25.73
4:48	41.22	33.55	23.38	39.99	38.27	23.72	44.55	41.92	26.41	47.26	32.47	25.65	38.01	33.41	24.73	44.06	42.15	25.72
4:49	41.28	33.59	23.39	40.00	38.29	23.73	44.56	41.95	26.42	47.28	32.50	25.67	37.98	33.44	24.73	44.08	42.18	25.74
4:50	41.32	33.62	23.38	40.01	38.32	23.74	44.57	41.98	26.44	47.34	32.53	25.67	37.99	33.46	24.73	44.15	42.22	25.76
4:51	41.31	33.66	23.38	40.03	38.36	23.74	44.57	42.02	26.47	47.34	32.56	25.69	38.01	33.49	24.74	44.16	42.24	25.76
4:52	41.29	33.69	23.39	40.04	38.39	23.76	44.60	42.05	26.47	47.41	32.58	25.71	38.03	33.52	24.75	44.20	42.27	25.76
4:53	41.31	33.72	23.40	40.10	38.42	23.78	44.61	42.09	26.48	47.40	32.62	25.72	38.03	33.55	24.75	44.20	42.30	25.79
4:54	41.33	33.75	23.38	40.11	38.45	23.79	44.59	42.12	26.49	47.48	32.65	25.74	38.05	33.58	24.76	44.22	42.33	25.78
4:55	41.35	33.78	23.38	40.15	38.48	23.80	44.60	42.16	26.48	47.52	32.67	25.75	38.04	33.60	24.77	44.18	42.36	25.80
4:56	41.37	33.82	23.38	40.15	38.51	23.80	44.62	42.19	26.48	47.51	32.70	25.73	38.00	33.63	24.78	44.19	42.39	25.80
4:57	41.39	33.84	23.38	40.17	38.53	23.81	44.69	42.22	26.47	47.49	32.74	25.74	38.00	33.66	24.79	44.23	42.42	25.81
4:58	41.39	33.88	23.38	40.17	38.56	23.82	44.67	42.26	26.48	47.47	32.76	25.75	38.01	33.69	24.80	44.24	42.45	25.80
4:59	41.43	33.91	23.38	40.19	38.59	23.83	44.66	42.29	26.49	47.52	32.78	25.76	38.03	33.71	24.81	44.25	42.48	25.82
5:00	41.41	33.94	23.39	40.21	38.63	23.86	44.66	42.32	26.48	47.58	32.82	25.76	38.07	33.74	24.81	44.25	42.51	25.84
5:01	41.43	33.97	23.38	40.23	38.65	23.88	44.66	42.35	26.48	47.56	32.85	25.75	38.09	33.77	24.82	44.25	42.54	25.85
5:02	41.46	34.00	23.38	40.24	38.68	23.89	44.68	42.39	26.48	47.59	32.87	25.77	38.09	33.80	24.82	44.26	42.57	25.85
5:03	40.55	34.03	23.38	40.00	38.70	23.91	44.28	42.42	26.45	47.12	32.90	25.73	37.76	33.83	24.82	43.67	42.59	25.83
5:04	37.26	34.06	23.34	37.95	38.72	23.90	41.36	42.45	26.38	44.01	32.93	25.71	35.37	33.85	24.79	40.44	42.62	25.77
5:05	34.36	34.09	23.31	35.75	38.65	23.87	38.30	42.48	26.50	40.80	32.96	26.06	33.33	33.87	24.75	37.35	42.64	25.79
5:06	32.25	34.13	23.32	34.07	38.49	23.85	35.82	42.50	26.58	38.29	32.98	26.65	32.01	33.90	24.69	34.86	42.62	25.85
5:07	30.58	34.15	23.41	32.88	38.25	23.83	33.83	42.46	26.61	36.48	33.01	27.04	31.14	33.92	24.61	33.00	42.54	25.89
5:08	29.34	34.19	23.49	31.98	37.97	23.84	32.39	42.36	26.60	35.00	33.04	27.26	30.43	33.93	24.51	31.45	42.35	26.01
5:09	28.28	34.23	23.52	31.28	37.67	23.91	31.36	42.20	26.57	33.69	33.06	27.29	30.00	33.93	24.42	30.29	42.11	26.23
5:10	27.52	34.29	23.54	30.72	37.36	23.99	30.49	41.98	26.49	32.58	33.09	27.18	29.59	33.92	24.31	29.52	41.79	26.46
5:11	26.92	34.35	23.66	30.28	37.05	24.03	29.75	41.71	26.43	31.58	33.12	27.02						

5:16	24.99	34.62	24.17	28.81	35.62	24.11	27.62	40.06	26.13	28.62	33.38	25.80	27.67	33.72	23.75	26.72	39.37	26.86
5:17	24.76	34.65	24.21	28.64	35.37	24.05	27.35	39.71	26.11	28.22	33.43	25.62	27.45	33.67	23.67	26.41	38.94	26.88
5:18	24.60	34.67	24.24	28.50	35.13	24.00	27.11	39.37	26.05	27.90	33.47	25.48	27.36	33.62	23.59	26.08	38.53	26.86
5:19	24.47	34.68	24.25	28.38	34.90	23.93	26.88	39.03	26.01	27.69	33.50	25.33	27.33	33.56	23.53	25.76	38.13	26.84
5:20	24.32	34.67	24.26	28.20	34.67	23.87	26.68	38.68	25.96	27.48	33.51	25.22	27.29	33.48	23.48	25.40	37.73	26.86
5:21	24.19	34.66	24.27	28.03	34.46	23.81	26.44	38.36	25.88	27.29	33.51	25.10	27.20	33.41	23.41	25.18	37.34	26.88
5:22	24.07	34.64	24.29	27.87	34.25	23.75	26.28	38.03	25.80	27.08	33.51	25.01	27.11	33.34	23.35	25.11	36.97	26.89
5:23	23.97	34.61	24.32	27.74	34.05	23.68	26.10	37.70	25.74	26.89	33.50	24.96	26.99	33.26	23.31	24.93	36.60	26.90
5:24	23.93	34.57	24.34	27.60	33.86	23.60	25.97	37.38	25.72	26.73	33.47	24.92	26.91	33.18	23.25	24.74	36.25	26.88
5:25	23.86	34.51	24.36	27.51	33.67	23.54	25.90	37.08	25.67	26.56	33.45	24.88	26.73	33.10	23.19	24.60	35.90	26.87
5:26	23.82	34.46	24.34	27.41	33.49	23.46	25.80	36.78	25.62	26.43	33.42	24.82	26.63	33.03	23.14	24.46	35.56	26.90
5:27	23.86	34.39	24.33	27.38	33.32	23.40	25.71	36.49	25.60	26.29	33.37	24.79	26.51	32.94	23.10	24.30	35.23	26.94
5:28	23.87	34.32	24.32	27.36	33.16	23.34	25.60	36.19	25.51	26.09	33.32	24.81	26.34	32.86	23.05	24.15	34.90	27.01
5:29	23.87	34.24	24.34	27.24	32.99	23.28	25.45	35.92	25.53	25.99	33.27	24.81	26.31	32.77	23.00	24.07	34.58	27.01
5:30	23.83	34.16	24.35	27.17	32.84	23.22	25.41	35.65	25.45	25.92	33.21	24.78	26.31	32.69	22.95	23.98	34.27	27.05
5:31	23.75	34.07	24.34	27.07	32.69	23.17	25.34	35.37	25.44	25.90	33.15	24.74	26.28	32.61	22.91	23.94	33.97	27.10
5:32	23.69	33.98	24.35	27.04	32.55	23.12	25.29	35.12	25.45	25.83	33.08	24.71	26.29	32.52	22.86	23.94	33.67	27.14
5:33	23.65	33.89	24.36	27.03	32.40	23.07	25.22	34.87	25.37	25.78	33.01	24.69	26.19	32.43	22.82	23.89	33.39	27.13
5:34	23.65	33.80	24.37	27.01	32.27	23.01	25.16	34.63	25.40	25.69	32.94	24.68	26.16	32.35	22.79	23.86	33.13	27.12
5:35	23.64	33.70	24.38	26.88	32.14	22.96	25.12	34.38	25.33	25.62	32.87	24.68	26.07	32.26	22.75	23.81	32.86	27.12
5:36	23.60	33.60	24.40	26.82	32.01	22.92	25.11	34.15	25.34	25.59	32.79	24.67	26.02	32.17	22.73	23.72	32.61	27.12
5:37	23.60	33.49	24.40	26.79	31.89	22.87	25.03	33.93	25.30	25.51	32.72	24.68	25.95	32.09	22.69	23.66	32.37	27.14
5:38	23.59	33.39	24.42	26.76	31.77	22.82	24.94	33.70	25.34	25.43	32.64	24.67	25.94	32.00	22.67	23.64	32.12	27.18
5:39	23.55	33.28	24.43	26.68	31.65	22.79	24.83	33.48	25.42	25.35	32.55	24.64	25.92	31.91	22.64	23.61	31.90	27.21
5:40	23.54	33.17	24.43	26.59	31.54	22.74	24.82	33.28	25.45	25.27	32.47	24.62	25.86	31.83	22.62	23.57	31.66	27.20
5:41	23.56	33.06	24.43	26.52	31.43	22.70	24.80	33.08	25.51	25.19	32.38	24.58	25.81	31.75	22.58	23.53	31.45	27.23
5:42	23.50	32.95	24.42	26.47	31.32	22.65	24.75	32.88	25.47	25.12	32.30	24.57	25.78	31.66	22.56	23.49	31.24	27.21
5:43	23.46	32.84	24.42	26.45	31.21	22.62	24.69	32.67	25.47	25.12	32.21	24.55	25.72	31.58	22.53	23.46	31.03	27.27
5:44	23.43	32.73	24.44	26.40	31.10	22.59	24.62	32.49	25.49	25.06	32.13	24.56	25.66	31.50	22.51	23.40	30.82	27.25
5:45	23.37	32.62	24.44	26.35	31.01	22.55	24.62	32.31	25.50	25.01	32.04	24.55	25.65	31.42	22.48	23.38	30.63	27.25
5:46	23.37	32.51	24.45	26.27	30.90	22.51	24.61	32.13	25.45	24.97	31.95	24.54	25.64	31.35	22.44	23.35	30.45	27.24
5:47	23.34	32.40	24.46	26.24	30.80	22.48	24.59	31.95	25.44	24.94	31.87	24.51	25.61	31.26	22.42	23.30	30.26	27.27
5:48	23.36	32.29	24.46	26.19	30.70	22.44	24.47	31.78	25.43	24.89	31.79	24.50	25.49	31.19	22.39	23.24	30.08	27.28
5:49	23.34	32.18	24.45	26.14	30.60	22.40	24.44	31.60	25.44	24.86	31.70	24.50	25.44	31.11	22.36	23.24	29.91	27.32
5:50	23.41	32.07	24.44	26.10	30.50	22.37	24.40	31.44	25.41	24.81	31.61	24.49	25.37	31.03	22.33	23.18	29.73	27.31
5:51	23.38	31.96	24.44	26.08	30.41	22.35	24.34	31.28	25.33	24.75	31.53	24.49	25.35	30.95	22.30	23.15	29.56	27.28
5:52	23.35	31.86	24.43	26.05	30.32	22.31	24.25	31.12	25.30	24.68	31.44	24.49	25.34	30.87	22.28	23.14	29.41	27.33
5:53	23.30	31.75	24.45	25.98	30.23	22.29	24.18	30.97	25.32	24.67	31.35	24.50	25.28	30.80	22.25	23.10	29.24	27.35
5:54	23.26	31.64	24.48	25.89	30.14	22.28	24.16	30.83	25.32	24.68	31.27	24.51	25.25	30.72	22.24	23.11	29.08	27.37
5:55	23.30	31.53	24.50	25.88	30.06	22.25	24.13	30.68	25.33	24.64	31.19	24.51	25.25	30.65	22.22	23.09	28.93	27.37
5:56	23.27	31.43	24.51	25.85	29.97	22.23	24.09	30.52	25.33	24.59	31.11	24.52	25.21	30.57	22.20	23.04	28.78	27.35
5:57	23.22	31.33	24.52	25.79	29.89	22.21	24.04	30.39	25.31	24.57	31.02	24.51	25.15	30.49	22.18	23.00	28.64	27.29
5:58	23.16	31.23	24.52	25.78	29.80	22.19	23.99	30.24	25.26	24.54	30.94	24.52	25.09	30.42	22.17	22.98	28.50	27.22
5:59	23.17	31.12	24.53	25.77	29.72	22.17	23.92	30.11	25.27	24.51	30.86	24.51	25.04	30.35	22.15	22.99	28.37	27.25
6:00	23.18	31.02	24.52	25.74	29.64	22.15	23.89	29.97	25.25	24.49	30.77	24.49	25.05	30.27	22.13	22.92	28.24	27.25
6:01	23.16	30.91	24.51	25.67	29.56	22.13	23.88	29.83	25.27	24.46	30.69	24.48	25.04	30.20	22.12	22.88	28.10	27.25
6:02	23.15	30.80	24.52	25.63	29.48	22.10	23.78	29.70	25.28	24.38	30.61	24.47	24.92	30.13	22.09	22.86	27.99	27.21
6:03	23.14	30.70	24.52	25.59	29.40	22.11	23.73	29.57	25.24	24.33	30.54	24.45	24.80	30.06	22.09	22.85	27.86	27.19
6:04	23.13	30.60	24.55	25.60	29.33	22.10	23.71	29.45	25.37	24.26	30.46	24.49	24.77	29.99	22.08	22.81	27.75	27.27
6:05	23.05	30.51	24.54	25.63	29.25	22.08	23.67	29.36	25.50	24.24	30.39	24.57	24.72	29.93	22.06	22.80	27.67	27.30
6:06	23.02	30.44	24.49	25.73	29.19	22.08	23.69	29.28	25.54	24.26	30.32	24.57	24.74	29.87	22.05	22.80	27.59	27.17
6:07	23.04	30.37	24.40	25.83	29.14	22.06	23.71	29.21	25.49	24.27	30.27	24.48	24.69	29.82	22.04	22.81	27.54	26.94
6:08	23.02	30.30	24.29	25.94	29.10	22.05	23.73	29.15	25.38	24.23	30.20	24.34	24.69	29.76	22.02	22.87	27.50	26.63
6:09	23.07	30.24	24.17	26.03	29.06	22.04	23.74	29.09	25.24	24.27	30.15	24.14	24.76	29.70	22.02	22.97	27.47	26.31
6:10	23.16	30.20	24.06	26.11	29.02	22.03	23.75	29.03	25.04	24.28	30.09	23.95	24.78	29.63	22.01	23.06	27.44	25.97
6:11	23.21	30.13	23.91	26.11	28.97	22.01	23.79	28.98	24.85	24.31	30.04	23.74	24.77	29.57	21.99	23.16	27.41	25.65
6:12	23.28	30.07	23.74	26.15	28.94	22.00	23.82	28.93	24.65	24.33	30.00	23.54	24.78	29.50	21.97	23.24	27.37	25.33
6:13	23.36	30.03	23.60	26.20	28.90	22.00	23.87	28.89	24.47	24.36	29.95	23.37	24.78	29.45	21.96	23.31	27.35	25.04
6:14	23.41	29.98	23.44	26.23	28.85	21.97	23.89	28.85	24.28	24.41	29.91	23.18	24.83	29.38	21.95	23.40	27.33	24.77
6:15	23.46	29.93	23.32	26.26	28.81	21.96	23.93	28.79	24.10	24.42	29.86	23.00	24.83	29.33	21.94	23.42	27.30	24.52
6:16	23.52	29.88	23.19	26.30	28.77	21.94	23.96	28.74	23.93	24.43	29.81	22.84	24.84	29.27	21.92	23.44	27.28	24.30
6:17	23.56	29.83	23.06	26.33	28.72	21.92	23.98	28.70	23.79	24.41	29.76	22.67	24.82	29.21	21.91	23.45	27.25	24.09
6:18	23.61	29.77	22.95	26.30	28.69	21.91	24.00	28.65	23.65	24.42	29.71	22.52	24.81	29.16	21.90	23.45	27.24	23.90
6:19	23.67	29.73	22.83	26.31	28.65	21.88	24.03	28.61	23.51	24.46	29.67	22.36						

6:24	23.70	29.50	22.35	26.26	28.43	21.80	23.94	28.40	22.95	24.56	29.46	21.83	24.79	28.84	21.83	23.56	27.09	23.11
6:25	23.72	29.46	22.28	26.24	28.40	21.77	23.95	28.37	22.86	24.59	29.42	21.74	24.82	28.80	21.80	23.54	27.07	23.02
6:26	23.74	29.41	22.21	26.23	28.35	21.75	23.96	28.33	22.77	24.61	29.38	21.65	24.83	28.75	21.80	23.56	27.05	22.94
6:27	23.78	29.37	22.14	26.21	28.31	21.73	23.97	28.29	22.68	24.59	29.35	21.58	24.77	28.71	21.78	23.58	27.02	22.85
6:28	23.83	29.33	22.07	26.20	28.27	21.71	23.97	28.25	22.59	24.59	29.30	21.49	24.74	28.65	21.76	23.58	26.99	22.78
6:29	23.85	29.30	22.00	26.19	28.23	21.68	23.98	28.21	22.51	24.61	29.27	21.42	24.75	28.60	21.76	23.59	26.97	22.69
6:30	23.88	29.25	21.95	26.17	28.18	21.66	23.98	28.17	22.44	24.63	29.23	21.35	24.74	28.55	21.74	23.60	26.95	22.61
6:31	23.89	29.21	21.90	26.13	28.14	21.64	23.98	28.13	22.38	24.58	29.19	21.28	24.67	28.51	21.73	23.56	26.92	22.52
6:32	23.90	29.17	21.83	26.09	28.10	21.62	23.98	28.09	22.30	24.60	29.16	21.23	24.63	28.48	21.71	23.54	26.89	22.45
6:33	23.89	29.14	21.78	26.06	28.06	21.59	23.99	28.06	22.25	24.60	29.12	21.17	24.61	28.43	21.69	23.55	26.88	22.38
6:34	23.92	29.09	21.74	26.04	28.02	21.57	23.99	28.02	22.21	24.66	29.08	21.13	24.59	28.38	21.70	23.58	26.85	22.31
6:35	23.92	29.06	21.69	26.01	27.99	21.57	23.99	27.98	22.16	24.63	29.06	21.08	24.56	28.34	21.67	23.54	26.83	22.24
6:36	23.89	29.02	21.64	25.97	27.94	21.55	23.97	27.95	22.10	24.61	29.01	21.04	24.55	28.29	21.67	23.55	26.81	22.18
6:37	23.86	28.99	21.60	25.92	27.91	21.53	23.93	27.92	22.04	24.60	28.98	21.00	24.50	28.26	21.65	23.56	26.78	22.13
6:38	23.84	28.95	21.56	25.89	27.87	21.51	23.91	27.88	21.99	24.60	28.95	20.95	24.48	28.22	21.63	23.58	26.76	22.08
6:39	23.88	28.92	21.52	25.85	27.83	21.50	23.92	27.85	21.94	24.63	28.91	20.93	24.49	28.17	21.62	23.57	26.74	22.03
6:40	23.86	28.88	21.48	25.79	27.79	21.50	23.89	27.81	21.90	24.66	28.88	20.90	24.46	28.14	21.61	23.56	26.71	21.98
6:41	23.84	28.84	21.44	25.76	27.76	21.49	23.90	27.78	21.85	24.66	28.85	20.87	24.44	28.10	21.60	23.57	26.69	21.94
6:42	23.85	28.81	21.41	25.75	27.72	21.46	23.87	27.75	21.81	24.68	28.81	20.83	24.42	28.06	21.58	23.57	26.68	21.89
6:43	23.85	28.78	21.37	25.72	27.69	21.46	23.87	27.71	21.76	24.67	28.78	20.80	24.37	28.03	21.58	23.57	26.65	21.85
6:44	23.87	28.74	21.34	25.70	27.64	21.44	23.87	27.68	21.72	24.66	28.75	20.78	24.37	27.99	21.56	23.56	26.63	21.81
6:45	23.87	28.71	21.30	25.67	27.61	21.43	23.83	27.65	21.70	24.69	28.72	20.75	24.38	27.95	21.54	23.55	26.61	21.76
6:46	23.88	28.68	21.26	25.65	27.57	21.42	23.84	27.61	21.64	24.70	28.69	20.73	24.40	27.92	21.52	23.54	26.58	21.74
6:47	23.90	28.64	21.23	25.63	27.53	21.40	23.84	27.59	21.59	24.69	28.66	20.71	24.38	27.88	21.53	23.55	26.57	21.70
6:48	23.94	28.61	21.19	25.62	27.50	21.40	23.83	27.54	21.55	24.68	28.63	20.70	24.35	27.84	21.51	23.52	26.54	21.66
6:49	23.95	28.58	21.17	25.62	27.47	21.37	23.81	27.52	21.54	24.70	28.60	20.68	24.35	27.82	21.50	23.53	26.52	21.63
6:50	23.94	28.55	21.14	25.59	27.44	21.36	23.83	27.49	21.51	24.72	28.57	20.65	24.36	27.78	21.48	23.54	26.50	21.59
6:51	23.96	28.51	21.12	25.58	27.40	21.35	23.84	27.47	21.47	24.77	28.54	20.63	24.38	27.75	21.47	23.54	26.48	21.56
6:52	23.97	28.48	21.09	25.55	27.37	21.34	23.85	27.43	21.44	24.77	28.51	20.60	24.37	27.71	21.46	23.53	26.46	21.54
6:53	23.92	28.45	21.07	25.51	27.34	21.32	23.82	27.41	21.40	24.72	28.48	20.59	24.33	27.69	21.44	23.52	26.44	21.52
6:54	23.89	28.42	21.07	25.48	27.30	21.31	23.79	27.37	21.38	24.72	28.45	20.58	24.30	27.66	21.44	23.50	26.42	21.50
6:55	23.88	28.39	21.05	25.47	27.28	21.28	23.81	27.34	21.35	24.74	28.42	20.56	24.29	27.62	21.43	23.48	26.40	21.48
6:56	23.88	28.37	21.04	25.46	27.25	21.27	23.83	27.32	21.32	24.75	28.39	20.54	24.27	27.60	21.42	23.48	26.38	21.46
6:57	23.91	28.33	21.01	25.43	27.22	21.24	23.84	27.29	21.30	24.76	28.37	20.53	24.27	27.58	21.40	23.46	26.36	21.43
6:58	23.89	28.31	21.00	25.40	27.18	21.24	23.84	27.27	21.26	24.81	28.34	20.52	24.28	27.54	21.39	23.48	26.34	21.41
6:59	23.89	28.28	20.98	25.38	27.15	21.23	23.82	27.25	21.25	24.82	28.32	20.50	24.29	27.52	21.38	23.48	26.32	21.39
7:00	23.90	28.24	20.98	25.35	27.12	21.22	23.81	27.21	21.23	24.75	28.29	20.48	24.27	27.48	21.37	23.47	26.29	21.37
7:01	23.89	28.21	20.96	25.31	27.09	21.20	23.80	27.18	21.20	24.73	28.26	20.49	24.23	27.46	21.36	23.44	26.29	21.35
7:02	23.91	28.18	20.95	25.27	27.06	21.20	23.82	27.15	21.18	24.75	28.23	20.48	24.23	27.43	21.35	23.43	26.26	21.32
7:03	23.91	28.15	20.94	25.24	27.02	21.18	23.82	27.13	21.15	24.72	28.21	20.46	24.23	27.40	21.34	23.42	26.24	21.30
7:04	23.91	28.13	20.93	25.21	27.00	21.17	23.83	27.11	21.13	24.72	28.18	20.45	24.22	27.38	21.34	23.41	26.22	21.29
7:05	23.91	28.10	20.91	25.18	26.97	21.15	23.83	27.07	21.11	24.73	28.15	20.43	24.22	27.35	21.32	23.41	26.20	21.26
7:06	23.92	28.07	20.91	25.14	26.94	21.15	23.81	27.05	21.09	24.69	28.13	20.43	24.20	27.32	21.31	23.39	26.18	21.24
7:07	23.89	28.04	20.90	25.10	26.91	21.13	23.81	27.03	21.06	24.65	28.10	20.41	24.17	27.30	21.30	23.38	26.16	21.22
7:08	23.87	28.02	20.89	25.05	26.88	21.11	23.81	27.00	21.04	24.61	28.07	20.40	24.16	27.28	21.29	23.37	26.14	21.20
7:09	23.84	27.99	20.89	24.98	26.85	21.11	23.82	26.98	21.02	24.63	28.05	20.38	24.16	27.24	21.28	23.36	26.12	21.19
7:10	23.81	27.96	20.87	24.92	26.82	21.09	23.79	26.95	21.00	24.65	28.02	20.38	24.14	27.22	21.28	23.34	26.09	21.16
7:11	23.82	27.93	20.85	24.87	26.79	21.09	23.79	26.93	21.00	24.63	28.00	20.37	24.14	27.19	21.27	23.33	26.08	21.15
7:12	23.81	27.91	20.85	24.80	26.76	21.07	23.78	26.90	20.98	24.59	27.97	20.35	24.13	27.17	21.25	23.32	26.06	21.14
7:13	23.82	27.88	20.84	24.76	26.73	21.05	23.77	26.87	20.95	24.62	27.95	20.33	24.13	27.15	21.26	23.32	26.05	21.13
7:14	23.81	27.85	20.83	24.71	26.70	21.04	23.76	26.85	20.94	24.60	27.92	20.32	24.13	27.12	21.24	23.29	26.02	21.13
7:15	23.81	27.83	20.81	24.66	26.67	21.03	23.75	26.82	20.91	24.62	27.90	20.31	24.13	27.11	21.24	23.29	26.00	21.12

	Thermistors (19-9a)																	
Time	T 19	T 20	T 21	T 22	T 23	T 24	T 25	T 26	T 27	T 1a	T 2a	T 3a	T 4a	T 5a	T 6a	T 7a	T 8a	T 9a
0:00	20.55	19.85	19.36	20.55	19.73	19.89	20.48	20.30	20.07	20.66	20.28	19.99	20.85	20.33	19.66	20.44	20.27	20.06
0:01	20.55	19.84	19.36	20.55	19.73	19.90	20.48	20.31	20.07	20.66	20.28	19.99	20.85	20.33	19.66	20.44	20.27	20.07
0:02	20.55	19.85	19.36	20.55	19.73	19.90	20.48	20.31	20.06	20.66	20.28	19.99	20.85	20.33	19.65	20.44	20.27	20.08
0:03	20.55	19.85	19.37	20.56	19.73	19.91	20.48	20.31	20.04	20.66	20.29	19.99	20.85	20.33	19.65	20.44	20.27	20.09
0:04	20.87	19.86	19.41	21.12	19.74	19.93	21.27	20.31	20.06	21.23	20.29	20.02	21.44	20.33	19.68	20.83	20.28	20.12
0:05	21.44	19.85	19.51	22.06	19.74	20.00	22.45	20.34	20.09	22.22	20.29	20.10	22.43	20.33	19.75	21.64	20.32	20.17
0:06	22.01	19.85	19.63	22.97	19.75	20.02	23.60	20.39	20.15	23.22	20.31	20.17	23.42	20.33	19.82	22.49	20.41	20.22
0:07	22.59	19.85	19.77	23.82	19.77	20.06	24.66	20.47	20.22	24.21	20.35	20.25	24.35	20.33	19.92	23.30	20.54	20.28
0:08	23.16	19.85	19.92	24.60	19.83	20.10	25.61	20.60	20.28	25.14	20.43	20.36	25.24	20.33	20.02	24.04	20.69	20.35
0:09	23.70	19.85	20.07	25.35	19.90	20.13	26.49	20.72	20.36	26.00	20.54	20.46	26.04	20.33	20.12	24.71	20.85	20.42
0:10	24.20	19.85	20.21	26.03	20.00	20.16	27.31	20.86	20.44	26.78	20.67	20.55	26.80	20.33	20.22	25.32	21.01	20.49

0:11	24.68	19.85	20.35	26.65	20.11	20.18	28.06	21.01	20.52	27.48	20.83	20.64	27.52	20.33	20.32	25.87	21.17	20.57
0:12	25.14	19.85	20.49	27.21	20.24	20.21	28.72	21.15	20.60	28.14	21.01	20.73	28.16	20.33	20.43	26.40	21.33	20.64
0:13	25.56	19.85	20.61	27.72	20.35	20.22	29.37	21.30	20.67	28.80	21.19	20.83	28.74	20.33	20.53	26.88	21.49	20.71
0:14	25.97	19.85	20.73	28.20	20.50	20.26	29.96	21.45	20.75	29.38	21.38	20.93	29.31	20.34	20.64	27.34	21.64	20.78
0:15	26.35	19.85	20.85	28.64	20.65	20.32	30.51	21.60	20.83	29.94	21.58	21.01	29.82	20.34	20.74	27.78	21.79	20.85
0:16	26.74	19.86	20.97	29.06	20.80	20.35	31.03	21.75	20.92	30.48	21.78	21.11	30.32	20.35	20.84	28.19	21.93	20.92
0:17	27.09	19.86	21.09	29.44	20.95	20.38	31.53	21.89	21.00	31.01	21.98	21.22	30.79	20.36	20.93	28.57	22.08	20.99
0:18	27.43	19.86	21.21	29.80	21.11	20.41	32.02	22.04	21.07	31.48	22.18	21.32	31.27	20.37	21.02	28.89	22.22	21.06
0:19	27.71	19.86	21.30	30.15	21.25	20.44	32.45	22.17	21.15	31.87	22.39	21.41	31.70	20.38	21.11	29.20	22.36	21.12
0:20	27.98	19.86	21.38	30.48	21.42	20.48	32.87	22.31	21.23	32.28	22.59	21.50	32.12	20.40	21.19	29.53	22.49	21.19
0:21	28.25	19.87	21.47	30.79	21.57	20.51	33.22	22.45	21.31	32.64	22.79	21.60	32.53	20.42	21.27	29.80	22.62	21.25
0:22	28.52	19.87	21.54	31.05	21.72	20.56	33.53	22.59	21.37	33.02	22.99	21.69	32.92	20.44	21.35	30.08	22.76	21.31
0:23	28.77	19.87	21.62	31.34	21.88	20.62	33.85	22.72	21.45	33.42	23.19	21.79	33.29	20.46	21.42	30.32	22.88	21.38
0:24	29.02	19.88	21.70	31.60	22.03	20.67	34.17	22.85	21.52	33.74	23.39	21.88	33.64	20.49	21.49	30.56	23.01	21.44
0:25	29.25	19.89	21.76	31.88	22.17	20.72	34.43	22.98	21.59	34.01	23.59	21.95	33.97	20.52	21.56	30.76	23.13	21.50
0:26	29.46	19.89	21.82	32.09	22.33	20.74	34.70	23.11	21.66	34.19	23.78	22.03	34.30	20.55	21.63	30.97	23.26	21.54
0:27	29.69	19.90	21.89	32.31	22.48	20.77	34.95	23.24	21.73	34.37	23.97	22.10	34.61	20.59	21.69	31.17	23.38	21.58
0:28	29.90	19.91	21.94	32.45	22.63	20.80	35.16	23.37	21.80	34.57	24.17	22.18	34.91	20.63	21.77	31.36	23.50	21.63
0:29	30.08	19.93	22.00	32.63	22.78	20.83	35.36	23.49	21.87	34.79	24.35	22.24	35.18	20.67	21.84	31.51	23.61	21.68
0:30	30.28	19.93	22.06	32.83	22.91	20.86	35.55	23.61	21.93	34.98	24.54	22.31	35.43	20.71	21.90	31.64	23.73	21.73
0:31	30.44	19.95	22.10	32.99	23.07	20.90	35.73	23.75	22.00	35.15	24.72	22.37	35.67	20.76	21.97	31.77	23.85	21.78
0:32	30.61	19.97	22.14	33.15	23.22	20.94	35.88	23.87	22.06	35.34	24.91	22.43	35.91	20.81	22.03	31.91	23.96	21.83
0:33	30.78	19.98	22.17	33.30	23.36	21.00	36.04	23.99	22.12	35.51	25.09	22.51	36.11	20.86	22.08	32.04	24.07	21.88
0:34	30.95	20.00	22.20	33.41	23.50	21.04	36.21	24.10	22.19	35.76	25.27	22.58	36.28	20.91	22.14	32.15	24.19	21.93
0:35	31.11	20.02	22.23	33.47	23.64	21.08	36.32	24.23	22.25	36.00	25.44	22.63	36.48	20.96	22.20	32.25	24.30	21.97
0:36	31.25	20.04	22.26	33.56	23.77	21.13	36.42	24.35	22.30	36.22	25.62	22.70	36.64	21.02	22.25	32.37	24.41	22.02
0:37	31.39	20.07	22.27	33.61	23.91	21.16	36.53	24.46	22.36	36.42	25.80	22.75	36.80	21.08	22.30	32.50	24.52	22.06
0:38	31.53	20.08	22.29	33.66	24.04	21.18	36.64	24.58	22.41	36.61	25.97	22.79	36.95	21.14	22.35	32.62	24.63	22.11
0:39	31.67	20.11	22.32	33.76	24.19	21.18	36.77	24.70	22.47	36.80	26.14	22.84	37.12	21.20	22.40	32.71	24.74	22.15
0:40	31.78	20.14	22.35	33.86	24.32	21.20	36.88	24.82	22.51	36.94	26.31	22.90	37.29	21.26	22.45	32.80	24.84	22.20
0:41	31.92	20.17	22.37	33.98	24.45	21.21	37.02	24.92	22.56	37.02	26.48	22.93	37.45	21.33	22.50	32.89	24.95	22.25
0:42	32.05	20.20	22.39	34.08	24.58	21.26	37.12	25.04	22.62	37.14	26.65	22.98	37.62	21.39	22.55	32.99	25.06	22.29
0:43	32.17	20.23	22.41	34.17	24.72	21.28	37.24	25.15	22.67	37.29	26.81	23.03	37.77	21.46	22.59	33.07	25.16	22.33
0:44	32.28	20.26	22.43	34.24	24.83	21.32	37.35	25.27	22.73	37.41	26.98	23.06	37.91	21.53	22.62	33.16	25.27	22.38
0:45	32.40	20.31	22.46	34.30	24.97	21.34	37.44	25.38	22.78	37.50	27.14	23.09	38.03	21.60	22.65	33.25	25.37	22.41
0:46	32.52	20.33	22.47	34.36	25.10	21.39	37.53	25.50	22.84	37.67	27.30	23.13	38.12	21.67	22.68	33.31	25.48	22.45
0:47	32.61	20.37	22.48	34.43	25.22	21.41	37.62	25.60	22.88	37.74	27.46	23.16	38.24	21.74	22.72	33.39	25.58	22.49
0:48	32.70	20.40	22.52	34.51	25.35	21.44	37.72	25.71	22.93	37.84	27.62	23.19	38.33	21.81	22.75	33.42	25.69	22.53
0:49	32.77	20.43	22.52	34.56	25.48	21.46	37.83	25.83	22.98	37.96	27.77	23.22	38.45	21.89	22.78	33.46	25.79	22.56
0:50	32.87	20.47	22.54	34.62	25.60	21.45	37.94	25.94	23.03	38.08	27.93	23.24	38.56	21.96	22.80	33.52	25.89	22.59
0:51	32.97	20.52	22.56	34.71	25.72	21.45	38.06	26.06	23.08	38.13	28.08	23.26	38.65	22.03	22.83	33.61	25.99	22.63
0:52	33.07	20.56	22.57	34.78	25.85	21.47	38.14	26.16	23.13	38.25	28.23	23.29	38.73	22.11	22.86	33.67	26.09	22.66
0:53	33.16	20.60	22.59	34.85	25.97	21.48	38.22	26.28	23.16	38.41	28.38	23.32	38.79	22.19	22.89	33.75	26.19	22.69
0:54	33.25	20.65	22.59	34.92	26.10	21.51	38.27	26.38	23.21	38.52	28.53	23.35	38.87	22.26	22.93	33.80	26.29	22.72
0:55	33.32	20.69	22.61	34.93	26.21	21.54	38.33	26.49	23.25	38.55	28.68	23.37	38.96	22.34	22.95	33.85	26.39	22.75
0:56	33.40	20.73	22.62	34.99	26.33	21.57	38.42	26.60	23.29	38.62	28.82	23.39	39.05	22.42	22.97	33.91	26.49	22.78
0:57	33.46	20.78	22.65	35.09	26.45	21.59	38.52	26.71	23.33	38.68	28.97	23.41	39.13	22.50	22.99	33.95	26.59	22.80
0:58	33.54	20.82	22.66	35.18	26.56	21.62	38.62	26.81	23.38	38.78	29.11	23.42	39.23	22.58	23.00	33.99	26.69	22.83
0:59	33.60	20.88	22.69	35.24	26.68	21.64	38.69	26.92	23.41	38.92	29.25	23.43	39.30	22.65	23.01	34.02	26.79	22.86
1:00	33.68	20.92	22.71	35.27	26.80	21.68	38.76	27.03	23.45	38.94	29.39	23.44	39.37	22.73	23.02	34.05	26.89	22.89
1:01	33.76	20.98	22.74	35.29	26.92	21.68	38.84	27.13	23.49	39.02	29.53	23.43	39.46	22.81	23.03	34.07	26.98	22.91
1:02	33.83	21.03	22.76	35.35	27.03	21.67	38.92	27.24	23.53	39.18	29.67	23.42	39.49	22.89	23.04	34.10	27.08	22.94
1:03	33.89	21.08	22.79	35.34	27.15	21.67	38.99	27.34	23.57	39.30	29.80	23.44	39.56	22.97	23.05	34.15	27.18	22.96
1:04	33.95	21.12	22.80	35.34	27.27	21.68	39.03	27.45	23.60	39.45	29.94	23.45	39.65	23.06	23.07	34.19	27.27	22.99
1:05	34.03	21.18	22.83	35.38	27.38	21.69	39.09	27.56	23.64	39.57	30.07	23.45	39.72	23.14	23.08	34.22	27.37	23.02
1:06	34.08	21.23	22.85	35.43	27.50	21.71	39.16	27.66	23.68	39.69	30.20	23.46	39.80	23.22	23.10	34.26	27.46	23.04
1:07	34.13	21.29	22.87	35.46	27.61	21.74	39.24	27.77	23.71	39.79	30.34	23.45	39.87	23.30	23.11	34.27	27.56	23.07
1:08	34.20	21.34	22.88	35.53	27.71	21.77	39.33	27.87	23.74	39.85	30.47	23.46	39.95	23.38	23.12	34.33	27.65	23.09
1:09	34.26	21.39	22.91	35.59	27.83	21.83	39.42	27.97	23.78	39.91	30.60	23.47	40.02	23.46	23.14	34.40	27.75	23.11
1:10	34.31	21.45	22.94	35.62	27.93	21.81	39.47	28.08	23.82	39.98	30.73	23.47	40.11	23.55	23.15	34.43	27.84	23.13
1:11	34.38	21.50	22.97	35.68	28.04	21.80	39.54	28.18	23.85	40.06	30.85	23.49	40.18	23.63	23.16	34.49	27.93	23.16
1:12	34.45	21.56	23.00	35.74	28.15	21.81	39.62	28.28	23.89	40.10	30.98	23.48	40.26	23.71	23.17	34.55	28.03	23.18
1:13	34.51	21.62	23.02	35.78	28.25	21.80	39.71	28.39	23.91	40.18	31.10	23.48	40.32	23.79	23.17	34.61	28.12	23.20
1:14	34.55	21.67	23.05	35.81	28.36	21.84	39.79	28.48	23.95	40.27	31.23	23.50						

1:19	34.79	21.95	23.12	36.10	28.90	21.88	40.23	29.00	24.08	40.68	31.83	23.53	40.62	24.29	23.25	34.74	28.67	23.32
1:20	34.85	22.02	23.15	36.10	29.01	21.88	40.30	29.10	24.11	40.74	31.95	23.53	40.67	24.37	23.26	34.76	28.76	23.35
1:21	34.88	22.08	23.15	36.14	29.11	21.88	40.34	29.19	24.14	40.75	32.07	23.52	40.75	24.46	23.27	34.80	28.85	23.36
1:22	34.94	22.14	23.17	36.16	29.21	21.90	40.43	29.30	24.17	40.79	32.19	23.53	40.82	24.54	23.28	34.82	28.94	23.38
1:23	35.01	22.19	23.19	36.20	29.31	21.92	40.51	29.39	24.19	40.87	32.30	23.53	40.91	24.62	23.29	34.83	29.03	23.40
1:24	35.03	22.24	23.22	36.25	29.42	21.93	40.57	29.49	24.22	40.94	32.42	23.53	40.95	24.71	23.30	34.86	29.12	23.42
1:25	35.08	22.31	23.23	36.32	29.52	21.95	40.63	29.59	24.25	40.96	32.53	23.56	40.97	24.79	23.31	34.92	29.20	23.44
1:26	35.11	22.37	23.23	36.43	29.61	21.96	40.71	29.70	24.27	40.97	32.64	23.56	40.95	24.87	23.31	34.95	29.29	23.46
1:27	35.17	22.43	23.25	36.53	29.71	21.99	40.79	29.79	24.31	40.96	32.75	23.56	41.00	24.95	23.32	35.02	29.38	23.48
1:28	35.19	22.49	23.26	36.63	29.81	22.02	40.86	29.89	24.34	41.02	32.86	23.57	41.02	25.04	23.33	35.08	29.46	23.50
1:29	35.21	22.55	23.27	36.73	29.91	22.02	40.94	29.98	24.37	41.10	32.97	23.57	41.04	25.12	23.34	35.13	29.55	23.51
1:30	35.24	22.61	23.28	36.81	30.01	22.01	41.02	30.08	24.40	41.16	33.08	23.61	41.11	25.20	23.34	35.20	29.63	23.53
1:31	35.22	22.67	23.29	36.91	30.10	22.01	41.09	30.18	24.43	41.16	33.18	23.61	41.14	25.28	23.34	35.27	29.71	23.55
1:32	35.25	22.73	23.30	36.99	30.20	22.04	41.17	30.28	24.45	41.18	33.29	23.60	41.17	25.37	23.34	35.33	29.80	23.57
1:33	35.29	22.79	23.31	37.09	30.29	22.06	41.23	30.37	24.47	41.28	33.40	23.62	41.22	25.45	23.35	35.37	29.88	23.58
1:34	35.32	22.85	23.33	37.13	30.39	22.05	41.29	30.47	24.50	41.37	33.50	23.63	41.28	25.53	23.35	35.43	29.96	23.60
1:35	35.37	22.91	23.34	37.20	30.49	22.04	41.35	30.57	24.52	41.42	33.60	23.63	41.29	25.61	23.35	35.49	30.05	23.61
1:36	35.42	22.96	23.36	37.25	30.58	22.06	41.41	30.66	24.54	41.49	33.70	23.65	41.33	25.69	23.36	35.56	30.13	23.63
1:37	35.47	23.03	23.36	37.36	30.68	22.05	41.48	30.75	24.56	41.49	33.81	23.65	41.35	25.78	23.36	35.64	30.22	23.64
1:38	35.51	23.09	23.37	37.44	30.77	22.07	41.54	30.85	24.58	41.47	33.91	23.67	41.38	25.86	23.37	35.72	30.30	23.66
1:39	35.56	23.16	23.37	37.47	30.87	22.09	41.59	30.94	24.60	41.55	34.01	23.68	41.40	25.94	23.38	35.77	30.38	23.68
1:40	35.62	23.22	23.36	37.51	30.97	22.11	41.65	31.03	24.63	41.55	34.10	23.71	41.45	26.02	23.39	35.83	30.46	23.69
1:41	35.66	23.27	23.39	37.58	31.06	22.12	41.70	31.13	24.65	41.59	34.20	23.73	41.51	26.10	23.40	35.87	30.55	23.71
1:42	35.67	23.34	23.41	37.62	31.15	22.13	41.76	31.22	24.67	41.60	34.30	23.72	41.54	26.18	23.40	35.91	30.63	23.73
1:43	35.73	23.40	23.43	37.65	31.25	22.14	41.80	31.32	24.69	41.61	34.40	23.73	41.58	26.26	23.40	35.95	30.71	23.74
1:44	35.76	23.46	23.43	37.71	31.33	22.15	41.87	31.40	24.71	41.66	34.49	23.74	41.68	26.34	23.41	36.01	30.79	23.76
1:45	35.82	23.52	23.44	37.76	31.44	22.17	41.93	31.50	24.74	41.74	34.59	23.75	41.71	26.42	23.41	36.05	30.87	23.78
1:46	35.87	23.59	23.45	37.82	31.52	22.14	41.99	31.59	24.76	41.75	34.68	23.76	41.69	26.50	23.42	36.09	30.95	23.79
1:47	35.89	23.64	23.46	37.87	31.61	22.11	42.06	31.68	24.79	41.70	34.78	23.77	41.68	26.58	23.43	36.12	31.03	23.81
1:48	35.93	23.71	23.47	37.91	31.70	22.09	42.12	31.77	24.79	41.65	34.87	23.78	41.68	26.66	23.44	36.17	31.11	23.82
1:49	35.97	23.76	23.46	37.91	31.78	22.09	42.15	31.86	24.81	41.72	34.96	23.79	41.68	26.74	23.45	36.17	31.19	23.84
1:50	36.01	23.82	23.46	37.94	31.87	22.09	42.19	31.94	24.83	41.78	35.05	23.78	41.73	26.82	23.46	36.17	31.27	23.85
1:51	36.04	23.88	23.46	37.96	31.95	22.11	42.23	32.04	24.85	41.89	35.14	23.80	41.78	26.90	23.47	36.20	31.35	23.87
1:52	36.04	23.94	23.46	38.03	32.04	22.12	42.28	32.12	24.86	41.91	35.23	23.80	41.81	26.98	23.48	36.25	31.42	23.88
1:53	36.08	24.01	23.46	38.11	32.12	22.13	42.36	32.21	24.87	41.96	35.32	23.82	41.88	27.06	23.49	36.31	31.50	23.89
1:54	36.05	24.06	23.46	38.17	32.20	22.15	42.41	32.30	24.89	42.06	35.41	23.82	41.92	27.14	23.50	36.32	31.58	23.91
1:55	36.03	24.13	23.46	38.16	32.28	22.17	42.47	32.38	24.91	42.15	35.49	23.81	41.97	27.22	23.51	36.27	31.65	23.92
1:56	36.01	24.18	23.46	38.21	32.36	22.18	42.52	32.47	24.93	42.25	35.58	23.83	42.01	27.30	23.52	36.31	31.73	23.93
1:57	36.06	24.25	23.47	38.25	32.44	22.17	42.56	32.56	24.94	42.29	35.67	23.83	42.01	27.38	23.53	36.31	31.80	23.94
1:58	36.05	24.31	23.47	38.31	32.53	22.15	42.62	32.65	24.95	42.37	35.76	23.84	42.02	27.45	23.53	36.31	31.88	23.95
1:59	36.08	24.37	23.47	38.35	32.61	22.13	42.68	32.73	24.98	42.42	35.84	23.84	42.03	27.53	23.54	36.32	31.95	23.97
2:00	36.09	24.42	23.47	38.34	32.69	22.13	42.75	32.82	24.99	42.48	35.93	23.86	42.03	27.61	23.55	36.34	32.03	23.98
2:01	36.08	24.48	23.48	38.37	32.77	22.12	42.79	32.90	25.00	42.51	36.01	23.87	42.07	27.69	23.56	36.37	32.10	23.99
2:02	36.09	24.55	23.49	38.37	32.85	22.15	42.81	32.99	25.01	42.49	36.10	23.87	42.08	27.77	23.57	36.43	32.17	24.00
2:03	36.15	24.61	23.50	38.36	32.93	22.16	42.83	33.07	25.03	42.50	36.18	23.86	42.13	27.85	23.57	36.50	32.24	24.01
2:04	36.21	24.67	23.48	38.39	33.00	22.18	42.87	33.15	25.04	42.52	36.26	23.89	42.17	27.93	23.58	36.57	32.31	24.02
2:05	36.25	24.73	23.49	38.46	33.08	22.21	42.91	33.23	25.06	42.56	36.34	23.89	42.25	28.00	23.58	36.64	32.39	24.03
2:06	36.30	24.79	23.48	38.46	33.15	22.24	42.94	33.32	25.09	42.63	36.42	23.89	42.29	28.08	23.58	36.72	32.46	24.04
2:07	36.38	24.85	23.48	38.51	33.24	22.22	42.96	33.40	25.09	42.71	36.50	23.89	42.31	28.15	23.58	36.74	32.53	24.05
2:08	36.44	24.90	23.46	38.52	33.31	22.22	43.00	33.48	25.11	42.77	36.58	23.89	42.35	28.23	23.59	36.81	32.60	24.06
2:09	36.47	24.97	23.46	38.60	33.38	22.21	43.07	33.56	25.13	42.82	36.66	23.91	42.38	28.31	23.59	36.81	32.67	24.06
2:10	36.48	25.02	23.47	38.64	33.46	22.21	43.11	33.64	25.15	42.80	36.74	23.93	42.42	28.38	23.60	36.87	32.74	24.07
2:11	36.51	25.08	23.49	38.66	33.53	22.23	43.18	33.73	25.16	42.85	36.82	23.94	42.45	28.45	23.60	36.90	32.81	24.08
2:12	36.50	25.15	23.48	38.68	33.60	22.24	43.24	33.81	25.19	42.89	36.90	23.94	42.47	28.53	23.60	36.97	32.88	24.08
2:13	36.53	25.20	23.47	38.71	33.67	22.26	43.29	33.89	25.20	42.96	36.97	23.93	42.49	28.60	23.60	37.03	32.95	24.09
2:14	36.56	25.25	23.47	38.76	33.74	22.29	43.34	33.97	25.23	43.02	37.05	23.96	42.54	28.67	23.60	37.07	33.02	24.10
2:15	36.60	25.32	23.49	38.79	33.82	22.30	43.38	34.05	25.25	43.05	37.13	23.95	42.58	28.75	23.61	37.12	33.09	24.11
2:16	36.65	25.38	23.48	38.83	33.89	22.28	43.39	34.13	25.26	43.11	37.20	23.95	42.56	28.82	23.61	37.14	33.16	24.12
2:17	36.70	25.43	23.48	38.86	33.96	22.27	43.40	34.21	25.28	43.17	37.28	23.93	42.58	28.89	23.61	37.16	33.23	24.13
2:18	36.74	25.49	23.49	38.86	34.03	22.25	43.46	34.29	25.31	43.21	37.35	23.94	42.61	28.96	23.62	37.22	33.30	24.13
2:19	36.78	25.55	23.49	38.87	34.10	22.25	43.49	34.36	25.32	43.28	37.43	23.96	42.67	29.03	23.63	37.28	33.37	24.14
2:20	36.83	25.60	23.50	38.85	34.16	22.27	43.54	34.44	25.34	43.30	37.50	23.95	42.72	29.10	23.64	37.30	33.44	24.14
2:21	36.85	25.67	23.49	38.81	34.23	22.29	43.59	34.52	25.36	43.32	37.58	23.96	42.78	29.18	23.65	37.29	33.50	24.15
2:22	36.90	25.72	23.51	38.80	34.30	22.31	43.64	34.60	25.38	43.33	37.65	23.96						

2:27	37.02	26.00	23.51	38.88	34.64	22.34	43.78	34.98	25.47	43.50	38.01	24.01	42.92	29.59	23.73	37.25	33.90	24.19
2:28	37.04	26.05	23.50	38.89	34.70	22.35	43.81	35.05	25.49	43.55	38.08	24.01	42.98	29.66	23.75	37.26	33.97	24.20
2:29	37.06	26.10	23.50	38.87	34.77	22.34	43.84	35.13	25.51	43.60	38.15	24.06	42.99	29.73	23.76	37.24	34.03	24.21
2:30	37.10	26.17	23.50	38.83	34.83	22.36	43.84	35.22	25.52	43.62	38.22	24.05	43.01	29.80	23.78	37.18	34.10	24.22
2:31	37.12	26.22	23.50	38.82	34.89	22.37	43.88	35.28	25.54	43.57	38.28	24.05	43.04	29.87	23.81	37.14	34.16	24.23
2:32	37.15	26.27	23.52	38.86	34.95	22.39	43.92	35.35	25.57	43.60	38.35	24.04	43.06	29.94	23.82	37.11	34.22	24.24
2:33	37.19	26.32	23.55	38.91	35.02	22.41	43.98	35.43	25.58	43.65	38.42	24.04	43.10	30.00	23.83	37.11	34.29	24.25
2:34	37.20	26.37	23.54	38.92	35.08	22.42	44.02	35.50	25.60	43.70	38.49	24.05	43.13	30.07	23.85	37.15	34.35	24.26
2:35	37.23	26.44	23.55	39.01	35.14	22.44	44.08	35.57	25.62	43.70	38.56	24.04	43.19	30.14	23.86	37.20	34.41	24.27
2:36	37.27	26.49	23.56	39.05	35.20	22.45	44.11	35.65	25.64	43.72	38.62	24.07	43.23	30.20	23.88	37.27	34.47	24.29
2:37	37.31	26.54	23.54	39.03	35.27	22.42	44.12	35.72	25.65	43.76	38.69	24.08	43.27	30.27	23.89	37.31	34.53	24.30
2:38	37.35	26.60	23.55	39.06	35.33	22.41	44.15	35.79	25.68	43.81	38.76	24.09	43.27	30.34	23.92	37.36	34.59	24.31
2:39	37.39	26.64	23.55	39.14	35.39	22.41	44.21	35.87	25.69	43.89	38.83	24.10	43.30	30.40	23.93	37.37	34.65	24.33
2:40	37.42	26.70	23.56	39.19	35.45	22.42	44.24	35.94	25.71	43.93	38.89	24.10	43.33	30.47	23.94	37.43	34.71	24.34
2:41	37.40	26.75	23.57	39.29	35.50	22.44	44.27	36.01	25.73	43.98	38.96	24.11	43.33	30.53	23.95	37.49	34.77	24.35
2:42	37.41	26.80	23.57	39.35	35.57	22.45	44.34	36.08	25.74	44.00	39.03	24.10	43.33	30.60	23.95	37.53	34.83	24.37
2:43	37.45	26.86	23.58	39.36	35.63	22.47	44.38	36.14	25.75	44.02	39.09	24.11	43.32	30.66	23.96	37.55	34.89	24.38
2:44	37.49	26.90	23.59	39.42	35.69	22.50	44.40	36.22	25.77	44.02	39.16	24.11	43.38	30.72	23.96	37.51	34.95	24.39
2:45	37.49	26.96	23.59	39.46	35.75	22.49	44.46	36.28	25.79	44.00	39.22	24.10	43.42	30.79	23.97	37.47	35.01	24.41
2:46	37.49	27.01	23.60	39.49	35.80	22.48	44.53	36.36	25.79	43.98	39.28	24.11	43.47	30.85	23.97	37.49	35.07	24.43
2:47	37.49	27.07	23.60	39.51	35.86	22.46	44.58	36.43	25.81	44.00	39.35	24.10	43.55	30.91	23.98	37.53	35.13	24.45
2:48	37.52	27.12	23.62	39.50	35.92	22.46	44.62	36.50	25.83	44.04	39.41	24.10	43.61	30.98	23.98	37.58	35.19	24.47
2:49	37.55	27.17	23.62	39.55	35.98	22.48	44.66	36.56	25.84	44.09	39.48	24.11	43.64	31.04	23.98	37.62	35.25	24.49
2:50	37.55	27.21	23.63	39.60	36.04	22.49	44.72	36.63	25.86	44.12	39.54	24.10	43.63	31.10	23.99	37.70	35.31	24.51
2:51	37.60	27.26	23.65	39.59	36.09	22.51	44.75	36.70	25.88	44.11	39.60	24.10	43.66	31.17	23.99	37.73	35.37	24.53
2:52	37.64	27.32	23.66	39.65	36.15	22.53	44.79	36.77	25.89	44.07	39.66	24.10	43.71	31.23	24.00	37.74	35.42	24.55
2:53	37.68	27.37	23.68	39.67	36.20	22.54	44.82	36.84	25.90	44.09	39.72	24.13	43.74	31.29	24.00	37.76	35.48	24.57
2:54	37.71	27.42	23.68	39.71	36.26	22.58	44.85	36.91	25.91	44.04	39.78	24.12	43.74	31.35	24.02	37.78	35.54	24.59
2:55	37.76	27.48	23.67	39.70	36.31	22.58	44.87	36.98	25.93	44.04	39.83	24.12	43.74	31.41	24.03	37.82	35.60	24.61
2:56	37.78	27.52	23.68	39.73	36.38	22.55	44.92	37.05	25.94	44.07	39.89	24.13	43.77	31.47	24.03	37.90	35.65	24.63
2:57	37.79	27.57	23.71	39.77	36.43	22.54	44.97	37.11	25.96	44.11	39.95	24.12	43.80	31.53	24.03	37.93	35.71	24.65
2:58	37.77	27.61	23.71	39.82	36.48	22.54	45.03	37.19	25.97	44.15	40.01	24.15	43.83	31.59	24.04	37.90	35.77	24.67
2:59	37.78	27.66	23.72	39.89	36.53	22.54	45.10	37.25	25.99	44.17	40.07	24.16	43.85	31.65	24.05	37.87	35.82	24.69
3:00	37.79	27.71	23.73	39.98	36.58	22.56	45.13	37.32	26.00	44.22	40.12	24.17	43.87	31.71	24.05	37.90	35.88	24.70
3:01	37.85	27.77	23.73	39.97	36.64	22.58	45.14	37.38	26.02	44.20	40.18	24.17	43.86	31.77	24.05	37.99	35.93	24.72
3:02	37.89	27.81	23.73	39.97	36.70	22.58	45.16	37.45	26.03	44.21	40.24	24.17	43.86	31.83	24.05	38.02	35.99	24.74
3:03	37.91	27.86	23.73	40.00	36.75	22.59	45.18	37.51	26.05	44.22	40.29	24.21	43.83	31.89	24.06	38.01	36.04	24.75
3:04	37.91	27.91	23.74	40.01	36.80	22.60	45.23	37.58	26.07	44.25	40.35	24.20	43.84	31.95	24.06	38.00	36.10	24.77
3:05	37.96	27.95	23.74	40.06	36.86	22.60	45.30	37.65	26.07	44.26	40.40	24.22	43.85	32.01	24.06	37.99	36.15	24.79
3:06	37.98	28.01	23.76	40.08	36.91	22.60	45.36	37.71	26.09	44.27	40.46	24.22	43.90	32.07	24.05	37.99	36.21	24.81
3:07	37.98	28.05	23.77	40.12	36.97	22.61	45.41	37.77	26.10	44.29	40.51	24.23	43.96	32.13	24.06	38.00	36.26	24.83
3:08	37.99	28.10	23.77	40.18	37.02	22.62	45.45	37.84	26.12	44.31	40.56	24.25	44.01	32.19	24.06	38.04	36.31	24.85
3:09	37.98	28.14	23.78	40.28	37.08	22.60	45.52	37.91	26.13	44.36	40.62	24.23	43.99	32.25	24.06	38.04	36.36	24.86
3:10	37.99	28.19	23.77	40.35	37.12	22.59	45.59	37.97	26.14	44.35	40.67	24.23	43.98	32.31	24.05	38.02	36.42	24.88
3:11	38.02	28.24	23.78	40.37	37.17	22.56	45.63	38.04	26.15	44.38	40.72	24.22	43.98	32.37	24.04	38.04	36.47	24.91
3:12	38.02	28.28	23.78	40.40	37.24	22.54	45.64	38.10	26.16	44.41	40.77	24.23	44.02	32.43	24.04	38.07	36.52	24.92
3:13	37.99	28.33	23.78	40.41	37.29	22.54	45.67	38.16	26.17	44.43	40.83	24.23	44.04	32.48	24.05	38.07	36.57	24.94
3:14	38.02	28.38	23.80	40.49	37.33	22.54	45.74	38.23	26.18	44.45	40.88	24.23	44.01	32.54	24.04	38.06	36.62	24.95
3:15	38.06	28.42	23.81	40.48	37.39	22.55	45.77	38.29	26.18	44.43	40.93	24.24	44.03	32.60	24.04	38.09	36.67	24.96
3:16	38.10	28.47	23.82	40.44	37.44	22.55	45.80	38.35	26.19	44.43	40.98	24.26	44.03	32.65	24.04	38.15	36.72	24.98
3:17	38.12	28.52	23.81	40.47	37.49	22.56	45.83	38.41	26.19	44.44	41.03	24.26	44.05	32.71	24.03	38.16	36.77	24.98
3:18	38.16	28.56	23.81	40.54	37.54	22.55	45.86	38.47	26.21	44.44	41.08	24.24	44.03	32.77	24.03	38.11	36.81	24.99
3:19	38.18	28.61	23.83	40.56	37.59	22.57	45.92	38.53	26.21	44.36	41.13	24.24	44.03	32.82	24.03	38.08	36.86	25.00
3:20	38.19	28.65	23.83	40.61	37.64	22.55	45.99	38.59	26.22	44.39	41.18	24.24	44.05	32.88	24.02	38.11	36.91	25.02
3:21	38.17	28.69	23.83	40.66	37.69	22.52	46.05	38.66	26.23	44.41	41.22	24.22	44.01	32.93	24.02	38.16	36.96	25.03
3:22	38.18	28.73	23.85	40.70	37.74	22.49	46.12	38.72	26.23	44.41	41.27	24.23	44.00	32.99	24.02	38.16	37.01	25.04
3:23	38.19	28.78	23.84	40.64	37.79	22.48	46.17	38.78	26.24	44.36	41.32	24.21	44.03	33.04	24.01	38.14	37.06	25.05
3:24	38.22	28.82	23.83	40.68	37.84	22.48	46.22	38.84	26.24	44.34	41.37	24.22	44.02	33.10	24.00	38.07	37.11	25.06
3:25	38.24	28.87	23.83	40.69	37.88	22.49	46.24	38.90	26.25	44.37	41.42	24.22	44.02	33.15	24.00	38.04	37.16	25.06
3:26	38.19	28.92	23.86	40.72	37.94	22.49	46.28	38.96	26.26	44.44	41.46	24.22	44.04	33.20	24.00	38.06	37.21	25.07
3:27	38.20	28.96	23.87	40.76	37.98	22.49	46.32	39.01	26.27	44.45	41.51	24.21	44.04	33.26	23.99	38.09	37.26	25.08
3:28	38.20	29.00	23.87	40.76	38.03	22.50	46.34	39.08	26.28	44.46	41.56	24.19	44.10	33.31	23.99	38.14	37.30	25.09
3:29	38.21	29.05	23.86	40.78	38.07	22.49	46.37	39.14	26.29	44.50	41.60	24.21	44.13	33.36	23.99	38.18	37.35	25.10
3:30	38.21	29.09	23.86	40.82	38.12	22.48	46.44	39.19	26.30	44.45	41.65	24.22						

3:35	38.33	29.30	23.86	40.84	38.36	22.45	46.56	39.49	26.33	44.54	41.88	24.20	44.14	33.67	23.99	38.19	37.63	25.14
3:36	38.37	29.34	23.87	40.88	38.40	22.46	46.58	39.55	26.33	44.55	41.92	24.22	44.18	33.72	23.99	38.27	37.68	25.15
3:37	38.38	29.38	23.84	40.90	38.45	22.45	46.59	39.60	26.33	44.57	41.97	24.21	44.19	33.77	23.99	38.30	37.72	25.16
3:38	38.38	29.42	23.84	40.90	38.49	22.46	46.65	39.66	26.34	44.61	42.01	24.20	44.17	33.82	23.99	38.29	37.77	25.17
3:39	38.39	29.47	23.86	40.99	38.55	22.43	46.70	39.72	26.34	44.64	42.05	24.21	44.14	33.87	23.98	38.28	37.81	25.17
3:40	38.39	29.51	23.86	41.04	38.59	22.40	46.76	39.77	26.34	44.54	42.10	24.18	44.08	33.92	23.97	38.28	37.86	25.18
3:41	38.44	29.55	23.84	41.07	38.64	22.38	46.81	39.83	26.34	44.59	42.14	24.18	44.05	33.97	23.95	38.30	37.90	25.17
3:42	38.51	29.59	23.85	41.17	38.68	22.37	46.86	39.89	26.34	44.66	42.19	24.17	44.05	34.02	23.93	38.31	37.95	25.15
3:43	38.54	29.63	23.85	41.23	38.72	22.37	46.91	39.94	26.34	44.71	42.23	24.19	44.09	34.07	23.92	38.37	37.99	25.13
3:44	38.50	29.67	23.85	41.24	38.77	22.37	46.96	40.00	26.33	44.68	42.27	24.19	44.12	34.12	23.91	38.46	38.04	25.11
3:45	38.49	29.72	23.86	41.24	38.82	22.37	47.03	40.07	26.33	44.69	42.32	24.20	44.19	34.17	23.90	38.54	38.08	25.10
3:46	38.48	29.75	23.86	41.26	38.86	22.38	47.05	40.11	26.33	44.71	42.36	24.21	44.18	34.22	23.89	38.60	38.12	25.08
3:47	38.49	29.79	23.87	41.32	38.91	22.38	47.08	40.17	26.33	44.76	42.40	24.22	44.18	34.27	23.88	38.66	38.17	25.07
3:48	38.47	29.83	23.87	41.33	38.95	22.39	47.11	40.22	26.32	44.74	42.44	24.25	44.22	34.32	23.88	38.78	38.21	25.06
3:49	38.48	29.87	23.87	41.31	38.99	22.40	47.13	40.27	26.33	44.75	42.49	24.24	44.24	34.36	23.87	38.87	38.25	25.05
3:50	38.51	29.91	23.88	41.34	39.04	22.38	47.16	40.33	26.33	44.75	42.53	24.27	44.26	34.41	23.88	38.97	38.30	25.04
3:51	38.53	29.95	23.86	41.38	39.08	22.38	47.18	40.38	26.35	44.79	42.57	24.28	44.25	34.46	23.88	39.03	38.34	25.04
3:52	38.58	29.99	23.87	41.39	39.13	22.40	47.18	40.43	26.35	44.82	42.61	24.28	44.28	34.51	23.88	39.08	38.38	25.03
3:53	38.61	30.03	23.86	41.41	39.17	22.38	47.20	40.48	26.36	44.81	42.66	24.30	44.32	34.56	23.88	39.10	38.43	25.02
3:54	38.58	30.06	23.86	41.43	39.21	22.38	47.23	40.54	26.37	44.82	42.70	24.29	44.37	34.60	23.88	39.13	38.47	25.02
3:55	38.61	30.11	23.85	41.47	39.26	22.39	47.25	40.59	26.37	44.85	42.74	24.31	44.38	34.65	23.87	39.16	38.51	25.02
3:56	38.59	30.15	23.85	41.50	39.30	22.40	47.27	40.65	26.38	44.79	42.78	24.30	44.42	34.70	23.87	39.15	38.56	25.02
3:57	38.60	30.19	23.85	41.49	39.34	22.41	47.31	40.70	26.39	44.78	42.82	24.31	44.43	34.74	23.88	39.18	38.60	25.02
3:58	38.65	30.22	23.84	41.54	39.38	22.40	47.31	40.75	26.40	44.81	42.86	24.32	44.42	34.79	23.87	39.21	38.64	25.02
3:59	38.68	30.26	23.82	41.57	39.43	22.42	47.32	40.81	26.41	44.87	42.90	24.32	44.40	34.83	23.87	39.27	38.69	25.03
4:00	38.71	30.30	23.83	41.61	39.47	22.43	47.38	40.86	26.41	44.93	42.94	24.34	44.39	34.88	23.88	39.29	38.73	25.03
4:01	38.71	30.35	23.83	41.68	39.51	22.42	47.40	40.91	26.42	44.98	42.98	24.33	44.43	34.93	23.88	39.33	38.77	25.04
4:02	38.68	30.38	23.81	41.65	39.55	22.45	47.38	40.96	26.43	45.03	43.02	24.35	44.46	34.97	23.87	39.34	38.81	25.04
4:03	38.70	30.42	23.84	41.69	39.60	22.42	47.45	41.01	26.44	45.08	43.06	24.34	44.48	35.02	23.87	39.34	38.86	25.05
4:04	38.67	30.45	23.83	41.75	39.64	22.40	47.48	41.07	26.44	45.07	43.10	24.34	44.50	35.06	23.86	39.32	38.90	25.05
4:05	38.71	30.49	23.83	41.75	39.67	22.40	47.51	41.12	26.44	45.06	43.14	24.37	44.52	35.11	23.87	39.38	38.94	25.06
4:06	38.75	30.53	23.83	41.76	39.71	22.41	47.52	41.17	26.45	45.10	43.18	24.36	44.52	35.15	23.88	39.38	38.98	25.07
4:07	38.79	30.56	23.83	41.83	39.76	22.41	47.57	41.22	26.45	45.12	43.22	24.39	44.53	35.19	23.87	39.41	39.02	25.08
4:08	38.81	30.61	23.82	41.84	39.80	22.43	47.59	41.27	26.45	45.17	43.26	24.39	44.53	35.24	23.88	39.46	39.06	25.08
4:09	38.84	30.64	23.82	41.83	39.84	22.44	47.62	41.32	26.47	45.19	43.29	24.40	44.52	35.28	23.87	39.44	39.11	25.09
4:10	38.85	30.67	23.83	41.85	39.88	22.44	47.63	41.37	26.47	45.21	43.33	24.42	44.58	35.33	23.88	39.45	39.15	25.10
4:11	38.86	30.71	23.83	41.91	39.92	22.45	47.64	41.42	26.48	45.22	43.37	24.41	44.56	35.37	23.88	39.50	39.19	25.11
4:12	38.85	30.74	23.83	41.85	39.96	22.46	47.66	41.47	26.48	45.16	43.41	24.42	44.60	35.41	23.88	39.49	39.23	25.12
4:13	38.88	30.78	23.83	41.87	40.00	22.47	47.70	41.52	26.49	45.18	43.45	24.41	44.60	35.46	23.88	39.46	39.27	25.13
4:14	38.89	30.82	23.83	41.89	40.04	22.48	47.72	41.57	26.51	45.19	43.48	24.41	44.62	35.50	23.87	39.47	39.31	25.14
4:15	38.94	30.86	23.81	41.89	40.08	22.48	47.69	41.62	26.51	45.16	43.52	24.41	44.65	35.54	23.87	39.49	39.35	25.15
4:16	38.97	30.89	23.80	41.88	40.12	22.50	47.68	41.66	26.52	45.17	43.56	24.40	44.65	35.59	23.88	39.50	39.39	25.16
4:17	39.00	30.92	23.79	41.88	40.16	22.49	47.70	41.72	26.52	45.16	43.60	24.41	44.70	35.63	23.89	39.53	39.43	25.17
4:18	39.05	30.96	23.78	41.90	40.20	22.46	47.71	41.76	26.53	45.19	43.63	24.40	44.74	35.67	23.89	39.51	39.47	25.18
4:19	39.08	30.99	23.80	41.91	40.24	22.46	47.72	41.82	26.54	45.23	43.67	24.41	44.79	35.71	23.89	39.52	39.50	25.19
4:20	39.09	31.03	23.79	41.97	40.28	22.46	47.77	41.86	26.54	45.27	43.71	24.40	44.81	35.76	23.89	39.56	39.54	25.20
4:21	39.08	31.06	23.81	41.98	40.32	22.47	47.81	41.91	26.55	45.31	43.74	24.39	44.78	35.80	23.90	39.60	39.58	25.21
4:22	39.11	31.10	23.81	42.01	40.35	22.48	47.84	41.96	26.55	45.34	43.78	24.39	44.76	35.84	23.90	39.63	39.62	25.22
4:23	39.14	31.13	23.82	42.03	40.39	22.49	47.89	42.01	26.56	45.27	43.81	24.38	44.73	35.88	23.89	39.62	39.66	25.23
4:24	39.15	31.16	23.83	42.07	40.43	22.50	47.93	42.06	26.56	45.26	43.85	24.40	44.75	35.92	23.89	39.63	39.69	25.24
4:25	39.14	31.21	23.85	42.13	40.47	22.51	47.97	42.10	26.57	45.30	43.88	24.41	44.75	35.96	23.90	39.68	39.73	25.24
4:26	39.10	31.23	23.86	42.16	40.51	22.53	48.02	42.15	26.58	45.38	43.92	24.41	44.75	36.00	23.90	39.73	39.77	25.25
4:27	39.08	31.27	23.87	42.20	40.54	22.51	48.07	42.20	26.59	45.39	43.95	24.41	44.77	36.05	23.90	39.74	39.81	25.26
4:28	39.10	31.30	23.90	42.24	40.58	22.49	48.12	42.25	26.59	45.41	43.99	24.42	44.76	36.09	23.90	39.72	39.84	25.27
4:29	39.15	31.33	23.91	42.26	40.62	22.48	48.16	42.29	26.60	45.44	44.02	24.42	44.77	36.13	23.90	39.75	39.88	25.27
4:30	39.14	31.38	23.92	42.28	40.66	22.47	48.20	42.34	26.61	45.49	44.06	24.40	44.76	36.17	23.90	39.77	39.92	25.28
4:31	39.06	31.40	23.93	42.30	40.69	22.48	48.25	42.39	26.63	45.54	44.09	24.41	44.75	36.21	23.90	39.79	39.95	25.29
4:32	39.00	31.43	23.94	42.32	40.74	22.49	48.33	42.43	26.63	45.52	44.13	24.41	44.78	36.25	23.90	39.81	39.99	25.30
4:33	39.04	31.47	23.95	42.34	40.77	22.50	48.34	42.48	26.64	45.58	44.16	24.42	44.80	36.29	23.90	39.81	40.03	25.30
4:34	39.04	31.51	23.96	42.34	40.80	22.51	48.35	42.53	26.65	45.58	44.19	24.41	44.82	36.33	23.91	39.77	40.06	25.31
4:35	39.04	31.54	23.96	42.37	40.84	22.51	48.40	42.57	26.67	45.58	44.23	24.40	44.86	36.37	23.91	39.76	40.10	25.31
4:36	39.01	31.56	23.96	42.34	40.87	22.54	48.42	42.61	26.68	45.58	44.26	24.42	44.86	36.41	23.92	39.76	40.14	25.32
4:37	39.06	31.60	23.95	42.37	40.91	22.53	48.40	42.66	26.70	45.60	44.30	24.42	44.90	36.45	23.93	39.79	40.17	25.33
4:38	39.08	31.63	23.95	42.34	40.94	22.51	48.42	42.71	26.71	45.65	44.33	24.43						

4:43	39.13	31.79	23.97	42.33	41.11	22.55	48.51	42.93	26.79	45.76	44.50	24.45	45.06	36.68	23.95	40.09	40.38	25.37
4:44	39.17	31.83	23.97	42.38	41.15	22.57	48.53	42.97	26.81	45.74	44.54	24.45	45.07	36.72	23.96	40.07	40.42	25.38
4:45	39.13	31.85	23.99	42.40	41.18	22.57	48.57	43.01	26.82	45.66	44.57	24.45	45.05	36.75	23.95	40.06	40.45	25.39
4:46	39.15	31.89	24.00	42.42	41.22	22.58	48.58	43.05	26.83	45.63	44.60	24.43	45.06	36.79	23.94	40.02	40.49	25.39
4:47	39.21	31.92	24.00	42.43	41.26	22.58	48.63	43.10	26.83	45.64	44.63	24.43	45.09	36.83	23.94	39.97	40.52	25.39
4:48	39.23	31.95	23.98	42.48	41.28	22.54	48.68	43.13	26.84	45.64	44.66	24.46	45.12	36.87	23.94	39.95	40.55	25.39
4:49	39.22	31.98	23.97	42.46	41.32	22.52	48.69	43.18	26.86	45.65	44.70	24.45	45.20	36.90	23.95	39.94	40.59	25.40
4:50	39.16	32.01	23.98	42.45	41.35	22.52	48.72	43.23	26.88	45.68	44.73	24.46	45.28	36.94	23.96	39.98	40.62	25.40
4:51	39.16	32.04	23.97	42.48	41.39	22.53	48.75	43.27	26.89	45.70	44.76	24.46	45.31	36.98	23.97	39.98	40.66	25.40
4:52	39.19	32.07	23.98	42.43	41.42	22.54	48.75	43.31	26.91	45.73	44.79	24.46	45.32	37.01	23.98	40.01	40.69	25.40
4:53	39.24	32.10	23.96	42.47	41.45	22.51	48.76	43.36	26.92	45.81	44.83	24.45	45.35	37.05	23.98	40.01	40.73	25.40
4:54	39.24	32.14	23.95	42.51	41.50	22.49	48.77	43.40	26.94	45.83	44.86	24.45	45.36	37.09	23.99	40.07	40.76	25.40
4:55	39.21	32.17	23.96	42.55	41.52	22.49	48.78	43.44	26.94	45.87	44.89	24.47	45.39	37.12	24.00	40.12	40.79	25.39
4:56	39.24	32.20	23.97	42.58	41.56	22.50	48.83	43.49	26.97	45.90	44.92	24.45	45.41	37.16	24.00	40.14	40.83	25.39
4:57	39.21	32.23	23.97	42.58	41.59	22.50	48.90	43.53	26.98	45.90	44.95	24.46	45.43	37.20	24.01	40.14	40.86	25.39
4:58	39.20	32.26	23.96	42.62	41.62	22.52	48.93	43.56	26.99	45.91	44.99	24.46	45.46	37.23	24.01	40.17	40.90	25.40
4:59	39.20	32.29	23.96	42.61	41.66	22.53	48.94	43.61	27.00	45.94	45.02	24.46	45.45	37.27	24.02	40.23	40.93	25.39
5:00	39.20	32.31	23.95	42.64	41.69	22.54	48.98	43.65	27.01	45.98	45.05	24.48	45.45	37.30	24.03	40.29	40.97	25.40
5:01	39.20	32.34	23.95	42.66	41.72	22.55	49.01	43.69	27.02	46.03	45.08	24.48	45.43	37.34	24.04	40.33	41.00	25.40
5:02	39.24	32.38	23.95	42.73	41.76	22.56	49.01	43.74	27.03	46.04	45.11	24.49	45.48	37.38	24.04	40.34	41.03	25.40
5:03	38.86	32.40	23.95	42.15	41.79	22.57	47.97	43.78	27.03	45.40	45.15	24.47	44.90	37.41	24.04	39.98	41.06	25.39
5:04	36.61	32.43	23.88	39.18	41.83	22.54	44.37	43.80	26.99	41.85	45.18	24.49	42.03	37.45	24.00	37.24	41.05	25.35
5:05	34.23	32.47	23.94	36.17	41.85	22.44	41.37	43.73	26.88	38.41	45.19	24.88	39.11	37.48	24.01	34.56	40.90	25.27
5:06	32.28	32.49	24.64	33.94	41.84	22.44	39.23	43.58	26.73	35.79	45.16	25.33	36.58	37.52	24.20	32.58	40.55	25.18
5:07	30.73	32.53	25.42	32.22	41.77	22.70	37.76	43.33	26.54	33.75	45.04	25.65	34.78	37.55	24.49	31.26	40.16	25.11
5:08	29.56	32.57	25.79	30.86	41.63	22.91	36.65	43.05	26.32	32.19	44.82	25.88	33.14	37.59	24.71	30.26	39.08	25.11
5:09	28.60	32.63	25.89	29.85	41.43	23.03	35.77	42.74	26.06	30.92	44.53	26.11	31.90	37.63	24.86	29.59	38.73	25.17
5:10	27.84	32.70	25.88	29.13	41.18	23.11	35.03	42.43	25.74	29.92	44.17	26.39	31.07	37.67	25.00	29.06	38.36	25.29
5:11	27.24	32.81	25.82	28.52	40.89	23.16	34.45	42.10	25.47	29.20	43.77	26.61	30.45	37.71	25.12	28.71	37.42	25.39
5:12	26.72	32.92	25.78	28.00	40.57	23.27	34.02	41.79	25.25	28.58	43.35	26.82	29.94	37.77	25.16	28.44	37.08	25.44
5:13	26.34	33.05	25.68	27.54	40.24	23.34	33.70	41.47	25.07	27.94	42.90	26.87	29.49	37.84	25.13	28.28	36.69	25.48
5:14	26.01	33.19	25.59	27.11	39.90	23.50	33.31	41.17	24.91	27.49	42.45	26.88	29.04	37.92	25.07	28.13	36.36	25.49
5:15	25.72	33.33	25.53	26.76	39.54	23.64	32.98	40.88	24.76	27.10	42.00	26.86	28.68	38.01	25.01	27.99	36.09	25.49
5:16	25.45	33.47	25.41	26.50	39.18	23.74	32.62	40.59	24.61	26.73	41.54	26.84	28.42	38.10	24.94	27.82	35.84	25.47
5:17	25.18	33.62	25.35	26.35	38.83	23.81	32.34	40.31	24.48	26.49	41.09	26.85	28.15	38.17	24.90	27.62	35.58	25.43
5:18	24.93	33.73	25.34	26.11	38.48	23.87	32.09	40.04	24.35	26.27	40.65	26.88	27.85	38.24	24.87	27.46	35.32	25.39
5:19	24.73	33.86	25.34	25.86	38.15	23.94	31.85	39.79	24.22	26.15	40.21	26.85	27.71	38.30	24.85	27.35	35.05	25.33
5:20	24.58	33.98	25.29	25.61	37.81	24.00	31.66	39.54	24.11	25.93	39.78	26.80	27.50	38.35	24.85	27.21	34.85	25.26
5:21	24.48	34.10	25.24	25.36	37.49	24.06	31.47	39.30	24.00	25.81	39.36	26.78	27.31	38.38	24.86	27.11	34.62	25.20
5:22	24.40	34.20	25.20	25.11	37.17	24.11	31.28	39.08	23.90	25.66	38.94	26.82	27.23	38.40	24.87	27.08	34.45	25.14
5:23	24.32	34.30	25.16	25.03	36.85	24.15	31.19	38.86	23.80	25.48	38.54	26.84	27.14	38.40	24.88	26.99	34.28	25.08
5:24	24.28	34.38	25.13	24.97	36.55	24.18	31.09	38.64	23.72	25.29	38.15	26.79	26.92	38.40	24.88	26.92	34.12	25.03
5:25	24.20	34.46	25.12	24.90	36.25	24.20	30.92	38.43	23.64	25.14	37.76	26.76	26.70	38.39	24.90	26.79	33.82	24.98
5:26	24.16	34.52	25.08	24.92	35.97	24.21	30.83	38.23	23.58	24.95	37.39	26.83	26.58	38.36	24.92	26.72	33.62	24.93
5:27	24.17	34.58	25.09	24.91	35.69	24.26	30.76	38.05	23.51	24.79	37.03	26.84	26.34	38.33	24.94	26.63	33.48	24.88
5:28	24.17	34.62	25.06	24.92	35.43	24.29	30.66	37.86	23.44	24.67	36.67	26.86	26.13	38.29	24.94	26.55	33.29	24.82
5:29	24.13	34.66	25.04	24.89	35.17	24.31	30.56	37.68	23.39	24.55	36.33	26.95	26.05	38.24	24.92	26.46	33.11	24.78
5:30	24.10	34.70	25.05	24.85	34.93	24.33	30.51	37.51	23.33	24.47	35.99	26.93	25.89	38.19	24.94	26.35	32.93	24.74
5:31	24.06	34.71	25.04	24.79	34.69	24.36	30.35	37.35	23.28	24.38	35.67	26.90	25.73	38.12	24.93	26.28	32.77	24.70
5:32	24.05	34.72	25.00	24.73	34.45	24.38	30.21	37.18	23.23	24.30	35.35	27.00	25.64	38.06	24.93	26.29	32.71	24.67
5:33	24.03	34.71	25.03	24.63	34.22	24.40	30.10	37.02	23.19	24.23	35.04	27.04	25.59	37.98	24.93	26.23	32.50	24.64
5:34	24.01	34.70	25.00	24.60	34.00	24.40	30.03	36.86	23.14	24.17	34.74	26.99	25.52	37.90	24.94	26.16	32.31	24.60
5:35	23.98	34.69	25.03	24.60	33.78	24.43	30.00	36.71	23.10	24.15	34.45	26.94	25.45	37.82	24.96	26.17	32.18	24.57
5:36	23.95	34.67	24.98	24.54	33.58	24.46	29.89	36.55	23.06	24.08	34.17	26.96	25.33	37.73	24.98	26.11	32.03	24.55
5:37	23.95	34.63	25.02	24.47	33.38	24.53	29.82	36.41	23.03	23.97	33.90	27.00	25.19	37.63	24.97	26.06	31.91	24.52
5:38	23.90	34.58	25.05	24.47	33.17	24.53	29.79	36.27	22.99	23.91	33.63	26.98	25.05	37.53	24.96	25.98	31.81	24.50
5:39	23.90	34.54	25.04	24.44	32.99	24.55	29.73	36.13	22.96	23.91	33.37	26.97	25.04	37.43	24.98	25.97	31.69	24.48
5:40	23.86	34.48	25.01	24.39	32.79	24.57	29.67	35.98	22.92	23.92	33.12	26.95	25.05	37.33	25.00	25.99	31.49	24.46
5:41	23.84	34.41	25.07	24.35	32.61	24.58	29.53	35.86	22.89	23.89	32.88	26.97	25.06	37.22	25.00	25.97	31.43	24.43
5:42	23.81	34.34	25.06	24.29	32.42	24.60	29.45	35.71	22.86	23.81	32.65	26.89	24.99	37.11	25.00	25.92	31.28	24.41
5:43	23.77	34.26	25.11	24.33	32.25	24.60	29.44	35.59	22.84	23.77	32.42	26.88	24.98	37.00	25.00	25.87	31.17	24.39
5:44	23.73	34.18	25.06	24.30	32.08	24.60	29.34	35.47	22.81	23.72	32.20	26.87	24.93	36.88	24.99	25.85	31.05	24.38
5:45	23.72	34.09	25.03	24.21	31.90	24.62	29.26	35.33	22.79	23.73	31.98	26.90	24.91	36.77	24.99	25.89	30.98	24.36
5:46	23.71	34.00	25.07	24.19	31.74	24.66	29.19	35.21	22.75	23.70	31.77	26.94						

5:51	23.49	33.48	25.09	23.93	30.96	24.78	28.73	34.58	22.61	23.49	30.81	26.97	24.49	36.06	25.05	25.59	30.32	24.20
5:52	23.49	33.38	25.08	23.91	30.81	24.82	28.67	34.46	22.59	23.44	30.63	26.93	24.46	35.94	25.05	25.55	30.22	24.17
5:53	23.47	33.26	25.03	23.86	30.67	24.82	28.57	34.35	22.54	23.39	30.45	26.91	24.38	35.82	25.04	25.52	30.11	24.14
5:54	23.41	33.15	25.03	23.73	30.52	24.87	28.48	34.23	22.52	23.33	30.28	26.89	24.30	35.70	25.02	25.45	30.01	24.11
5:55	23.37	33.04	25.04	23.70	30.38	24.89	28.41	34.12	22.50	23.30	30.12	26.83	24.25	35.58	25.02	25.42	29.93	24.09
5:56	23.31	32.92	25.03	23.58	30.24	24.90	28.36	34.01	22.48	23.21	29.95	26.83	24.12	35.46	25.00	25.33	29.81	24.06
5:57	23.32	32.80	25.00	23.58	30.11	24.93	28.34	33.89	22.45	23.13	29.80	26.85	24.04	35.34	25.02	25.21	29.78	24.04
5:58	23.29	32.67	25.03	23.57	29.97	24.97	28.27	33.78	22.42	23.11	29.64	26.82	24.00	35.22	25.03	25.19	29.62	24.01
5:59	23.21	32.53	25.04	23.59	29.84	24.97	28.19	33.67	22.39	23.15	29.49	26.84	23.98	35.10	25.02	25.16	29.49	23.98
6:00	23.16	32.40	25.03	23.61	29.70	24.97	28.16	33.56	22.36	23.14	29.34	26.83	23.96	34.97	25.03	25.16	29.45	23.95
6:01	23.13	32.25	24.99	23.60	29.58	24.98	28.05	33.45	22.34	23.13	29.20	26.80	23.93	34.86	25.03	25.15	29.30	23.93
6:02	23.13	32.12	24.96	23.56	29.46	24.97	27.94	33.34	22.32	23.13	29.06	26.79	23.94	34.74	25.05	25.16	29.24	23.90
6:03	23.09	31.99	24.95	23.53	29.34	24.96	27.91	33.23	22.30	23.11	28.93	26.79	23.96	34.62	25.06	25.16	29.12	23.87
6:04	23.00	31.88	25.27	23.51	29.23	24.94	27.87	33.14	22.26	23.06	28.80	26.95	23.99	34.50	25.12	25.23	29.06	23.85
6:05	22.97	31.80	25.53	23.53	29.14	24.84	27.91	33.04	22.24	23.00	28.68	27.01	24.04	34.38	25.23	25.31	29.01	23.82
6:06	22.92	31.73	25.55	23.58	29.06	24.63	27.92	32.97	22.22	22.97	28.57	26.90	24.12	34.27	25.29	25.42	28.95	23.80
6:07	22.89	31.65	25.44	23.65	29.00	24.40	27.96	32.89	22.20	22.96	28.49	26.68	24.20	34.17	25.29	25.52	28.90	23.77
6:08	22.88	31.60	25.24	23.72	28.92	24.19	27.99	32.82	22.20	22.99	28.41	26.42	24.25	34.07	25.24	25.64	28.85	23.75
6:09	22.86	31.54	24.99	23.75	28.88	23.99	28.02	32.75	22.18	23.01	28.34	26.13	24.32	33.97	25.15	25.76	28.81	23.72
6:10	22.85	31.47	24.77	23.78	28.82	23.79	28.08	32.70	22.16	23.03	28.28	25.83	24.41	33.88	25.03	25.87	28.77	23.70
6:11	22.89	31.41	24.55	23.83	28.76	23.58	28.18	32.63	22.13	23.06	28.23	25.54	24.40	33.79	24.90	25.92	28.73	23.67
6:12	22.92	31.35	24.36	23.92	28.71	23.37	28.20	32.57	22.13	23.10	28.19	25.27	24.45	33.71	24.76	25.97	28.68	23.65
6:13	22.94	31.28	24.18	23.99	28.67	23.17	28.24	32.51	22.12	23.11	28.14	25.01	24.51	33.62	24.63	26.01	28.64	23.63
6:14	22.96	31.21	24.02	24.01	28.61	22.98	28.22	32.45	22.10	23.13	28.10	24.78	24.55	33.54	24.49	26.08	28.59	23.61
6:15	22.98	31.15	23.84	24.07	28.57	22.78	28.26	32.39	22.10	23.17	28.06	24.55	24.58	33.46	24.34	26.14	28.55	23.58
6:16	22.97	31.09	23.69	24.14	28.52	22.61	28.26	32.31	22.06	23.21	28.03	24.34	24.61	33.38	24.19	26.12	28.50	23.56
6:17	22.97	31.04	23.53	24.20	28.47	22.44	28.28	32.25	22.05	23.24	27.99	24.15	24.65	33.31	24.05	26.14	28.45	23.54
6:18	22.99	30.98	23.36	24.25	28.43	22.27	28.31	32.19	22.02	23.23	27.96	23.96	24.69	33.23	23.90	26.13	28.41	23.52
6:19	23.00	30.92	23.22	24.27	28.39	22.13	28.34	32.13	22.00	23.27	27.93	23.79	24.72	33.16	23.75	26.15	28.36	23.50
6:20	23.01	30.86	23.08	24.30	28.35	21.98	28.34	32.06	21.96	23.26	27.90	23.62	24.72	33.09	23.62	26.13	28.31	23.48
6:21	23.00	30.81	22.96	24.31	28.31	21.86	28.29	32.00	21.93	23.25	27.87	23.48	24.76	33.02	23.48	26.14	28.26	23.46
6:22	22.99	30.76	22.86	24.30	28.27	21.75	28.25	31.93	21.91	23.27	27.84	23.35	24.76	32.95	23.35	26.14	28.21	23.44
6:23	23.01	30.70	22.73	24.25	28.23	21.65	28.24	31.87	21.88	23.29	27.81	23.23	24.77	32.88	23.24	26.15	28.17	23.42
6:24	22.99	30.65	22.62	24.25	28.18	21.56	28.19	31.82	21.87	23.28	27.78	23.13	24.78	32.81	23.13	26.14	28.12	23.40
6:25	23.00	30.60	22.52	24.24	28.14	21.47	28.18	31.75	21.85	23.31	27.75	23.03	24.81	32.75	23.02	26.15	28.07	23.37
6:26	22.99	30.55	22.45	24.20	28.10	21.37	28.17	31.69	21.83	23.30	27.73	22.93	24.82	32.68	22.91	26.13	28.02	23.35
6:27	22.99	30.51	22.36	24.22	28.07	21.29	28.17	31.62	21.81	23.33	27.70	22.84	24.81	32.62	22.82	26.09	27.97	23.33
6:28	23.00	30.45	22.28	24.24	28.03	21.23	28.14	31.57	21.78	23.34	27.67	22.75	24.82	32.55	22.72	26.07	27.92	23.30
6:29	23.00	30.40	22.23	24.22	27.98	21.17	28.09	31.50	21.76	23.34	27.65	22.68	24.77	32.49	22.63	26.02	27.87	23.28
6:30	23.00	30.35	22.16	24.23	27.94	21.12	28.06	31.44	21.75	23.34	27.62	22.60	24.76	32.43	22.55	25.96	27.82	23.25
6:31	23.00	30.31	22.08	24.27	27.90	21.05	28.05	31.38	21.72	23.33	27.60	22.54	24.81	32.37	22.47	25.95	27.77	23.23
6:32	22.99	30.26	22.00	24.26	27.86	21.00	27.98	31.33	21.70	23.31	27.57	22.48	24.80	32.31	22.40	25.90	27.72	23.21
6:33	22.99	30.22	21.94	24.27	27.83	20.96	27.91	31.26	21.69	23.30	27.55	22.44	24.79	32.25	22.33	25.87	27.67	23.18
6:34	22.98	30.18	21.87	24.17	27.78	20.91	27.84	31.21	21.67	23.29	27.52	22.39	24.78	32.20	22.27	25.83	27.62	23.16
6:35	22.98	30.13	21.80	24.15	27.75	20.87	27.77	31.15	21.66	23.27	27.50	22.33	24.77	32.14	22.20	25.82	27.56	23.13
6:36	22.99	30.08	21.74	24.13	27.71	20.85	27.72	31.08	21.64	23.23	27.48	22.27	24.73	32.09	22.14	25.77	27.51	23.10
6:37	22.98	30.04	21.68	24.13	27.67	20.82	27.64	31.03	21.63	23.20	27.45	22.22	24.71	32.03	22.09	25.74	27.46	23.08
6:38	23.01	29.99	21.63	24.11	27.63	20.78	27.56	30.97	21.61	23.19	27.43	22.17	24.69	31.98	22.03	25.70	27.41	23.06
6:39	23.02	29.96	21.58	24.05	27.59	20.75	27.48	30.91	21.59	23.19	27.40	22.13	24.65	31.92	21.98	25.67	27.36	23.04
6:40	23.00	29.91	21.53	24.01	27.55	20.72	27.37	30.85	21.58	23.19	27.38	22.08	24.62	31.87	21.93	25.61	27.30	23.02
6:41	22.99	29.87	21.48	24.04	27.52	20.70	27.30	30.80	21.56	23.19	27.36	22.04	24.63	31.82	21.89	25.59	27.25	22.99
6:42	22.98	29.83	21.43	24.04	27.48	20.67	27.26	30.74	21.55	23.19	27.33	22.00	24.66	31.77	21.84	25.56	27.20	22.97
6:43	23.00	29.79	21.40	24.07	27.44	20.66	27.21	30.69	21.53	23.18	27.31	21.96	24.65	31.71	21.80	25.54	27.15	22.95
6:44	22.99	29.74	21.36	24.09	27.40	20.64	27.15	30.63	21.51	23.17	27.29	21.92	24.65	31.66	21.75	25.50	27.11	22.93
6:45	23.00	29.71	21.32	24.03	27.37	20.62	27.11	30.58	21.50	23.17	27.27	21.89	24.68	31.61	21.71	25.46	27.06	22.91
6:46	22.99	29.67	21.28	24.02	27.32	20.59	27.06	30.53	21.47	23.20	27.24	21.86	24.67	31.56	21.67	25.40	27.01	22.89
6:47	22.99	29.63	21.25	24.02	27.29	20.56	27.03	30.47	21.45	23.19	27.22	21.83	24.61	31.52	21.63	25.30	26.97	22.86
6:48	23.01	29.59	21.22	24.01	27.25	20.54	27.00	30.42	21.44	23.20	27.20	21.79	24.52	31.47	21.60	25.22	26.92	22.84
6:49	23.03	29.55	21.19	24.02	27.22	20.51	26.97	30.37	21.41	23.19	27.18	21.76	24.47	31.42	21.56	25.16	26.87	22.83
6:50	23.02	29.52	21.17	24.04	27.18	20.50	26.93	30.31	21.40	23.17	27.15	21.73	24.45	31.37	21.53	25.12	26.81	22.81
6:51	23.02	29.47	21.13	24.04	27.15	20.49	26.91	30.26	21.38	23.15	27.13	21.71	24.42	31.32	21.50	25.08	26.76	22.79
6:52	23.00	29.43	21.10	24.06	27.11	20.46	26.86	30.21	21.36	23.14	27.11	21.68	24.39	31.28	21.46	25.05	26.71	22.77
6:53	22.99	29.39	21.09	24.03	27.08	20.46	26.82	30.15	21.35	23.15	27.09	21.65	24.40	31.23	21.43	25.02	26.66	22.75
6:54	22.98	29.36	21.07	24.00	27.04	20.45	26.75	30.10	21.33	23.13	27.06	21.63						

6:59	23.00	29.18	20.97	23.92	26.89	20.39	26.56	29.84	21.28	23.08	26.96	21.51	24.26	30.96	21.27	24.80	26.38	22.65
7:00	23.00	29.13	20.94	23.90	26.85	20.38	26.55	29.79	21.26	23.05	26.93	21.49	24.27	30.92	21.25	24.81	26.33	22.63
7:01	22.99	29.10	20.91	23.92	26.82	20.37	26.54	29.74	21.24	23.05	26.91	21.47	24.27	30.87	21.22	24.80	26.29	22.61
7:02	22.98	29.07	20.88	23.91	26.79	20.37	26.49	29.69	21.23	23.04	26.89	21.44	24.27	30.83	21.20	24.77	26.24	22.59
7:03	22.97	29.04	20.85	23.90	26.76	20.35	26.45	29.64	21.23	23.02	26.87	21.41	24.26	30.79	21.18	24.74	26.20	22.57
7:04	22.94	28.99	20.83	23.92	26.72	20.35	26.41	29.60	21.22	23.02	26.85	21.39	24.25	30.74	21.15	24.73	26.15	22.55
7:05	22.93	28.96	20.82	23.92	26.70	20.35	26.37	29.55	21.20	23.03	26.82	21.37	24.23	30.70	21.13	24.71	26.11	22.54
7:06	22.92	28.93	20.79	23.94	26.66	20.33	26.37	29.49	21.17	23.01	26.80	21.36	24.19	30.66	21.11	24.67	26.07	22.52
7:07	22.93	28.90	20.78	23.90	26.63	20.32	26.33	29.44	21.16	23.01	26.78	21.33	24.20	30.62	21.09	24.65	26.03	22.50
7:08	22.91	28.86	20.77	23.88	26.59	20.33	26.29	29.40	21.15	23.01	26.76	21.31	24.19	30.58	21.06	24.64	25.98	22.49
7:09	22.91	28.83	20.74	23.86	26.57	20.32	26.23	29.36	21.13	23.00	26.74	21.29	24.20	30.54	21.04	24.61	25.94	22.47
7:10	22.90	28.79	20.73	23.84	26.54	20.31	26.22	29.31	21.13	23.00	26.72	21.28	24.23	30.49	21.02	24.59	25.90	22.45
7:11	22.88	28.76	20.71	23.82	26.51	20.30	26.19	29.26	21.11	22.99	26.70	21.26	24.23	30.45	21.00	24.57	25.85	22.44
7:12	22.87	28.72	20.70	23.81	26.48	20.30	26.18	29.22	21.11	23.00	26.67	21.24	24.23	30.41	20.98	24.55	25.81	22.42
7:13	22.85	28.69	20.68	23.81	26.45	20.29	26.14	29.17	21.10	22.98	26.65	21.22	24.22	30.37	20.96	24.54	25.77	22.40
7:14	22.86	28.66	20.64	23.80	26.41	20.28	26.11	29.12	21.09	22.98	26.63	21.21	24.19	30.33	20.95	24.50	25.73	22.39
7:15	22.86	28.62	20.64	23.77	26.39	20.28	26.06	29.08	21.08	22.97	26.61	21.19	24.20	30.29	20.93	24.48	25.70	22.37

Appendix D

Test Two Results in Celsius

Time	Thermistors (1-18)																	
	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16	T17	T18
0:00	20.01	19.56	19.09	19.64	18.92	18.48	20.21	19.75	19.70	21.78	19.40	19.45	19.66	18.83	19.91	20.22	19.80	19.28
0:01	20.01	19.56	19.10	19.64	18.92	18.50	20.20	19.75	19.68	21.78	19.40	19.46	19.66	18.83	19.91	20.22	19.79	19.28
0:02	20.47	19.56	19.13	19.92	18.91	18.52	20.61	19.75	19.70	21.78	19.42	19.51	19.96	18.83	19.91	20.65	19.79	19.31
0:03	21.35	19.57	19.20	20.63	18.93	18.55	21.51	19.75	19.82	21.78	19.41	19.64	20.64	18.83	19.92	21.53	19.79	19.39
0:04	22.23	19.56	19.29	21.40	18.99	18.58	22.45	19.76	19.96	22.35	19.41	19.81	21.35	18.82	19.94	22.42	19.81	19.49
0:05	23.07	19.56	19.38	22.12	19.08	18.62	23.36	19.78	20.12	23.37	19.41	19.99	22.03	18.83	19.96	23.28	19.84	19.61
0:06	23.85	19.56	19.49	22.80	19.21	18.67	24.22	19.83	20.28	24.37	19.41	20.19	22.63	18.83	19.99	24.11	19.88	19.72
0:07	24.54	19.56	19.59	23.41	19.34	18.72	25.01	19.89	20.44	25.35	19.41	20.38	23.20	18.84	20.03	24.87	19.96	19.84
0:08	25.19	19.57	19.69	23.98	19.49	18.78	25.77	19.97	20.62	26.26	19.42	20.56	23.74	18.86	20.07	25.59	20.06	19.96
0:09	25.78	19.56	19.79	24.49	19.65	18.85	26.46	20.07	20.80	27.12	19.41	20.75	24.22	18.88	20.11	26.27	20.17	20.09
0:10	26.29	19.57	19.89	24.97	19.80	18.92	27.10	20.17	20.96	27.92	19.43	20.95	24.69	18.91	20.16	26.89	20.30	20.21
0:11	26.80	19.57	19.99	25.42	19.96	18.98	27.70	20.31	21.12	28.69	19.42	21.13	25.13	18.92	20.21	27.46	20.43	20.35
0:12	27.30	19.58	20.08	25.85	20.13	19.05	28.26	20.43	21.26	29.39	19.42	21.31	25.53	18.96	20.26	27.99	20.59	20.48
0:13	27.75	19.59	20.17	26.22	20.27	19.12	28.78	20.56	21.41	30.02	19.44	21.49	25.92	18.99	20.31	28.52	20.74	20.60
0:14	28.19	19.59	20.27	26.59	20.42	19.20	29.30	20.72	21.54	30.62	19.44	21.65	26.28	19.04	20.37	28.99	20.91	20.72
0:15	28.58	19.61	20.36	26.95	20.57	19.26	29.77	20.86	21.67	31.17	19.45	21.82	26.60	19.07	20.42	29.43	21.08	20.84
0:16	28.97	19.63	20.44	27.26	20.72	19.34	30.22	21.00	21.81	31.64	19.46	21.97	26.89	19.11	20.48	29.86	21.25	20.96
0:17	29.35	19.64	20.53	27.58	20.86	19.40	30.63	21.16	21.91	32.11	19.48	22.12	27.15	19.17	20.54	30.28	21.43	21.08
0:18	29.68	19.67	20.60	27.85	21.01	19.46	31.04	21.31	22.02	32.57	19.49	22.28	27.40	19.22	20.60	30.67	21.60	21.20
0:19	29.96	19.70	20.68	28.11	21.14	19.53	31.46	21.47	22.13	33.05	19.51	22.41	27.66	19.28	20.65	31.03	21.78	21.31
0:20	30.28	19.72	20.76	28.37	21.27	19.59	31.84	21.62	22.22	33.50	19.53	22.55	27.91	19.33	20.72	31.40	21.96	21.43
0:21	30.56	19.74	20.82	28.58	21.42	19.65	32.19	21.77	22.32	33.91	19.55	22.67	28.12	19.40	20.77	31.73	22.14	21.55
0:22	30.81	19.78	20.88	28.77	21.55	19.72	32.50	21.93	22.41	34.27	19.57	22.78	28.32	19.45	20.84	32.06	22.31	21.65
0:23	31.06	19.82	20.95	28.95	21.68	19.78	32.79	22.09	22.48	34.60	19.60	22.91	28.54	19.52	20.90	32.38	22.47	21.75
0:24	31.30	19.86	21.00	29.16	21.82	19.84	33.10	22.23	22.56	34.93	19.63	23.03	28.72	19.58	20.96	32.72	22.65	21.84
0:25	31.57	19.90	21.06	29.33	21.95	19.90	33.38	22.39	22.61	35.24	19.66	23.14	28.89	19.65	21.01	33.00	22.82	21.94
0:26	31.79	19.95	21.11	29.49	22.07	19.97	33.61	22.55	22.66	35.51	19.70	23.24	29.04	19.71	21.08	33.26	22.99	22.02
0:27	31.97	19.99	21.16	29.65	22.19	20.03	33.86	22.69	22.71	35.79	19.74	23.34	29.19	19.79	21.13	33.53	23.16	22.10
0:28	32.17	20.03	21.21	29.78	22.32	20.09	34.10	22.86	22.76	36.05	19.76	23.43	29.30	19.86	21.20	33.82	23.33	22.19
0:29	32.38	20.08	21.25	29.93	22.44	20.14	34.31	23.01	22.83	36.28	19.81	23.51	29.43	19.93	21.26	34.06	23.50	22.24
0:30	32.56	20.12	21.31	30.08	22.56	20.20	34.52	23.15	22.90	36.53	19.85	23.59	29.56	20.00	21.31	34.28	23.66	22.32
0:31	32.77	20.18	21.34	30.21	22.68	20.27	34.71	23.30	22.96	36.74	19.90	23.67	29.68	20.08	21.36	34.47	23.82	22.39
0:32	32.95	20.23	21.39	30.34	22.79	20.32	34.92	23.44	23.01	36.92	19.93	23.74	29.78	20.15	21.43	34.65	23.99	22.45
0:33	33.11	20.29	21.42	30.48	22.91	20.38	35.11	23.59	23.07	37.12	19.98	23.78	29.85	20.22	21.47	34.84	24.14	22.51
0:34	33.26	20.35	21.45	30.61	23.02	20.43	35.30	23.74	23.12	37.36	20.03	23.85	29.98	20.30	21.53	35.06	24.31	22.57
0:35	33.39	20.40	21.49	30.73	23.14	20.49	35.49	23.89	23.15	37.54	20.08	23.91	30.11	20.37	21.58	35.26	24.46	22.63
0:36	33.54	20.45	21.53	30.85	23.25	20.55	35.65	24.03	23.17	37.70	20.13	23.99	30.20	20.45	21.63	35.46	24.61	22.68
0:37	33.66	20.52	21.55	30.97	23.36	20.60	35.78	24.17	23.21	37.86	20.18	24.03	30.29	20.53	21.69	35.59	24.77	22.72
0:38	33.77	20.57	21.58	31.04	23.47	20.66	35.89	24.32	23.24	38.01	20.23	24.09	30.39	20.61	21.73	35.75	24.92	22.76
0:39	33.88	20.63	21.61	31.15	23.58	20.72	36.01	24.45	23.27	38.17	20.28	24.14	30.51	20.69	21.77	35.90	25.08	22.81
0:40	34.01	20.69	21.65	31.25	23.69	20.78	36.15	24.59	23.30	38.32	20.34	24.20	30.61	20.76	21.81	36.10	25.23	22.86
0:41	34.12	20.75	21.67	31.34	23.80	20.83	36.29	24.73	23.33	38.45	20.39	24.25	30.70	20.84	21.86	36.18	25.38	22.91

0:42	34.20	20.81	21.70	31.42	23.91	20.89	36.42	24.86	23.37	38.60	20.45	24.31	30.80	20.93	21.89	36.25	25.53	22.96
0:43	34.27	20.88	21.73	31.53	24.01	20.95	36.56	25.01	23.43	38.72	20.50	24.37	30.90	21.00	21.93	36.33	25.67	22.99
0:44	34.37	20.94	21.76	31.64	24.12	21.01	36.69	25.15	23.46	38.86	20.56	24.41	30.97	21.08	21.97	36.48	25.81	23.04
0:45	34.46	21.01	21.78	31.76	24.23	21.07	36.84	25.29	23.48	38.99	20.62	24.48	31.05	21.17	22.00	36.61	25.96	23.08
0:46	34.57	21.07	21.80	31.86	24.34	21.12	36.95	25.42	23.51	39.12	20.68	24.54	31.13	21.24	22.05	36.73	26.10	23.11
0:47	34.67	21.13	21.83	31.94	24.44	21.19	37.05	25.56	23.54	39.22	20.74	24.60	31.24	21.32	22.08	36.88	26.25	23.16
0:48	34.74	21.20	21.84	32.01	24.54	21.26	37.16	25.69	23.59	39.35	20.80	24.66	31.30	21.40	22.12	36.95	26.39	23.20
0:49	34.82	21.26	21.86	32.08	24.64	21.34	37.23	25.82	23.63	39.47	20.86	24.71	31.39	21.48	22.15	37.06	26.52	23.24
0:50	34.91	21.32	21.88	32.15	24.74	21.40	37.31	25.95	23.67	39.60	20.91	24.76	31.49	21.56	22.20	37.21	26.67	23.28
0:51	34.96	21.40	21.91	32.23	24.85	21.47	37.37	26.08	23.71	39.74	20.98	24.82	31.55	21.64	22.23	37.34	26.81	23.31
0:52	35.02	21.46	21.93	32.29	24.96	21.54	37.42	26.22	23.75	39.83	21.05	24.86	31.56	21.72	22.26	37.46	26.94	23.35
0:53	35.07	21.52	21.94	32.35	25.05	21.61	37.52	26.35	23.78	39.89	21.11	24.89	31.62	21.80	22.30	37.55	27.09	23.38
0:54	35.12	21.59	21.97	32.42	25.15	21.67	37.60	26.49	23.82	39.99	21.17	24.94	31.64	21.87	22.33	37.65	27.22	23.42
0:55	35.21	21.65	21.99	32.48	25.24	21.74	37.67	26.60	23.85	40.04	21.23	24.97	31.70	21.96	22.36	37.65	27.35	23.44
0:56	35.30	21.72	22.00	32.55	25.34	21.81	37.76	26.73	23.88	40.12	21.29	24.98	31.76	22.03	22.38	37.69	27.48	23.47
0:57	35.39	21.79	22.01	32.63	25.43	21.86	37.81	26.86	23.92	40.21	21.35	24.98	31.81	22.11	22.40	37.77	27.62	23.49
0:58	35.44	21.86	22.04	32.71	25.53	21.93	37.89	26.98	23.96	40.28	21.42	24.97	31.88	22.19	22.44	37.82	27.74	23.51
0:59	35.49	21.94	22.06	32.78	25.62	21.99	37.98	27.12	23.99	40.45	21.48	24.99	31.95	22.27	22.45	37.90	27.87	23.54
1:00	35.57	22.00	22.06	32.86	25.72	22.02	38.06	27.23	24.02	40.51	21.55	25.01	32.02	22.34	22.47	38.01	28.00	23.56
1:01	35.64	22.06	22.07	32.94	25.81	22.09	38.14	27.36	24.05	40.59	21.61	25.02	32.07	22.42	22.49	38.09	28.13	23.57
1:02	35.72	22.13	22.09	33.02	25.91	22.14	38.22	27.49	24.09	40.74	21.67	25.03	32.12	22.51	22.51	38.14	28.26	23.60
1:03	35.79	22.20	22.09	33.10	26.00	22.20	38.33	27.60	24.11	40.87	21.74	25.05	32.17	22.59	22.54	38.21	28.38	23.62
1:04	35.83	22.26	22.10	33.17	26.09	22.24	38.41	27.72	24.13	40.98	21.81	25.06	32.19	22.67	22.55	38.27	28.51	23.63
1:05	35.85	22.34	22.11	33.25	26.19	22.29	38.50	27.84	24.16	41.04	21.87	25.08	32.23	22.73	22.57	38.33	28.63	23.66
1:06	35.89	22.40	22.13	33.33	26.27	22.34	38.56	27.96	24.17	41.17	21.92	25.11	32.27	22.82	22.59	38.43	28.76	23.69
1:07	35.93	22.47	22.12	33.39	26.37	22.38	38.63	28.08	24.20	41.31	22.00	25.15	32.31	22.89	22.61	38.49	28.87	23.72
1:08	35.97	22.53	22.13	33.41	26.46	22.43	38.67	28.20	24.21	41.41	22.06	25.19	32.36	22.96	22.63	38.55	29.00	23.77
1:09	36.03	22.60	22.14	33.48	26.55	22.48	38.72	28.32	24.24	41.51	22.12	25.21	32.43	23.05	22.65	38.57	29.12	23.81
1:10	36.10	22.66	22.15	33.56	26.64	22.52	38.76	28.43	24.25	41.61	22.19	25.23	32.47	23.11	22.66	38.63	29.24	23.84
1:11	36.16	22.73	22.17	33.62	26.73	22.56	38.82	28.54	24.26	41.73	22.25	25.24	32.51	23.19	22.69	38.65	29.36	23.88
1:12	36.18	22.80	22.17	33.67	26.82	22.61	38.89	28.66	24.27	41.85	22.32	25.26	32.58	23.27	22.70	38.71	29.47	23.89
1:13	36.21	22.87	22.17	33.72	26.90	22.64	38.97	28.77	24.27	41.92	22.39	25.28	32.61	23.34	22.72	38.79	29.60	23.90
1:14	36.24	22.94	22.18	33.75	26.98	22.69	39.03	28.88	24.28	42.00	22.45	25.29	32.65	23.41	22.74	38.82	29.71	23.91
1:15	36.28	23.01	22.19	33.80	27.08	22.72	39.08	29.00	24.30	42.09	22.51	25.32	32.73	23.49	22.75	38.89	29.82	23.92
1:16	36.33	23.07	22.19	33.84	27.17	22.76	39.16	29.10	24.33	42.14	22.58	25.35	32.76	23.57	22.77	38.99	29.94	23.92
1:17	36.37	23.13	22.19	33.89	27.26	22.80	39.22	29.21	24.34	42.21	22.64	25.37	32.80	23.64	22.79	39.07	30.05	23.94
1:18	36.40	23.21	22.18	33.94	27.33	22.83	39.28	29.32	24.36	42.30	22.71	25.37	32.83	23.71	22.80	39.14	30.16	23.95
1:19	36.44	23.27	22.20	33.98	27.42	22.86	39.33	29.43	24.38	42.35	22.77	25.38	32.86	23.78	22.82	39.20	30.27	23.97
1:20	36.47	23.35	22.20	34.03	27.50	22.89	39.37	29.54	24.40	42.41	22.84	25.40	32.87	23.85	22.84	39.25	30.38	23.99
1:21	36.52	23.41	22.22	34.09	27.58	22.92	39.42	29.64	24.41	42.46	22.90	25.44	32.89	23.93	22.86	39.29	30.49	24.00
1:22	36.52	23.47	22.21	34.14	27.66	22.95	39.50	29.75	24.41	42.49	22.96	25.46	32.93	24.00	22.88	39.31	30.60	24.01
1:23	36.54	23.54	22.17	34.17	27.75	22.98	39.55	29.85	24.41	42.55	23.03	25.50	32.98	24.07	22.89	39.37	30.71	24.03
1:24	36.55	23.61	22.14	34.23	27.84	23.00	39.62	29.96	24.43	42.61	23.09	25.52	33.01	24.14	22.91	39.42	30.81	24.05
1:25	36.57	23.67	22.15	34.28	27.92	23.03	39.66	30.06	24.43	42.67	23.16	25.55	33.03	24.21	22.93	39.46	30.92	24.08
1:26	36.61	23.74	22.14	34.32	27.99	23.05	39.71	30.16	24.45	42.68	23.22	25.56	33.10	24.28	22.95	39.48	31.02	24.10
1:27	36.64	23.80	22.13	34.36	28.07	23.08	39.76	30.26	24.48	42.78	23.28	25.59	33.16	24.35	22.96	39.54	31.13	24.10
1:28	36.69	23.87	22.13	34.39	28.16	23.11	39.80	30.37	24.51	42.84	23.34	25.62	33.19	24.42	22.99	39.61	31.23	24.12
1:29	36.70	23.93	22.14	34.43	28.23	23.13	39.87	30.47	24.55	42.90	23.41	25.63	33.21	24.49	23.00	39.64	31.33	24.13
1:30	36.76	24.00	22.15	34.50	28.32	23.15	39.93	30.57	24.58	43.01	23.47	25.64	33.27	24.57	23.02	39.71	31.43	24.15
1:31	36.82	24.06	22.15	34.56	28.40	23.18	39.98	30.67	24.61	43.11	23.52	25.66	33.30	24.63	23.03	39.77	31.53	24.17
1:32	36.88	24.12	22.15	34.61	28.48	23.21	40.07	30.77	24.65	43.15	23.59	25.66	33.34	24.70	23.05	39.74	31.63	24.19
1:33	36.94	24.19	22.15	34.65	28.56	23.23	40.14	30.86	24.67	43.20	23.65	25.69	33.37	24.76	23.06	39.72	31.72	24.20
1:34	36.97	24.25	22.15	34.69	28.64	23.26	40.22	30.97	24.70	43.30	23.72	25.71	33.41	24.83	23.07	39.75	31.82	24.23
1:35	36.98	24.32	22.14	34.74	28.71	23.28	40.28	31.07	24.74	43.37	23.78	25.74	33.44	24.90	23.10	39.79	31.92	24.25
1:36	37.03	24.38	22.15	34.82	28.79	23.31	40.34	31.16	24.74	43.49	23.85	25.76	33.50	24.97	23.12	39.89	32.02	24.25
1:37	37.08	24.44	22.16	34.86	28.87	23.34	40.38	31.26	24.73	43.55	23.90	25.77	33.55	25.03	23.13	39.96	32.12	24.27
1:38	37.10	24.51	22.16	34.89	28.94	23.35	40.43	31.34	24.73	43.58	23.97	25.80	33.58	25.10	23.14	40.00	32.21	24.28
1:39	37.13	24.57	22.17	34.90	29.01	23.38	40.46	31.45	24.75	43.64	24.02	25.81	33.60	25.17	23.16	39.98	32.31	24.30
1:40	37.20	24.63	22.18	34.96	29.10	23.39	40.53	31.54	24.76	43.73	24.09	25.82	33.64	25.23	23.18	39.99	32.41	24.32
1:41	37.28	24.70	22.18	34.99	29.17	23.42	40.57	31.64	24.79	43.77	24.15	25.86	33.67	25.30	23.20	40.05	32.50	24.33
1:42	37.35	24.76	22.17	35.06	29.25	23.44	40.62	31.73	24.81	43.82	24.21	25.88	33.69	25.36	23.21	40.14	32.59	24.35
1:43	37.41	24.83	22.18	35.08	29.32	23.46	40.67	31.82	24.84	43.89	24.27	25.91	33.72	25.43	23.23	40.22	32.69	24.35
1:44	37.48	24.89	22.19	35.12	29.40	23.50	40.69	31.91	24.88	43.97	24.34	25.91	33.75	25.50	23.25	40.23	32.78	24.35
1:45	37.53	24.95	22.19	35.16	29.46	23.51	40.71	32.01	24.91	43.99	24.40	25.93						

1:50	37.63	25.27	22.20	35.40	29.83	23.60	40.89	32.45	25.02	44.22	24.70	26.01	33.88	25.87	23.35	40.39	33.33	24.45
1:51	37.66	25.31	22.20	35.43	29.90	23.63	40.93	32.54	25.04	44.22	24.76	26.02	33.91	25.94	23.37	40.38	33.41	24.45
1:52	37.70	25.38	22.20	35.46	29.97	23.65	40.97	32.63	25.04	44.27	24.82	26.02	33.94	26.00	23.38	40.41	33.50	24.46
1:53	37.72	25.44	22.19	35.50	30.05	23.66	41.05	32.71	25.02	44.33	24.88	26.04	33.97	26.06	23.39	40.43	33.59	24.47
1:54	37.74	25.51	22.19	35.54	30.11	23.68	41.10	32.80	25.01	44.41	24.93	26.06	34.05	26.13	23.41	40.49	33.68	24.48
1:55	37.74	25.57	22.19	35.57	30.18	23.70	41.15	32.89	25.01	44.37	24.99	26.08	34.07	26.18	23.43	40.54	33.76	24.49
1:56	37.77	25.63	22.20	35.63	30.25	23.71	41.17	32.97	25.02	44.40	25.05	26.10	34.11	26.25	23.45	40.56	33.85	24.50
1:57	37.81	25.69	22.21	35.67	30.32	23.72	41.18	33.06	25.03	44.44	25.11	26.11	34.13	26.30	23.46	40.55	33.93	24.50
1:58	37.86	25.74	22.20	35.74	30.39	23.75	41.21	33.14	25.03	44.50	25.17	26.11	34.16	26.36	23.47	40.57	34.02	24.51
1:59	37.91	25.80	22.21	35.78	30.45	23.76	41.24	33.22	25.05	44.56	25.23	26.12	34.17	26.42	23.48	40.59	34.10	24.51
2:00	37.92	25.87	22.21	35.82	30.53	23.78	41.28	33.31	25.04	44.62	25.29	26.12	34.18	26.48	23.49	40.62	34.18	24.52
2:01	37.96	25.92	22.21	35.86	30.59	23.81	41.34	33.39	25.04	44.68	25.34	26.13	34.22	26.54	23.51	40.63	34.26	24.52
2:02	38.00	25.98	22.21	35.90	30.66	23.82	41.38	33.47	25.04	44.71	25.40	26.14	34.27	26.60	23.52	40.62	34.35	24.53
2:03	38.02	26.05	22.21	35.96	30.73	23.84	41.40	33.56	25.04	44.75	25.46	26.17	34.30	26.66	23.54	40.61	34.43	24.54
2:04	38.04	26.11	22.21	35.99	30.79	23.86	41.45	33.63	25.05	44.78	25.53	26.19	34.34	26.72	23.55	40.64	34.50	24.54
2:05	38.02	26.16	22.24	36.01	30.86	23.86	41.51	33.71	25.07	44.83	25.58	26.20	34.37	26.78	23.56	40.72	34.59	24.55
2:06	38.00	26.22	22.22	36.04	30.92	23.88	41.55	33.79	25.08	44.84	25.63	26.23	34.41	26.83	23.57	40.77	34.66	24.57
2:07	38.04	26.28	22.19	36.07	30.99	23.89	41.58	33.88	25.09	44.92	25.69	26.24	34.46	26.89	23.58	40.77	34.75	24.58
2:08	38.08	26.34	22.17	36.10	31.05	23.91	41.59	33.95	25.09	44.95	25.75	26.25	34.50	26.95	23.59	40.77	34.82	24.59
2:09	38.06	26.39	22.16	36.13	31.11	23.93	41.62	34.04	25.07	44.99	25.80	26.29	34.51	27.01	23.60	40.85	34.89	24.61
2:10	38.09	26.45	22.14	36.17	31.18	23.93	41.66	34.11	25.07	45.06	25.86	26.30	34.54	27.06	23.61	40.95	34.98	24.62
2:11	38.12	26.51	22.13	36.20	31.24	23.94	41.70	34.18	25.08	45.09	25.92	26.32	34.56	27.13	23.62	41.03	35.05	24.62
2:12	38.18	26.56	22.12	36.25	31.31	23.96	41.75	34.26	25.09	45.07	25.97	26.34	34.55	27.17	23.63	41.07	35.13	24.62
2:13	38.25	26.62	22.12	36.27	31.37	23.97	41.78	34.33	25.11	45.11	26.03	26.35	34.59	27.23	23.64	41.07	35.20	24.63
2:14	38.28	26.68	22.12	36.28	31.43	23.99	41.79	34.42	25.14	45.12	26.09	26.37	34.61	27.28	23.66	41.07	35.28	24.65
2:15	38.30	26.74	22.12	36.34	31.50	24.00	41.82	34.49	25.15	45.16	26.14	26.41	34.64	27.34	23.66	41.05	35.36	24.67
2:16	38.31	26.80	22.12	36.40	31.56	24.01	41.83	34.57	25.17	45.22	26.19	26.44	34.68	27.40	23.69	41.14	35.43	24.68
2:17	38.35	26.85	22.12	36.45	31.62	24.02	41.86	34.63	25.20	45.25	26.25	26.45	34.69	27.45	23.70	41.14	35.50	24.69
2:18	38.38	26.91	22.12	36.51	31.68	24.04	41.89	34.71	25.20	45.27	26.31	26.49	34.72	27.51	23.70	41.18	35.58	24.70
2:19	38.42	26.96	22.12	36.56	31.75	24.06	41.95	34.79	25.21	45.29	26.36	26.50	34.76	27.56	23.72	41.24	35.66	24.72
2:20	38.47	27.02	22.13	36.59	31.81	24.07	42.02	34.86	25.22	45.24	26.41	26.53	34.79	27.61	23.73	41.32	35.73	24.73
2:21	38.48	27.08	22.14	36.64	31.87	24.08	42.05	34.94	25.23	45.20	26.47	26.55	34.83	27.66	23.74	41.36	35.80	24.74
2:22	38.54	27.13	22.15	36.69	31.93	24.11	42.07	35.01	25.24	45.20	26.52	26.57	34.88	27.72	23.76	41.42	35.88	24.74
2:23	38.55	27.19	22.15	36.73	31.99	24.12	42.10	35.08	25.24	45.20	26.57	26.58	34.90	27.77	23.78	41.51	35.95	24.76
2:24	38.58	27.24	22.15	36.74	32.05	24.13	42.17	35.15	25.23	45.17	26.62	26.61	34.94	27.82	23.79	41.59	36.03	24.77
2:25	38.64	27.29	22.16	36.77	32.11	24.15	42.21	35.22	25.22	45.15	26.68	26.62	34.97	27.88	23.79	41.54	36.10	24.77
2:26	38.68	27.35	22.15	36.79	32.18	24.15	42.26	35.29	25.23	45.13	26.73	26.63	35.00	27.93	23.81	41.54	36.17	24.79
2:27	38.73	27.41	22.16	36.83	32.22	24.17	42.26	35.37	25.24	45.03	26.79	26.64	35.03	27.99	23.81	41.52	36.24	24.80
2:28	38.77	27.47	22.16	36.88	32.29	24.18	42.28	35.44	25.26	44.95	26.84	26.65	35.07	28.03	23.83	41.56	36.31	24.81
2:29	38.79	27.51	22.15	36.91	32.34	24.19	42.30	35.51	25.27	44.90	26.89	26.68	35.13	28.08	23.84	41.62	36.38	24.82
2:30	38.80	27.57	22.17	36.95	32.40	24.21	42.31	35.58	25.28	44.90	26.94	26.69	35.16	28.14	23.85	41.67	36.45	24.82
2:31	38.79	27.62	22.17	36.98	32.46	24.21	42.34	35.65	25.26	44.97	26.99	26.70	35.17	28.19	23.87	41.66	36.52	24.82
2:32	38.81	27.67	22.19	37.03	32.52	24.22	42.38	35.72	25.25	45.01	27.04	26.72	35.20	28.24	23.88	41.64	36.58	24.83
2:33	38.82	27.73	22.19	37.07	32.57	24.23	42.41	35.79	25.24	45.09	27.10	26.74	35.22	28.29	23.88	41.63	36.66	24.84
2:34	38.84	27.78	22.20	37.11	32.64	24.24	42.46	35.85	25.25	45.18	27.15	26.75	35.24	28.34	23.89	41.62	36.73	24.84
2:35	38.87	27.84	22.20	37.15	32.68	24.26	42.51	35.92	25.27	45.22	27.20	26.77	35.27	28.39	23.90	41.65	36.79	24.84
2:36	38.91	27.90	22.19	37.19	32.75	24.28	42.55	35.99	25.29	45.16	27.25	26.78	35.29	28.44	23.90	41.66	36.86	24.85
2:37	38.96	27.95	22.20	37.21	32.79	24.29	42.59	36.05	25.31	45.14	27.30	26.80	35.31	28.49	23.92	41.68	36.92	24.86
2:38	39.01	28.00	22.20	37.23	32.86	24.31	42.60	36.11	25.34	45.12	27.36	26.84	35.34	28.54	23.92	41.72	36.99	24.87
2:39	39.03	28.05	22.22	37.23	32.91	24.32	42.62	36.18	25.36	45.15	27.41	26.86	35.38	28.59	23.94	41.77	37.05	24.88
2:40	39.07	28.10	22.23	37.25	32.97	24.33	42.62	36.25	25.38	45.26	27.46	26.90	35.43	28.64	23.95	41.83	37.12	24.89
2:41	39.10	28.16	22.28	37.30	33.02	24.34	42.62	36.32	25.41	45.31	27.51	26.91	35.49	28.68	23.96	41.88	37.19	24.90
2:42	39.12	28.21	22.26	37.36	33.08	24.35	42.65	36.38	25.42	45.38	27.56	26.94	35.48	28.74	23.97	41.94	37.24	24.91
2:43	39.15	28.26	22.24	37.42	33.14	24.36	42.69	36.45	25.44	45.43	27.61	26.96	35.51	28.78	23.98	41.95	37.31	24.91
2:44	39.22	28.31	22.22	37.44	33.19	24.37	42.75	36.51	25.45	45.45	27.66	26.97	35.55	28.84	23.99	41.91	37.37	24.93
2:45	39.25	28.37	22.21	37.47	33.25	24.38	42.78	36.57	25.44	45.41	27.71	27.00	35.58	28.89	24.00	41.93	37.44	24.93
2:46	39.28	28.42	22.20	37.49	33.30	24.38	42.78	36.65	25.43	45.42	27.76	27.01	35.58	28.93	24.01	42.00	37.49	24.92
2:47	39.31	28.47	22.19	37.55	33.35	24.41	42.81	36.71	25.43	45.46	27.81	27.03	35.59	28.98	24.02	42.01	37.56	24.93
2:48	39.33	28.52	22.19	37.56	33.40	24.42	42.87	36.77	25.45	45.51	27.86	27.05	35.62	29.03	24.03	41.99	37.62	24.93
2:49	39.32	28.57	22.20	37.60	33.46	24.42	42.91	36.83	25.46	45.52	27.90	27.07	35.65	29.07	24.04	41.99	37.68	24.93
2:50	39.35	28.62	22.20	37.63	33.51	24.44	42.96	36.90	25.48	45.61	27.95	27.10	35.69	29.12	24.05	41.98	37.75	24.94
2:51	39.35	28.68	22.19	37.65	33.56	24.44	42.98	36.95	25.50	45.67	28.00	27.12	35.72	29.18	24.06	41.94	37.80	24.95
2:52	39.34	28.73	22.19	37.68	33.61	24.44	42.97	37.02	25.52	45.75	28.05	27.13	35.75	29.22	24.08	41.98	37.86	24.97
2:53	39.37	28.78	22.19	37.69	33.67	24.46	43.00	37.07	25.51	45.80	28.10	27.16						

2:58	39.45	29.03	22.22	37.82	33.92	24.50	43.09	37.38	25.53	45.87	28.34	27.26	35.83	29.49	24.14	42.18	38.22	25.02
2:59	39.44	29.08	22.24	37.79	33.98	24.51	43.09	37.44	25.55	45.91	28.38	27.27	35.89	29.54	24.15	42.19	38.28	25.02
3:00	39.45	29.13	22.25	37.83	34.03	24.53	43.12	37.50	25.56	45.97	28.43	27.30	35.94	29.59	24.16	42.20	38.33	25.03
3:01	39.48	29.18	22.25	37.88	34.07	24.54	43.18	37.56	25.59	45.97	28.48	27.30	35.99	29.63	24.16	42.19	38.38	25.04
3:02	39.52	29.23	22.25	37.92	34.12	24.55	43.20	37.63	25.59	46.00	28.52	27.32	36.03	29.68	24.17	42.19	38.45	25.05
3:03	39.53	29.27	22.25	37.95	34.17	24.55	43.20	37.68	25.61	45.99	28.57	27.35	36.07	29.72	24.18	42.26	38.50	25.07
3:04	39.54	29.32	22.25	38.00	34.22	24.57	43.26	37.73	25.63	46.01	28.62	27.36	36.10	29.76	24.20	42.32	38.56	25.07
3:05	39.56	29.37	22.25	38.06	34.27	24.58	43.29	37.80	25.63	46.07	28.67	27.37	36.15	29.81	24.21	42.30	38.61	25.08
3:06	39.56	29.42	22.26	38.09	34.32	24.60	43.30	37.86	25.63	46.07	28.71	27.38	36.17	29.85	24.22	42.33	38.66	25.09
3:07	39.61	29.47	22.27	38.14	34.37	24.62	43.34	37.91	25.61	46.12	28.76	27.39	36.17	29.90	24.23	42.36	38.72	25.09
3:08	39.66	29.52	22.26	38.17	34.42	24.62	43.36	37.97	25.60	46.20	28.80	27.39	36.18	29.94	24.24	42.38	38.78	25.09
3:09	39.72	29.56	22.27	38.21	34.46	24.64	43.37	38.03	25.60	46.22	28.85	27.40	36.19	29.98	24.24	42.35	38.83	25.10
3:10	39.75	29.61	22.27	38.25	34.51	24.65	43.39	38.09	25.61	46.22	28.89	27.41	36.21	30.03	24.25	42.33	38.88	25.11
3:11	39.79	29.66	22.29	38.26	34.56	24.66	43.41	38.14	25.63	46.25	28.94	27.41	36.22	30.07	24.26	42.34	38.93	25.10
3:12	39.79	29.71	22.30	38.30	34.61	24.67	43.47	38.20	25.64	46.32	28.99	27.43	36.24	30.12	24.26	42.30	38.99	25.11
3:13	39.84	29.74	22.30	38.33	34.65	24.69	43.50	38.26	25.66	46.37	29.03	27.44	36.27	30.16	24.28	42.34	39.04	25.13
3:14	39.90	29.80	22.31	38.33	34.70	24.70	43.50	38.30	25.65	46.44	29.07	27.45	36.31	30.19	24.29	42.41	39.09	25.14
3:15	39.94	29.85	22.30	38.38	34.75	24.71	43.45	38.37	25.64	46.52	29.12	27.45	36.34	30.24	24.31	42.48	39.15	25.14
3:16	39.99	29.90	22.30	38.43	34.79	24.72	43.48	38.42	25.62	46.54	29.16	27.45	36.35	30.29	24.31	42.50	39.20	25.15
3:17	40.02	29.94	22.28	38.47	34.83	24.73	43.54	38.47	25.62	46.50	29.20	27.44	36.35	30.32	24.31	42.52	39.24	25.15
3:18	40.02	29.99	22.28	38.51	34.88	24.74	43.57	38.52	25.64	46.46	29.25	27.44	36.35	30.37	24.31	42.55	39.30	25.17
3:19	40.03	30.03	22.27	38.52	34.93	24.75	43.57	38.59	25.65	46.51	29.29	27.45	36.36	30.41	24.33	42.58	39.35	25.17
3:20	40.02	30.08	22.27	38.53	34.97	24.76	43.58	38.64	25.68	46.54	29.34	27.45	36.37	30.45	24.33	42.64	39.40	25.18
3:21	40.02	30.13	22.27	38.54	35.02	24.77	43.62	38.68	25.70	46.52	29.39	27.45	36.39	30.49	24.33	42.65	39.45	25.19
3:22	40.02	30.18	22.26	38.56	35.06	24.76	43.64	38.74	25.71	46.53	29.43	27.48	36.41	30.53	24.35	42.66	39.50	25.19
3:23	40.00	30.22	22.26	38.59	35.10	24.77	43.67	38.80	25.73	46.55	29.47	27.48	36.41	30.57	24.36	42.70	39.55	25.19
3:24	40.01	30.26	22.27	38.62	35.15	24.77	43.69	38.85	25.73	46.57	29.51	27.50	36.43	30.62	24.36	42.65	39.60	25.21
3:25	40.00	30.31	22.27	38.64	35.19	24.78	43.72	38.90	25.74	46.62	29.56	27.50	36.44	30.66	24.37	42.67	39.65	25.20
3:26	39.99	30.35	22.28	38.66	35.23	24.78	43.72	38.95	25.73	46.67	29.60	27.51	36.47	30.69	24.37	42.64	39.70	25.22
3:27	40.01	30.40	22.29	38.69	35.28	24.78	43.70	39.00	25.72	46.71	29.64	27.52	36.51	30.73	24.39	42.63	39.75	25.22
3:28	40.03	30.44	22.28	38.73	35.33	24.79	43.73	39.05	25.70	46.71	29.68	27.52	36.52	30.77	24.40	42.65	39.79	25.23
3:29	40.09	30.49	22.27	38.76	35.37	24.80	43.76	39.10	25.68	46.72	29.72	27.53	36.55	30.81	24.40	42.69	39.84	25.23
3:30	40.10	30.53	22.27	38.78	35.41	24.81	43.80	39.15	25.67	46.69	29.77	27.52	36.56	30.85	24.41	42.73	39.88	25.22
3:31	40.13	30.57	22.26	38.79	35.45	24.82	43.78	39.20	25.68	46.68	29.80	27.50	36.55	30.89	24.41	42.73	39.93	25.21
3:32	40.16	30.62	22.26	38.82	35.50	24.83	43.78	39.26	25.69	46.67	29.85	27.51	36.55	30.93	24.42	42.77	39.98	25.21
3:33	40.20	30.66	22.26	38.82	35.54	24.84	43.79	39.31	25.70	46.66	29.89	27.52	36.57	30.97	24.43	42.80	40.03	25.22
3:34	40.27	30.71	22.26	38.83	35.58	24.85	43.80	39.35	25.72	46.68	29.93	27.52	36.56	31.01	24.42	42.81	40.08	25.22
3:35	40.31	30.75	22.25	38.86	35.62	24.85	43.82	39.40	25.71	46.73	29.98	27.51	36.56	31.05	24.42	42.82	40.12	25.22
3:36	40.33	30.79	22.25	38.88	35.67	24.86	43.85	39.46	25.69	46.75	30.01	27.51	36.61	31.09	24.43	42.79	40.16	25.21
3:37	40.32	30.84	22.24	38.91	35.70	24.86	43.87	39.50	25.69	46.70	30.05	27.51	36.66	31.13	24.44	42.76	40.21	25.22
3:38	40.27	30.88	22.23	38.95	35.74	24.87	43.91	39.55	25.68	46.65	30.10	27.52	36.71	31.16	24.44	42.75	40.26	25.22
3:39	40.32	30.92	22.22	38.98	35.79	24.88	43.93	39.60	25.69	46.70	30.13	27.53	36.74	31.19	24.45	42.74	40.31	25.23
3:40	40.36	30.97	22.23	39.01	35.83	24.88	43.96	39.65	25.72	46.64	30.17	27.53	36.79	31.24	24.47	42.72	40.35	25.24
3:41	40.42	31.01	22.22	39.06	35.87	24.88	43.98	39.70	25.73	46.58	30.22	27.54	36.82	31.27	24.47	42.79	40.39	25.23
3:42	40.47	31.05	22.22	39.10	35.92	24.90	44.02	39.75	25.76	46.46	30.25	27.54	36.84	31.31	24.48	42.85	40.44	25.24
3:43	40.49	31.09	22.22	39.15	35.95	24.90	44.03	39.79	25.78	46.46	30.29	27.56	36.89	31.35	24.49	42.91	40.48	25.25
3:44	40.54	31.14	22.26	39.17	35.99	24.91	44.05	39.84	25.80	46.46	30.33	27.57	36.93	31.39	24.49	42.97	40.53	25.26
3:45	40.60	31.17	22.27	39.20	36.03	24.92	44.05	39.89	25.80	46.52	30.37	27.57	36.97	31.42	24.51	43.03	40.58	25.27
3:46	40.62	31.22	22.27	39.24	36.07	24.93	44.08	39.94	25.78	46.55	30.41	27.59	36.99	31.46	24.51	43.07	40.62	25.26
3:47	40.64	31.26	22.25	39.27	36.12	24.94	44.11	39.98	25.76	46.56	30.45	27.59	37.01	31.49	24.52	43.15	40.66	25.26
3:48	40.65	31.30	22.25	39.29	36.15	24.95	44.13	40.03	25.76	46.55	30.48	27.59	37.02	31.53	24.53	43.22	40.71	25.27
3:49	40.69	31.34	22.25	39.30	36.20	24.95	44.17	40.08	25.74	46.54	30.52	27.59	37.02	31.57	24.54	43.24	40.75	25.28
3:50	40.71	31.39	22.25	39.30	36.24	24.96	44.22	40.12	25.73	46.55	30.56	27.60	37.03	31.60	24.54	43.20	40.80	25.29
3:51	40.74	31.43	22.25	39.35	36.28	24.97	44.25	40.18	25.74	46.54	30.60	27.60	37.04	31.64	24.55	43.20	40.84	25.30
3:52	40.77	31.47	22.24	39.38	36.32	24.97	44.27	40.22	25.76	46.63	30.65	27.61	37.08	31.68	24.56	43.22	40.89	25.30
3:53	40.78	31.51	22.25	39.37	36.36	24.98	44.28	40.26	25.78	46.70	30.67	27.63	37.09	31.71	24.56	43.19	40.94	25.31
3:54	40.77	31.54	22.26	39.38	36.40	24.98	44.27	40.32	25.80	46.74	30.72	27.65	37.10	31.75	24.58	43.23	40.97	25.31
3:55	40.76	31.59	22.27	39.38	36.44	25.00	44.29	40.36	25.82	46.74	30.75	27.66	37.09	31.78	24.59	43.27	41.02	25.31
3:56	40.80	31.63	22.27	39.41	36.47	25.01	44.33	40.40	25.84	46.78	30.79	27.67	37.11	31.82	24.59	43.28	41.07	25.31
3:57	40.85	31.67	22.26	39.47	36.51	25.02	44.36	40.45	25.85	46.79	30.83	27.68	37.13	31.86	24.60	43.29	41.11	25.32
3:58	40.87	31.70	22.26	39.51	36.56	25.03	44.39	40.50	25.88	46.81	30.86	27.69	37.14	31.89	24.62	43.31	41.15	25.33
3:59	40.90	31.76	22.27	39.52	36.60	25.04	44.43	40.54	25.88	46.85	30.90	27.69	37.15	31.93	24.63	43.34	41.19	25.34
4:00	40.93	31.79	22.27	39.53	36.63	25.04	44.45	40.59	25.86	46.91	30.94	27.71	37.18	31.96	24.63	43.36	41.23	25.33
4:01	40.94	31.83	22.27	39.50	36.67	25.05	44.44	40.63	25.85	46.94	30.98	27.71						

4:06	41.06	32.03	22.28	39.66	36.87	25.14	44.56	40.85	25.86	46.90	31.16	27.76	37.29	32.16	24.71	43.47	41.48	25.36
4:07	41.01	32.07	22.28	39.68	36.91	25.14	44.60	40.88	25.88	46.91	31.20	27.77	37.33	32.20	24.72	43.51	41.53	25.36
4:08	41.04	32.11	22.28	39.71	36.94	25.15	44.58	40.93	25.91	46.93	31.24	27.77	37.36	32.23	24.73	43.56	41.56	25.37
4:09	41.03	32.14	22.34	39.70	36.98	25.16	44.60	40.98	25.92	46.92	31.27	27.78	37.36	32.26	24.74	43.63	41.60	25.38
4:10	41.05	32.18	22.35	39.73	37.01	25.18	44.60	41.02	25.94	46.91	31.31	27.75	37.39	32.30	24.74	43.74	41.65	25.39
4:11	41.07	32.22	22.34	39.78	37.05	25.19	44.58	41.07	25.97	46.93	31.35	27.74	37.41	32.34	24.75	43.72	41.69	25.40
4:12	41.09	32.26	22.34	39.80	37.08	25.20	44.59	41.11	25.99	46.86	31.38	27.75	37.42	32.37	24.75	43.68	41.72	25.41
4:13	41.11	32.30	22.35	39.80	37.12	25.20	44.58	41.14	26.01	46.91	31.42	27.74	37.45	32.40	24.75	43.65	41.77	25.42
4:14	41.11	32.35	22.34	39.83	37.16	25.22	44.57	41.18	26.03	46.92	31.44	27.75	37.46	32.43	24.75	43.65	41.81	25.43
4:15	41.16	32.38	22.35	39.85	37.19	25.23	44.56	41.23	26.02	46.93	31.48	27.75	37.47	32.46	24.76	43.63	41.85	25.44
4:16	41.22	32.41	22.35	39.86	37.23	25.25	44.56	41.27	26.01	46.91	31.52	27.76	37.47	32.50	24.76	43.63	41.89	25.44
4:17	41.25	32.45	22.35	39.87	37.27	25.26	44.58	41.31	26.00	46.96	31.55	27.75	37.48	32.53	24.77	43.63	41.92	25.42
4:18	41.27	32.49	22.36	39.90	37.30	25.27	44.62	41.35	26.00	47.03	31.59	27.75	37.48	32.57	24.77	43.55	41.96	25.44
4:19	41.26	32.52	22.37	39.91	37.35	25.27	44.62	41.40	26.00	47.06	31.62	27.75	37.49	32.59	24.78	43.56	41.99	25.45
4:20	41.32	32.56	22.37	39.97	37.37	25.29	44.64	41.43	26.02	47.11	31.66	27.78	37.54	32.63	24.78	43.61	42.04	25.46
4:21	41.35	32.60	22.39	40.04	37.41	25.29	44.64	41.47	26.04	47.15	31.69	27.79	37.57	32.66	24.79	43.68	42.07	25.46
4:22	41.36	32.64	22.39	40.03	37.45	25.31	44.65	41.52	26.05	47.20	31.73	27.79	37.60	32.69	24.80	43.68	42.11	25.46
4:23	41.39	32.67	22.40	40.07	37.48	25.32	44.68	41.55	26.07	47.22	31.76	27.79	37.62	32.73	24.80	43.63	42.15	25.47
4:24	41.41	32.71	22.40	40.09	37.52	25.33	44.72	41.59	26.08	47.13	31.79	27.79	37.61	32.76	24.80	43.71	42.19	25.48
4:25	41.44	32.75	22.40	40.13	37.55	25.34	44.75	41.63	26.10	47.14	31.83	27.78	37.64	32.80	24.81	43.70	42.23	25.48
4:26	41.45	32.78	22.40	40.15	37.59	25.36	44.76	41.67	26.11	47.21	31.86	27.79	37.64	32.83	24.81	43.70	42.25	25.49
4:27	41.47	32.82	22.40	40.18	37.62	25.36	44.81	41.71	26.14	47.22	31.89	27.80	37.66	32.85	24.82	43.69	42.30	25.49
4:28	41.52	32.86	22.40	40.17	37.66	25.37	44.84	41.75	26.13	47.25	31.93	27.82	37.66	32.88	24.82	43.71	42.34	25.49
4:29	41.54	32.89	22.40	40.15	37.69	25.37	44.84	41.79	26.11	47.29	31.96	27.83	37.71	32.92	24.83	43.76	42.37	25.51
4:30	41.57	32.93	22.40	40.18	37.72	25.38	44.88	41.83	26.08	47.28	31.99	27.83	37.74	32.95	24.83	43.82	42.41	25.51
4:31	41.54	32.97	22.41	40.18	37.76	25.39	44.88	41.87	26.06	47.30	32.03	27.85	37.77	32.98	24.83	43.87	42.44	25.52
4:32	41.53	33.00	22.41	40.20	37.79	25.40	44.90	41.90	26.07	47.37	32.06	27.87	37.79	33.01	24.84	43.98	42.48	25.52
4:33	41.52	33.04	22.40	40.23	37.83	25.41	44.93	41.94	26.05	47.33	32.09	27.89	37.82	33.04	24.85	44.03	42.52	25.53
4:34	41.49	33.08	22.42	40.24	37.86	25.42	44.95	41.98	26.07	47.34	32.13	27.88	37.84	33.07	24.86	44.09	42.55	25.55
4:35	41.48	33.11	22.40	40.26	37.90	25.42	44.96	42.01	26.07	47.39	32.16	27.88	37.87	33.10	24.87	44.08	42.59	25.56
4:36	41.52	33.14	22.42	40.27	37.93	25.43	45.00	42.06	26.05	47.37	32.19	27.89	37.90	33.14	24.87	44.08	42.62	25.56
4:37	41.58	33.18	22.42	40.29	37.96	25.44	45.00	42.09	26.04	47.37	32.22	27.89	37.92	33.16	24.87	44.12	42.66	25.56
4:38	41.59	33.21	22.43	40.34	37.99	25.44	44.98	42.13	26.03	47.41	32.25	27.89	37.91	33.19	24.87	44.10	42.69	25.58
4:39	41.58	33.25	22.43	40.33	38.02	25.45	44.98	42.17	26.03	47.44	32.29	27.91	37.93	33.22	24.88	44.08	42.73	25.59
4:40	41.57	33.28	22.42	40.35	38.05	25.46	45.00	42.20	26.05	47.44	32.31	27.92	37.94	33.25	24.89	44.09	42.76	25.58
4:41	41.59	33.32	22.44	40.35	38.08	25.48	45.03	42.24	26.06	47.48	32.36	27.92	37.94	33.28	24.89	44.15	42.80	25.58
4:42	41.62	33.36	22.44	40.36	38.12	25.48	45.04	42.28	26.08	47.47	32.38	27.92	37.94	33.31	24.89	44.12	42.83	25.57
4:43	41.60	33.39	22.45	40.39	38.15	25.49	45.05	42.32	26.10	47.41	32.41	27.91	37.93	33.34	24.89	44.20	42.87	25.56
4:44	41.58	33.42	22.45	40.43	38.18	25.50	45.08	42.35	26.09	47.45	32.45	27.90	37.99	33.37	24.90	44.30	42.89	25.57
4:45	41.58	33.46	22.47	40.45	38.21	25.50	45.10	42.39	26.08	47.45	32.47	27.88	38.05	33.40	24.90	44.33	42.93	25.57
4:46	41.61	33.49	22.47	40.45	38.24	25.50	45.12	42.42	26.08	47.40	32.51	27.90	38.07	33.42	24.90	44.33	42.96	25.58
4:47	41.65	33.53	22.48	40.47	38.27	25.51	45.14	42.45	26.07	47.27	32.54	27.91	38.05	33.45	24.91	44.34	43.00	25.58
4:48	41.69	33.56	22.53	40.50	38.30	25.52	45.16	42.49	26.07	47.26	32.57	27.92	38.08	33.49	24.92	44.31	43.03	25.60
4:49	41.73	33.59	22.53	40.51	38.33	25.53	45.17	42.53	26.10	47.28	32.61	27.91	38.08	33.52	24.92	44.27	43.06	25.61
4:50	41.71	33.62	22.54	40.50	38.36	25.53	45.17	42.56	26.11	47.34	32.63	27.91	38.13	33.54	24.92	44.23	43.09	25.61
4:51	41.72	33.66	22.53	40.51	38.39	25.53	45.15	42.59	26.14	47.34	32.67	27.92	38.13	33.57	24.93	44.21	43.12	25.63
4:52	41.73	33.70	22.54	40.54	38.42	25.54	45.18	42.63	26.14	47.41	32.70	27.91	38.13	33.61	24.93	44.20	43.16	25.62
4:53	41.74	33.73	22.54	40.56	38.45	25.55	45.21	42.66	26.14	47.40	32.73	27.93	38.14	33.63	24.94	44.19	43.19	25.62
4:54	41.73	33.77	22.54	40.59	38.48	25.55	45.16	42.70	26.12	47.48	32.76	27.93	38.15	33.66	24.94	44.18	43.22	25.62
4:55	41.73	33.79	22.55	40.60	38.51	25.56	45.17	42.73	26.12	47.52	32.79	27.94	38.17	33.69	24.95	44.21	43.25	25.63
4:56	41.75	33.83	22.56	40.62	38.53	25.56	45.23	42.77	26.11	47.51	32.82	27.97	38.19	33.71	24.95	44.21	43.28	25.64
4:57	41.77	33.86	22.57	40.60	38.57	25.57	45.27	42.80	26.10	47.49	32.85	27.98	38.19	33.75	24.96	44.22	43.31	25.65
4:58	41.79	33.90	22.58	40.58	38.60	25.57	45.23	42.84	26.12	47.47	32.88	28.01	38.22	33.78	24.97	44.25	43.35	25.65
4:59	41.81	33.93	22.59	40.56	38.63	25.58	45.24	42.86	26.14	47.52	32.91	28.02	38.24	33.80	24.97	44.21	43.37	25.67
5:00	41.83	33.96	22.60	40.55	38.65	25.59	45.22	42.89	26.16	47.58	32.94	28.04	38.24	33.83	24.97	44.15	43.41	25.69
5:01	41.67	33.99	22.61	40.53	38.68	25.59	45.12	42.93	26.18	47.56	32.96	28.03	38.23	33.85	24.98	44.11	43.43	25.68
5:02	38.88	34.03	22.58	38.83	38.71	25.57	42.47	42.96	26.12	47.59	32.99	27.87	36.47	33.88	24.96	41.27	43.46	25.62
5:03	35.36	34.06	22.57	36.37	38.65	25.49	39.15	42.99	26.07	47.12	33.03	27.61	34.08	33.91	24.88	37.80	43.49	25.57
5:04	32.77	34.09	22.56	34.55	38.52	25.35	36.37	43.01	26.10	44.01	33.05	27.74	32.43	33.94	24.79	35.08	43.49	25.70
5:05	30.86	34.12	22.61	33.14	38.29	25.47	34.20	42.99	26.13	40.80	33.07	27.91	31.39	33.96	24.67	33.20	43.41	25.76
5:06	29.37	34.16	22.74	32.09	38.02	25.79	32.47	42.90	26.13	38.29	33.10	27.85	30.65	33.98	24.54	31.77	43.23	25.76
5:07	28.25	34.20	22.86	31.29	37.72	26.13	31.25	42.74	26.11	36.48	33.13	27.67	30.07	33.98	24.40	30.56	42.97	25.92
5:08	27.46	34.24	22.96	30.68	37.41	26.36	30.32	42.52	26.08	35.00	33.15	27.42	29.56	33.97	24.26	29.58	42.64	26.16
5:09	26.81	34.30	23.04	30.19	37.09	26.43	29.52	42.26	26.04	33.69	33.18	27.17						

5:14	24.53	34.62	23.70	28.69	35.61	25.77	27.24	40.58	25.80	29.55	33.41	25.58	27.42	33.76	23.43	26.05	39.95	26.60
5:15	24.29	34.66	23.80	28.43	35.34	25.61	26.98	40.22	25.76	29.09	33.47	25.35	27.06	33.72	23.31	25.82	39.48	26.64
5:16	24.06	34.69	23.90	28.22	35.08	25.42	26.69	39.85	25.74	28.62	33.50	25.15	26.81	33.66	23.18	25.53	39.00	26.65
5:17	23.90	34.70	23.97	27.98	34.83	25.25	26.42	39.50	25.69	28.22	33.53	24.96	26.58	33.59	23.05	25.21	38.54	26.65
5:18	23.73	34.69	24.06	27.86	34.59	25.08	26.16	39.15	25.64	27.90	33.55	24.81	26.41	33.53	22.95	24.95	38.08	26.64
5:19	23.62	34.68	24.11	27.75	34.37	24.89	25.90	38.82	25.56	27.69	33.55	24.69	26.32	33.45	22.84	24.73	37.64	26.62
5:20	23.48	34.67	24.13	27.63	34.15	24.71	25.70	38.48	25.41	27.48	33.55	24.59	26.22	33.37	22.74	24.55	37.21	26.63
5:21	23.35	34.63	24.14	27.50	33.94	24.53	25.57	38.14	25.35	27.29	33.55	24.52	26.12	33.29	22.65	24.34	36.78	26.64
5:22	23.27	34.59	24.15	27.38	33.74	24.36	25.46	37.81	25.35	27.08	33.53	24.45	25.95	33.20	22.57	24.16	36.37	26.65
5:23	23.17	34.54	24.13	27.29	33.55	24.19	25.25	37.49	25.38	26.89	33.50	24.38	25.84	33.11	22.49	24.00	35.97	26.66
5:24	23.20	34.48	24.12	27.21	33.36	24.04	25.04	37.18	25.35	26.73	33.46	24.33	25.71	33.01	22.42	23.86	35.58	26.70
5:25	23.17	34.42	24.13	27.13	33.18	23.89	24.90	36.87	25.30	26.56	33.42	24.27	25.58	32.93	22.34	23.75	35.21	26.74
5:26	23.19	34.34	24.13	27.07	33.01	23.77	24.81	36.57	25.27	26.43	33.37	24.24	25.48	32.83	22.28	23.57	34.84	26.76
5:27	23.13	34.27	24.12	27.00	32.84	23.65	24.75	36.29	25.23	26.29	33.32	24.19	25.35	32.74	22.20	23.42	34.48	26.77
5:28	23.08	34.18	24.12	26.93	32.68	23.53	24.60	36.01	25.23	26.09	33.25	24.14	25.33	32.64	22.13	23.34	34.15	26.78
5:29	23.03	34.09	24.14	26.84	32.52	23.41	24.49	35.73	25.21	25.99	33.19	24.11	25.29	32.54	22.09	23.32	33.82	26.83
5:30	22.97	33.99	24.16	26.78	32.37	23.29	24.42	35.47	25.16	25.92	33.12	24.06	25.21	32.44	22.03	23.30	33.52	26.87
5:31	22.97	33.89	24.16	26.69	32.22	23.19	24.30	35.20	25.13	25.90	33.05	24.05	25.14	32.34	21.98	23.25	33.21	26.89
5:32	22.94	33.79	24.18	26.65	32.08	23.09	24.24	34.95	25.12	25.83	32.97	24.00	25.09	32.26	21.93	23.19	32.90	26.89
5:33	22.87	33.69	24.18	26.59	31.95	22.98	24.20	34.72	25.15	25.78	32.89	23.99	25.04	32.15	21.89	23.12	32.62	26.92
5:34	22.87	33.58	24.18	26.44	31.82	22.89	24.16	34.46	25.10	25.69	32.81	23.99	25.00	32.06	21.85	23.07	32.34	26.94
5:35	22.86	33.47	24.19	26.41	31.69	22.80	24.11	34.23	25.13	25.62	32.72	23.98	24.95	31.96	21.81	23.02	32.08	26.94
5:36	22.86	33.36	24.18	26.36	31.56	22.74	23.98	34.00	25.18	25.59	32.63	23.96	24.93	31.86	21.77	23.01	31.82	26.96
5:37	22.89	33.25	24.19	26.33	31.43	22.66	23.90	33.78	25.25	25.51	32.54	23.95	24.86	31.77	21.74	22.90	31.57	27.00
5:38	22.84	33.14	24.19	26.24	31.31	22.59	23.87	33.56	25.25	25.43	32.46	23.92	24.77	31.68	21.71	22.83	31.32	27.00
5:39	22.82	33.03	24.21	26.11	31.19	22.55	23.82	33.34	25.25	25.35	32.36	23.92	24.74	31.58	21.67	22.77	31.08	27.03
5:40	22.80	32.91	24.21	26.02	31.07	22.57	23.75	33.13	25.21	25.27	32.26	23.89	24.74	31.48	21.65	22.73	30.85	27.03
5:41	22.69	32.80	24.19	25.94	30.96	22.63	23.72	32.92	25.17	25.19	32.17	23.85	24.69	31.39	21.61	22.74	30.63	27.05
5:42	22.65	32.68	24.20	25.86	30.84	22.70	23.56	32.71	25.17	25.12	32.08	23.81	24.60	31.30	21.57	22.70	30.41	27.02
5:43	22.62	32.57	24.23	25.72	30.74	22.74	23.49	32.52	25.25	25.12	31.98	23.79	24.56	31.20	21.54	22.69	30.20	27.02
5:44	22.51	32.45	24.22	25.65	30.62	22.78	23.46	32.32	25.28	25.06	31.89	23.77	24.54	31.11	21.52	22.64	29.99	27.04
5:45	22.40	32.33	24.23	25.61	30.51	22.78	23.33	32.13	25.22	25.01	31.79	23.76	24.50	31.02	21.50	22.63	29.80	27.02
5:46	22.35	32.22	24.24	25.55	30.39	22.79	23.27	31.94	25.18	24.97	31.69	23.74	24.42	30.93	21.47	22.57	29.62	26.99
5:47	22.29	32.10	24.24	25.46	30.29	22.79	23.18	31.76	25.16	24.94	31.60	23.72	24.37	30.84	21.43	22.47	29.43	27.01
5:48	22.26	31.98	24.23	25.41	30.19	22.77	23.15	31.58	25.07	24.89	31.50	23.69	24.32	30.75	21.41	22.44	29.26	26.97
5:49	22.25	31.87	24.23	25.40	30.08	22.74	23.17	31.40	25.08	24.86	31.41	23.67	24.30	30.67	21.37	22.40	29.09	26.96
5:50	22.27	31.74	24.21	25.39	29.98	22.69	23.11	31.23	25.15	24.81	31.31	23.64	24.27	30.57	21.35	22.39	28.92	26.93
5:51	22.23	31.63	24.21	25.31	29.88	22.63	23.10	31.06	25.16	24.75	31.21	23.61	24.22	30.49	21.32	22.33	28.75	26.92
5:52	22.20	31.52	24.20	25.25	29.78	22.57	23.07	30.89	25.16	24.68	31.12	23.58	24.18	30.40	21.30	22.31	28.60	26.89
5:53	22.10	31.40	24.18	25.12	29.69	22.51	23.04	30.73	25.14	24.67	31.02	23.57	24.14	30.31	21.28	22.28	28.44	26.90
5:54	22.06	31.28	24.16	25.07	29.60	22.44	23.04	30.56	25.16	24.68	30.93	23.56	24.06	30.22	21.26	22.24	28.29	26.88
5:55	22.05	31.16	24.17	25.00	29.50	22.40	22.93	30.41	25.23	24.64	30.82	23.57	24.00	30.14	21.24	22.22	28.13	26.85
5:56	21.95	31.04	24.15	24.93	29.40	22.35	22.80	30.26	25.22	24.59	30.73	23.57	23.98	30.05	21.21	22.19	28.01	26.87
5:57	21.93	30.93	24.13	24.89	29.31	22.33	22.79	30.11	25.16	24.57	30.64	23.55	23.97	29.98	21.19	22.18	27.87	26.88
5:58	21.88	30.81	24.09	24.84	29.22	22.30	22.78	29.96	25.13	24.54	30.54	23.55	23.93	29.89	21.18	22.14	27.72	26.82
5:59	21.89	30.69	24.06	24.83	29.12	22.27	22.81	29.81	25.14	24.51	30.44	23.54	23.77	29.81	21.16	22.10	27.59	26.75
6:00	21.92	30.59	24.05	24.78	29.03	22.22	22.84	29.66	25.12	24.49	30.35	23.55	23.78	29.73	21.15	22.07	27.46	26.72
6:01	21.90	30.48	24.05	24.74	28.95	22.19	22.84	29.52	25.15	24.46	30.27	23.54	23.85	29.65	21.14	22.02	27.33	26.77
6:02	21.81	30.37	24.07	24.75	28.87	22.14	22.81	29.40	25.20	24.38	30.17	23.65	23.91	29.59	21.13	21.97	27.22	26.80
6:03	21.80	30.28	24.02	24.85	28.80	22.12	22.82	29.29	25.17	24.33	30.09	23.76	23.85	29.52	21.09	21.95	27.14	26.71
6:04	21.81	30.20	23.89	25.02	28.74	22.07	22.90	29.20	25.04	24.26	30.02	23.70	23.88	29.46	21.07	21.96	27.08	26.49
6:05	21.82	30.13	23.73	25.12	28.68	22.04	22.90	29.13	24.86	24.24	29.95	23.57	23.91	29.39	21.04	22.02	27.04	26.20
6:06	21.82	30.07	23.57	25.22	28.63	22.00	22.92	29.06	24.64	24.26	29.89	23.40	23.88	29.32	21.01	22.07	26.98	25.85
6:07	21.90	30.00	23.40	25.33	28.58	21.96	22.92	28.99	24.41	24.27	29.82	23.20	23.87	29.25	20.98	22.11	26.94	25.48
6:08	21.94	29.94	23.25	25.39	28.54	21.92	22.93	28.93	24.16	24.23	29.76	22.99	23.87	29.18	20.95	22.18	26.91	25.09
6:09	22.02	29.88	23.08	25.48	28.48	21.88	22.89	28.87	23.91	24.27	29.70	22.78	23.83	29.11	20.91	22.19	26.88	24.73
6:10	22.10	29.82	22.92	25.54	28.43	21.84	22.85	28.82	23.66	24.28	29.64	22.56	23.82	29.05	20.87	22.22	26.85	24.37
6:11	22.20	29.76	22.77	25.56	28.39	21.81	22.90	28.76	23.40	24.31	29.59	22.35	23.86	28.98	20.85	22.26	26.81	24.05
6:12	22.30	29.71	22.62	25.60	28.34	21.75	22.97	28.71	23.16	24.33	29.53	22.16	23.88	28.91	20.81	22.30	26.79	23.75
6:13	22.40	29.65	22.50	25.62	28.30	21.69	22.96	28.65	22.94	24.36	29.47	21.96	23.89	28.86	20.78	22.34	26.75	23.47
6:14	22.43	29.59	22.39	25.60	28.24	21.64	22.94	28.61	22.73	24.41	29.42	21.78	23.92	28.79	20.75	22.41	26.72	23.22
6:15	22.44	29.54	22.27	25.58	28.19	21.60	22.93	28.55	22.54	24.42	29.37	21.60	23.91	28.72	20.72	22.39	26.69	23.00
6:16	22.47	29.49	22.15	25.56	28.15	21.56	22.95	28.50	22.35	24.43	29.33	21.46	23.95	28.67	20.69	22.43	26.67	22.80
6:17	22.51	29.43	22.04	25.56	28.09	21.52	23.01	28.45	22.18	24.41	29.27	21.32						

6:22	22.59	29.19	21.53	25.40	27.85	21.35	23.00	28.21	21.54	24.55	29.03	20.69	23.82	28.32	20.52	22.51	26.49	21.86
6:23	22.56	29.14	21.45	25.37	27.80	21.30	23.02	28.16	21.42	24.56	28.99	20.58	23.80	28.26	20.48	22.51	26.46	21.73
6:24	22.57	29.10	21.36	25.38	27.75	21.27	23.01	28.12	21.33	24.56	28.93	20.49	23.77	28.21	20.45	22.50	26.43	21.61
6:25	22.56	29.04	21.29	25.38	27.70	21.23	23.00	28.07	21.23	24.59	28.89	20.40	23.78	28.15	20.42	22.51	26.40	21.51
6:26	22.59	29.00	21.22	25.40	27.66	21.18	22.99	28.03	21.14	24.61	28.85	20.32	23.80	28.10	20.40	22.54	26.38	21.40
6:27	22.63	28.95	21.16	25.38	27.61	21.13	22.98	27.98	21.06	24.59	28.81	20.25	23.81	28.05	20.38	22.54	26.35	21.32
6:28	22.66	28.91	21.10	25.37	27.57	21.09	23.00	27.93	20.96	24.59	28.77	20.20	23.79	27.99	20.37	22.55	26.32	21.25
6:29	22.66	28.87	21.03	25.32	27.52	21.05	23.02	27.89	20.89	24.61	28.74	20.12	23.76	27.95	20.33	22.59	26.29	21.15
6:30	22.68	28.82	20.97	25.26	27.49	21.00	23.05	27.85	20.82	24.63	28.69	20.07	23.74	27.90	20.31	22.59	26.26	21.08
6:31	22.73	28.78	20.91	25.24	27.44	20.95	23.01	27.81	20.76	24.58	28.65	20.02	23.73	27.85	20.29	22.59	26.24	21.01
6:32	22.73	28.73	20.86	25.19	27.39	20.91	22.95	27.77	20.70	24.60	28.62	19.95	23.71	27.80	20.26	22.57	26.21	20.94
6:33	22.75	28.70	20.79	25.18	27.36	20.88	22.96	27.73	20.64	24.60	28.57	19.91	23.68	27.76	20.24	22.56	26.18	20.87
6:34	22.78	28.67	20.75	25.20	27.33	20.84	22.98	27.69	20.57	24.66	28.53	19.87	23.66	27.71	20.22	22.55	26.16	20.81
6:35	22.79	28.62	20.70	25.21	27.28	20.81	22.95	27.64	20.51	24.63	28.49	19.83	23.68	27.67	20.20	22.56	26.13	20.75
6:36	22.79	28.58	20.65	25.17	27.24	20.79	22.92	27.60	20.46	24.61	28.46	19.81	23.64	27.62	20.18	22.57	26.12	20.69
6:37	22.78	28.54	20.60	25.08	27.20	20.76	22.91	27.56	20.41	24.60	28.42	19.77	23.63	27.58	20.15	22.57	26.08	20.63
6:38	22.79	28.49	20.55	25.06	27.17	20.73	22.91	27.52	20.36	24.60	28.39	19.74	23.61	27.54	20.13	22.55	26.05	20.58
6:39	22.78	28.45	20.51	25.03	27.13	20.70	22.89	27.48	20.32	24.63	28.35	19.70	23.61	27.50	20.11	22.54	26.03	20.52
6:40	22.78	28.42	20.47	25.00	27.09	20.65	22.89	27.45	20.28	24.66	28.32	19.65	23.62	27.46	20.09	22.54	26.00	20.47
6:41	22.78	28.39	20.43	24.99	27.05	20.63	22.88	27.41	20.25	24.66	28.27	19.62	23.61	27.42	20.06	22.56	25.97	20.42
6:42	22.76	28.34	20.39	24.95	27.02	20.58	22.89	27.38	20.21	24.68	28.24	19.58	23.61	27.38	20.04	22.54	25.95	20.38
6:43	22.77	28.31	20.35	24.90	26.99	20.56	22.90	27.34	20.17	24.67	28.21	19.54	23.59	27.35	20.01	22.50	25.92	20.33
6:44	22.77	28.27	20.30	24.86	26.95	20.53	22.89	27.30	20.15	24.66	28.18	19.51	23.59	27.31	20.00	22.49	25.89	20.28
6:45	22.75	28.23	20.26	24.85	26.91	20.50	22.87	27.27	20.11	24.69	28.14	19.47	23.58	27.27	19.98	22.50	25.87	20.24
6:46	22.75	28.19	20.22	24.83	26.88	20.46	22.86	27.23	20.09	24.70	28.11	19.44	23.56	27.24	19.96	22.50	25.84	20.21
6:47	22.73	28.16	20.17	24.81	26.84	20.43	22.87	27.20	20.07	24.69	28.08	19.41	23.54	27.20	19.93	22.52	25.82	20.18
6:48	22.75	28.13	20.14	24.79	26.81	20.40	22.86	27.16	20.04	24.68	28.05	19.39	23.53	27.18	19.91	22.51	25.80	20.14
6:49	22.76	28.09	20.09	24.77	26.77	20.37	22.90	27.12	20.02	24.70	28.01	19.36	23.50	27.14	19.89	22.49	25.77	20.11
6:50	22.75	28.05	20.07	24.75	26.73	20.36	22.90	27.10	20.00	24.72	27.98	19.33	23.48	27.11	19.88	22.48	25.73	20.09
6:51	22.75	28.02	20.02	24.71	26.70	20.33	22.91	27.06	19.98	24.77	27.95	19.31	23.50	27.07	19.86	22.45	25.71	20.06
6:52	22.76	27.98	19.98	24.65	26.67	20.31	22.88	27.03	19.95	24.77	27.92	19.30	23.51	27.04	19.85	22.45	25.69	20.04
6:53	22.74	27.95	19.94	24.58	26.64	20.27	22.88	26.99	19.91	24.72	27.89	19.28	23.50	27.01	19.84	22.45	25.67	20.00
6:54	22.74	27.91	19.93	24.52	26.61	20.25	22.86	26.96	19.90	24.72	27.85	19.26	23.51	26.98	19.81	22.45	25.64	19.99
6:55	22.73	27.88	19.90	24.45	26.57	20.23	22.82	26.92	19.92	24.74	27.83	19.24	23.49	26.95	19.80	22.45	25.62	19.96
6:56	22.75	27.85	19.87	24.39	26.54	20.20	22.82	26.90	19.91	24.75	27.79	19.22	23.47	26.92	19.78	22.45	25.59	19.94
6:57	22.74	27.81	19.83	24.35	26.51	20.17	22.82	26.86	19.89	24.76	27.76	19.21	23.44	26.89	19.77	22.43	25.56	19.91
6:58	22.72	27.79	19.81	24.25	26.47	20.15	22.78	26.83	19.87	24.81	27.73	19.19	23.42	26.86	19.74	22.42	25.54	19.89
6:59	22.71	27.75	19.77	24.19	26.44	20.14	22.79	26.80	19.84	24.82	27.70	19.16	23.41	26.82	19.73	22.42	25.52	19.85
7:00	22.71	27.71	19.73	24.13	26.41	20.13	22.78	26.77	19.83	24.75	27.68	19.14	23.42	26.80	19.72	22.40	25.49	19.83
7:01	22.72	27.68	19.71	24.09	26.38	20.10	22.77	26.74	19.80	24.73	27.64	19.13	23.42	26.77	19.71	22.39	25.47	19.79
7:02	22.70	27.65	19.69	24.02	26.35	20.10	22.73	26.71	19.78	24.75	27.62	19.11	23.38	26.74	19.69	22.37	25.44	19.77
7:03	22.64	27.62	19.68	23.94	26.33	20.08	22.72	26.67	19.76	24.72	27.58	19.12	23.36	26.72	19.67	22.37	25.42	19.74
7:04	22.63	27.59	19.68	23.87	26.29	20.05	22.71	26.64	19.75	24.72	27.56	19.10	23.36	26.69	19.66	22.34	25.39	19.70
7:05	22.60	27.56	19.65	23.84	26.26	20.04	22.69	26.61	19.74	24.73	27.54	19.08	23.37	26.66	19.65	22.33	25.38	19.70
7:06	22.61	27.52	19.63	23.81	26.23	20.02	22.69	26.58	19.71	24.69	27.51	19.07	23.36	26.64	19.63	22.32	25.35	19.67
7:07	22.59	27.50	19.62	23.75	26.20	19.99	22.66	26.55	19.69	24.65	27.48	19.05	23.36	26.61	19.62	22.33	25.33	19.65
7:08	22.58	27.46	19.60	23.71	26.17	19.99	22.65	26.52	19.66	24.61	27.44	19.03	23.37	26.59	19.60	22.34	25.30	19.63
7:09	22.54	27.43	19.60	23.66	26.13	19.97	22.63	26.49	19.65	24.63	27.42	19.02	23.37	26.55	19.58	22.34	25.28	19.60
7:10	22.54	27.40	19.57	23.64	26.10	19.96	22.62	26.46	19.65	24.65	27.39	19.01	23.35	26.52	19.57	22.32	25.25	19.57
7:11	22.55	27.37	19.56	23.63	26.07	19.94	22.61	26.42	19.64	24.63	27.36	18.99	23.33	26.50	19.56	22.31	25.23	19.54
7:12	22.52	27.34	19.54	23.60	26.04	19.93	22.59	26.40	19.61	24.59	27.33	18.99	23.32	26.47	19.55	22.30	25.21	19.52
7:13	22.50	27.31	19.53	23.55	26.01	19.91	22.55	26.38	19.60	24.62	27.31	18.97	23.31	26.45	19.54	22.27	25.19	19.50
7:14	22.49	27.28	19.52	23.54	25.98	19.88	22.53	26.34	19.57	24.60	27.29	18.96	23.30	26.42	19.53	22.24	25.17	19.47
7:15	22.50	27.25	19.50	23.52	25.94	19.86	22.54	26.31	19.55	24.62	27.26	18.94	23.27	26.39	19.50	22.22	25.15	19.44

	Thermistors (19-9a)																	
Time	T 19	T 20	T 21	T 22	T 23	T 24	T 25	T 26	T 27	T 1a	T 2a	T 3a	T 4a	T 5a	T 6a	T 7a	T 8a	T 9a
0:00	20.11	19.29	18.74	20.22	19.37	19.46	20.18	19.98	19.47	20.34	19.91	19.41	20.43	19.72	18.91	20.19	20.02	19.48
0:01	20.10	19.29	18.75	20.22	19.38	19.45	20.18	19.98	19.44	20.34	19.91	19.41	20.43	19.73	18.91	20.19	20.02	19.49
0:02	20.36	19.29	18.78	20.69	19.38	19.47	20.86	19.99	19.43	20.80	19.91	19.44	20.91	19.73	18.93	20.50	20.02	19.51
0:03	20.93	19.29	18.88	21.66	19.38	19.50	22.09	20.00	19.45	21.80	19.92	19.50	21.93	19.73	18.98	21.29	20.06	19.53
0:04	21.54	19.29	19.01	22.60	19.39	19.52	23.27	20.06	19.49	22.82	19.93	19.57	22.96	19.73	19.05	22.16	20.15	19.54
0:05	22.14	19.29	19.17	23.49	19.42	19.58	24.37	20.14	19.54	23.81	19.97	19.66	23.94	19.73	19.13	23.00	20.27	19.58
0:06	22.73	19.29	19.33	24.30	19.47	19.62	25.33	20.26	19.62	24.75	20.05	19.75	24.84	19.73	19.22	23.77	20.42	19.62
0:07	23.28	19.29	19.49	25.03	19.54	19.67	26.22	20.39	19.68	25.64	20.16	19.87	25.68	19.73	19.32	24.46	20.58	19.68
0:08	23.81	19.29	19.67	25.70	19.63	19.73	27.02	20.53	19.75	26.44	20.29	20.01	26.46	19.73	19.42	25.09	20.74	19.73

0:09	24.29	19.29	19.84	26.31	19.74	19.77	27.77	20.67	19.82	27.20	20.45	20.14	27.19	19.73	19.53	25.67	20.91	19.78
0:10	24.76	19.29	19.99	26.91	19.86	19.84	28.47	20.82	19.89	27.91	20.62	20.28	27.84	19.73	19.65	26.17	21.07	19.84
0:11	25.21	19.29	20.15	27.43	19.99	19.89	29.14	20.98	19.97	28.55	20.81	20.41	28.43	19.74	19.76	26.62	21.23	19.91
0:12	25.64	19.29	20.29	27.92	20.14	19.92	29.73	21.13	20.04	29.15	21.00	20.54	29.00	19.74	19.86	27.06	21.38	19.98
0:13	26.05	19.30	20.43	28.33	20.29	19.93	30.27	21.29	20.11	29.70	21.20	20.65	29.55	19.75	19.96	27.50	21.54	20.06
0:14	26.42	19.29	20.55	28.72	20.44	19.95	30.78	21.44	20.19	30.26	21.41	20.77	30.04	19.75	20.07	27.92	21.69	20.12
0:15	26.76	19.29	20.68	29.11	20.59	19.96	31.29	21.59	20.26	30.79	21.62	20.87	30.51	19.76	20.18	28.26	21.84	20.19
0:16	27.10	19.30	20.80	29.48	20.75	20.00	31.75	21.73	20.35	31.31	21.83	21.00	30.97	19.77	20.29	28.61	21.98	20.26
0:17	27.43	19.30	20.90	29.80	20.91	20.06	32.20	21.88	20.44	31.77	22.04	21.12	31.41	19.79	20.39	28.93	22.12	20.33
0:18	27.76	19.30	20.99	30.13	21.06	20.10	32.59	22.02	20.51	32.24	22.25	21.24	31.81	19.80	20.49	29.23	22.26	20.40
0:19	28.05	19.30	21.08	30.46	21.22	20.16	32.98	22.17	20.60	32.63	22.46	21.33	32.20	19.82	20.58	29.53	22.40	20.47
0:20	28.34	19.31	21.17	30.77	21.39	20.20	33.34	22.31	20.67	32.95	22.67	21.43	32.61	19.85	20.68	29.81	22.54	20.54
0:21	28.60	19.32	21.24	31.05	21.55	20.23	33.65	22.45	20.74	33.26	22.88	21.52	32.97	19.87	20.76	30.06	22.67	20.62
0:22	28.85	19.33	21.32	31.32	21.71	20.28	33.95	22.59	20.82	33.58	23.09	21.60	33.34	19.90	20.85	30.29	22.80	20.69
0:23	29.10	19.33	21.39	31.56	21.86	20.31	34.22	22.72	20.89	33.93	23.29	21.69	33.67	19.93	20.92	30.52	22.93	20.75
0:24	29.33	19.34	21.45	31.79	22.02	20.35	34.50	22.86	20.96	34.30	23.49	21.77	34.01	19.96	21.00	30.74	23.05	20.83
0:25	29.55	19.35	21.52	32.03	22.18	20.39	34.79	22.98	21.03	34.62	23.69	21.84	34.34	20.00	21.07	30.94	23.18	20.89
0:26	29.74	19.35	21.57	32.26	22.32	20.41	35.04	23.12	21.11	34.88	23.89	21.91	34.63	20.04	21.15	31.14	23.30	20.96
0:27	29.93	19.37	21.63	32.49	22.48	20.44	35.26	23.26	21.19	35.04	24.09	21.95	34.89	20.08	21.23	31.31	23.43	21.02
0:28	30.14	19.39	21.68	32.69	22.63	20.49	35.46	23.39	21.25	35.19	24.28	21.98	35.15	20.13	21.30	31.46	23.55	21.08
0:29	30.31	19.39	21.74	32.85	22.78	20.51	35.67	23.51	21.34	35.32	24.47	22.00	35.40	20.18	21.36	31.59	23.67	21.14
0:30	30.49	19.40	21.78	32.99	22.93	20.55	35.86	23.64	21.41	35.44	24.66	22.04	35.65	20.23	21.42	31.73	23.79	21.19
0:31	30.64	19.43	21.83	33.16	23.08	20.59	36.03	23.76	21.47	35.59	24.85	22.07	35.89	20.28	21.49	31.89	23.90	21.25
0:32	30.79	19.44	21.87	33.31	23.23	20.63	36.18	23.89	21.55	35.87	25.03	22.11	36.12	20.33	21.56	32.04	24.02	21.30
0:33	30.93	19.46	21.90	33.46	23.37	20.67	36.33	24.01	21.62	36.08	25.22	22.15	36.34	20.39	21.61	32.16	24.13	21.36
0:34	31.08	19.48	21.95	33.61	23.52	20.70	36.49	24.13	21.68	36.27	25.40	22.21	36.53	20.45	21.67	32.27	24.25	21.41
0:35	31.21	19.51	21.99	33.75	23.66	20.73	36.65	24.26	21.75	36.39	25.58	22.25	36.70	20.51	21.71	32.38	24.36	21.46
0:36	31.35	19.54	22.03	33.87	23.80	20.76	36.76	24.37	21.80	36.52	25.76	22.30	36.87	20.57	21.76	32.47	24.47	21.51
0:37	31.49	19.57	22.07	34.00	23.94	20.78	36.92	24.50	21.87	36.63	25.93	22.35	37.00	20.63	21.80	32.56	24.58	21.55
0:38	31.62	19.59	22.09	34.10	24.08	20.81	37.09	24.61	21.93	36.81	26.10	22.39	37.15	20.70	21.84	32.64	24.70	21.60
0:39	31.75	19.62	22.11	34.22	24.22	20.83	37.22	24.74	21.99	36.91	26.28	22.44	37.31	20.76	21.88	32.73	24.81	21.65
0:40	31.87	19.65	22.15	34.27	24.36	20.86	37.34	24.85	22.05	37.03	26.45	22.47	37.49	20.83	21.91	32.79	24.92	21.69
0:41	31.99	19.68	22.16	34.36	24.50	20.88	37.46	24.98	22.10	37.19	26.62	22.50	37.64	20.90	21.94	32.84	25.03	21.73
0:42	32.10	19.72	22.19	34.44	24.64	20.90	37.57	25.09	22.16	37.30	26.79	22.52	37.75	20.97	21.97	32.91	25.14	21.78
0:43	32.20	19.75	22.19	34.53	24.77	20.93	37.67	25.21	22.22	37.48	26.96	22.56	37.85	21.04	22.00	32.97	25.24	21.82
0:44	32.31	19.78	22.22	34.60	24.90	20.95	37.77	25.33	22.27	37.63	27.12	22.59	37.99	21.12	22.03	33.04	25.35	21.86
0:45	32.41	19.82	22.25	34.74	25.04	20.96	37.87	25.45	22.31	37.80	27.29	22.63	38.13	21.19	22.08	33.13	25.46	21.90
0:46	32.50	19.88	22.28	34.86	25.17	20.99	37.99	25.56	22.37	37.94	27.45	22.65	38.24	21.27	22.11	33.25	25.56	21.93
0:47	32.58	19.90	22.29	34.91	25.31	21.01	38.10	25.69	22.42	38.11	27.61	22.66	38.36	21.34	22.14	33.32	25.67	21.97
0:48	32.67	19.94	22.33	34.98	25.43	21.02	38.19	25.79	22.46	38.26	27.77	22.67	38.46	21.42	22.17	33.37	25.77	22.00
0:49	32.77	19.99	22.34	35.09	25.57	21.04	38.30	25.91	22.52	38.33	27.93	22.68	38.60	21.50	22.20	33.41	25.88	22.04
0:50	32.86	20.02	22.36	35.14	25.69	21.06	38.37	26.02	22.56	38.46	28.09	22.70	38.70	21.58	22.24	33.44	25.98	22.08
0:51	32.96	20.07	22.38	35.22	25.82	21.08	38.47	26.13	22.61	38.59	28.24	22.74	38.81	21.65	22.26	33.46	26.09	22.11
0:52	33.05	20.12	22.40	35.28	25.95	21.09	38.56	26.25	22.65	38.69	28.40	22.77	38.90	21.73	22.29	33.51	26.19	22.14
0:53	33.14	20.16	22.43	35.33	26.07	21.11	38.63	26.36	22.71	38.76	28.55	22.76	38.99	21.81	22.30	33.54	26.29	22.17
0:54	33.22	20.20	22.44	35.40	26.21	21.12	38.71	26.47	22.75	38.83	28.70	22.75	39.07	21.90	22.32	33.56	26.39	22.21
0:55	33.28	20.26	22.45	35.44	26.33	21.13	38.77	26.59	22.79	38.90	28.85	22.76	39.16	21.98	22.34	33.59	26.50	22.24
0:56	33.34	20.31	22.46	35.50	26.45	21.16	38.84	26.70	22.83	39.05	29.00	22.76	39.22	22.06	22.37	33.64	26.60	22.27
0:57	33.41	20.36	22.49	35.55	26.57	21.19	38.92	26.80	22.86	39.19	29.15	22.76	39.34	22.14	22.39	33.69	26.70	22.30
0:58	33.50	20.41	22.50	35.58	26.69	21.19	39.02	26.92	22.91	39.31	29.29	22.77	39.42	22.23	22.41	33.74	26.80	22.33
0:59	33.55	20.45	22.52	35.62	26.82	21.17	39.10	27.02	22.95	39.41	29.44	22.79	39.48	22.31	22.42	33.79	26.89	22.36
1:00	33.61	20.51	22.53	35.67	26.94	21.15	39.15	27.13	22.98	39.51	29.58	22.82	39.55	22.39	22.44	33.86	26.99	22.39
1:01	33.67	20.58	22.54	35.72	27.06	21.12	39.20	27.25	23.03	39.55	29.72	22.84	39.61	22.48	22.45	33.91	27.09	22.42
1:02	33.72	20.62	22.54	35.77	27.17	21.11	39.27	27.35	23.05	39.58	29.86	22.86	39.67	22.56	22.46	33.96	27.19	22.44
1:03	33.78	20.67	22.56	35.81	27.29	21.13	39.33	27.45	23.10	39.65	30.00	22.89	39.71	22.65	22.48	34.01	27.28	22.47
1:04	33.83	20.72	22.57	35.86	27.41	21.13	39.37	27.56	23.12	39.74	30.13	22.90	39.76	22.73	22.49	34.06	27.38	22.50
1:05	33.89	20.78	22.58	35.86	27.53	21.11	39.43	27.67	23.16	39.85	30.27	22.91	39.79	22.82	22.51	34.13	27.47	22.52
1:06	33.94	20.84	22.58	35.93	27.64	21.12	39.52	27.78	23.20	39.94	30.40	22.92	39.85	22.90	22.52	34.19	27.57	22.54
1:07	33.99	20.89	22.59	35.94	27.76	21.14	39.62	27.88	23.22	39.98	30.53	22.93	39.88	22.99	22.54	34.23	27.66	22.56
1:08	34.03	20.95	22.61	36.01	27.87	21.16	39.70	27.99	23.25	40.03	30.66	22.95	39.95	23.07	22.55	34.28	27.76	22.59
1:09	34.05	21.01	22.62	36.10	27.98	21.18	39.78	28.09	23.27	40.11	30.79	22.97	40.00	23.16	22.56	34.29	27.85	22.61
1:10	34.10	21.07	22.65	36.15	28.09	21.19	39.82	28.20	23.31	40.22	30.92	22.98	40.05	23.25	22.57	34.32	27.94	22.63
1:11	34.14	21.13	22.66	36.18	28.20	21.21	39.86	28.30	23.34	40.29	31.05	22.98	40.13	23.33	22.57	34.32	28.04	22.65
1:12	34.20	21.18	22.67	36.21	28.32	21.23	39.93	28.41	23.37	40.34	31.17	22.99						

1:17	34.52	21.48	22.77	36.36	28.87	21.29	40.21	28.92	23.52	40.76	31.79	22.97	40.43	23.85	22.60	34.60	28.58	22.78
1:18	34.58	21.54	22.80	36.38	28.98	21.30	40.26	29.03	23.55	40.82	31.90	22.95	40.51	23.94	22.61	34.63	28.67	22.79
1:19	34.66	21.61	22.84	36.39	29.08	21.32	40.32	29.12	23.58	40.86	32.02	22.94	40.58	24.02	22.61	34.65	28.76	22.82
1:20	34.72	21.67	22.87	36.44	29.19	21.33	40.41	29.22	23.61	40.93	32.14	22.95	40.64	24.11	22.62	34.66	28.85	22.83
1:21	34.76	21.73	22.89	36.52	29.29	21.33	40.47	29.33	23.64	40.97	32.26	22.97	40.69	24.19	22.62	34.69	28.94	22.85
1:22	34.81	21.79	22.91	36.56	29.40	21.35	40.51	29.43	23.66	41.02	32.37	22.98	40.69	24.28	22.63	34.73	29.03	22.87
1:23	34.87	21.85	22.92	36.59	29.49	21.36	40.54	29.53	23.69	41.10	32.49	23.01	40.72	24.37	22.64	34.78	29.12	22.89
1:24	34.90	21.92	22.95	36.64	29.60	21.37	40.60	29.63	23.73	41.15	32.60	23.02	40.77	24.45	22.64	34.78	29.20	22.91
1:25	34.94	21.98	22.97	36.65	29.70	21.39	40.64	29.72	23.75	41.22	32.71	23.03	40.80	24.54	22.64	34.77	29.29	22.93
1:26	34.99	22.04	23.00	36.69	29.80	21.39	40.71	29.82	23.77	41.28	32.83	23.04	40.84	24.62	22.64	34.77	29.38	22.95
1:27	35.03	22.10	23.01	36.75	29.91	21.40	40.76	29.92	23.81	41.33	32.94	23.05	40.87	24.71	22.65	34.80	29.46	22.97
1:28	35.09	22.16	23.03	36.80	30.00	21.41	40.81	30.02	23.84	41.38	33.05	23.06	40.89	24.79	22.65	34.85	29.55	22.99
1:29	35.14	22.23	23.06	36.85	30.10	21.43	40.86	30.11	23.86	41.39	33.15	23.07	40.97	24.88	22.66	34.91	29.63	23.01
1:30	35.18	22.29	23.08	36.94	30.20	21.43	40.95	30.21	23.89	41.40	33.26	23.08	41.01	24.96	22.67	34.97	29.71	23.03
1:31	35.23	22.35	23.10	37.02	30.29	21.44	41.03	30.31	23.92	41.46	33.37	23.09	41.06	25.05	22.67	35.01	29.80	23.05
1:32	35.26	22.42	23.11	37.04	30.39	21.46	41.10	30.40	23.95	41.50	33.48	23.10	41.10	25.13	22.68	35.05	29.88	23.07
1:33	35.28	22.47	23.12	37.09	30.49	21.48	41.19	30.50	23.97	41.56	33.58	23.11	41.11	25.22	22.70	35.12	29.97	23.09
1:34	35.36	22.54	23.13	37.15	30.58	21.49	41.26	30.60	24.00	41.59	33.68	23.12	41.15	25.30	22.71	35.20	30.05	23.11
1:35	35.40	22.61	23.16	37.19	30.68	21.50	41.32	30.69	24.02	41.60	33.79	23.13	41.20	25.39	22.72	35.25	30.13	23.12
1:36	35.44	22.67	23.18	37.22	30.78	21.51	41.39	30.79	24.04	41.61	33.89	23.16	41.24	25.47	22.73	35.29	30.22	23.14
1:37	35.48	22.73	23.21	37.28	30.87	21.53	41.45	30.89	24.07	41.64	33.99	23.14	41.23	25.56	22.74	35.32	30.30	23.15
1:38	35.54	22.79	23.23	37.30	30.97	21.54	41.52	30.98	24.09	41.67	34.10	23.11	41.32	25.64	22.75	35.38	30.38	23.17
1:39	35.60	22.86	23.26	37.37	31.06	21.55	41.60	31.08	24.11	41.73	34.20	23.10	41.35	25.73	22.75	35.40	30.47	23.18
1:40	35.64	22.92	23.28	37.45	31.16	21.56	41.65	31.17	24.13	41.77	34.30	23.09	41.36	25.81	22.76	35.39	30.55	23.20
1:41	35.69	22.98	23.30	37.52	31.25	21.57	41.73	31.26	24.15	41.78	34.40	23.08	41.38	25.89	22.77	35.40	30.63	23.22
1:42	35.71	23.04	23.32	37.61	31.34	21.58	41.80	31.36	24.18	41.81	34.50	23.06	41.41	25.98	22.78	35.42	30.71	23.23
1:43	35.74	23.11	23.35	37.71	31.43	21.58	41.87	31.46	24.18	41.85	34.59	23.06	41.44	26.06	22.79	35.44	30.79	23.25
1:44	35.78	23.17	23.37	37.76	31.52	21.59	41.90	31.54	24.21	41.84	34.69	23.06	41.44	26.15	22.80	35.46	30.87	23.27
1:45	35.82	23.23	23.38	37.80	31.61	21.59	41.94	31.64	24.22	41.87	34.79	23.07	41.46	26.23	22.81	35.50	30.95	23.28
1:46	35.84	23.30	23.40	37.75	31.70	21.60	41.99	31.72	24.24	41.92	34.88	23.08	41.51	26.32	22.82	35.57	31.03	23.30
1:47	35.89	23.35	23.40	37.75	31.79	21.60	42.06	31.81	24.26	42.00	34.98	23.08	41.55	26.40	22.83	35.60	31.10	23.31
1:48	35.95	23.42	23.43	37.76	31.88	21.57	42.13	31.91	24.28	42.03	35.07	23.08	41.52	26.48	22.84	35.66	31.18	23.32
1:49	35.98	23.48	23.43	37.79	31.96	21.52	42.18	32.00	24.30	42.04	35.16	23.09	41.54	26.56	22.86	35.72	31.26	23.34
1:50	36.01	23.55	23.45	37.84	32.05	21.50	42.24	32.08	24.32	42.09	35.25	23.09	41.56	26.65	22.87	35.80	31.34	23.35
1:51	36.04	23.60	23.46	37.91	32.14	21.50	42.27	32.18	24.35	42.12	35.35	23.11	41.56	26.73	22.88	35.88	31.41	23.36
1:52	36.08	23.66	23.47	37.97	32.22	21.51	42.32	32.26	24.38	42.22	35.44	23.11	41.55	26.81	22.89	35.92	31.49	23.38
1:53	36.12	23.74	23.47	38.04	32.30	21.54	42.38	32.34	24.40	42.29	35.52	23.11	41.58	26.89	22.90	35.98	31.57	23.39
1:54	36.14	23.80	23.49	38.12	32.40	21.55	42.44	32.44	24.43	42.35	35.61	23.13	41.64	26.98	22.93	36.06	31.64	23.40
1:55	36.18	23.86	23.50	38.14	32.48	21.56	42.52	32.53	24.46	42.43	35.70	23.15	41.68	27.06	22.94	36.13	31.72	23.42
1:56	36.21	23.92	23.50	38.14	32.56	21.58	42.53	32.61	24.49	42.46	35.79	23.17	41.73	27.14	22.96	36.19	31.79	23.43
1:57	36.25	23.98	23.52	38.19	32.64	21.59	42.59	32.70	24.52	42.55	35.88	23.15	41.73	27.22	22.97	36.21	31.87	23.44
1:58	36.29	24.04	23.52	38.25	32.73	21.60	42.62	32.79	24.54	42.63	35.97	23.16	41.79	27.30	22.99	36.26	31.94	23.46
1:59	36.29	24.10	23.54	38.33	32.81	21.61	42.63	32.88	24.56	42.62	36.05	23.15	41.88	27.38	23.01	36.33	32.02	23.47
2:00	36.28	24.16	23.55	38.42	32.89	21.58	42.69	32.96	24.59	42.68	36.14	23.14	41.94	27.46	23.03	36.39	32.09	23.48
2:01	36.30	24.23	23.56	38.45	32.97	21.54	42.75	33.04	24.61	42.73	36.22	23.14	42.00	27.54	23.05	36.46	32.16	23.49
2:02	36.32	24.30	23.59	38.47	33.06	21.52	42.82	33.13	24.65	42.66	36.30	23.13	42.04	27.62	23.06	36.53	32.24	23.50
2:03	36.32	24.36	23.57	38.43	33.14	21.52	42.85	33.22	24.66	42.74	36.39	23.16	42.07	27.70	23.08	36.58	32.31	23.51
2:04	36.36	24.42	23.60	38.42	33.22	21.51	42.89	33.30	24.69	42.67	36.47	23.16	42.09	27.77	23.09	36.62	32.38	23.52
2:05	36.43	24.48	23.62	38.43	33.29	21.51	42.93	33.39	24.71	42.62	36.55	23.18	42.12	27.85	23.10	36.66	32.46	23.53
2:06	36.50	24.53	23.65	38.47	33.37	21.50	42.98	33.47	24.74	42.67	36.63	23.19	42.15	27.93	23.10	36.66	32.53	23.54
2:07	36.55	24.59	23.67	38.52	33.45	21.52	43.04	33.55	24.76	42.73	36.71	23.21	42.18	28.00	23.12	36.67	32.60	23.55
2:08	36.58	24.66	23.70	38.56	33.53	21.51	43.08	33.63	24.79	42.75	36.79	23.23	42.21	28.08	23.13	36.71	32.67	23.57
2:09	36.62	24.71	23.72	38.61	33.61	21.48	43.12	33.71	24.81	42.79	36.86	23.24	42.26	28.15	23.14	36.79	32.74	23.58
2:10	36.61	24.78	23.75	38.65	33.68	21.49	43.16	33.79	24.84	42.81	36.94	23.24	42.29	28.23	23.14	36.85	32.82	23.59
2:11	36.60	24.84	23.78	38.67	33.75	21.52	43.21	33.88	24.87	42.84	37.02	23.23	42.37	28.31	23.15	36.89	32.89	23.61
2:12	36.64	24.90	23.81	38.67	33.83	21.54	43.25	33.96	24.89	42.90	37.10	23.22	42.41	28.38	23.15	36.91	32.96	23.62
2:13	36.68	24.96	23.83	38.70	33.91	21.56	43.28	34.04	24.91	42.91	37.18	23.23	42.45	28.46	23.17	36.96	33.03	23.64
2:14	36.72	25.03	23.87	38.73	33.98	21.58	43.31	34.12	24.94	42.92	37.25	23.23	42.44	28.53	23.18	37.04	33.10	23.65
2:15	36.75	25.08	23.89	38.78	34.05	21.60	43.34	34.21	24.97	43.00	37.33	23.24	42.48	28.60	23.19	37.10	33.17	23.66
2:16	36.79	25.14	23.93	38.81	34.12	21.62	43.36	34.28	24.99	43.09	37.41	23.25	42.51	28.68	23.20	37.16	33.24	23.67
2:17	36.79	25.21	23.96	38.84	34.20	21.63	43.42	34.37	25.02	43.07	37.48	23.23	42.53	28.75	23.20	37.16	33.31	23.69
2:18	36.80	25.26	23.97	38.83	34.27	21.64	43.45	34.45	25.05	43.10	37.56	23.23	42.57	28.82	23.21	37.20	33.38	23.70
2:19	36.84	25.32	24.00	38.84	34.34	21.66	43.49	34.52	25.08	43.12	37.63	23.23	42.60	28.90	23.22	37.26	33.45	23.71
2:20	36.86	25.38	24.04	38.93	34.42	21.67	43.55	34.61	25.12	43.12	37.71	23.23						

2:25	37.06	25.67	24.20	39.12	34.77	21.71	43.87	35.00	25.28	43.40	38.07	23.28	42.69	29.32	23.26	37.43	33.86	23.78
2:26	37.07	25.73	24.22	39.17	34.84	21.73	43.91	35.08	25.31	43.35	38.14	23.29	42.72	29.40	23.27	37.43	33.92	23.79
2:27	37.10	25.78	24.25	39.23	34.91	21.73	43.98	35.15	25.33	43.42	38.21	23.30	42.72	29.47	23.28	37.46	33.99	23.81
2:28	37.12	25.84	24.26	39.21	34.97	21.74	44.01	35.23	25.36	43.45	38.28	23.30	42.79	29.53	23.28	37.48	34.06	23.82
2:29	37.15	25.90	24.28	39.24	35.04	21.76	44.07	35.31	25.39	43.48	38.35	23.31	42.79	29.60	23.28	37.45	34.12	23.83
2:30	37.20	25.95	24.30	39.28	35.11	21.77	44.10	35.39	25.42	43.50	38.42	23.32	42.83	29.67	23.28	37.45	34.18	23.84
2:31	37.24	26.01	24.33	39.32	35.18	21.79	44.11	35.46	25.44	43.53	38.49	23.32	42.88	29.74	23.29	37.51	34.25	23.85
2:32	37.27	26.07	24.34	39.34	35.25	21.77	44.15	35.53	25.48	43.59	38.56	23.32	42.94	29.81	23.30	37.61	34.31	23.86
2:33	37.28	26.12	24.38	39.34	35.31	21.71	44.17	35.61	25.50	43.66	38.63	23.33	42.95	29.88	23.30	37.66	34.38	23.88
2:34	37.32	26.18	24.41	39.33	35.38	21.70	44.22	35.68	25.52	43.70	38.70	23.34	42.99	29.95	23.30	37.68	34.44	23.89
2:35	37.35	26.24	24.46	39.35	35.44	21.71	44.28	35.76	25.56	43.76	38.77	23.33	43.01	30.01	23.30	37.68	34.51	23.90
2:36	37.39	26.29	24.50	39.40	35.51	21.72	44.36	35.83	25.59	43.80	38.84	23.32	43.03	30.08	23.31	37.70	34.57	23.92
2:37	37.44	26.35	24.52	39.45	35.58	21.73	44.37	35.90	25.61	43.80	38.91	23.34	43.06	30.15	23.31	37.73	34.63	23.93
2:38	37.46	26.40	24.54	39.52	35.64	21.74	44.40	35.98	25.65	43.80	38.97	23.34	43.09	30.22	23.31	37.70	34.69	23.94
2:39	37.49	26.45	24.58	39.53	35.70	21.76	44.44	36.05	25.67	43.81	39.04	23.34	43.11	30.28	23.32	37.66	34.76	23.95
2:40	37.49	26.50	24.60	39.58	35.77	21.76	44.48	36.12	25.69	43.88	39.10	23.34	43.11	30.35	23.32	37.69	34.82	23.96
2:41	37.51	26.56	24.63	39.59	35.83	21.78	44.55	36.20	25.72	43.87	39.17	23.35	43.14	30.42	23.33	37.71	34.88	23.98
2:42	37.52	26.61	24.64	39.61	35.90	21.80	44.60	36.27	25.74	43.92	39.23	23.35	43.19	30.49	23.34	37.74	34.94	23.99
2:43	37.52	26.67	24.66	39.65	35.96	21.80	44.65	36.34	25.77	43.97	39.30	23.36	43.24	30.55	23.36	37.77	35.00	24.01
2:44	37.49	26.73	24.68	39.67	36.03	21.82	44.74	36.41	25.80	44.00	39.36	23.38	43.25	30.62	23.37	37.80	35.06	24.02
2:45	37.50	26.77	24.70	39.71	36.09	21.83	44.80	36.49	25.81	44.00	39.43	23.39	43.27	30.68	23.38	37.86	35.12	24.03
2:46	37.50	26.82	24.72	39.75	36.15	21.84	44.83	36.56	25.84	43.99	39.49	23.40	43.29	30.75	23.38	37.88	35.18	24.04
2:47	37.54	26.88	24.74	39.81	36.21	21.84	44.88	36.63	25.86	44.03	39.55	23.41	43.32	30.81	23.39	37.89	35.24	24.06
2:48	37.56	26.93	24.75	39.84	36.27	21.86	44.89	36.71	25.88	44.01	39.61	23.41	43.33	30.88	23.40	37.95	35.30	24.07
2:49	37.58	26.98	24.77	39.86	36.33	21.86	44.93	36.77	25.91	43.99	39.68	23.42	43.34	30.94	23.40	37.96	35.36	24.08
2:50	37.56	27.03	24.78	39.89	36.39	21.88	44.96	36.84	25.92	44.01	39.74	23.41	43.39	31.01	23.40	37.98	35.42	24.09
2:51	37.60	27.08	24.80	39.97	36.46	21.89	45.00	36.91	25.95	44.06	39.80	23.43	43.43	31.07	23.40	38.02	35.48	24.10
2:52	37.63	27.14	24.80	39.98	36.51	21.88	45.03	36.97	25.99	44.13	39.86	23.41	43.45	31.14	23.40	38.09	35.54	24.12
2:53	37.63	27.19	24.81	40.02	36.58	21.89	45.06	37.05	25.99	44.17	39.92	23.41	43.39	31.20	23.41	38.12	35.59	24.13
2:54	37.64	27.23	24.83	40.04	36.63	21.89	45.08	37.11	26.01	44.15	39.98	23.40	43.43	31.26	23.41	38.12	35.65	24.14
2:55	37.67	27.29	24.86	40.09	36.69	21.90	45.13	37.18	26.03	44.19	40.04	23.39	43.50	31.32	23.42	38.15	35.71	24.15
2:56	37.69	27.34	24.88	40.08	36.75	21.92	45.15	37.25	26.05	44.22	40.10	23.39	43.54	31.39	23.43	38.22	35.77	24.16
2:57	37.73	27.39	24.90	40.13	36.81	21.93	45.19	37.31	26.07	44.27	40.16	23.40	43.58	31.45	23.44	38.28	35.83	24.17
2:58	37.78	27.45	24.91	40.18	36.87	21.93	45.23	37.39	26.09	44.27	40.22	23.40	43.60	31.51	23.44	38.31	35.89	24.19
2:59	37.77	27.49	24.93	40.29	36.93	21.94	45.27	37.45	26.11	44.31	40.28	23.40	43.63	31.57	23.45	38.35	35.94	24.20
3:00	37.78	27.54	24.95	40.31	36.98	21.94	45.31	37.52	26.13	44.36	40.34	23.40	43.67	31.63	23.45	38.38	36.00	24.21
3:01	37.83	27.60	24.95	40.34	37.04	21.94	45.35	37.59	26.15	44.38	40.39	23.40	43.73	31.69	23.46	38.42	36.06	24.22
3:02	37.81	27.64	24.95	40.45	37.10	21.96	45.42	37.66	26.17	44.41	40.45	23.41	43.77	31.75	23.48	38.48	36.12	24.24
3:03	37.84	27.69	24.95	40.45	37.16	21.99	45.44	37.73	26.19	44.45	40.51	23.42	43.80	31.81	23.48	38.52	36.17	24.25
3:04	37.87	27.74	24.97	40.49	37.21	21.96	45.53	37.79	26.21	44.47	40.57	23.42	43.81	31.87	23.48	38.51	36.23	24.26
3:05	37.89	27.79	24.97	40.50	37.27	21.91	45.59	37.86	26.23	44.47	40.62	23.43	43.86	31.93	23.49	38.53	36.28	24.27
3:06	37.90	27.84	24.97	40.52	37.33	21.91	45.67	37.93	26.24	44.46	40.68	23.43	43.87	31.99	23.50	38.53	36.34	24.29
3:07	37.91	27.89	24.99	40.50	37.38	21.92	45.71	38.00	26.26	44.47	40.74	23.44	43.91	32.05	23.50	38.53	36.39	24.30
3:08	37.95	27.94	24.99	40.53	37.44	21.93	45.70	38.05	26.28	44.52	40.79	23.46	43.90	32.11	23.51	38.52	36.45	24.31
3:09	37.96	27.98	25.01	40.55	37.49	21.95	45.71	38.12	26.29	44.59	40.85	23.46	43.87	32.17	23.51	38.52	36.50	24.32
3:10	38.01	28.03	25.01	40.58	37.54	21.97	45.73	38.18	26.31	44.63	40.90	23.46	43.88	32.23	23.51	38.55	36.56	24.33
3:11	38.04	28.08	25.01	40.60	37.60	21.98	45.79	38.25	26.32	44.67	40.96	23.47	43.90	32.29	23.52	38.59	36.61	24.35
3:12	38.01	28.13	25.02	40.62	37.66	21.99	45.85	38.31	26.34	44.68	41.01	23.47	43.96	32.34	23.53	38.64	36.66	24.36
3:13	38.02	28.17	25.03	40.62	37.71	21.99	45.87	38.38	26.35	44.61	41.07	23.47	44.00	32.40	23.54	38.67	36.71	24.37
3:14	38.04	28.22	25.05	40.66	37.77	22.01	45.94	38.44	26.35	44.62	41.12	23.49	43.92	32.46	23.55	38.72	36.77	24.38
3:15	38.07	28.28	25.06	40.63	37.82	22.02	45.94	38.50	26.37	44.60	41.17	23.50	43.91	32.52	23.56	38.73	36.82	24.39
3:16	38.11	28.32	25.07	40.66	37.87	22.02	45.97	38.56	26.38	44.60	41.23	23.50	43.92	32.57	23.56	38.75	36.87	24.40
3:17	38.16	28.37	25.11	40.69	37.93	22.03	46.01	38.62	26.40	44.60	41.28	23.50	43.94	32.63	23.56	38.74	36.92	24.41
3:18	38.18	28.41	25.12	40.68	37.98	22.03	46.00	38.69	26.42	44.64	41.33	23.49	43.94	32.69	23.56	38.70	36.97	24.42
3:19	38.19	28.46	25.12	40.68	38.03	22.04	46.01	38.75	26.43	44.70	41.38	23.51	43.96	32.74	23.57	38.72	37.03	24.43
3:20	38.21	28.50	25.12	40.71	38.08	22.05	46.03	38.81	26.43	44.68	41.43	23.50	44.00	32.80	23.57	38.73	37.08	24.44
3:21	38.17	28.55	25.14	40.74	38.14	22.05	46.09	38.87	26.44	44.68	41.48	23.51	44.05	32.85	23.58	38.75	37.13	24.44
3:22	38.18	28.59	25.14	40.78	38.18	22.06	46.13	38.94	26.46	44.67	41.53	23.52	44.04	32.91	23.59	38.77	37.18	24.45
3:23	38.22	28.64	25.15	40.77	38.24	22.07	46.18	39.00	26.46	44.70	41.58	23.52	44.08	32.96	23.59	38.79	37.23	24.46
3:24	38.24	28.68	25.15	40.77	38.28	22.07	46.22	39.05	26.48	44.74	41.63	23.55	44.11	33.02	23.61	38.83	37.28	24.47
3:25	38.24	28.73	25.16	40.78	38.34	22.07	46.26	39.11	26.49	44.70	41.68	23.54	44.09	33.07	23.61	38.78	37.33	24.47
3:26	38.25	28.77	25.17	40.82	38.38	22.07	46.32	39.17	26.49	44.65	41.73	23.53	44.11	33.13	23.61	38.81	37.38	24.48
3:27	38.24	28.82	25.18	40.83	38.44	22.07	46.35	39.23	26.50	44.74	41.78	23.54	44.10	33.18	23.62	38.85	37.42	24.49
3:28	38.25	28.86	25.19	40.84	38.48	22.09	46.36	39.29	26.50	44.75	41.83	23.55						

3:33	38.37	29.09	25.21	40.98	38.73	22.06	46.51	39.58	26.53	44.90	42.06	23.53	44.13	33.50	23.65	39.11	37.72	24.54
3:34	38.38	29.13	25.22	41.03	38.78	22.03	46.53	39.64	26.54	45.00	42.11	23.53	44.14	33.56	23.65	39.16	37.76	24.54
3:35	38.40	29.17	25.25	41.08	38.82	22.02	46.57	39.69	26.54	45.06	42.16	23.52	44.15	33.61	23.65	39.20	37.81	24.55
3:36	38.42	29.22	25.27	41.13	38.88	22.03	46.62	39.75	26.55	45.10	42.20	23.51	44.20	33.66	23.65	39.25	37.86	24.55
3:37	38.41	29.25	25.28	41.14	38.91	22.04	46.65	39.81	26.56	45.16	42.25	23.51	44.23	33.71	23.65	39.27	37.91	24.56
3:38	38.44	29.30	25.29	41.17	38.96	22.04	46.71	39.87	26.55	45.18	42.30	23.52	44.31	33.76	23.66	39.31	37.95	24.56
3:39	38.48	29.35	25.30	41.19	39.02	22.05	46.74	39.93	26.55	45.17	42.35	23.51	44.30	33.81	23.66	39.28	38.00	24.57
3:40	38.51	29.39	25.29	41.24	39.06	22.06	46.79	39.99	26.55	45.18	42.39	23.52	44.33	33.87	23.66	39.31	38.05	24.57
3:41	38.57	29.43	25.32	41.26	39.10	22.06	46.82	40.04	26.55	45.15	42.44	23.53	44.37	33.92	23.67	39.37	38.10	24.58
3:42	38.58	29.47	25.34	41.34	39.15	22.08	46.87	40.10	26.55	45.20	42.48	23.52	44.37	33.97	23.67	39.39	38.14	24.58
3:43	38.56	29.51	25.35	41.35	39.20	22.08	46.88	40.15	26.55	45.20	42.53	23.53	44.33	34.02	23.68	39.44	38.19	24.59
3:44	38.56	29.55	25.35	41.38	39.25	22.09	46.91	40.21	26.56	45.25	42.58	23.53	44.31	34.07	23.68	39.47	38.24	24.59
3:45	38.56	29.59	25.35	41.41	39.29	22.09	46.93	40.27	26.55	45.31	42.62	23.52	44.35	34.12	23.68	39.50	38.29	24.60
3:46	38.56	29.64	25.36	41.40	39.34	22.10	46.99	40.32	26.56	45.36	42.67	23.53	44.36	34.17	23.69	39.56	38.34	24.60
3:47	38.59	29.68	25.36	41.40	39.39	22.10	47.04	40.38	26.56	45.43	42.72	23.53	44.37	34.22	23.69	39.62	38.38	24.60
3:48	38.62	29.72	25.38	41.38	39.43	22.11	47.06	40.44	26.57	45.49	42.76	23.53	44.45	34.27	23.71	39.65	38.43	24.61
3:49	38.65	29.76	25.39	41.39	39.48	22.12	47.06	40.50	26.57	45.52	42.81	23.53	44.43	34.32	23.71	39.64	38.48	24.62
3:50	38.69	29.80	25.40	41.41	39.52	22.13	47.07	40.55	26.56	45.50	42.86	23.55	44.46	34.37	23.72	39.66	38.53	24.63
3:51	38.71	29.84	25.41	41.49	39.57	22.14	47.13	40.61	26.57	45.48	42.90	23.54	44.50	34.42	23.72	39.70	38.57	24.64
3:52	38.69	29.89	25.43	41.53	39.61	22.15	47.20	40.66	26.56	45.51	42.95	23.54	44.51	34.46	23.73	39.70	38.62	24.65
3:53	38.71	29.92	25.43	41.56	39.66	22.16	47.24	40.71	26.57	45.51	42.99	23.54	44.52	34.51	23.74	39.72	38.66	24.66
3:54	38.74	29.96	25.46	41.61	39.70	22.17	47.26	40.77	26.56	45.49	43.04	23.56	44.52	34.56	23.74	39.77	38.71	24.67
3:55	38.75	30.01	25.46	41.64	39.74	22.18	47.27	40.82	26.57	45.45	43.08	23.58	44.58	34.61	23.75	39.81	38.75	24.68
3:56	38.79	30.04	25.47	41.65	39.79	22.19	47.29	40.88	26.57	45.49	43.13	23.60	44.57	34.66	23.74	39.83	38.80	24.69
3:57	38.82	30.08	25.48	41.70	39.84	22.20	47.34	40.93	26.57	45.47	43.17	23.60	44.60	34.70	23.73	39.84	38.84	24.70
3:58	38.85	30.12	25.50	41.72	39.87	22.21	47.38	40.99	26.58	45.53	43.21	23.60	44.68	34.75	23.74	39.86	38.89	24.70
3:59	38.87	30.16	25.52	41.69	39.92	22.22	47.41	41.04	26.57	45.57	43.26	23.60	44.74	34.80	23.74	39.88	38.93	24.70
4:00	38.87	30.20	25.53	41.73	39.97	22.23	47.48	41.09	26.57	45.47	43.30	23.62	44.76	34.85	23.76	39.88	38.98	24.71
4:01	38.85	30.24	25.54	41.78	40.01	22.23	47.54	41.14	26.57	45.50	43.34	23.63	44.83	34.89	23.76	39.85	39.02	24.71
4:02	38.81	30.28	25.55	41.78	40.05	22.24	47.61	41.19	26.56	45.47	43.38	23.63	44.85	34.94	23.77	39.89	39.06	24.72
4:03	38.82	30.31	25.56	41.78	40.09	22.24	47.65	41.25	26.57	45.36	43.43	23.64	44.89	34.99	23.78	39.95	39.11	24.73
4:04	38.80	30.35	25.57	41.80	40.13	22.26	47.68	41.30	26.56	45.39	43.47	23.66	44.90	35.03	23.79	40.00	39.15	24.74
4:05	38.79	30.39	25.58	41.85	40.18	22.28	47.72	41.35	26.56	45.43	43.51	23.66	44.90	35.08	23.80	40.04	39.19	24.75
4:06	38.75	30.43	25.59	41.88	40.22	22.25	47.71	41.40	26.56	45.47	43.55	23.70	44.94	35.13	23.81	40.09	39.23	24.75
4:07	38.77	30.47	25.59	41.85	40.27	22.21	47.72	41.46	26.56	45.49	43.59	23.74	44.95	35.17	23.82	40.13	39.28	24.76
4:08	38.75	30.51	25.61	41.89	40.31	22.20	47.74	41.51	26.55	45.45	43.63	23.73	44.95	35.22	23.82	40.17	39.32	24.76
4:09	38.79	30.54	25.63	41.89	40.35	22.21	47.77	41.56	26.55	45.47	43.67	23.73	44.95	35.26	23.83	40.16	39.36	24.77
4:10	38.85	30.59	25.64	41.97	40.40	22.22	47.82	41.60	26.54	45.48	43.71	23.75	44.97	35.31	23.84	40.16	39.40	24.78
4:11	38.87	30.62	25.66	42.02	40.44	22.24	47.85	41.66	26.56	45.55	43.75	23.77	44.98	35.35	23.84	40.11	39.45	24.79
4:12	38.86	30.66	25.67	42.10	40.48	22.25	47.86	41.71	26.54	45.60	43.79	23.78	45.02	35.40	23.84	40.10	39.49	24.80
4:13	38.84	30.69	25.70	42.20	40.52	22.26	47.93	41.76	26.54	45.61	43.83	23.78	45.06	35.44	23.84	40.12	39.53	24.81
4:14	38.83	30.74	25.70	42.23	40.56	22.28	47.97	41.81	26.54	45.65	43.87	23.79	45.11	35.49	23.84	40.16	39.57	24.82
4:15	38.80	30.77	25.71	42.27	40.60	22.28	48.00	41.86	26.54	45.66	43.91	23.80	45.11	35.53	23.84	40.17	39.61	24.83
4:16	38.84	30.81	25.73	42.37	40.64	22.30	48.02	41.91	26.54	45.60	43.95	23.80	45.14	35.58	23.85	40.24	39.65	24.83
4:17	38.80	30.84	25.74	42.40	40.69	22.31	48.07	41.96	26.53	45.57	43.99	23.80	45.16	35.62	23.86	40.28	39.69	24.84
4:18	38.81	30.88	25.77	42.38	40.72	22.32	48.11	42.01	26.54	45.56	44.03	23.79	45.16	35.67	23.87	40.28	39.73	24.85
4:19	38.84	30.91	25.76	42.35	40.77	22.33	48.16	42.06	26.55	45.57	44.07	23.79	45.12	35.71	23.88	40.29	39.77	24.86
4:20	38.84	30.95	25.77	42.28	40.80	22.34	48.17	42.10	26.54	45.59	44.11	23.80	45.12	35.75	23.88	40.31	39.81	24.86
4:21	38.82	30.99	25.78	42.29	40.85	22.35	48.20	42.15	26.53	45.66	44.14	23.83	45.16	35.80	23.89	40.35	39.85	24.87
4:22	38.86	31.02	25.80	42.34	40.88	22.36	48.21	42.21	26.54	45.72	44.18	23.88	45.20	35.84	23.90	40.41	39.90	24.87
4:23	38.91	31.06	25.79	42.30	40.92	22.37	48.24	42.25	26.53	45.77	44.22	23.92	45.18	35.88	23.91	40.43	39.94	24.88
4:24	38.92	31.10	25.81	42.30	40.97	22.38	48.31	42.30	26.54	45.71	44.26	23.90	45.13	35.93	23.90	40.35	39.98	24.89
4:25	38.92	31.13	25.82	42.28	41.00	22.39	48.36	42.35	26.54	45.61	44.30	23.90	45.12	35.97	23.90	40.31	40.02	24.90
4:26	38.87	31.17	25.82	42.31	41.04	22.39	48.41	42.39	26.53	45.53	44.33	23.90	45.11	36.01	23.91	40.31	40.06	24.91
4:27	38.83	31.21	25.83	42.34	41.08	22.40	48.43	42.44	26.53	45.55	44.37	23.89	45.10	36.05	23.91	40.28	40.10	24.92
4:28	38.84	31.24	25.84	42.31	41.12	22.41	48.42	42.49	26.53	45.54	44.41	23.90	45.14	36.10	23.91	40.28	40.14	24.92
4:29	38.85	31.27	25.84	42.27	41.16	22.42	48.43	42.53	26.53	45.58	44.44	23.89	45.14	36.14	23.91	40.28	40.18	24.93
4:30	38.90	31.31	25.85	42.23	41.20	22.43	48.43	42.58	26.53	45.61	44.48	23.89	45.18	36.18	23.91	40.28	40.21	24.94
4:31	38.95	31.34	25.85	42.24	41.23	22.43	48.46	42.63	26.54	45.70	44.52	23.90	45.14	36.22	23.90	40.30	40.25	24.94
4:32	38.98	31.37	25.86	42.28	41.27	22.44	48.48	42.67	26.54	45.74	44.55	23.89	45.17	36.26	23.90	40.32	40.29	24.95
4:33	38.95	31.42	25.87	42.31	41.31	22.46	48.48	42.72	26.53	45.69	44.59	23.89	45.24	36.31	23.91	40.36	40.33	24.96
4:34	39.01	31.45	25.87	42.32	41.35	22.47	48.50	42.76	26.55	45.68	44.63	23.89	45.30	36.35	23.91	40.37	40.36	24.97
4:35	39.07	31.48	25.88	42.33	41.38	22.48	48.52	42.80	26.55	45.71	44.66	23.90	45.37	36.39	23.91	40.38	40.40	24.97
4:36	39.08	31.52	25.90	42.34	41.42	22.44	48.51	42.85	26.56	45.77	44.70	23.92						

4:41	39.00	31.68	25.94	42.47	41.60	22.48	48.68	43.08	26.56	45.94	44.88	23.98	45.33	36.63	23.93	40.43	40.62	25.01
4:42	38.97	31.72	25.94	42.46	41.63	22.49	48.71	43.12	26.57	45.99	44.91	23.97	45.33	36.67	23.94	40.48	40.66	25.02
4:43	38.96	31.75	25.96	42.48	41.67	22.51	48.76	43.16	26.57	45.94	44.95	23.96	45.36	36.71	23.95	40.50	40.69	25.02
4:44	39.01	31.78	25.97	42.47	41.71	22.52	48.81	43.21	26.56	45.90	44.98	23.97	45.40	36.75	23.96	40.46	40.73	25.03
4:45	39.04	31.81	25.99	42.47	41.74	22.54	48.81	43.26	26.58	45.93	45.02	23.97	45.36	36.79	23.97	40.50	40.76	25.04
4:46	39.05	31.85	26.00	42.52	41.77	22.54	48.79	43.30	26.58	45.94	45.05	23.97	45.36	36.83	23.97	40.56	40.80	25.05
4:47	39.11	31.88	26.01	42.59	41.81	22.56	48.79	43.34	26.59	45.98	45.08	23.98	45.35	36.87	23.97	40.61	40.83	25.06
4:48	39.10	31.92	26.02	42.63	41.84	22.57	48.83	43.39	26.60	46.00	45.12	24.06	45.35	36.91	23.98	40.64	40.87	25.07
4:49	39.14	31.95	26.03	42.69	41.88	22.59	48.86	43.43	26.61	46.02	45.15	24.09	45.35	36.95	23.98	40.60	40.90	25.08
4:50	39.13	31.98	26.04	42.72	41.92	22.60	48.87	43.47	26.61	45.98	45.18	24.12	45.41	36.99	23.99	40.62	40.94	25.09
4:51	39.17	32.01	26.05	42.77	41.94	22.60	48.87	43.51	26.62	45.99	45.22	24.12	45.43	37.02	23.99	40.66	40.97	25.10
4:52	39.19	32.05	26.07	42.78	41.98	22.62	48.90	43.55	26.62	45.99	45.25	24.17	45.48	37.06	24.00	40.69	41.00	25.11
4:53	39.25	32.08	26.08	42.75	42.01	22.63	48.90	43.60	26.63	45.98	45.28	24.20	45.54	37.10	24.00	40.70	41.04	25.12
4:54	39.24	32.10	26.09	42.69	42.04	22.64	48.88	43.63	26.64	46.03	45.32	24.23	45.56	37.14	24.01	40.74	41.07	25.12
4:55	39.24	32.14	26.09	42.66	42.07	22.66	48.85	43.68	26.65	46.04	45.35	24.22	45.56	37.18	24.01	40.78	41.10	25.13
4:56	39.25	32.17	26.09	42.65	42.10	22.67	48.87	43.72	26.66	46.09	45.38	24.24	45.56	37.21	24.02	40.81	41.14	25.14
4:57	39.27	32.21	26.10	42.70	42.14	22.68	48.91	43.76	26.66	46.09	45.41	24.27	45.55	37.25	24.03	40.84	41.17	25.14
4:58	39.28	32.23	26.10	42.69	42.17	22.69	48.94	43.81	26.67	46.07	45.45	24.27	45.60	37.29	24.03	40.81	41.20	25.14
4:59	39.27	32.27	26.12	42.74	42.20	22.69	48.98	43.85	26.68	46.05	45.48	24.28	45.57	37.33	24.03	40.78	41.24	25.15
5:00	39.27	32.30	26.13	42.79	42.23	22.72	49.00	43.89	26.70	46.03	45.51	24.33	45.59	37.36	24.03	40.74	41.27	25.15
5:01	39.22	32.33	26.13	42.67	42.26	22.67	48.72	43.93	26.71	45.94	45.54	24.32	45.43	37.40	24.02	40.63	41.30	25.16
5:02	37.44	32.36	26.07	40.22	42.28	22.60	45.40	43.97	26.67	43.08	45.57	24.31	42.79	37.44	23.98	38.32	41.31	25.13
5:03	34.99	32.39	25.76	37.22	42.32	22.53	42.25	43.94	26.47	39.36	45.60	24.65	39.54	37.47	23.96	35.27	41.21	25.07
5:04	32.85	32.42	25.42	34.70	42.32	22.48	39.92	43.80	26.23	36.18	45.58	25.13	37.11	37.51	24.01	33.13	40.96	25.00
5:05	31.11	32.46	25.41	32.85	42.26	22.56	38.26	43.58	25.96	33.86	45.49	25.65	35.17	37.55	24.32	31.67	40.64	24.92
5:06	29.74	32.49	25.52	31.43	42.15	22.63	37.01	43.30	25.68	32.26	45.30	26.00	33.53	37.58	24.62	30.63	40.27	24.84
5:07	28.63	32.55	25.72	30.33	41.98	22.72	35.97	43.00	25.33	30.94	45.02	26.20	32.21	37.62	24.82	29.80	39.78	24.78
5:08	27.62	32.70	25.61	29.34	41.74	22.81	35.23	42.68	24.96	29.76	44.66	26.46	31.24	37.66	24.91	29.19	39.23	24.78
5:09	26.90	32.90	25.51	28.75	41.46	22.86	34.59	42.35	24.71	29.02	44.26	26.64	30.39	37.70	24.93	28.72	38.88	24.83
5:10	26.32	33.10	25.46	28.24	41.16	22.94	34.07	42.02	24.52	28.30	43.83	26.69	29.69	37.75	24.94	28.40	38.45	24.84
5:11	25.77	33.29	25.37	27.74	40.84	22.99	33.60	41.70	24.36	27.72	43.38	26.74	29.10	37.80	24.90	28.16	37.75	24.83
5:12	25.39	33.49	25.28	27.27	40.51	23.11	33.22	41.38	24.19	27.26	42.91	26.76	28.73	37.86	24.83	27.94	37.44	24.80
5:13	25.07	33.67	25.19	26.85	40.17	23.21	32.95	41.07	24.04	26.91	42.44	26.77	28.26	37.94	24.74	27.75	37.12	24.75
5:14	24.81	33.86	25.20	26.52	39.82	23.32	32.61	40.78	23.91	26.55	41.97	26.71	27.93	38.02	24.65	27.52	36.87	24.69
5:15	24.61	34.03	25.11	26.28	39.47	23.38	32.33	40.50	23.79	26.25	41.51	26.68	27.69	38.10	24.56	27.33	36.60	24.63
5:16	24.45	34.18	25.03	26.06	39.13	23.42	32.09	40.23	23.69	25.91	41.04	26.61	27.49	38.17	24.49	27.25	36.19	24.56
5:17	24.33	34.31	24.98	25.77	38.79	23.48	31.93	39.96	23.59	25.57	40.58	26.57	27.37	38.24	24.47	27.19	35.83	24.48
5:18	24.26	34.44	24.92	25.56	38.46	23.51	31.78	39.72	23.50	25.30	40.13	26.52	27.22	38.29	24.48	27.13	35.57	24.39
5:19	24.10	34.56	24.89	25.42	38.13	23.53	31.61	39.48	23.41	25.12	39.68	26.50	27.05	38.33	24.48	27.06	35.34	24.32
5:20	23.94	34.65	24.83	25.18	37.81	23.55	31.39	39.25	23.33	24.93	39.24	26.47	26.90	38.36	24.48	26.98	35.15	24.22
5:21	23.80	34.72	24.80	24.99	37.50	23.57	31.12	39.03	23.25	24.80	38.81	26.44	26.70	38.38	24.50	26.79	34.94	24.13
5:22	23.77	34.78	24.70	24.92	37.20	23.61	30.99	38.81	23.16	24.65	38.39	26.41	26.45	38.38	24.51	26.61	34.71	24.05
5:23	23.69	34.83	24.67	24.86	36.90	23.65	30.88	38.60	23.10	24.50	37.99	26.40	26.41	38.37	24.51	26.53	34.45	23.95
5:24	23.60	34.88	24.61	24.85	36.61	23.67	30.78	38.39	23.00	24.33	37.60	26.40	26.28	38.35	24.51	26.46	34.26	23.87
5:25	23.58	34.90	24.58	24.85	36.33	23.67	30.69	38.19	22.93	24.23	37.22	26.41	26.05	38.32	24.49	26.33	34.05	23.79
5:26	23.54	34.92	24.55	24.87	36.05	23.69	30.58	38.01	22.84	24.16	36.85	26.33	25.93	38.28	24.50	26.27	33.89	23.71
5:27	23.48	34.92	24.52	24.85	35.78	23.68	30.46	37.83	22.75	23.99	36.49	26.37	25.74	38.23	24.51	26.18	33.71	23.64
5:28	23.44	34.93	24.50	24.79	35.52	23.72	30.30	37.65	22.65	23.84	36.14	26.41	25.45	38.18	24.52	26.11	33.57	23.58
5:29	23.41	34.92	24.48	24.72	35.27	23.72	30.15	37.48	22.55	23.71	35.79	26.40	25.27	38.11	24.55	26.07	33.36	23.53
5:30	23.36	34.89	24.45	24.69	35.02	23.71	29.98	37.31	22.46	23.64	35.46	26.37	25.20	38.04	24.56	26.04	33.19	23.47
5:31	23.27	34.86	24.44	24.65	34.79	23.69	29.92	37.15	22.38	23.57	35.14	26.31	25.19	37.97	24.58	26.03	33.05	23.42
5:32	23.27	34.82	24.42	24.55	34.56	23.68	29.85	36.99	22.29	23.51	34.83	26.34	25.13	37.89	24.58	25.97	32.89	23.37
5:33	23.23	34.78	24.43	24.48	34.34	23.69	29.73	36.84	22.22	23.40	34.52	26.37	24.97	37.80	24.59	25.89	32.71	23.33
5:34	23.21	34.72	24.43	24.41	34.13	23.69	29.65	36.68	22.15	23.42	34.22	26.34	24.83	37.71	24.60	25.84	32.56	23.29
5:35	23.16	34.66	24.43	24.36	33.91	23.68	29.56	36.53	22.09	23.40	33.94	26.34	24.76	37.62	24.59	25.79	32.46	23.25
5:36	23.13	34.59	24.41	24.34	33.70	23.68	29.49	36.38	22.04	23.30	33.66	26.38	24.60	37.52	24.58	25.71	32.26	23.20
5:37	23.08	34.53	24.39	24.29	33.50	23.74	29.39	36.23	22.00	23.25	33.39	26.42	24.44	37.42	24.58	25.59	32.14	23.16
5:38	23.06	34.44	24.35	24.21	33.30	23.77	29.33	36.08	21.96	23.16	33.13	26.40	24.34	37.31	24.58	25.51	32.05	23.12
5:39	23.01	34.36	24.35	24.18	33.11	23.78	29.25	35.94	21.92	23.13	32.87	26.38	24.29	37.21	24.60	25.47	31.85	23.07
5:40	22.97	34.27	24.37	24.10	32.93	23.77	29.25	35.81	21.89	23.02	32.62	26.32	24.20	37.10	24.61	25.40	31.72	23.03
5:41	22.93	34.18	24.35	24.03	32.75	23.78	29.10	35.67	21.87	22.98	32.38	26.30	24.14	36.99	24.61	25.33	31.58	22.99
5:42	22.89	34.08	24.38	23.93	32.56	23.80	28.96	35.54	21.84	22.98	32.15	26.32	24.11	36.87	24.62	25.31	31.50	22.96
5:43	22.85	33.97	24.39	23.84	32.39	23.80	28.82	35.41	21.82	22.96	31.92	26.28	24.01	36.76	24.62	25.20	31.35	22.93
5:44	22.86	33.88	24.36	23.78	32.22	23.83	28.79	35.27	21.79	22.89	31.70	26.30						

5:49	22.65	33.33	24.30	23.54	31.39	23.89	28.41	34.64	21.65	22.66	30.68	26.13	23.49	36.03	24.57	24.85	30.59	22.76
5:50	22.59	33.22	24.30	23.49	31.22	23.86	28.33	34.50	21.63	22.60	30.49	26.13	23.40	35.91	24.59	24.80	30.48	22.74
5:51	22.55	33.12	24.31	23.48	31.07	23.86	28.26	34.38	21.57	22.54	30.31	26.16	23.39	35.78	24.57	24.77	29.94	22.71
5:52	22.56	32.99	24.23	23.44	30.91	23.83	28.18	34.26	21.55	22.45	30.13	26.17	23.36	35.66	24.54	24.74	29.78	22.68
5:53	22.60	32.88	24.26	23.39	30.77	23.84	28.08	34.14	21.52	22.43	29.95	26.15	23.24	35.53	24.52	24.64	29.69	22.65
5:54	22.57	32.76	24.29	23.31	30.61	23.83	27.94	34.02	21.50	22.41	29.78	26.16	23.24	35.41	24.50	24.56	29.57	22.63
5:55	22.51	32.63	24.26	23.21	30.47	23.84	27.91	33.90	21.47	22.36	29.61	26.10	23.24	35.28	24.53	24.52	29.50	22.60
5:56	22.46	32.51	24.23	23.07	30.33	23.82	27.86	33.78	21.43	22.32	29.45	26.01	23.26	35.16	24.53	24.52	29.33	22.57
5:57	22.45	32.38	24.19	23.02	30.17	23.79	27.82	33.66	21.40	22.30	29.29	26.01	23.18	35.03	24.54	24.48	29.25	22.55
5:58	22.43	32.25	24.18	22.95	30.01	23.74	27.71	33.56	21.37	22.28	29.13	26.03	23.18	34.91	24.53	24.40	29.22	22.52
5:59	22.38	32.14	24.15	22.92	29.86	23.74	27.61	33.44	21.34	22.26	28.98	26.00	23.20	34.78	24.49	24.40	29.03	22.48
6:00	22.35	32.02	24.09	22.84	29.72	23.73	27.52	33.33	21.32	22.25	28.83	25.99	23.24	34.66	24.47	24.43	28.94	22.44
6:01	22.31	31.90	24.26	22.87	29.59	23.73	27.45	33.22	21.29	22.21	28.69	26.06	23.21	34.54	24.45	24.42	28.83	22.41
6:02	22.23	31.80	24.64	22.86	29.47	23.73	27.45	33.10	21.27	22.13	28.55	26.29	23.22	34.41	24.52	24.46	28.76	22.38
6:03	22.18	31.72	24.76	22.82	29.37	23.60	27.49	33.00	21.25	22.05	28.43	26.31	23.31	34.29	24.60	24.56	28.69	22.35
6:04	22.14	31.64	24.71	22.90	29.26	23.41	27.55	32.91	21.23	22.01	28.33	26.15	23.40	34.18	24.60	24.70	28.63	22.32
6:05	22.12	31.57	24.54	22.94	29.19	23.21	27.59	32.84	21.20	22.01	28.24	25.88	23.39	34.08	24.49	24.84	28.57	22.29
6:06	22.06	31.50	24.32	22.98	29.11	23.00	27.63	32.76	21.17	22.03	28.16	25.56	23.43	33.97	24.36	24.99	28.51	22.26
6:07	22.05	31.43	24.04	23.02	29.03	22.80	27.68	32.69	21.15	22.02	28.10	25.24	23.47	33.88	24.21	25.09	28.46	22.23
6:08	22.07	31.37	23.79	23.13	28.96	22.57	27.75	32.62	21.12	22.05	28.04	24.92	23.52	33.78	24.04	25.10	28.41	22.21
6:09	22.06	31.30	23.56	23.22	28.89	22.37	27.81	32.55	21.09	22.11	27.98	24.59	23.56	33.69	23.86	25.15	28.35	22.18
6:10	22.03	31.23	23.38	23.26	28.83	22.17	27.84	32.48	21.06	22.13	27.93	24.26	23.59	33.60	23.67	25.19	28.29	22.16
6:11	22.05	31.16	23.18	23.27	28.77	21.96	27.86	32.41	21.02	22.12	27.89	23.97	23.61	33.52	23.49	25.20	28.23	22.13
6:12	22.06	31.10	22.98	23.28	28.72	21.78	27.84	32.35	20.99	22.13	27.84	23.68	23.68	33.43	23.30	25.27	28.17	22.10
6:13	22.02	31.04	22.80	23.26	28.65	21.60	27.82	32.28	20.96	22.14	27.80	23.42	23.73	33.35	23.12	25.33	28.12	22.08
6:14	22.03	30.98	22.64	23.27	28.60	21.45	27.81	32.21	20.93	22.14	27.76	23.18	23.72	33.27	22.95	25.33	28.06	22.05
6:15	22.03	30.91	22.49	23.29	28.54	21.29	27.78	32.14	20.89	22.14	27.72	22.96	23.72	33.19	22.78	25.35	28.00	22.02
6:16	22.05	30.85	22.32	23.32	28.49	21.13	27.76	32.07	20.86	22.16	27.68	22.77	23.67	33.11	22.63	25.29	27.95	22.00
6:17	22.07	30.80	22.16	23.31	28.44	20.99	27.74	32.00	20.82	22.22	27.65	22.58	23.63	33.04	22.48	25.25	27.88	21.97
6:18	22.05	30.74	22.02	23.33	28.38	20.86	27.75	31.92	20.79	22.24	27.61	22.41	23.67	32.96	22.33	25.28	27.82	21.94
6:19	22.05	30.68	21.86	23.30	28.33	20.73	27.72	31.85	20.76	22.21	27.58	22.26	23.67	32.89	22.19	25.30	27.76	21.92
6:20	22.06	30.62	21.72	23.31	28.28	20.62	27.68	31.79	20.74	22.20	27.54	22.12	23.71	32.82	22.06	25.27	27.69	21.89
6:21	22.07	30.56	21.60	23.27	28.22	20.50	27.68	31.71	20.70	22.17	27.51	21.99	23.75	32.74	21.92	25.29	27.63	21.86
6:22	22.08	30.51	21.48	23.26	28.16	20.42	27.65	31.65	20.67	22.17	27.47	21.86	23.73	32.67	21.80	25.26	27.57	21.84
6:23	22.08	30.45	21.38	23.26	28.11	20.33	27.64	31.57	20.64	22.18	27.44	21.74	23.74	32.61	21.68	25.23	27.50	21.81
6:24	22.09	30.40	21.30	23.29	28.06	20.26	27.63	31.51	20.61	22.16	27.41	21.64	23.75	32.54	21.57	25.22	27.44	21.78
6:25	22.11	30.35	21.21	23.32	28.01	20.17	27.62	31.44	20.59	22.12	27.37	21.53	23.75	32.47	21.46	25.18	27.38	21.76
6:26	22.12	30.30	21.12	23.34	27.96	20.10	27.60	31.37	20.55	22.08	27.34	21.45	23.72	32.40	21.36	25.12	27.32	21.74
6:27	22.12	30.24	21.04	23.38	27.91	20.03	27.55	31.31	20.52	22.06	27.31	21.37	23.70	32.34	21.27	25.11	27.26	21.71
6:28	22.12	30.19	20.96	23.41	27.86	19.98	27.45	31.24	20.49	22.05	27.27	21.30	23.65	32.27	21.18	25.03	27.19	21.69
6:29	22.16	30.14	20.89	23.43	27.81	19.91	27.38	31.17	20.46	22.05	27.24	21.24	23.61	32.21	21.10	24.97	27.13	21.67
6:30	22.18	30.09	20.82	23.46	27.75	19.87	27.33	31.10	20.43	22.04	27.21	21.17	23.59	32.15	21.02	24.94	27.07	21.65
6:31	22.20	30.05	20.74	23.45	27.71	19.81	27.22	31.04	20.42	22.04	27.18	21.12	23.57	32.08	20.93	24.89	27.00	21.62
6:32	22.21	30.00	20.67	23.46	27.66	19.77	27.11	30.97	20.38	22.01	27.15	21.06	23.56	32.02	20.85	24.84	26.93	21.60
6:33	22.23	29.95	20.61	23.46	27.62	19.70	27.05	30.91	20.37	22.02	27.11	21.00	23.55	31.96	20.78	24.80	26.87	21.58
6:34	22.23	29.90	20.54	23.43	27.57	19.65	26.95	30.84	20.33	22.01	27.08	20.96	23.57	31.90	20.71	24.80	26.81	21.55
6:35	22.21	29.87	20.49	23.42	27.52	19.61	26.88	30.77	20.31	21.97	27.05	20.90	23.58	31.84	20.65	24.78	26.75	21.53
6:36	22.22	29.80	20.42	23.35	27.48	19.58	26.79	30.71	20.28	21.95	27.02	20.86	23.58	31.78	20.58	24.73	26.69	21.51
6:37	22.22	29.76	20.38	23.36	27.44	19.54	26.74	30.65	20.25	21.91	26.99	20.81	23.59	31.73	20.52	24.65	26.63	21.49
6:38	22.22	29.72	20.31	23.38	27.39	19.51	26.69	30.59	20.23	21.89	26.96	20.76	23.59	31.67	20.46	24.57	26.58	21.47
6:39	22.22	29.67	20.27	23.38	27.34	19.46	26.62	30.52	20.20	21.87	26.93	20.72	23.57	31.61	20.40	24.48	26.52	21.45
6:40	22.22	29.63	20.21	23.33	27.30	19.43	26.54	30.47	20.17	21.85	26.90	20.68	23.55	31.56	20.35	24.40	26.46	21.43
6:41	22.23	29.58	20.15	23.29	27.25	19.40	26.47	30.40	20.14	21.85	26.87	20.64	23.50	31.50	20.31	24.31	26.40	21.41
6:42	22.26	29.54	20.11	23.28	27.21	19.37	26.40	30.34	20.12	21.85	26.84	20.61	23.47	31.44	20.26	24.25	26.34	21.39
6:43	22.30	29.51	20.06	23.26	27.17	19.33	26.36	30.27	20.10	21.86	26.81	20.57	23.46	31.39	20.22	24.21	26.28	21.37
6:44	22.32	29.47	20.02	23.26	27.13	19.32	26.34	30.21	20.07	21.85	26.78	20.55	23.46	31.34	20.18	24.19	26.22	21.35
6:45	22.32	29.41	19.99	23.28	27.09	19.29	26.30	30.15	20.05	21.83	26.75	20.52	23.46	31.28	20.14	24.19	26.16	21.33
6:46	22.32	29.37	19.95	23.28	27.04	19.27	26.24	30.08	20.02	21.82	26.72	20.49	23.43	31.23	20.11	24.17	26.10	21.31
6:47	22.29	29.34	19.90	23.28	27.00	19.26	26.22	30.02	20.00	21.80	26.69	20.44	23.42	31.18	20.07	24.14	26.04	21.29
6:48	22.28	29.29	19.86	23.26	26.96	19.23	26.17	29.97	19.98	21.81	26.66	20.41	23.40	31.12	20.04	24.12	25.99	21.27
6:49	22.26	29.25	19.82	23.22	26.92	19.23	26.13	29.91	19.95	21.82	26.63	20.39	23.39	31.07	20.00	24.10	25.94	21.25
6:50	22.25	29.20	19.77	23.23	26.88	19.21	26.11	29.85	19.93	21.83	26.60	20.35	23.40	31.02	19.97	24.08	25.88	21.23
6:51	22.25	29.17	19.73	23.21	26.83	19.18	26.05	29.79	19.92	21.82	26.57	20.32	23.39	30.97	19.93	24.05	25.83	21.21
6:52	22.25	29.13	19.69	23.19	26.80	19.15	26.01	29.73	19.90	21.80	26.55	20.30						

6:57	22.20	28.93	19.53	23.21	26.60	19.08	25.91	29.45	19.80	21.78	26.41	20.16	23.39	30.67	19.76	23.92	25.51	21.10
6:58	22.22	28.88	19.50	23.14	26.56	19.07	25.84	29.40	19.78	21.79	26.38	20.13	23.37	30.62	19.74	23.87	25.46	21.08
6:59	22.21	28.85	19.47	23.12	26.51	19.05	25.79	29.35	19.77	21.80	26.36	20.10	23.35	30.57	19.72	23.85	25.41	21.06
7:00	22.21	28.81	19.43	23.10	26.47	19.04	25.73	29.29	19.75	21.82	26.33	20.09	23.32	30.52	19.69	23.80	25.35	21.05
7:01	22.20	28.76	19.39	23.08	26.44	19.03	25.66	29.23	19.73	21.82	26.30	20.07	23.29	30.48	19.67	23.76	25.30	21.03
7:02	22.21	28.73	19.38	23.03	26.39	19.01	25.63	29.18	19.71	21.81	26.28	20.04	23.25	30.43	19.65	23.72	25.25	21.01
7:03	22.20	28.69	19.36	23.02	26.36	19.00	25.58	29.13	19.68	21.79	26.25	20.01	23.22	30.38	19.62	23.69	25.20	20.99
7:04	22.18	28.65	19.34	23.02	26.32	19.01	25.58	29.06	19.67	21.76	26.22	20.00	23.19	30.34	19.60	23.68	25.15	20.97
7:05	22.17	28.61	19.31	23.04	26.28	19.00	25.57	29.01	19.67	21.73	26.20	19.98	23.14	30.29	19.58	23.64	25.10	20.96
7:06	22.15	28.58	19.30	23.02	26.24	18.95	25.53	28.95	19.64	21.72	26.17	19.97	23.13	30.24	19.55	23.59	25.05	20.94
7:07	22.13	28.54	19.27	22.98	26.21	18.97	25.49	28.91	19.62	21.70	26.14	19.96	23.13	30.20	19.53	23.58	25.00	20.92
7:08	22.10	28.50	19.24	22.89	26.17	18.95	25.43	28.86	19.61	21.70	26.11	19.95	23.12	30.15	19.51	23.58	24.95	20.90
7:09	22.08	28.46	19.22	22.90	26.14	18.95	25.37	28.80	19.59	21.70	26.09	19.93	23.08	30.11	19.49	23.55	24.90	20.88
7:10	22.06	28.42	19.20	22.90	26.10	18.92	25.33	28.75	19.57	21.71	26.06	19.90	23.07	30.06	19.48	23.51	24.86	20.87
7:11	22.02	28.40	19.18	22.90	26.06	18.93	25.27	28.70	19.55	21.71	26.03	19.88	23.04	30.02	19.47	23.47	24.81	20.85
7:12	22.02	28.36	19.16	22.87	26.02	18.93	25.22	28.65	19.54	21.71	26.01	19.86	23.03	29.97	19.46	23.44	24.76	20.84
7:13	22.02	28.32	19.14	22.85	25.99	18.90	25.18	28.60	19.53	21.70	25.98	19.85	23.05	29.93	19.44	23.42	24.71	20.82
7:14	22.00	28.29	19.13	22.85	25.95	18.91	25.18	28.54	19.50	21.71	25.95	19.83	23.07	29.89	19.42	23.43	24.67	20.81
7:15	21.98	28.24	19.12	22.86	25.92	18.89	25.17	28.49	19.49	21.71	25.93	19.81	23.03	29.84	19.40	23.41	24.63	20.79

Appendix E

Test Three Results in Celsius

	Thermistors (1-18)																	
Time	T1	T2	T3	T4	T5	T6	T7	T8	T9	T10	T11	T12	T13	T14	T15	T16	T17	T18
0:00	20.14	19.76	19.29	19.86	19.27	19.59	20.31	19.92	19.73	21.83	19.63	19.67	19.93	19.29	19.95	20.32	19.97	19.45
0:01	20.15	19.76	19.30	19.85	19.28	19.57	20.30	19.92	19.73	21.82	19.64	19.66	19.93	19.30	19.94	20.32	19.96	19.45
0:02	20.73	19.76	19.34	20.23	19.28	19.56	20.82	19.93	19.79	22.38	19.64	19.73	20.34	19.29	19.94	20.87	19.97	19.48
0:03	21.63	19.76	19.42	20.94	19.30	19.55	21.71	19.93	19.90	23.30	19.64	19.86	21.01	19.30	19.94	21.76	19.97	19.56
0:04	22.51	19.77	19.49	21.67	19.36	19.54	22.63	19.93	20.04	24.24	19.64	20.02	21.73	19.29	19.97	22.64	19.98	19.66
0:05	23.31	19.77	19.57	22.38	19.47	19.57	23.51	19.96	20.19	25.08	19.64	20.20	22.40	19.30	20.00	23.49	20.01	19.76
0:06	24.05	19.75	19.66	23.05	19.59	19.59	24.36	20.00	20.35	25.88	19.64	20.39	23.02	19.30	20.04	24.32	20.07	19.88
0:07	24.73	19.77	19.76	23.65	19.72	19.61	25.15	20.06	20.51	26.63	19.65	20.57	23.59	19.31	20.08	25.10	20.14	19.99
0:08	25.38	19.76	19.85	24.21	19.87	19.63	25.88	20.15	20.67	27.33	19.65	20.75	24.12	19.32	20.12	25.82	20.23	20.10
0:09	25.95	19.77	19.95	24.73	20.02	19.66	26.56	20.24	20.84	28.00	19.65	20.93	24.60	19.34	20.15	26.47	20.33	20.22
0:10	26.52	19.76	20.04	25.20	20.19	19.68	27.18	20.35	20.99	28.60	19.65	21.10	25.05	19.36	20.20	27.07	20.46	20.35
0:11	27.04	19.77	20.13	25.67	20.34	19.71	27.78	20.47	21.13	29.15	19.65	21.27	25.49	19.40	20.24	27.65	20.61	20.45
0:12	27.51	19.77	20.23	26.07	20.49	19.75	28.32	20.60	21.26	29.62	19.66	21.44	25.90	19.42	20.28	28.16	20.75	20.57
0:13	27.96	19.79	20.33	26.45	20.64	19.79	28.84	20.74	21.38	30.12	19.67	21.60	26.28	19.45	20.33	28.65	20.90	20.68
0:14	28.38	19.81	20.41	26.82	20.79	19.83	29.34	20.87	21.50	30.56	19.67	21.75	26.63	19.49	20.37	29.10	21.06	20.79
0:15	28.78	19.82	20.52	27.12	20.94	19.89	29.78	21.02	21.61	30.97	19.68	21.90	26.96	19.54	20.42	29.55	21.23	20.89
0:16	29.13	19.83	20.60	27.41	21.09	19.94	30.21	21.17	21.74	31.37	19.70	22.06	27.26	19.58	20.46	29.99	21.40	21.00
0:17	29.44	19.85	20.70	27.70	21.23	20.00	30.66	21.32	21.85	31.75	19.72	22.20	27.53	19.62	20.51	30.36	21.58	21.11
0:18	29.78	19.87	20.78	28.00	21.38	20.04	31.07	21.47	21.96	32.10	19.72	22.34	27.79	19.68	20.56	30.74	21.73	21.22
0:19	30.10	19.89	20.86	28.28	21.52	20.10	31.46	21.63	22.07	32.41	19.74	22.47	28.04	19.73	20.60	31.07	21.91	21.32
0:20	30.42	19.93	20.93	28.55	21.66	20.14	31.84	21.78	22.17	32.74	19.76	22.61	28.27	19.79	20.66	31.40	22.08	21.42
0:21	30.71	19.96	21.01	28.82	21.79	20.18	32.22	21.93	22.27	33.06	19.78	22.74	28.51	19.85	20.70	31.72	22.25	21.53
0:22	30.95	19.99	21.07	29.03	21.93	20.23	32.57	22.08	22.37	33.37	19.81	22.86	28.72	19.91	20.75	32.02	22.42	21.62
0:23	31.17	20.02	21.14	29.23	22.06	20.28	32.90	22.23	22.46	33.64	19.83	22.98	28.92	19.97	20.80	32.32	22.60	21.73
0:24	31.44	20.06	21.21	29.42	22.19	20.31	33.22	22.39	22.55	33.89	19.86	23.11	29.10	20.02	20.87	32.60	22.77	21.82
0:25	31.65	20.11	21.26	29.61	22.32	20.36	33.50	22.54	22.63	34.14	19.89	23.25	29.25	20.10	20.92	32.88	22.94	21.91
0:26	31.85	20.15	21.32	29.78	22.46	20.41	33.78	22.69	22.71	34.39	19.93	23.37	29.42	20.17	20.97	33.16	23.12	22.00
0:27	32.09	20.18	21.39	29.94	22.59	20.45	34.05	22.83	22.78	34.64	19.96	23.47	29.54	20.23	21.03	33.41	23.27	22.09
0:28	32.27	20.23	21.43	30.07	22.70	20.50	34.25	23.00	22.85	34.84	20.00	23.59	29.68	20.30	21.10	33.66	23.44	22.18
0:29	32.44	20.28	21.48	30.20	22.82	20.54	34.45	23.15	22.91	35.05	20.04	23.68	29.79	20.37	21.15	33.89	23.61	22.26
0:30	32.60	20.33	21.53	30.32	22.94	20.58	34.64	23.30	22.98	35.22	20.08	23.78	29.90	20.45	21.20	34.08	23.76	22.35
0:31	32.75	20.39	21.59	30.47	23.07	20.63	34.85	23.44	23.04	35.39	20.12	23.87	30.00	20.51	21.25	34.27	23.93	22.42
0:32	32.90	20.43	21.61	30.59	23.18	20.66	35.07	23.59	23.09	35.56	20.17	23.96	30.11	20.60	21.30	34.49	24.09	22.50
0:33	33.05	20.49	21.62	30.72	23.29	20.71	35.28	23.73	23.16	35.71	20.21	24.04	30.18	20.66	21.35	34.69	24.26	22.56
0:34	33.20	20.54	21.64	30.85	23.41	20.75	35.46	23.88	23.20	35.87	20.26	24.12	30.30	20.74	21.41	34.85	24.40	22.63
0:35	33.36	20.60	21.66	30.98	23.53	20.80	35.65	24.03	23.26	36.03	20.31	24.19	30.35	20.81	21.46	35.03	24.56	22.69
0:36	33.50	20.65	21.68	31.10	23.64	20.83	35.81	24.17	23.31	36.19	20.36	24.29	30.44	20.89	21.51	35.21	24.71	22.75
0:37	33.64	20.72	21.70	31.20	23.76	20.87	35.93	24.31	23.36	36.32	20.40	24.35	30.55	20.96	21.56	35.33	24.87	22.82
0:38	33.77	20.77	21.73	31.33	23.87	20.92	36.08	24.45	23.41	36.47	20.45	24.42	30.66	21.04	21.62	35.48	25.02	22.89
0:39	33.91	20.83	21.74	31.45	23.99	20.96	36.24	24.59	23.46	36.61	20.51	24.48	30.77	21.11	21.66	35.64	25.17	22.93

0:40	34.03	20.90	21.74	31.56	24.09	21.00	36.37	24.73	23.51	36.73	20.56	24.56	30.87	21.20	21.69	35.79	25.33	23.00
0:41	34.15	20.95	21.76	31.66	24.21	21.05	36.51	24.87	23.53	36.86	20.62	24.62	30.95	21.27	21.75	35.91	25.47	23.05
0:42	34.28	21.01	21.77	31.75	24.31	21.09	36.67	25.01	23.56	36.99	20.66	24.68	31.03	21.35	21.79	36.03	25.61	23.09
0:43	34.38	21.07	21.79	31.87	24.43	21.14	36.81	25.16	23.59	37.12	20.72	24.75	31.11	21.43	21.84	36.16	25.76	23.14
0:44	34.50	21.14	21.80	31.98	24.52	21.16	36.96	25.28	23.61	37.23	20.78	24.81	31.20	21.51	21.88	36.26	25.91	23.19
0:45	34.60	21.20	21.82	32.08	24.64	21.21	37.09	25.43	23.64	37.33	20.84	24.86	31.29	21.58	21.92	36.34	26.05	23.24
0:46	34.67	21.28	21.83	32.17	24.75	21.25	37.23	25.56	23.67	37.45	20.89	24.92	31.38	21.66	21.97	36.44	26.19	23.27
0:47	34.75	21.33	21.85	32.26	24.85	21.28	37.34	25.69	23.71	37.56	20.95	24.97	31.49	21.74	22.00	36.54	26.34	23.30
0:48	34.87	21.39	21.85	32.36	24.95	21.33	37.45	25.83	23.75	37.69	21.00	25.03	31.55	21.83	22.04	36.64	26.47	23.34
0:49	34.96	21.46	21.85	32.43	25.05	21.36	37.56	25.97	23.80	37.79	21.07	25.07	31.63	21.91	22.09	36.74	26.61	23.38
0:50	35.03	21.53	21.86	32.51	25.16	21.40	37.67	26.09	23.83	37.85	21.13	25.10	31.75	21.98	22.11	36.84	26.75	23.42
0:51	35.14	21.59	21.86	32.61	25.26	21.45	37.76	26.23	23.87	37.93	21.18	25.16	31.83	22.06	22.15	36.96	26.88	23.46
0:52	35.22	21.66	21.87	32.67	25.36	21.48	37.82	26.35	23.91	38.02	21.24	25.22	31.85	22.14	22.18	37.08	27.02	23.49
0:53	35.29	21.72	21.87	32.73	25.47	21.52	37.89	26.50	23.95	38.06	21.31	25.27	31.94	22.22	22.22	37.20	27.15	23.53
0:54	35.35	21.79	21.89	32.80	25.56	21.55	37.94	26.61	23.98	38.16	21.36	25.31	32.02	22.29	22.25	37.34	27.30	23.57
0:55	35.42	21.86	21.88	32.90	25.67	21.59	38.03	26.74	24.01	38.28	21.43	25.35	32.06	22.37	22.28	37.42	27.43	23.59
0:56	35.50	21.92	21.88	32.98	25.77	21.62	38.10	26.87	24.04	38.39	21.48	25.40	32.12	22.45	22.31	37.48	27.56	23.62
0:57	35.59	21.99	21.89	33.07	25.86	21.66	38.18	27.00	24.07	38.47	21.55	25.44	32.18	22.54	22.34	37.54	27.69	23.65
0:58	35.68	22.06	21.89	33.15	25.96	21.69	38.25	27.12	24.11	38.56	21.60	25.48	32.22	22.61	22.36	37.60	27.83	23.67
0:59	35.72	22.13	21.89	33.22	26.06	21.71	38.31	27.25	24.13	38.67	21.66	25.51	32.25	22.69	22.38	37.69	27.95	23.70
1:00	35.77	22.19	21.89	33.28	26.15	21.74	38.36	27.37	24.15	38.75	21.72	25.54	32.28	22.77	22.41	37.78	28.08	23.73
1:01	35.82	22.26	21.88	33.35	26.25	21.77	38.44	27.50	24.15	38.82	21.79	25.57	32.34	22.86	22.43	37.90	28.21	23.75
1:02	35.87	22.32	21.89	33.43	26.35	21.79	38.49	27.62	24.16	38.86	21.85	25.60	32.39	22.92	22.45	37.98	28.34	23.78
1:03	35.93	22.39	21.88	33.46	26.43	21.82	38.54	27.73	24.17	38.89	21.91	25.63	32.45	23.00	22.48	38.06	28.46	23.79
1:04	35.97	22.46	21.88	33.51	26.53	21.85	38.58	27.86	24.18	38.96	21.97	25.65	32.50	23.08	22.49	38.14	28.58	23.81
1:05	36.04	22.53	21.88	33.55	26.62	21.88	38.62	27.97	24.20	39.01	22.04	25.69	32.51	23.15	22.52	38.21	28.71	23.84
1:06	36.10	22.59	21.87	33.61	26.71	21.91	38.70	28.09	24.24	39.08	22.10	25.70	32.53	23.23	22.53	38.28	28.83	23.85
1:07	36.14	22.66	21.87	33.67	26.80	21.93	38.75	28.21	24.25	39.14	22.16	25.74	32.56	23.31	22.55	38.34	28.95	23.88
1:08	36.21	22.73	21.88	33.74	26.89	21.96	38.78	28.32	24.29	39.22	22.22	25.77	32.59	23.38	22.57	38.44	29.06	23.89
1:09	36.23	22.79	21.88	33.81	26.97	21.98	38.82	28.44	24.32	39.26	22.29	25.77	32.64	23.45	22.58	38.49	29.18	23.91
1:10	36.28	22.87	21.88	33.88	27.07	22.01	38.87	28.55	24.34	39.30	22.35	25.78	32.68	23.53	22.60	38.58	29.29	23.93
1:11	36.34	22.94	21.87	33.94	27.16	22.04	38.91	28.67	24.38	39.32	22.42	25.78	32.69	23.61	22.61	38.64	29.41	23.95
1:12	36.38	23.00	21.87	34.00	27.24	22.07	38.96	28.78	24.41	39.35	22.47	25.79	32.79	23.69	22.62	38.69	29.52	23.96
1:13	36.45	23.07	21.86	34.04	27.33	22.09	39.01	28.90	24.43	39.45	22.54	25.80	32.84	23.76	22.64	38.78	29.64	23.99
1:14	36.51	23.13	21.87	34.08	27.42	22.12	39.07	29.01	24.46	39.53	22.61	25.80	32.90	23.84	22.65	38.85	29.75	24.00
1:15	36.58	23.20	21.89	34.14	27.51	22.16	39.12	29.12	24.49	39.58	22.67	25.82	32.90	23.90	22.66	38.90	29.86	24.03
1:16	36.64	23.27	21.90	34.19	27.60	22.19	39.16	29.23	24.47	39.63	22.73	25.85	32.95	23.98	22.68	38.98	29.97	24.04
1:17	36.68	23.33	21.91	34.23	27.68	22.21	39.23	29.33	24.47	39.67	22.79	25.89	33.02	24.05	22.70	39.03	30.09	24.06
1:18	36.67	23.41	21.93	34.30	27.77	22.25	39.29	29.45	24.47	39.68	22.86	25.91	33.10	24.13	22.71	39.05	30.20	24.08
1:19	36.67	23.47	21.94	34.33	27.85	22.27	39.32	29.55	24.48	39.73	22.92	25.92	33.17	24.20	22.72	39.10	30.31	24.09
1:20	36.71	23.53	21.94	34.39	27.93	22.30	39.38	29.66	24.49	39.78	22.98	25.94	33.22	24.27	22.73	39.17	30.42	24.11
1:21	36.72	23.60	21.92	34.44	28.02	22.32	39.45	29.77	24.51	39.83	23.05	25.95	33.29	24.34	22.75	39.23	30.52	24.13
1:22	36.75	23.67	21.92	34.49	28.11	22.36	39.49	29.87	24.54	39.82	23.11	25.94	33.32	24.41	22.75	39.27	30.63	24.13
1:23	36.79	23.73	21.92	34.55	28.19	22.38	39.52	29.98	24.56	39.83	23.17	25.96	33.37	24.48	22.77	39.33	30.73	24.16
1:24	36.78	23.80	21.90	34.61	28.27	22.41	39.56	30.09	24.58	39.88	23.24	25.97	33.43	24.55	22.78	39.38	30.84	24.17
1:25	36.79	23.86	21.90	34.65	28.35	22.44	39.60	30.19	24.60	39.92	23.30	25.98	33.47	24.62	22.79	39.41	30.94	24.18
1:26	36.81	23.93	21.90	34.68	28.43	22.47	39.64	30.28	24.63	39.92	23.37	25.97	33.48	24.69	22.81	39.44	31.05	24.20
1:27	36.83	23.99	21.90	34.73	28.51	22.50	39.70	30.39	24.66	39.96	23.43	25.97	33.52	24.77	22.81	39.50	31.15	24.22
1:28	36.89	24.06	21.89	34.78	28.59	22.53	39.76	30.49	24.68	40.00	23.49	25.97	33.56	24.83	22.83	39.55	31.25	24.23
1:29	36.92	24.12	21.88	34.83	28.68	22.56	39.82	30.59	24.70	40.03	23.56	25.97	33.59	24.90	22.84	39.58	31.35	24.24
1:30	36.98	24.19	21.87	34.84	28.75	22.59	39.88	30.70	24.72	40.11	23.62	25.97	33.64	24.97	22.85	39.63	31.46	24.25
1:31	36.98	24.25	21.88	34.89	28.84	22.63	39.94	30.79	24.75	40.13	23.68	25.98	33.70	25.04	22.87	39.69	31.55	24.26
1:32	37.00	24.31	21.87	34.94	28.91	22.66	39.95	30.89	24.74	40.16	23.74	25.99	33.74	25.11	22.88	39.77	31.65	24.28
1:33	37.02	24.38	21.86	34.99	28.99	22.70	39.98	30.99	24.73	40.26	23.81	25.99	33.76	25.17	22.89	39.82	31.75	24.30
1:34	37.07	24.44	21.86	35.04	29.07	22.73	40.02	31.08	24.73	40.36	23.87	26.01	33.78	25.24	22.90	39.83	31.85	24.32
1:35	37.11	24.51	21.86	35.12	29.15	22.76	40.07	31.19	24.73	40.37	23.93	26.03	33.86	25.31	22.91	39.89	31.94	24.33
1:36	37.21	24.57	21.84	35.16	29.23	22.79	40.14	31.28	24.75	40.41	23.99	26.03	33.90	25.38	22.94	39.94	32.04	24.36
1:37	37.23	24.63	21.85	35.22	29.31	22.82	40.18	31.37	24.76	40.42	24.05	26.04	33.92	25.44	22.95	40.00	32.14	24.36
1:38	37.27	24.70	21.84	35.28	29.39	22.85	40.23	31.47	24.79	40.45	24.11	26.04	33.95	25.50	22.96	40.06	32.24	24.37
1:39	37.32	24.76	21.85	35.34	29.46	22.89	40.30	31.56	24.82	40.52	24.18	26.05	33.99	25.58	22.97	40.11	32.33	24.39
1:40	37.35	24.82	21.85	35.40	29.54	22.92	40.38	31.65	24.85	40.58	24.24	26.06	34.03	25.64	22.99	40.11	32.43	24.40
1:41	37.37	24.89	21.85	35.45	29.60	22.94	40.41	31.75	24.88	40.58	24.30	26.05	34.04	25.71	23.00	40.11	32.52	24.41
1:42	37.37	24.95	21.87	35.48	29.69	22.97	40.46	31.84	24.91	40.59	24.36	26.08	34.08	25.77	23.01	40.15	32.60	24.42
1:43	37.39	25.01	21.87	35.53	29.76	23.00	40.47	31.93	24.94	40.62	24.41	26.09						

1:48	37.61	25.32	21.89	35.68	30.12	23.14	40.66	32.38	25.02	40.78	24.72	26.13	34.28	26.16	23.11	40.36	33.14	24.51
1:49	37.60	25.39	21.88	35.71	30.19	23.16	40.72	32.47	25.05	40.78	24.78	26.15	34.33	26.22	23.12	40.36	33.24	24.52
1:50	37.65	25.45	21.88	35.76	30.27	23.19	40.77	32.56	25.06	40.80	24.84	26.18	34.33	26.28	23.13	40.38	33.32	24.53
1:51	37.70	25.51	21.88	35.81	30.34	23.21	40.80	32.64	25.07	40.86	24.90	26.19	34.35	26.34	23.16	40.42	33.41	24.54
1:52	37.77	25.57	21.88	35.87	30.40	23.24	40.84	32.73	25.10	40.92	24.96	26.20	34.39	26.41	23.17	40.46	33.50	24.56
1:53	37.82	25.63	21.88	35.90	30.48	23.26	40.91	32.82	25.12	40.97	25.04	26.22	34.44	26.47	23.19	40.54	33.58	24.58
1:54	37.84	25.70	21.87	35.93	30.54	23.28	40.97	32.91	25.14	41.02	25.08	26.23	34.46	26.52	23.20	40.63	33.66	24.60
1:55	37.87	25.75	21.88	35.99	30.61	23.30	41.02	32.99	25.17	41.09	25.13	26.26	34.49	26.59	23.22	40.66	33.74	24.61
1:56	37.88	25.81	21.89	36.04	30.68	23.32	41.04	33.08	25.19	41.11	25.20	26.28	34.55	26.65	23.23	40.73	33.83	24.62
1:57	37.87	25.87	21.89	36.08	30.76	23.34	41.09	33.16	25.21	41.17	25.26	26.31	34.58	26.72	23.25	40.79	33.91	24.63
1:58	37.90	25.93	21.90	36.10	30.82	23.36	41.12	33.24	25.23	41.24	25.32	26.33	34.64	26.77	23.27	40.83	33.99	24.65
1:59	37.94	25.99	21.91	36.13	30.89	23.38	41.16	33.33	25.25	41.30	25.38	26.34	34.67	26.83	23.28	40.87	34.07	24.66
2:00	37.98	26.05	21.92	36.17	30.95	23.40	41.20	33.41	25.27	41.39	25.43	26.34	34.72	26.89	23.29	40.87	34.16	24.67
2:01	37.99	26.11	21.92	36.20	31.02	23.42	41.25	33.49	25.27	41.47	25.49	26.36	34.74	26.95	23.31	40.86	34.24	24.68
2:02	38.01	26.17	21.94	36.23	31.09	23.43	41.29	33.57	25.26	41.48	25.55	26.38	34.76	27.00	23.32	40.88	34.32	24.70
2:03	38.06	26.23	21.95	36.26	31.17	23.45	41.34	33.66	25.26	41.50	25.60	26.41	34.78	27.07	23.33	40.94	34.40	24.71
2:04	38.10	26.28	21.96	36.31	31.23	23.47	41.39	33.75	25.26	41.57	25.66	26.42	34.79	27.13	23.34	40.97	34.48	24.73
2:05	38.14	26.34	21.97	36.33	31.30	23.49	41.46	33.82	25.27	41.65	25.72	26.44	34.82	27.19	23.36	41.01	34.55	24.74
2:06	38.17	26.42	21.98	36.35	31.36	23.51	41.50	33.91	25.28	41.74	25.78	26.46	34.89	27.24	23.39	41.09	34.63	24.75
2:07	38.19	26.46	22.00	36.39	31.42	23.53	41.51	34.00	25.29	41.82	25.84	26.47	34.94	27.30	23.40	41.13	34.71	24.77
2:08	38.22	26.52	22.00	36.43	31.50	23.55	41.55	34.07	25.30	41.82	25.89	26.48	34.95	27.36	23.41	41.11	34.79	24.78
2:09	38.29	26.58	22.01	36.49	31.56	23.56	41.57	34.15	25.28	41.86	25.95	26.50	34.97	27.41	23.43	41.11	34.88	24.79
2:10	38.33	26.64	22.03	36.53	31.62	23.59	41.59	34.23	25.28	41.93	26.01	26.52	34.99	27.47	23.44	41.12	34.95	24.81
2:11	38.36	26.70	22.04	36.57	31.69	23.61	41.60	34.31	25.29	41.98	26.06	26.54	35.02	27.53	23.46	41.16	35.02	24.82
2:12	38.38	26.75	22.05	36.63	31.75	23.63	41.60	34.38	25.31	41.97	26.12	26.55	35.03	27.59	23.46	41.24	35.09	24.82
2:13	38.42	26.81	22.06	36.67	31.81	23.64	41.64	34.46	25.32	42.00	26.18	26.57	35.07	27.63	23.47	41.24	35.17	24.83
2:14	38.46	26.86	22.08	36.72	31.88	23.66	41.66	34.54	25.34	42.03	26.23	26.58	35.13	27.70	23.49	41.21	35.25	24.84
2:15	38.51	26.92	22.09	36.77	31.94	23.69	41.69	34.61	25.36	42.04	26.29	26.59	35.15	27.75	23.49	41.18	35.32	24.84
2:16	38.55	26.98	22.10	36.81	32.01	23.70	41.71	34.69	25.38	42.06	26.34	26.61	35.19	27.80	23.51	41.18	35.40	24.86
2:17	38.55	27.04	22.11	36.84	32.06	23.71	41.74	34.76	25.39	42.09	26.40	26.64	35.21	27.86	23.51	41.23	35.48	24.88
2:18	38.58	27.09	22.12	36.89	32.12	23.73	41.78	34.84	25.40	42.13	26.45	26.65	35.24	27.91	23.53	41.29	35.55	24.88
2:19	38.61	27.15	22.14	36.94	32.19	23.75	41.80	34.92	25.43	42.11	26.51	26.65	35.24	27.97	23.53	41.34	35.63	24.88
2:20	38.67	27.20	22.15	36.99	32.25	23.76	41.83	34.99	25.45	42.12	26.56	26.67	35.26	28.02	23.54	41.35	35.70	24.89
2:21	38.72	27.27	22.15	37.04	32.31	23.79	41.90	35.06	25.45	42.17	26.62	26.69	35.30	28.07	23.56	41.29	35.77	24.90
2:22	38.71	27.31	22.17	37.09	32.37	23.81	41.93	35.13	25.44	42.19	26.67	26.72	35.33	28.12	23.57	41.33	35.84	24.91
2:23	38.76	27.37	22.17	37.12	32.43	23.82	41.96	35.21	25.42	42.21	26.72	26.74	35.36	28.19	23.59	41.31	35.92	24.91
2:24	38.80	27.43	22.18	37.13	32.48	23.84	42.00	35.28	25.42	42.28	26.79	26.78	35.40	28.23	23.60	41.33	35.99	24.92
2:25	38.81	27.49	22.19	37.17	32.55	23.86	42.03	35.35	25.43	42.37	26.83	26.82	35.41	28.29	23.62	41.38	36.05	24.93
2:26	38.86	27.54	22.19	37.18	32.62	23.88	42.05	35.42	25.44	42.41	26.88	26.83	35.42	28.34	23.63	41.44	36.12	24.95
2:27	38.90	27.60	22.21	37.18	32.68	23.89	42.06	35.49	25.46	42.47	26.94	26.85	35.46	28.39	23.65	41.42	36.19	24.95
2:28	38.93	27.65	22.21	37.22	32.72	23.91	42.11	35.55	25.48	42.48	26.99	26.85	35.47	28.44	23.65	41.41	36.26	24.97
2:29	38.95	27.70	22.22	37.26	32.78	23.92	42.13	35.63	25.48	42.54	27.04	26.87	35.52	28.50	23.67	41.44	36.33	24.98
2:30	38.97	27.76	22.24	37.29	32.84	23.94	42.15	35.70	25.50	42.56	27.10	26.89	35.54	28.55	23.68	41.49	36.39	24.99
2:31	39.00	27.82	22.23	37.31	32.89	23.96	42.16	35.77	25.52	42.63	27.16	26.90	35.55	28.60	23.69	41.53	36.46	24.99
2:32	39.03	27.87	22.25	37.35	32.95	23.98	42.22	35.83	25.54	42.68	27.21	26.91	35.57	28.65	23.70	41.55	36.53	25.00
2:33	39.01	27.92	22.25	37.38	33.00	23.99	42.27	35.90	25.56	42.70	27.26	26.94	35.60	28.70	23.71	41.53	36.59	25.01
2:34	39.03	27.98	22.25	37.39	33.06	24.00	42.29	35.97	25.58	42.77	27.31	26.97	35.64	28.74	23.72	41.53	36.66	25.03
2:35	39.06	28.03	22.28	37.42	33.12	24.02	42.32	36.04	25.59	42.83	27.36	26.98	35.69	28.80	23.75	41.54	36.73	25.03
2:36	39.06	28.08	22.28	37.44	33.17	24.03	42.36	36.10	25.61	42.83	27.41	27.00	35.70	28.85	23.74	41.63	36.78	25.05
2:37	39.09	28.13	22.25	37.46	33.23	24.05	42.43	36.17	25.62	42.85	27.46	27.03	35.72	28.91	23.76	41.69	36.85	25.06
2:38	39.15	28.18	22.24	37.48	33.28	24.05	42.47	36.23	25.63	42.91	27.51	27.06	35.75	28.95	23.77	41.72	36.92	25.06
2:39	39.13	28.23	22.24	37.52	33.33	24.07	42.46	36.29	25.61	42.92	27.56	27.07	35.79	29.00	23.78	41.78	36.98	25.08
2:40	39.14	28.29	22.23	37.56	33.39	24.08	42.46	36.36	25.59	42.88	27.61	27.09	35.84	29.04	23.79	41.80	37.04	25.08
2:41	39.14	28.33	22.22	37.58	33.44	24.09	42.45	36.43	25.58	42.84	27.66	27.12	35.88	29.10	23.80	41.85	37.11	25.10
2:42	39.15	28.39	22.22	37.62	33.50	24.11	42.47	36.49	25.57	42.81	27.71	27.13	35.91	29.14	23.81	41.88	37.17	25.11
2:43	39.18	28.45	22.22	37.67	33.55	24.13	42.48	36.55	25.54	42.77	27.76	27.12	35.92	29.19	23.82	41.92	37.23	25.12
2:44	39.20	28.49	22.21	37.69	33.61	24.14	42.53	36.62	25.55	42.77	27.81	27.14	35.97	29.24	23.83	41.92	37.29	25.13
2:45	39.26	28.55	22.20	37.71	33.66	24.15	42.57	36.68	25.56	42.87	27.87	27.16	36.00	29.29	23.84	41.95	37.36	25.14
2:46	39.29	28.60	22.21	37.72	33.72	24.15	42.58	36.75	25.57	42.95	27.92	27.19	36.02	29.34	23.86	41.99	37.42	25.15
2:47	39.33	28.65	22.21	37.77	33.77	24.17	42.60	36.81	25.59	42.95	27.96	27.20	36.04	29.38	23.86	42.02	37.48	25.15
2:48	39.36	28.70	22.21	37.81	33.82	24.17	42.63	36.88	25.61	42.90	28.01	27.22	36.06	29.43	23.87	42.10	37.55	25.16
2:49	39.38	28.75	22.21	37.83	33.88	24.19	42.65	36.93	25.62	42.96	28.06	27.25	36.10	29.48	23.88	42.20	37.61	25.16
2:50	39.39	28.80	22.20	37.84	33.93	24.20	42.71	37.00	25.63	43.01	28.11	27.25	36.12	29.53	23.90	42.24	37.67	25.17
2:51	39.38	28.86	22.21	37.87	33.98	24.21	42.76	37.06	25.64	42.99	28.16	27.28						

2:56	39.44	29.10	22.25	38.05	34.23	24.26	42.77	37.37	25.63	43.02	28.40	27.37	36.28	29.81	23.96	42.65	38.04	25.19
2:57	39.43	29.15	22.25	38.04	34.28	24.28	42.80	37.43	25.61	43.01	28.45	27.40	36.30	29.85	23.96	42.70	38.09	25.19
2:58	39.44	29.20	22.26	38.07	34.34	24.29	42.82	37.49	25.61	42.97	28.49	27.42	36.33	29.90	23.96	42.75	38.15	25.19
2:59	39.47	29.25	22.26	38.09	34.38	24.31	42.83	37.55	25.61	43.00	28.54	27.43	36.35	29.93	23.97	42.77	38.22	25.20
3:00	39.49	29.30	22.27	38.11	34.43	24.32	42.83	37.61	25.63	43.06	28.59	27.41	36.36	29.98	24.00	42.79	38.28	25.21
3:01	39.52	29.35	22.27	38.14	34.48	24.32	42.82	37.66	25.64	43.10	28.63	27.43	36.38	30.02	23.99	42.78	38.33	25.22
3:02	39.58	29.40	22.28	38.17	34.53	24.33	42.86	37.73	25.63	43.17	28.68	27.43	36.40	30.07	24.00	42.82	38.39	25.22
3:03	39.59	29.45	22.29	38.22	34.58	24.35	42.91	37.79	25.61	43.18	28.73	27.43	36.39	30.12	24.01	42.79	38.44	25.22
3:04	39.65	29.49	22.30	38.24	34.63	24.35	42.95	37.85	25.62	43.24	28.77	27.42	36.41	30.16	24.02	42.76	38.51	25.22
3:05	39.66	29.54	22.31	38.29	34.68	24.37	43.02	37.90	25.63	43.25	28.82	27.42	36.40	30.21	24.03	42.75	38.56	25.23
3:06	39.66	29.59	22.33	38.31	34.72	24.37	43.06	37.96	25.64	43.28	28.87	27.43	36.42	30.25	24.04	42.78	38.61	25.23
3:07	39.71	29.64	22.33	38.35	34.78	24.37	43.11	38.02	25.65	43.37	28.91	27.46	36.43	30.29	24.04	42.80	38.67	25.24
3:08	39.73	29.69	22.34	38.38	34.82	24.39	43.14	38.08	25.66	43.44	28.96	27.46	36.47	30.34	24.05	42.84	38.73	25.25
3:09	39.78	29.74	22.35	38.41	34.87	24.39	43.14	38.14	25.68	43.45	29.00	27.49	36.50	30.39	24.06	42.85	38.77	25.26
3:10	39.81	29.78	22.36	38.46	34.91	24.40	43.18	38.20	25.69	43.50	29.05	27.49	36.54	30.42	24.07	42.85	38.83	25.27
3:11	39.86	29.83	22.39	38.49	34.96	24.43	43.15	38.25	25.71	43.55	29.09	27.49	36.57	30.47	24.08	42.79	38.88	25.28
3:12	39.90	29.88	22.39	38.52	35.01	24.43	43.17	38.31	25.73	43.64	29.15	27.50	36.61	30.51	24.09	42.79	38.93	25.28
3:13	39.97	29.93	22.37	38.55	35.05	24.45	43.19	38.36	25.73	43.68	29.19	27.50	36.62	30.55	24.10	42.82	38.99	25.29
3:14	39.98	29.97	22.35	38.58	35.10	24.47	43.22	38.42	25.72	43.65	29.23	27.50	36.61	30.59	24.11	42.85	39.04	25.29
3:15	40.02	30.02	22.35	38.61	35.15	24.47	43.22	38.47	25.71	43.63	29.27	27.50	36.63	30.63	24.12	42.89	39.10	25.29
3:16	40.03	30.07	22.34	38.63	35.19	24.48	43.28	38.52	25.72	43.70	29.32	27.52	36.64	30.67	24.12	42.94	39.15	25.29
3:17	40.08	30.11	22.33	38.62	35.24	24.50	43.27	38.58	25.74	43.80	29.36	27.54	36.66	30.72	24.14	42.99	39.19	25.30
3:18	40.11	30.16	22.33	38.66	35.28	24.51	43.30	38.62	25.75	43.84	29.41	27.55	36.68	30.76	24.14	43.02	39.25	25.30
3:19	40.14	30.20	22.33	38.73	35.32	24.51	43.36	38.69	25.74	43.86	29.45	27.56	36.72	30.80	24.16	43.02	39.30	25.31
3:20	40.20	30.25	22.32	38.76	35.37	24.53	43.38	38.74	25.73	43.92	29.50	27.56	36.75	30.84	24.15	43.01	39.35	25.31
3:21	40.19	30.29	22.32	38.80	35.42	24.53	43.40	38.80	25.73	43.92	29.54	27.58	36.76	30.88	24.17	42.96	39.40	25.31
3:22	40.19	30.34	22.32	38.81	35.46	24.55	43.42	38.85	25.74	43.92	29.59	27.59	36.80	30.92	24.17	43.00	39.45	25.31
3:23	40.20	30.39	22.32	38.86	35.50	24.56	43.46	38.91	25.76	43.98	29.63	27.61	36.84	30.96	24.18	42.95	39.50	25.31
3:24	40.23	30.43	22.33	38.89	35.55	24.57	43.49	38.95	25.77	44.04	29.67	27.62	36.89	31.01	24.19	43.00	39.55	25.32
3:25	40.22	30.47	22.33	38.93	35.59	24.58	43.53	39.01	25.77	44.04	29.71	27.64	36.91	31.04	24.20	43.03	39.60	25.33
3:26	40.23	30.52	22.34	38.94	35.63	24.58	43.55	39.06	25.76	44.05	29.76	27.65	36.92	31.08	24.21	43.05	39.65	25.33
3:27	40.27	30.57	22.34	38.95	35.68	24.59	43.57	39.11	25.74	44.04	29.79	27.64	36.91	31.12	24.21	43.09	39.70	25.35
3:28	40.28	30.62	22.35	38.97	35.72	24.59	43.59	39.16	25.75	44.01	29.83	27.64	36.93	31.16	24.22	43.15	39.75	25.36
3:29	40.29	30.65	22.36	38.99	35.77	24.59	43.61	39.22	25.76	44.04	29.89	27.65	36.97	31.20	24.23	43.19	39.80	25.36
3:30	40.35	30.69	22.37	39.03	35.81	24.61	43.64	39.26	25.79	44.03	29.92	27.66	36.99	31.24	24.23	43.19	39.85	25.36
3:31	40.40	30.74	22.38	39.05	35.85	24.62	43.68	39.31	25.80	44.11	29.96	27.66	37.03	31.28	24.24	43.17	39.90	25.36
3:32	40.44	30.78	22.38	39.08	35.90	24.62	43.66	39.37	25.84	44.20	30.00	27.67	37.06	31.32	24.25	43.20	39.94	25.37
3:33	40.48	30.83	22.40	39.14	35.94	24.63	43.69	39.42	25.86	44.26	30.04	27.67	37.08	31.35	24.26	43.16	39.99	25.37
3:34	40.51	30.88	22.40	39.18	35.98	24.66	43.69	39.47	25.88	44.33	30.09	27.68	37.12	31.39	24.28	43.15	40.04	25.37
3:35	40.51	30.92	22.42	39.18	36.03	24.66	43.73	39.52	25.90	44.34	30.13	27.71	37.15	31.43	24.28	43.19	40.08	25.37
3:36	40.56	30.96	22.42	39.20	36.08	24.68	43.78	39.57	25.94	44.38	30.16	27.72	37.18	31.47	24.29	43.24	40.14	25.38
3:37	40.61	31.01	22.44	39.23	36.12	24.69	43.81	39.62	25.93	44.40	30.21	27.72	37.23	31.51	24.30	43.28	40.18	25.39
3:38	40.61	31.05	22.45	39.25	36.17	24.70	43.86	39.67	25.92	44.43	30.25	27.72	37.25	31.55	24.30	43.30	40.24	25.41
3:39	40.61	31.09	22.45	39.27	36.20	24.71	43.94	39.72	25.93	44.45	30.30	27.72	37.24	31.59	24.32	43.34	40.28	25.42
3:40	40.65	31.13	22.46	39.30	36.24	24.73	43.99	39.77	25.92	44.49	30.33	27.72	37.26	31.63	24.32	43.38	40.33	25.42
3:41	40.69	31.17	22.48	39.33	36.29	24.74	44.02	39.82	25.92	44.56	30.37	27.72	37.28	31.66	24.33	43.39	40.38	25.40
3:42	40.73	31.22	22.48	39.36	36.33	24.76	43.99	39.87	25.92	44.64	30.41	27.74	37.29	31.70	24.33	43.40	40.43	25.41
3:43	40.76	31.26	22.51	39.40	36.37	24.77	44.00	39.91	25.92	44.69	30.45	27.74	37.28	31.74	24.35	43.43	40.48	25.42
3:44	40.78	31.30	22.53	39.45	36.41	24.79	44.02	39.96	25.92	44.71	30.49	27.74	37.28	31.77	24.36	43.47	40.52	25.42
3:45	40.80	31.34	22.52	39.49	36.45	24.80	44.01	40.02	25.90	44.70	30.53	27.76	37.32	31.81	24.37	43.46	40.57	25.43
3:46	40.81	31.39	22.52	39.50	36.49	24.82	44.03	40.06	25.91	44.71	30.56	27.77	37.36	31.85	24.37	43.43	40.62	25.44
3:47	40.83	31.43	22.52	39.52	36.54	24.84	44.03	40.12	25.93	44.74	30.61	27.78	37.40	31.88	24.38	43.43	40.66	25.44
3:48	40.83	31.47	22.51	39.55	36.57	24.84	44.03	40.15	25.95	44.79	30.64	27.79	37.41	31.92	24.39	43.41	40.71	25.45
3:49	40.84	31.52	22.51	39.58	36.61	24.86	44.04	40.21	25.94	44.81	30.69	27.80	37.45	31.96	24.40	43.44	40.75	25.45
3:50	40.86	31.55	22.51	39.61	36.65	24.87	44.07	40.26	25.92	44.83	30.72	27.80	37.46	31.99	24.41	43.48	40.80	25.47
3:51	40.90	31.60	22.51	39.62	36.70	24.88	44.12	40.31	25.92	44.84	30.76	27.81	37.44	32.03	24.41	43.51	40.85	25.48
3:52	40.91	31.63	22.51	39.63	36.73	24.89	44.17	40.35	25.92	44.89	30.80	27.80	37.44	32.07	24.43	43.53	40.89	25.48
3:53	40.86	31.69	22.52	39.65	36.77	24.90	44.18	40.39	25.92	44.89	30.84	27.81	37.45	32.11	24.42	43.54	40.93	25.48
3:54	40.86	31.72	22.52	39.64	36.81	24.91	44.21	40.44	25.94	44.88	30.87	27.83	37.50	32.14	24.42	43.56	40.98	25.49
3:55	40.90	31.75	22.52	39.66	36.85	24.92	44.22	40.49	25.96	44.86	30.92	27.82	37.53	32.18	24.43	43.56	41.02	25.49
3:56	40.92	31.80	22.53	39.67	36.89	24.94	44.19	40.54	25.98	44.87	30.95	27.84	37.55	32.21	24.44	43.57	41.07	25.49
3:57	40.94	31.84	22.54	39.69	36.92	24.95	44.17	40.58	26.00	44.91	30.99	27.85	37.56	32.24	24.45	43.57	41.10	25.49
3:58	40.94	31.88	22.55	39.72	36.97	24.97	44.20	40.63	26.02	44.92	31.03	27.87	37.58	32.28	24.46	43.60	41.16	25.50
3:59	40.96	31.93	22.54	39.73	37.00	24.99	44.21	40.67	26.05	44.91	31.07	27.88						

4:04	41.05	32.12	22.58	39.84	37.19	25.08	44.37	40.89	26.14	45.12	31.25	27.88	37.74	32.49	24.51	43.66	41.41	25.53
4:05	41.04	32.16	22.59	39.87	37.24	25.10	44.36	40.94	26.15	45.11	31.28	27.87	37.76	32.53	24.51	43.68	41.45	25.54
4:06	41.05	32.20	22.60	39.91	37.27	25.13	44.42	40.99	26.15	45.14	31.32	27.88	37.78	32.56	24.52	43.76	41.49	25.55
4:07	41.10	32.24	22.61	39.96	37.32	25.14	44.49	41.03	26.15	45.16	31.36	27.88	37.77	32.60	24.52	43.87	41.53	25.55
4:08	41.14	32.28	22.62	39.99	37.35	25.16	44.53	41.08	26.14	45.21	31.39	27.90	37.80	32.63	24.53	43.90	41.58	25.54
4:09	41.16	32.32	22.63	40.01	37.39	25.18	44.56	41.13	26.14	45.23	31.43	27.90	37.82	32.66	24.55	43.89	41.62	25.54
4:10	41.18	32.36	22.64	40.04	37.43	25.19	44.61	41.17	26.15	45.25	31.47	27.90	37.80	32.70	24.55	43.90	41.66	25.55
4:11	41.21	32.39	22.65	40.03	37.46	25.21	44.61	41.20	26.17	45.28	31.51	27.90	37.79	32.73	24.56	43.93	41.70	25.55
4:12	41.24	32.43	22.66	40.02	37.50	25.23	44.64	41.25	26.17	45.33	31.54	27.91	37.83	32.76	24.58	43.94	41.74	25.55
4:13	41.26	32.46	22.70	40.03	37.54	25.25	44.68	41.29	26.19	45.36	31.58	27.92	37.85	32.80	24.57	43.87	41.78	25.56
4:14	41.27	32.51	22.70	40.07	37.57	25.25	44.70	41.33	26.20	45.36	31.61	27.92	37.86	32.83	24.60	43.85	41.82	25.58
4:15	41.30	32.54	22.71	40.09	37.61	25.26	44.68	41.38	26.18	45.36	31.64	27.92	37.88	32.87	24.60	43.89	41.86	25.58
4:16	41.29	32.58	22.70	40.12	37.64	25.28	44.64	41.43	26.17	45.38	31.68	27.93	37.91	32.90	24.62	43.91	41.90	25.59
4:17	41.33	32.62	22.70	40.14	37.68	25.30	44.60	41.47	26.16	45.42	31.72	27.93	37.94	32.93	24.63	43.98	41.94	25.59
4:18	41.43	32.66	22.69	40.15	37.72	25.32	44.63	41.51	26.14	45.46	31.75	27.95	37.94	32.97	24.63	44.00	41.99	25.59
4:19	41.46	32.70	22.70	40.16	37.75	25.33	44.64	41.55	26.14	45.46	31.79	27.95	37.93	33.00	24.64	44.09	42.03	25.60
4:20	41.46	32.74	22.69	40.17	37.78	25.35	44.60	41.58	26.14	45.43	31.82	27.94	37.93	33.03	24.65	44.14	42.06	25.61
4:21	41.48	32.78	22.71	40.20	37.82	25.36	44.63	41.63	26.11	45.42	31.85	27.95	37.93	33.07	24.65	44.14	42.10	25.62
4:22	41.48	32.81	22.71	40.23	37.85	25.38	44.67	41.67	26.11	45.43	31.89	27.96	37.98	33.09	24.67	44.15	42.14	25.64
4:23	41.50	32.85	22.71	40.29	37.89	25.40	44.73	41.71	26.11	45.39	31.93	27.97	38.00	33.13	24.67	44.16	42.18	25.64
4:24	41.52	32.89	22.71	40.31	37.93	25.41	44.76	41.75	26.13	45.40	31.96	27.97	38.00	33.17	24.68	44.15	42.22	25.64
4:25	41.56	32.92	22.71	40.35	37.96	25.42	44.76	41.80	26.15	45.40	31.99	27.98	38.05	33.19	24.69	44.16	42.25	25.66
4:26	41.56	32.96	22.72	40.40	37.99	25.44	44.80	41.83	26.17	45.35	32.03	27.99	38.08	33.22	24.69	44.19	42.30	25.66
4:27	41.60	32.99	22.72	40.41	38.03	25.46	44.89	41.87	26.20	45.36	32.06	27.99	38.08	33.25	24.71	44.28	42.33	25.65
4:28	41.61	33.03	22.74	40.43	38.06	25.47	44.91	41.91	26.22	45.40	32.09	27.99	38.07	33.28	24.70	44.29	42.37	25.66
4:29	41.61	33.07	22.74	40.45	38.10	25.49	44.94	41.95	26.23	45.45	32.13	28.00	38.10	33.32	24.71	44.25	42.41	25.67
4:30	41.58	33.10	22.75	40.46	38.13	25.49	44.92	42.00	26.25	45.46	32.16	28.00	38.10	33.35	24.72	44.23	42.45	25.68
4:31	41.58	33.14	22.75	40.47	38.16	25.50	44.99	42.03	26.26	45.48	32.20	28.00	38.09	33.38	24.73	44.21	42.48	25.67
4:32	41.59	33.18	22.75	40.47	38.19	25.51	45.02	42.07	26.24	45.48	32.23	28.00	38.09	33.41	24.72	44.19	42.52	25.68
4:33	41.63	33.22	22.76	40.49	38.23	25.52	45.06	42.11	26.22	45.54	32.26	27.99	38.11	33.44	24.74	44.21	42.56	25.68
4:34	41.69	33.25	22.76	40.50	38.26	25.52	45.06	42.14	26.22	45.59	32.29	28.01	38.13	33.48	24.74	44.18	42.60	25.69
4:35	41.71	33.29	22.77	40.53	38.29	25.54	45.10	42.19	26.22	45.62	32.32	28.03	38.17	33.51	24.74	44.22	42.63	25.70
4:36	41.67	33.32	22.78	40.55	38.33	25.55	45.13	42.22	26.23	45.65	32.36	28.04	38.20	33.53	24.76	44.23	42.66	25.71
4:37	41.67	33.36	22.79	40.57	38.35	25.55	45.16	42.26	26.25	45.71	32.39	28.04	38.24	33.57	24.76	44.18	42.70	25.73
4:38	41.70	33.39	22.79	40.58	38.39	25.56	45.15	42.29	26.27	45.74	32.42	28.05	38.28	33.59	24.77	44.18	42.74	25.73
4:39	41.71	33.43	22.80	40.61	38.43	25.57	45.14	42.34	26.29	45.78	32.45	28.06	38.31	33.62	24.77	44.18	42.78	25.74
4:40	41.70	33.47	22.80	40.62	38.46	25.57	45.15	42.37	26.31	45.82	32.49	28.09	38.33	33.66	24.79	44.24	42.81	25.74
4:41	41.71	33.50	22.81	40.65	38.49	25.58	45.16	42.41	26.32	45.85	32.52	28.11	38.34	33.68	24.79	44.30	42.84	25.75
4:42	41.74	33.53	22.84	40.64	38.52	25.60	45.15	42.44	26.34	45.86	32.55	28.12	38.35	33.72	24.80	44.34	42.88	25.76
4:43	41.75	33.57	22.86	40.61	38.55	25.60	45.17	42.49	26.34	45.82	32.58	28.12	38.35	33.74	24.81	44.32	42.91	25.77
4:44	41.76	33.60	22.84	40.63	38.59	25.62	45.18	42.52	26.35	45.86	32.61	28.14	38.36	33.77	24.82	44.29	42.95	25.78
4:45	41.81	33.63	22.84	40.65	38.61	25.62	45.21	42.55	26.37	45.88	32.65	28.12	38.37	33.81	24.83	44.31	42.99	25.78
4:46	41.84	33.67	22.84	40.68	38.64	25.63	45.24	42.59	26.38	45.85	32.68	28.13	38.37	33.84	24.84	44.36	43.02	25.78
4:47	41.85	33.70	22.84	40.72	38.68	25.64	45.27	42.63	26.39	45.87	32.71	28.14	38.39	33.86	24.84	44.36	43.06	25.78
4:48	41.91	33.74	22.84	40.73	38.71	25.65	45.26	42.66	26.39	45.87	32.74	28.15	38.42	33.89	24.84	44.39	43.10	25.78
4:49	41.92	33.77	22.85	40.74	38.74	25.65	45.26	42.70	26.38	45.87	32.78	28.15	38.46	33.93	24.85	44.36	43.12	25.78
4:50	41.97	33.81	22.84	40.76	38.77	25.66	45.31	42.74	26.37	45.81	32.80	28.16	38.48	33.95	24.84	44.40	43.16	25.78
4:51	42.01	33.84	22.84	40.77	38.80	25.67	45.37	42.77	26.35	45.81	32.83	28.16	38.48	33.98	24.85	44.38	43.19	25.77
4:52	41.98	33.88	22.84	40.79	38.83	25.68	45.42	42.81	26.36	45.80	32.86	28.16	38.51	34.01	24.85	44.36	43.23	25.79
4:53	42.00	33.91	22.84	40.83	38.86	25.69	45.44	42.84	26.38	45.82	32.90	28.15	38.52	34.04	24.85	44.41	43.27	25.79
4:54	41.97	33.94	22.86	40.85	38.89	25.70	45.43	42.87	26.39	45.82	32.93	28.16	38.54	34.08	24.86	44.39	43.29	25.79
4:55	41.97	33.98	22.85	40.86	38.92	25.71	45.42	42.91	26.41	45.87	32.96	28.15	38.57	34.10	24.86	44.36	43.33	25.77
4:56	41.98	34.01	22.85	40.85	38.95	25.71	45.44	42.95	26.43	45.85	32.98	28.14	38.57	34.13	24.86	44.36	43.36	25.78
4:57	41.99	34.04	22.85	40.86	38.98	25.72	45.44	42.98	26.45	45.83	33.01	28.14	38.58	34.16	24.87	44.40	43.39	25.78
4:58	42.05	34.08	22.85	40.89	39.01	25.73	45.45	43.01	26.45	45.84	33.04	28.16	38.58	34.18	24.87	44.49	43.43	25.79
4:59	42.09	34.11	22.85	40.91	39.04	25.74	45.45	43.05	26.45	45.86	33.07	28.17	38.59	34.21	24.88	44.56	43.45	25.80
5:00	42.12	34.14	22.85	40.93	39.07	25.75	45.48	43.08	26.44	45.82	33.11	28.18	38.55	34.24	24.88	44.66	43.49	25.80
5:01	41.21	34.17	22.83	40.58	39.10	25.76	44.68	43.11	26.39	45.14	33.13	28.14	37.95	34.27	24.88	43.74	43.51	25.78
5:02	37.73	34.21	22.81	38.21	39.11	25.72	41.37	43.15	26.31	41.94	33.16	27.90	35.44	34.30	24.87	40.19	43.55	25.73
5:03	34.60	34.24	22.78	35.85	39.02	25.65	38.22	43.17	26.46	38.72	33.19	27.70	33.53	34.33	24.82	36.99	43.57	25.69
5:04	32.21	34.27	22.79	34.19	38.85	25.56	35.83	43.18	26.53	36.24	33.22	27.77	32.25	34.35	24.78	34.50	43.52	25.75
5:05	30.49	34.30	22.87	33.03	38.59	25.59	34.07	43.14	26.48	34.38	33.25	27.89	31.30	34.37	24.73	32.62	43.40	25.76
5:06	29.24	34.34	22.99	32.23	38.31	25.73	32.69	43.02	26.33	32.99	33.27	27.87	30.60	34.38	24.66	31.21	43.18	25.91
5:07	28.30	34.37	23.09	31.54	38.00	25.81	31.54	42.84	26.21	31.85	33.30	27.74						

5:12	25.53	34.68	23.73	29.62	36.46	25.63	28.45	41.36	25.98	28.59	33.50	26.18	28.41	34.24	24.19	26.93	40.66	26.66
5:13	25.23	34.72	23.81	29.40	36.18	25.50	28.10	41.02	25.92	28.24	33.56	25.89	28.19	34.20	24.11	26.63	40.18	26.66
5:14	24.91	34.77	23.87	29.17	35.91	25.35	27.79	40.67	25.84	27.88	33.61	25.65	27.95	34.15	24.02	26.26	39.69	26.65
5:15	24.65	34.80	23.95	28.94	35.65	25.17	27.49	40.34	25.77	27.56	33.65	25.46	27.70	34.10	23.93	25.96	39.21	26.69
5:16	24.39	34.82	23.99	28.76	35.41	25.00	27.21	40.00	25.70	27.33	33.69	25.33	27.49	34.04	23.86	25.73	38.75	26.72
5:17	24.17	34.82	24.01	28.65	35.16	24.83	27.04	39.65	25.61	27.09	33.73	25.21	27.36	33.97	23.76	25.43	38.30	26.80
5:18	24.10	34.82	24.05	28.52	34.94	24.66	26.83	39.32	25.50	26.91	33.75	25.11	27.23	33.90	23.68	25.19	37.88	26.85
5:19	24.01	34.80	24.06	28.38	34.71	24.48	26.58	39.01	25.40	26.69	33.76	25.03	27.03	33.83	23.59	24.84	37.45	26.86
5:20	24.03	34.77	24.08	28.29	34.50	24.33	26.35	38.68	25.37	26.51	33.76	24.97	26.89	33.75	23.51	24.53	37.03	26.90
5:21	24.00	34.74	24.10	28.22	34.31	24.18	26.15	38.38	25.36	26.36	33.76	24.92	26.84	33.67	23.43	24.35	36.63	26.93
5:22	23.95	34.69	24.13	28.12	34.11	24.05	25.96	38.08	25.33	26.20	33.75	24.86	26.71	33.59	23.36	24.17	36.24	26.94
5:23	23.91	34.64	24.15	28.02	33.93	23.94	25.83	37.78	25.32	26.13	33.72	24.81	26.63	33.49	23.29	24.03	35.86	26.96
5:24	23.79	34.57	24.15	27.91	33.75	23.80	25.71	37.49	25.32	26.00	33.68	24.78	26.44	33.41	23.23	23.94	35.49	26.97
5:25	23.72	34.51	24.11	27.77	33.57	23.72	25.58	37.20	25.34	25.87	33.65	24.76	26.27	33.32	23.16	23.86	35.12	27.01
5:26	23.66	34.43	24.12	27.65	33.41	23.67	25.51	36.91	25.37	25.74	33.60	24.77	26.16	33.23	23.10	23.80	34.75	27.05
5:27	23.65	34.36	24.16	27.57	33.25	23.64	25.45	36.64	25.35	25.70	33.55	24.74	26.14	33.14	23.04	23.75	34.42	27.06
5:28	23.65	34.27	24.20	27.51	33.10	23.63	25.35	36.38	25.35	25.67	33.49	24.71	26.17	33.04	22.98	23.71	34.09	27.08
5:29	23.65	34.19	24.23	27.42	32.95	23.59	25.28	36.12	25.36	25.60	33.42	24.67	26.10	32.95	22.92	23.65	33.78	27.10
5:30	23.57	34.10	24.21	27.37	32.80	23.54	25.23	35.87	25.32	25.58	33.36	24.65	26.13	32.86	22.87	23.59	33.47	27.13
5:31	23.59	34.01	24.19	27.35	32.67	23.48	25.16	35.62	25.27	25.57	33.28	24.68	26.08	32.76	22.82	23.54	33.18	27.13
5:32	23.61	33.91	24.18	27.25	32.54	23.39	25.04	35.38	25.24	25.48	33.21	24.70	26.00	32.66	22.76	23.54	32.90	27.14
5:33	23.62	33.81	24.21	27.16	32.40	23.31	24.96	35.14	25.22	25.41	33.13	24.70	25.90	32.58	22.73	23.54	32.64	27.15
5:34	23.61	33.70	24.21	27.04	32.28	23.23	24.83	34.91	25.23	25.35	33.05	24.72	25.74	32.49	22.68	23.51	32.38	27.18
5:35	23.57	33.60	24.23	26.98	32.16	23.17	24.78	34.68	25.21	25.31	32.96	24.74	25.67	32.40	22.65	23.52	32.11	27.23
5:36	23.50	33.49	24.25	26.97	32.04	23.10	24.72	34.46	25.22	25.16	32.87	24.74	25.58	32.30	22.61	23.50	31.86	27.29
5:37	23.48	33.39	24.28	26.90	31.92	23.03	24.64	34.24	25.24	25.02	32.79	24.73	25.48	32.21	22.58	23.52	31.62	27.34
5:38	23.47	33.27	24.29	26.84	31.80	22.95	24.60	34.03	25.25	24.99	32.70	24.74	25.47	32.11	22.54	23.50	31.38	27.34
5:39	23.47	33.17	24.32	26.78	31.68	22.88	24.55	33.83	25.28	24.87	32.62	24.76	25.38	32.03	22.51	23.44	31.15	27.33
5:40	23.49	33.06	24.33	26.74	31.57	22.83	24.47	33.62	25.28	24.72	32.52	24.75	25.34	31.93	22.48	23.44	30.93	27.35
5:41	23.43	32.95	24.36	26.70	31.47	22.80	24.41	33.43	25.31	24.63	32.44	24.71	25.31	31.84	22.45	23.43	30.72	27.36
5:42	23.40	32.85	24.38	26.65	31.35	22.80	24.35	33.24	25.31	24.53	32.34	24.68	25.26	31.75	22.44	23.38	30.52	27.35
5:43	23.36	32.74	24.38	26.63	31.25	22.79	24.29	33.04	25.31	24.48	32.25	24.65	25.20	31.66	22.41	23.34	30.32	27.35
5:44	23.34	32.63	24.41	26.55	31.14	22.77	24.24	32.86	25.31	24.45	32.16	24.63	25.16	31.57	22.41	23.34	30.12	27.34
5:45	23.31	32.52	24.44	26.50	31.04	22.74	24.20	32.68	25.24	24.41	32.06	24.61	25.16	31.48	22.38	23.31	29.94	27.34
5:46	23.24	32.41	24.43	26.50	30.94	22.72	24.21	32.50	25.21	24.39	31.97	24.56	25.12	31.39	22.36	23.30	29.76	27.32
5:47	23.24	32.30	24.42	26.43	30.84	22.67	24.19	32.33	25.23	24.34	31.88	24.50	25.05	31.31	22.35	23.27	29.60	27.31
5:48	23.25	32.19	24.44	26.36	30.75	22.63	24.14	32.16	25.20	24.33	31.79	24.43	24.99	31.21	22.34	23.24	29.44	27.30
5:49	23.22	32.08	24.47	26.35	30.65	22.58	24.09	32.00	25.21	24.27	31.70	24.40	24.91	31.13	22.32	23.23	29.28	27.31
5:50	23.15	31.97	24.51	26.34	30.56	22.54	24.11	31.84	25.19	24.25	31.60	24.37	24.87	31.04	22.30	23.19	29.13	27.29
5:51	23.14	31.87	24.53	26.27	30.46	22.52	24.08	31.67	25.18	24.20	31.51	24.35	24.85	30.95	22.29	23.12	28.97	27.29
5:52	23.14	31.75	24.55	26.25	30.37	22.50	24.01	31.53	25.15	24.16	31.41	24.33	24.83	30.87	22.27	23.09	28.82	27.30
5:53	23.10	31.65	24.57	26.15	30.28	22.47	23.94	31.36	25.13	24.09	31.33	24.32	24.80	30.78	22.26	23.06	28.68	27.30
5:54	23.06	31.54	24.60	26.10	30.19	22.42	23.91	31.22	25.12	24.13	31.23	24.30	24.76	30.70	22.25	23.07	28.54	27.28
5:55	23.01	31.44	24.62	26.03	30.10	22.38	23.84	31.07	25.11	24.09	31.14	24.29	24.70	30.62	22.24	23.03	28.39	27.25
5:56	22.97	31.34	24.64	25.97	30.01	22.35	23.80	30.93	25.14	24.07	31.04	24.31	24.66	30.54	22.23	23.00	28.25	27.24
5:57	22.90	31.23	24.67	25.93	29.93	22.32	23.70	30.79	25.11	24.03	30.95	24.36	24.63	30.45	22.22	22.94	28.13	27.25
5:58	22.84	31.12	24.72	25.88	29.84	22.31	23.65	30.64	25.11	24.00	30.86	24.40	24.58	30.36	22.20	22.90	28.00	27.22
5:59	22.85	31.03	24.73	25.84	29.76	22.29	23.60	30.50	25.04	23.95	30.77	24.42	24.51	30.29	22.19	22.86	27.88	27.18
6:00	22.84	30.93	24.72	25.84	29.68	22.27	23.58	30.37	25.05	23.95	30.68	24.45	24.48	30.21	22.17	22.82	27.76	27.16
6:01	22.82	30.82	24.72	25.80	29.59	22.25	23.56	30.24	25.03	23.93	30.59	24.47	24.46	30.14	22.16	22.75	27.64	27.16
6:02	22.78	30.73	24.69	25.80	29.51	22.20	23.61	30.12	25.08	23.89	30.50	24.58	24.45	30.06	22.14	22.71	27.54	27.18
6:03	22.79	30.64	24.60	25.84	29.45	22.18	23.64	30.02	25.06	23.91	30.43	24.66	24.45	30.01	22.12	22.70	27.48	27.07
6:04	22.82	30.56	24.47	25.97	29.39	22.15	23.69	29.94	24.97	24.00	30.36	24.60	24.56	29.94	22.10	22.75	27.42	26.87
6:05	22.88	30.49	24.32	26.12	29.33	22.12	23.76	29.86	24.84	24.05	30.30	24.46	24.62	29.87	22.09	22.81	27.38	26.59
6:06	22.87	30.42	24.15	26.24	29.29	22.09	23.82	29.79	24.66	24.11	30.24	24.26	24.68	29.80	22.07	22.89	27.35	26.27
6:07	22.94	30.36	23.96	26.36	29.24	22.06	23.90	29.74	24.47	24.17	30.18	24.04	24.74	29.73	22.06	22.97	27.31	25.90
6:08	23.02	30.30	23.79	26.44	29.20	22.02	23.94	29.67	24.28	24.21	30.11	23.80	24.81	29.67	22.03	23.05	27.28	25.53
6:09	23.07	30.24	23.61	26.50	29.15	21.97	23.96	29.62	24.07	24.25	30.06	23.58	24.85	29.60	22.01	23.12	27.26	25.18
6:10	23.12	30.19	23.44	26.53	29.11	21.95	23.98	29.57	23.89	24.32	30.01	23.36	24.90	29.53	21.97	23.17	27.22	24.85
6:11	23.20	30.12	23.26	26.56	29.07	21.90	24.03	29.50	23.71	24.36	29.96	23.15	24.93	29.46	21.95	23.24	27.20	24.55
6:12	23.26	30.07	23.10	26.55	29.03	21.86	24.05	29.45	23.54	24.40	29.92	22.95	24.99	29.40	21.93	23.30	27.17	24.29
6:13	23.31	30.02	22.93	26.56	28.98	21.84	24.02	29.40	23.37	24.39	29.86	22.78	24.98	29.34	21.91	23.32	27.15	24.02
6:14	23.41	29.96	22.78	26.57	28.94	21.80	24.01	29.35	23.23	24.42	29.81	22.61	24.99	29.28	21.88	23.39	27.12	23.78
6:15	23.45	29.91	22.63	26.61	28.90	21.78	24.03	29.30	23.07	24.46	29.76	22.46						

6:20	23.60	29.65	22.00	26.58	28.68	21.64	24.06	29.07	22.36	24.55	29.54	21.80	25.00	28.94	21.74	23.53	26.99	22.68
6:21	23.61	29.61	21.89	26.57	28.63	21.61	24.04	29.03	22.23	24.54	29.49	21.70	24.97	28.88	21.72	23.52	26.96	22.56
6:22	23.63	29.56	21.80	26.55	28.59	21.57	24.05	28.98	22.13	24.51	29.44	21.60	24.92	28.83	21.70	23.53	26.93	22.43
6:23	23.65	29.51	21.70	26.52	28.54	21.55	24.04	28.94	22.02	24.56	29.40	21.51	24.90	28.78	21.68	23.51	26.91	22.32
6:24	23.69	29.47	21.62	26.50	28.50	21.53	24.06	28.90	21.93	24.56	29.37	21.41	24.87	28.73	21.66	23.50	26.88	22.22
6:25	23.73	29.43	21.53	26.48	28.46	21.50	24.08	28.85	21.84	24.54	29.33	21.34	24.84	28.68	21.62	23.47	26.85	22.12
6:26	23.74	29.38	21.46	26.43	28.42	21.49	24.08	28.80	21.76	24.60	29.29	21.27	24.82	28.63	21.61	23.48	26.84	22.03
6:27	23.78	29.34	21.39	26.40	28.37	21.47	24.07	28.76	21.68	24.60	29.25	21.21	24.77	28.58	21.59	23.47	26.81	21.94
6:28	23.77	29.30	21.32	26.39	28.33	21.44	24.06	28.72	21.62	24.62	29.21	21.15	24.76	28.53	21.57	23.49	26.78	21.86
6:29	23.79	29.26	21.26	26.37	28.28	21.42	24.05	28.67	21.55	24.64	29.18	21.10	24.76	28.49	21.56	23.49	26.76	21.78
6:30	23.82	29.21	21.21	26.36	28.24	21.40	24.07	28.63	21.49	24.64	29.14	21.06	24.73	28.44	21.54	23.50	26.74	21.71
6:31	23.84	29.18	21.14	26.36	28.21	21.37	24.11	28.59	21.45	24.65	29.09	21.01	24.71	28.40	21.53	23.49	26.72	21.65
6:32	23.84	29.13	21.10	26.32	28.16	21.36	24.12	28.55	21.40	24.67	29.05	20.96	24.68	28.35	21.52	23.48	26.69	21.59
6:33	23.84	29.09	21.06	26.30	28.13	21.34	24.12	28.52	21.36	24.67	29.02	20.90	24.66	28.30	21.51	23.49	26.66	21.54
6:34	23.84	29.05	21.01	26.27	28.09	21.32	24.13	28.47	21.31	24.70	28.99	20.87	24.65	28.26	21.49	23.49	26.64	21.49
6:35	23.82	29.01	20.97	26.24	28.06	21.31	24.10	28.43	21.27	24.70	28.96	20.82	24.61	28.22	21.47	23.49	26.62	21.43
6:36	23.81	28.98	20.92	26.23	28.02	21.28	24.10	28.39	21.23	24.68	28.93	20.79	24.58	28.18	21.46	23.49	26.59	21.39
6:37	23.81	28.94	20.89	26.21	27.98	21.26	24.10	28.35	21.22	24.67	28.89	20.77	24.53	28.14	21.45	23.50	26.57	21.35
6:38	23.82	28.91	20.85	26.15	27.95	21.25	24.09	28.32	21.18	24.63	28.85	20.73	24.51	28.10	21.43	23.48	26.55	21.32
6:39	23.84	28.87	20.82	26.12	27.91	21.24	24.07	28.28	21.15	24.59	28.82	20.70	24.48	28.06	21.43	23.44	26.53	21.28
6:40	23.87	28.82	20.79	26.10	27.87	21.22	24.06	28.25	21.10	24.58	28.79	20.67	24.48	28.03	21.41	23.41	26.51	21.24
6:41	23.86	28.80	20.76	26.06	27.84	21.20	24.06	28.21	21.05	24.58	28.76	20.64	24.47	27.98	21.41	23.40	26.48	21.20
6:42	23.88	28.75	20.73	26.05	27.80	21.19	24.06	28.17	21.01	24.60	28.72	20.61	24.44	27.95	21.39	23.41	26.47	21.16
6:43	23.88	28.72	20.71	26.01	27.77	21.17	24.01	28.14	20.97	24.55	28.69	20.59	24.40	27.91	21.38	23.39	26.44	21.14
6:44	23.87	28.69	20.69	25.98	27.75	21.15	23.99	28.10	20.94	24.53	28.66	20.58	24.38	27.89	21.37	23.37	26.42	21.11
6:45	23.83	28.65	20.67	25.94	27.70	21.15	23.97	28.07	20.92	24.55	28.62	20.56	24.37	27.85	21.36	23.39	26.39	21.07
6:46	23.83	28.61	20.65	25.90	27.68	21.14	23.97	28.03	20.88	24.56	28.59	20.53	24.34	27.81	21.36	23.38	26.38	21.03
6:47	23.85	28.59	20.63	25.88	27.64	21.13	23.98	28.00	20.86	24.57	28.57	20.51	24.34	27.78	21.35	23.35	26.36	21.00
6:48	23.86	28.56	20.63	25.86	27.60	21.11	23.98	27.96	20.83	24.60	28.54	20.48	24.34	27.75	21.33	23.33	26.34	20.99
6:49	23.82	28.52	20.61	25.83	27.57	21.09	23.98	27.92	20.80	24.62	28.51	20.45	24.33	27.72	21.31	23.34	26.31	20.96
6:50	23.83	28.49	20.60	25.78	27.54	21.09	23.99	27.90	20.78	24.59	28.47	20.43	24.30	27.68	21.31	23.31	26.30	20.94
6:51	23.82	28.45	20.59	25.74	27.51	21.08	23.99	27.87	20.77	24.61	28.45	20.40	24.28	27.65	21.29	23.29	26.28	20.92
6:52	23.81	28.42	20.58	25.71	27.48	21.06	24.00	27.83	20.75	24.60	28.42	20.39	24.26	27.62	21.28	23.29	26.25	20.89
6:53	23.83	28.39	20.57	25.68	27.44	21.06	23.97	27.80	20.73	24.60	28.39	20.36	24.24	27.60	21.27	23.26	26.23	20.86
6:54	23.83	28.36	20.55	25.66	27.42	21.04	23.96	27.77	20.71	24.59	28.36	20.35	24.21	27.57	21.25	23.26	26.21	20.83
6:55	23.83	28.34	20.53	25.62	27.38	21.03	23.93	27.74	20.70	24.59	28.33	20.33	24.22	27.53	21.26	23.27	26.19	20.81
6:56	23.83	28.29	20.52	25.59	27.35	21.02	23.91	27.71	20.68	24.60	28.31	20.31	24.22	27.51	21.25	23.28	26.17	20.79
6:57	23.81	28.26	20.51	25.55	27.32	21.01	23.91	27.67	20.67	24.59	28.28	20.31	24.20	27.48	21.24	23.27	26.15	20.78
6:58	23.80	28.23	20.49	25.52	27.29	20.99	23.90	27.65	20.65	24.52	28.25	20.29	24.17	27.44	21.23	23.24	26.13	20.76
6:59	23.77	28.21	20.48	25.49	27.25	20.99	23.88	27.62	20.65	24.51	28.22	20.29	24.14	27.42	21.22	23.19	26.11	20.73
7:00	23.74	28.18	20.47	25.44	27.23	20.98	23.85	27.58	20.62	24.50	28.19	20.27	24.12	27.38	21.21	23.16	26.09	20.72
7:01	23.73	28.15	20.46	25.39	27.20	20.98	23.84	27.56	20.60	24.51	28.16	20.25	24.11	27.37	21.19	23.13	26.06	20.70
7:02	23.74	28.12	20.45	25.35	27.17	20.96	23.83	27.52	20.61	24.50	28.13	20.24	24.09	27.34	21.19	23.12	26.04	20.68
7:03	23.73	28.09	20.44	25.29	27.14	20.94	23.87	27.49	20.57	24.52	28.11	20.23	24.10	27.32	21.18	23.13	26.02	20.65
7:04	23.69	28.05	20.44	25.22	27.12	20.94	23.88	27.47	20.57	24.50	28.08	20.24	24.09	27.28	21.18	23.11	25.99	20.64
7:05	23.69	28.03	20.42	25.14	27.08	20.93	23.83	27.43	20.54	24.48	28.06	20.23	24.07	27.26	21.17	23.12	25.97	20.61
7:06	23.68	28.00	20.43	25.08	27.06	20.92	23.82	27.40	20.53	24.48	28.04	20.22	24.08	27.23	21.17	23.10	25.96	20.60
7:07	23.67	27.97	20.42	25.03	27.03	20.91	23.83	27.37	20.51	24.50	28.00	20.21	24.09	27.22	21.15	23.11	25.94	20.57
7:08	23.67	27.94	20.42	24.98	27.00	20.89	23.83	27.35	20.50	24.52	27.98	20.19	24.09	27.18	21.14	23.12	25.92	20.55
7:09	23.68	27.91	20.41	24.94	26.98	20.87	23.83	27.31	20.48	24.52	27.95	20.19	24.08	27.16	21.13	23.14	25.88	20.54
7:10	23.65	27.88	20.41	24.90	26.94	20.85	23.84	27.28	20.47	24.54	27.92	20.17	24.07	27.13	21.13	23.11	25.87	20.52
7:11	23.61	27.86	20.41	24.84	26.91	20.84	23.83	27.26	20.45	24.51	27.90	20.17	24.02	27.11	21.12	23.10	25.86	20.51
7:12	23.60	27.83	20.39	24.78	26.89	20.83	23.81	27.22	20.45	24.49	27.87	20.14	23.98	27.09	21.11	23.09	25.83	20.50
7:13	23.60	27.80	20.39	24.76	26.86	20.82	23.80	27.19	20.44	24.47	27.85	20.14	23.97	27.07	21.11	23.07	25.81	20.49
7:14	23.62	27.78	20.38	24.73	26.83	20.80	23.79	27.17	20.42	24.49	27.82	20.14	23.96	27.04	21.10	23.05	25.78	20.48
7:15	23.61	27.75	20.37	24.69	26.80	20.80	23.79	27.14	20.42	24.48	27.80	20.12	23.95	27.01	21.10	23.06	25.77	20.46

	Thermistors (19-9a)																	
Time	T 19	T 20	T 21	T 22	T 23	T 24	T 25	T 26	T 27	T 1a	T 2a	T 3a	T 4a	T 5a	T 6a	T 7a	T 8a	T 9a
0:00	20.26	19.49	19.40	20.29	19.51	19.69	20.24	20.12	19.73	20.42	20.07	19.56	20.55	19.90	19.14	20.30	20.19	20.06
0:01	20.27	19.49	19.39	20.30	19.50	19.68	20.24	20.12	19.72	20.42	20.07	19.57	20.55	19.90	19.14	20.30	20.20	20.05
0:02	20.61	19.49	19.45	20.90	19.50	19.71	21.09	20.12	19.74	21.02	20.07	19.63	21.18	19.91	19.17	20.71	20.20	20.06
0:03	21.18	19.49	19.56	21.84	19.51	19.76	22.28	20.15	19.77	22.03	20.07	19.72	22.19	19.91	19.23	21.53	20.25	20.08
0:04	21.78	19.49	19.72	22.77	19.52	19.78	23.42	20.20	19.80	23.08	20.09	19.82	23.19	19.91	19.30	22.38	20.34	20.11
0:05	22.37	19.49	19.87	23.64	19.55	19.82	24.47	20.29	19.86	24.08	20.14	19.92	24.13	19.91	19.37	23.17	20.47	20.16
0:06	22.93	19.50	20.05	24.45	19.60	19.85	25.45	20.40	19.91	25.01	20.22	20.03	25.03	19.91	19.45	23.91	20.62	20.21

0:07	23.48	19.49	20.21	25.18	19.68	19.88	26.34	20.53	19.98	25.86	20.33	20.15	25.85	19.91	19.54	24.60	20.77	20.26
0:08	24.01	19.49	20.38	25.86	19.77	19.91	27.12	20.68	20.06	26.64	20.46	20.27	26.61	19.91	19.62	25.21	20.93	20.32
0:09	24.50	19.50	20.55	26.51	19.89	19.94	27.84	20.82	20.12	27.36	20.62	20.38	27.31	19.91	19.71	25.77	21.10	20.37
0:10	24.95	19.49	20.69	27.09	20.00	19.97	28.55	20.97	20.20	28.02	20.79	20.50	27.98	19.91	19.80	26.29	21.26	20.43
0:11	25.37	19.49	20.84	27.62	20.14	20.02	29.21	21.11	20.27	28.64	20.98	20.61	28.59	19.92	19.89	26.77	21.41	20.49
0:12	25.77	19.50	20.97	28.11	20.29	20.05	29.79	21.26	20.35	29.22	21.17	20.72	29.12	19.92	20.00	27.24	21.57	20.54
0:13	26.14	19.50	21.11	28.58	20.43	20.10	30.37	21.42	20.41	29.78	21.37	20.82	29.66	19.93	20.10	27.66	21.72	20.60
0:14	26.48	19.50	21.24	28.99	20.59	20.14	30.93	21.56	20.49	30.30	21.57	20.93	30.14	19.93	20.20	28.03	21.87	20.66
0:15	26.83	19.51	21.38	29.37	20.75	20.21	31.42	21.71	20.56	30.82	21.78	21.04	30.60	19.94	20.32	28.41	22.01	20.71
0:16	27.17	19.51	21.49	29.73	20.90	20.28	31.84	21.86	20.64	31.30	21.99	21.14	31.03	19.95	20.46	28.79	22.16	20.77
0:17	27.50	19.50	21.59	30.07	21.05	20.33	32.28	22.00	20.71	31.76	22.19	21.24	31.40	19.97	20.59	29.16	22.30	20.83
0:18	27.79	19.50	21.70	30.36	21.21	20.39	32.65	22.14	20.80	32.21	22.40	21.33	31.78	19.99	20.71	29.51	22.44	20.89
0:19	28.06	19.51	21.80	30.65	21.38	20.42	33.01	22.28	20.86	32.63	22.61	21.42	32.17	20.01	20.83	29.84	22.57	20.95
0:20	28.32	19.52	21.90	30.96	21.53	20.44	33.36	22.42	20.93	32.99	22.81	21.49	32.55	20.03	20.95	30.12	22.71	21.00
0:21	28.58	19.52	21.98	31.22	21.69	20.45	33.69	22.55	21.01	33.36	23.02	21.54	32.88	20.05	21.07	30.39	22.84	21.06
0:22	28.83	19.52	22.07	31.47	21.85	20.48	33.97	22.69	21.08	33.69	23.22	21.59	33.18	20.08	21.18	30.63	22.97	21.12
0:23	29.06	19.54	22.14	31.70	22.01	20.54	34.23	22.82	21.15	34.04	23.42	21.66	33.50	20.11	21.28	30.85	23.10	21.18
0:24	29.29	19.54	22.22	31.90	22.17	20.58	34.47	22.95	21.22	34.39	23.62	21.74	33.80	20.15	21.37	31.04	23.23	21.23
0:25	29.52	19.55	22.28	32.12	22.31	20.63	34.72	23.08	21.30	34.73	23.82	21.81	34.13	20.18	21.47	31.24	23.35	21.28
0:26	29.72	19.56	22.35	32.35	22.47	20.70	34.94	23.20	21.37	35.05	24.02	21.89	34.44	20.22	21.57	31.44	23.48	21.33
0:27	29.93	19.57	22.40	32.52	22.62	20.76	35.15	23.34	21.44	35.35	24.21	21.96	34.74	20.27	21.66	31.62	23.60	21.38
0:28	30.12	19.60	22.46	32.66	22.78	20.79	35.35	23.46	21.50	35.63	24.41	22.02	35.02	20.31	21.74	31.79	23.72	21.42
0:29	30.31	19.60	22.51	32.82	22.93	20.84	35.53	23.59	21.58	35.89	24.60	22.09	35.28	20.36	21.82	31.94	23.84	21.47
0:30	30.49	19.62	22.57	32.93	23.08	20.88	35.70	23.71	21.64	36.14	24.79	22.17	35.51	20.41	21.89	32.08	23.96	21.51
0:31	30.65	19.64	22.62	33.06	23.22	20.92	35.84	23.83	21.71	36.38	24.97	22.26	35.72	20.46	21.96	32.21	24.07	21.55
0:32	30.82	19.65	22.68	33.17	23.36	20.97	36.01	23.96	21.79	36.61	25.16	22.33	35.93	20.51	22.04	32.34	24.19	21.60
0:33	30.98	19.68	22.72	33.29	23.52	21.01	36.19	24.07	21.85	36.82	25.34	22.41	36.17	20.57	22.12	32.44	24.30	21.64
0:34	31.14	19.69	22.77	33.46	23.66	21.05	36.35	24.20	21.92	37.02	25.52	22.48	36.37	20.63	22.18	32.55	24.42	21.69
0:35	31.30	19.72	22.82	33.62	23.79	21.09	36.53	24.31	21.99	37.19	25.70	22.57	36.57	20.69	22.25	32.67	24.53	21.73
0:36	31.44	19.75	22.87	33.74	23.93	21.12	36.67	24.44	22.04	37.38	25.88	22.64	36.74	20.75	22.32	32.78	24.64	21.77
0:37	31.58	19.77	22.91	33.85	24.07	21.17	36.81	24.56	22.10	37.49	26.05	22.71	36.92	20.81	22.38	32.89	24.76	21.82
0:38	31.71	19.79	22.97	33.97	24.21	21.20	36.95	24.67	22.16	37.62	26.23	22.76	37.09	20.87	22.44	32.98	24.87	21.86
0:39	31.83	19.83	23.03	34.12	24.35	21.23	37.08	24.79	22.22	37.78	26.40	22.82	37.26	20.94	22.49	33.07	24.98	21.90
0:40	31.97	19.85	23.09	34.24	24.49	21.27	37.22	24.92	22.28	37.86	26.57	22.88	37.43	21.01	22.55	33.18	25.09	21.94
0:41	32.08	19.89	23.15	34.31	24.62	21.29	37.32	25.03	22.34	37.98	26.74	22.93	37.59	21.08	22.60	33.30	25.20	21.98
0:42	32.19	19.93	23.20	34.35	24.76	21.32	37.42	25.15	22.40	38.07	26.91	22.96	37.73	21.15	22.65	33.39	25.31	22.02
0:43	32.31	19.96	23.26	34.42	24.89	21.35	37.55	25.26	22.46	38.17	27.08	23.00	37.89	21.22	22.69	33.47	25.42	22.06
0:44	32.44	20.00	23.31	34.51	25.03	21.38	37.70	25.38	22.51	38.29	27.24	23.05	38.02	21.29	22.74	33.56	25.53	22.10
0:45	32.56	20.04	23.36	34.59	25.17	21.41	37.77	25.50	22.57	38.47	27.41	23.10	38.13	21.36	22.78	33.65	25.64	22.13
0:46	32.65	20.07	23.40	34.65	25.30	21.44	37.85	25.61	22.61	38.61	27.57	23.11	38.25	21.44	22.82	33.73	25.75	22.17
0:47	32.74	20.10	23.46	34.69	25.43	21.43	37.92	25.73	22.67	38.74	27.73	23.11	38.38	21.51	22.86	33.82	25.85	22.21
0:48	32.84	20.14	23.49	34.78	25.56	21.43	37.99	25.84	22.72	38.90	27.89	23.11	38.47	21.59	22.90	33.90	25.96	22.24
0:49	32.90	20.19	23.52	34.86	25.68	21.44	38.07	25.96	22.78	39.01	28.05	23.13	38.56	21.67	22.93	33.97	26.07	22.28
0:50	32.97	20.23	23.56	34.93	25.81	21.46	38.14	26.07	22.82	39.11	28.21	23.14	38.65	21.74	22.97	34.04	26.17	22.31
0:51	33.06	20.28	23.60	35.00	25.93	21.48	38.21	26.18	22.86	39.18	28.36	23.15	38.78	21.82	23.00	34.13	26.28	22.35
0:52	33.13	20.32	23.63	35.07	26.07	21.50	38.28	26.29	22.91	39.33	28.52	23.16	38.88	21.90	23.04	34.20	26.38	22.38
0:53	33.20	20.36	23.67	35.19	26.20	21.53	38.35	26.40	22.95	39.44	28.67	23.17	38.98	21.98	23.07	34.25	26.48	22.41
0:54	33.28	20.40	23.71	35.27	26.32	21.56	38.45	26.52	23.00	39.50	28.82	23.20	39.10	22.06	23.09	34.29	26.59	22.44
0:55	33.34	20.47	23.74	35.31	26.44	21.57	38.53	26.62	23.03	39.56	28.97	23.23	39.21	22.14	23.12	34.33	26.69	22.48
0:56	33.44	20.51	23.76	35.36	26.56	21.59	38.61	26.74	23.08	39.50	29.12	23.27	39.31	22.23	23.15	34.37	26.79	22.51
0:57	33.49	20.56	23.79	35.40	26.69	21.60	38.68	26.85	23.12	39.53	29.27	23.31	39.39	22.31	23.17	34.43	26.89	22.54
0:58	33.55	20.60	23.82	35.40	26.81	21.61	38.75	26.95	23.17	39.62	29.41	23.34	39.44	22.39	23.19	34.47	26.99	22.57
0:59	33.63	20.65	23.85	35.46	26.94	21.61	38.83	27.06	23.20	39.63	29.55	23.35	39.50	22.47	23.21	34.52	27.09	22.60
1:00	33.70	20.72	23.87	35.49	27.05	21.63	38.90	27.17	23.26	39.67	29.69	23.36	39.58	22.56	23.21	34.53	27.19	22.63
1:01	33.75	20.77	23.89	35.53	27.17	21.64	38.98	27.28	23.28	39.74	29.83	23.39	39.67	22.64	23.22	34.55	27.29	22.65
1:02	33.82	20.82	23.91	35.54	27.29	21.64	39.04	27.38	23.32	39.83	29.97	23.42	39.74	22.72	23.24	34.61	27.38	22.68
1:03	33.89	20.87	23.94	35.62	27.41	21.66	39.13	27.49	23.35	39.97	30.11	23.43	39.81	22.81	23.25	34.66	27.48	22.71
1:04	33.93	20.93	23.95	35.69	27.52	21.68	39.16	27.60	23.39	40.01	30.24	23.40	39.88	22.89	23.26	34.70	27.58	22.74
1:05	33.95	20.98	23.98	35.75	27.64	21.69	39.21	27.70	23.43	40.08	30.38	23.38	39.95	22.98	23.27	34.75	27.67	22.76
1:06	34.02	21.03	24.00	35.74	27.75	21.71	39.24	27.81	23.46	40.18	30.51	23.37	39.98	23.06	23.28	34.78	27.77	22.79
1:07	34.09	21.09	24.02	35.78	27.87	21.71	39.30	27.91	23.50	40.17	30.64	23.36	40.04	23.15	23.29	34.83	27.86	22.81
1:08	34.14	21.15	24.04	35.86	27.98	21.72	39.36	28.01	23.53	40.17	30.77	23.36	40.10	23.23	23.31	34.89	27.95	22.84
1:09	34.20	21.20	24.06	35.92	28.09	21.73	39.39	28.13	23.56	40.28	30.90	23.34	40.16	23.32	23.32	34.92	28.05	22.86
1:10	34.27	21.27	24.07	35.97	28.21	21.75	39.43	28.22	23.59	40.37	31.03	23.33						

1:15	34.45	21.55	24.14	36.27	28.75	21.79	39.78	28.73	23.69	40.71	31.65	23.42	40.39	23.83	23.35	35.09	28.60	23.00
1:16	34.51	21.61	24.17	36.30	28.86	21.81	39.84	28.83	23.72	40.84	31.77	23.45	40.44	23.92	23.36	35.11	28.69	23.02
1:17	34.56	21.68	24.18	36.32	28.96	21.82	39.88	28.94	23.74	40.92	31.89	23.47	40.51	24.01	23.36	35.16	28.78	23.04
1:18	34.60	21.74	24.21	36.33	29.07	21.83	39.94	29.04	23.77	40.97	32.01	23.47	40.59	24.09	23.38	35.21	28.87	23.06
1:19	34.65	21.80	24.23	36.37	29.17	21.84	39.99	29.14	23.78	41.07	32.12	23.46	40.64	24.18	23.39	35.25	28.96	23.09
1:20	34.69	21.86	24.22	36.39	29.28	21.86	40.04	29.23	23.81	41.15	32.24	23.44	40.69	24.26	23.39	35.28	29.05	23.11
1:21	34.75	21.92	24.26	36.46	29.39	21.88	40.10	29.34	23.82	41.22	32.36	23.40	40.75	24.35	23.39	35.32	29.14	23.12
1:22	34.80	21.98	24.27	36.47	29.49	21.88	40.12	29.44	23.85	41.25	32.47	23.39	40.75	24.43	23.40	35.36	29.22	23.14
1:23	34.86	22.04	24.27	36.47	29.58	21.89	40.15	29.54	23.87	41.33	32.58	23.38	40.82	24.52	23.40	35.40	29.31	23.16
1:24	34.91	22.11	24.28	36.51	29.69	21.92	40.22	29.63	23.89	41.40	32.70	23.37	40.88	24.60	23.41	35.46	29.40	23.17
1:25	34.96	22.17	24.29	36.56	29.79	21.92	40.27	29.73	23.92	41.45	32.81	23.36	40.89	24.69	23.42	35.51	29.49	23.19
1:26	35.01	22.23	24.29	36.59	29.89	21.93	40.33	29.82	23.96	41.51	32.92	23.35	40.93	24.77	23.43	35.56	29.57	23.21
1:27	35.04	22.29	24.30	36.62	29.99	21.94	40.41	29.92	23.97	41.57	33.03	23.38	40.98	24.86	23.44	35.61	29.66	23.23
1:28	35.08	22.36	24.30	36.66	30.08	21.95	40.48	30.02	24.00	41.64	33.14	23.39	41.03	24.94	23.45	35.65	29.75	23.25
1:29	35.11	22.42	24.30	36.71	30.19	21.96	40.55	30.11	24.02	41.67	33.25	23.40	41.07	25.03	23.45	35.69	29.83	23.26
1:30	35.17	22.48	24.32	36.74	30.28	21.97	40.61	30.21	24.04	41.72	33.36	23.42	41.13	25.11	23.45	35.75	29.92	23.27
1:31	35.24	22.54	24.32	36.76	30.37	21.98	40.68	30.31	24.06	41.77	33.46	23.40	41.17	25.20	23.46	35.83	30.00	23.28
1:32	35.31	22.60	24.33	36.79	30.47	21.99	40.73	30.40	24.07	41.82	33.57	23.39	41.22	25.28	23.47	35.84	30.09	23.30
1:33	35.35	22.66	24.33	36.85	30.56	22.00	40.78	30.50	24.11	41.89	33.67	23.38	41.28	25.37	23.47	35.86	30.17	23.31
1:34	35.37	22.73	24.33	36.90	30.66	22.00	40.81	30.60	24.13	41.93	33.78	23.37	41.36	25.45	23.48	35.88	30.26	23.33
1:35	35.39	22.80	24.33	36.93	30.76	22.02	40.88	30.69	24.15	41.97	33.88	23.36	41.42	25.54	23.48	35.93	30.34	23.34
1:36	35.41	22.85	24.34	36.97	30.85	22.03	40.93	30.78	24.16	41.96	33.99	23.35	41.46	25.62	23.47	35.96	30.42	23.36
1:37	35.44	22.92	24.34	37.05	30.94	22.03	40.97	30.87	24.18	41.99	34.09	23.36	41.49	25.71	23.48	36.00	30.51	23.38
1:38	35.49	22.98	24.34	37.13	31.04	22.04	41.05	30.97	24.21	42.05	34.19	23.36	41.51	25.79	23.48	36.04	30.59	23.40
1:39	35.49	23.04	24.35	37.21	31.13	22.06	41.11	31.06	24.23	42.14	34.29	23.35	41.55	25.88	23.49	36.09	30.67	23.41
1:40	35.51	23.11	24.35	37.29	31.22	22.05	41.16	31.15	24.26	42.19	34.39	23.34	41.58	25.96	23.49	36.11	30.75	23.43
1:41	35.55	23.17	24.36	37.35	31.31	22.06	41.23	31.25	24.27	42.21	34.49	23.34	41.62	26.05	23.49	36.12	30.83	23.44
1:42	35.61	23.23	24.37	37.39	31.40	22.07	41.30	31.34	24.30	42.23	34.59	23.35	41.65	26.13	23.49	36.15	30.91	23.46
1:43	35.67	23.29	24.38	37.43	31.49	22.08	41.35	31.43	24.34	42.26	34.68	23.34	41.67	26.22	23.50	36.20	30.99	23.48
1:44	35.73	23.35	24.40	37.46	31.58	22.09	41.41	31.52	24.35	42.28	34.78	23.34	41.73	26.30	23.50	36.21	31.07	23.50
1:45	35.77	23.41	24.41	37.52	31.67	22.10	41.48	31.62	24.37	42.28	34.88	23.34	41.79	26.38	23.50	36.24	31.15	23.51
1:46	35.81	23.49	24.42	37.57	31.76	22.11	41.54	31.70	24.39	42.30	34.97	23.34	41.80	26.47	23.50	36.29	31.23	23.53
1:47	35.83	23.54	24.43	37.59	31.85	22.12	41.59	31.80	24.40	42.34	35.06	23.35	41.82	26.55	23.52	36.33	31.31	23.54
1:48	35.85	23.61	24.44	37.64	31.93	22.12	41.65	31.89	24.42	42.37	35.16	23.36	41.85	26.63	23.51	36.35	31.39	23.56
1:49	35.88	23.67	24.45	37.70	32.02	22.14	41.72	31.97	24.44	42.40	35.25	23.36	41.85	26.71	23.51	36.38	31.47	23.58
1:50	35.90	23.73	24.46	37.72	32.10	22.15	41.75	32.06	24.46	42.43	35.34	23.36	41.87	26.80	23.53	36.41	31.54	23.59
1:51	35.92	23.80	24.47	37.73	32.19	22.16	41.80	32.15	24.48	42.47	35.43	23.37	41.87	26.88	23.53	36.45	31.62	23.61
1:52	35.97	23.85	24.49	37.79	32.27	22.16	41.86	32.24	24.49	42.48	35.52	23.40	41.90	26.96	23.54	36.49	31.70	23.62
1:53	36.02	23.92	24.52	37.84	32.36	22.17	41.95	32.33	24.51	42.51	35.61	23.41	41.96	27.04	23.55	36.51	31.77	23.64
1:54	36.09	23.98	24.53	37.88	32.44	22.18	42.03	32.42	24.52	42.54	35.70	23.40	42.00	27.12	23.56	36.54	31.85	23.65
1:55	36.14	24.04	24.55	37.98	32.53	22.19	42.08	32.50	24.54	42.56	35.79	23.40	42.05	27.20	23.57	36.58	31.93	23.66
1:56	36.17	24.10	24.57	38.01	32.61	22.20	42.12	32.59	24.55	42.62	35.87	23.41	42.13	27.28	23.59	36.63	32.00	23.68
1:57	36.23	24.16	24.59	38.04	32.69	22.21	42.19	32.68	24.56	42.64	35.96	23.42	42.16	27.36	23.61	36.68	32.08	23.69
1:58	36.29	24.23	24.61	38.11	32.77	22.21	42.25	32.77	24.58	42.68	36.05	23.43	42.18	27.44	23.62	36.72	32.15	23.71
1:59	36.32	24.29	24.62	38.15	32.86	22.22	42.32	32.85	24.60	42.71	36.13	23.43	42.23	27.52	23.63	36.76	32.23	23.72
2:00	36.29	24.35	24.64	38.27	32.93	22.24	42.43	32.94	24.62	42.77	36.22	23.42	42.27	27.60	23.64	36.79	32.30	23.73
2:01	36.27	24.42	24.65	38.25	33.01	22.25	42.51	33.03	24.63	42.80	36.30	23.42	42.30	27.67	23.65	36.78	32.37	23.75
2:02	36.29	24.47	24.66	38.27	33.10	22.27	42.59	33.11	24.66	42.80	36.39	23.46	42.34	27.75	23.65	36.80	32.45	23.76
2:03	36.30	24.54	24.68	38.33	33.17	22.27	42.63	33.20	24.67	42.83	36.47	23.46	42.37	27.83	23.65	36.82	32.52	23.78
2:04	36.31	24.59	24.71	38.35	33.26	22.27	42.71	33.28	24.68	42.88	36.56	23.46	42.40	27.91	23.66	36.86	32.60	23.79
2:05	36.32	24.66	24.73	38.38	33.34	22.28	42.80	33.36	24.70	42.91	36.64	23.46	42.45	27.98	23.67	36.89	32.67	23.80
2:06	36.33	24.73	24.76	38.43	33.41	22.28	42.89	33.46	24.71	42.94	36.72	23.46	42.54	28.06	23.68	36.91	32.74	23.82
2:07	36.35	24.78	24.77	38.49	33.50	22.29	42.95	33.54	24.72	42.98	36.80	23.47	42.58	28.13	23.69	36.94	32.81	23.84
2:08	36.39	24.85	24.77	38.57	33.57	22.30	42.99	33.61	24.74	42.98	36.88	23.48	42.60	28.21	23.69	36.97	32.89	23.85
2:09	36.42	24.90	24.78	38.59	33.64	22.30	43.00	33.71	24.76	43.06	36.96	23.48	42.61	28.28	23.69	37.01	32.96	23.86
2:10	36.50	24.96	24.79	38.61	33.73	22.32	43.03	33.79	24.77	43.10	37.05	23.49	42.66	28.36	23.70	37.05	33.03	23.88
2:11	36.52	25.02	24.79	38.66	33.80	22.33	43.07	33.87	24.79	43.12	37.13	23.50	42.62	28.43	23.71	37.09	33.10	23.89
2:12	36.53	25.08	24.79	38.70	33.88	22.31	43.09	33.95	24.81	43.18	37.20	23.50	42.66	28.51	23.71	37.12	33.17	23.90
2:13	36.54	25.14	24.79	38.76	33.96	22.27	43.14	34.04	24.83	43.19	37.28	23.51	42.69	28.58	23.72	37.15	33.24	23.91
2:14	36.54	25.20	24.81	38.83	34.02	22.27	43.19	34.12	24.84	43.22	37.36	23.53	42.71	28.66	23.73	37.17	33.31	23.92
2:15	36.60	25.26	24.83	38.84	34.11	22.27	43.24	34.20	24.87	43.19	37.44	23.53	42.75	28.73	23.74	37.19	33.38	23.94
2:16	36.61	25.32	24.85	38.88	34.17	22.28	43.28	34.28	24.88	43.21	37.52	23.53	42.79	28.81	23.75	37.21	33.45	23.95
2:17	36.60	25.37	24.86	38.93	34.26	22.30	43.34	34.35	24.89	43.19	37.59	23.54	42.80	28.88	23.76	37.26	33.52	23.96
2:18	36.58	25.43	24.87	38.99	34.32	22.30	43.38	34.44	24.90	43.18	37.67	23.54						

2:23	36.75	25.74	24.93	39.09	34.68	22.33	43.62	34.83	24.96	43.37	38.03	23.58	42.97	29.32	23.76	37.35	33.92	24.05
2:24	36.75	25.79	24.95	39.13	34.76	22.34	43.66	34.91	24.98	43.41	38.10	23.58	42.97	29.39	23.77	37.35	33.99	24.06
2:25	36.77	25.84	24.95	39.18	34.83	22.34	43.72	34.98	25.00	43.42	38.18	23.59	42.97	29.46	23.79	37.41	34.05	24.06
2:26	36.80	25.89	24.96	39.24	34.90	22.35	43.73	35.07	25.01	43.45	38.25	23.60	42.95	29.53	23.80	37.49	34.12	24.07
2:27	36.83	25.95	24.98	39.29	34.96	22.36	43.78	35.14	25.02	43.50	38.32	23.61	42.97	29.60	23.80	37.52	34.18	24.08
2:28	36.85	26.01	24.99	39.27	35.03	22.36	43.82	35.21	25.03	43.54	38.39	23.61	43.03	29.67	23.82	37.58	34.25	24.09
2:29	36.86	26.07	25.01	39.31	35.10	22.37	43.89	35.29	25.05	43.61	38.45	23.63	43.08	29.74	23.83	37.62	34.31	24.10
2:30	36.90	26.12	25.01	39.40	35.17	22.39	43.92	35.36	25.06	43.65	38.52	23.63	43.09	29.81	23.84	37.66	34.37	24.11
2:31	36.92	26.18	25.03	39.44	35.24	22.39	43.95	35.44	25.07	43.68	38.59	23.63	43.09	29.88	23.85	37.69	34.44	24.12
2:32	36.95	26.24	25.05	39.52	35.29	22.39	44.01	35.52	25.09	43.71	38.66	23.64	43.07	29.95	23.86	37.73	34.50	24.13
2:33	37.00	26.30	25.06	39.61	35.36	22.40	44.06	35.59	25.10	43.75	38.73	23.63	43.03	30.02	23.87	37.73	34.56	24.14
2:34	37.07	26.35	25.08	39.66	35.43	22.41	44.09	35.66	25.11	43.75	38.79	23.65	43.03	30.09	23.89	37.75	34.63	24.15
2:35	37.07	26.40	25.10	39.71	35.49	22.42	44.14	35.74	25.13	43.78	38.86	23.66	43.05	30.15	23.90	37.81	34.69	24.16
2:36	37.08	26.46	25.11	39.72	35.56	22.42	44.18	35.81	25.14	43.80	38.92	23.66	43.06	30.22	23.90	37.85	34.75	24.16
2:37	37.11	26.52	25.13	39.70	35.63	22.39	44.26	35.89	25.15	43.80	38.99	23.67	43.06	30.29	23.91	37.91	34.81	24.17
2:38	37.08	26.57	25.13	39.75	35.69	22.36	44.34	35.96	25.17	43.85	39.05	23.67	43.09	30.36	23.91	37.95	34.88	24.18
2:39	37.04	26.62	25.16	39.76	35.75	22.33	44.37	36.03	25.18	43.90	39.12	23.69	43.14	30.42	23.93	37.99	34.94	24.19
2:40	37.09	26.68	25.16	39.67	35.81	22.32	44.36	36.10	25.19	43.96	39.18	23.71	43.13	30.49	23.95	38.01	35.00	24.20
2:41	37.11	26.72	25.17	39.72	35.88	22.29	44.40	36.18	25.19	43.99	39.25	23.72	43.18	30.56	23.95	38.03	35.06	24.22
2:42	37.13	26.78	25.18	39.75	35.94	22.29	44.43	36.25	25.22	44.02	39.31	23.73	43.23	30.62	23.94	38.06	35.12	24.23
2:43	37.19	26.84	25.18	39.75	36.01	22.27	44.42	36.32	25.23	44.03	39.38	23.74	43.28	30.69	23.94	38.12	35.18	24.25
2:44	37.24	26.89	25.20	39.80	36.06	22.28	44.45	36.39	25.24	44.07	39.44	23.73	43.30	30.75	23.94	38.16	35.25	24.26
2:45	37.31	26.94	25.22	39.85	36.12	22.27	44.53	36.45	25.26	44.11	39.50	23.73	43.31	30.82	23.94	38.21	35.31	24.27
2:46	37.37	26.99	25.24	39.89	36.19	22.27	44.57	36.53	25.27	44.17	39.57	23.74	43.29	30.88	23.95	38.29	35.37	24.28
2:47	37.38	27.05	25.27	39.96	36.26	22.29	44.61	36.60	25.28	44.23	39.63	23.75	43.29	30.95	23.96	38.36	35.43	24.29
2:48	37.42	27.10	25.27	40.00	36.31	22.31	44.66	36.67	25.30	44.26	39.69	23.76	43.34	31.01	23.96	38.40	35.49	24.30
2:49	37.44	27.15	25.29	40.03	36.38	22.33	44.69	36.74	25.31	44.28	39.75	23.77	43.42	31.07	23.96	38.44	35.55	24.31
2:50	37.48	27.20	25.30	40.11	36.43	22.36	44.72	36.82	25.34	44.29	39.82	23.78	43.45	31.14	23.96	38.47	35.61	24.32
2:51	37.53	27.26	25.32	40.15	36.50	22.38	44.78	36.89	25.35	44.33	39.88	23.79	43.48	31.20	23.96	38.50	35.67	24.33
2:52	37.56	27.30	25.33	40.17	36.56	22.39	44.81	36.96	25.36	44.37	39.94	23.79	43.55	31.26	23.97	38.54	35.73	24.35
2:53	37.59	27.36	25.34	40.21	36.62	22.40	44.87	37.03	25.38	44.41	40.00	23.79	43.59	31.33	23.97	38.60	35.79	24.36
2:54	37.58	27.41	25.37	40.28	36.68	22.41	44.91	37.10	25.38	44.45	40.06	23.80	43.62	31.39	23.97	38.64	35.85	24.37
2:55	37.61	27.46	25.37	40.31	36.74	22.43	44.97	37.17	25.40	44.50	40.12	23.80	43.67	31.45	23.97	38.68	35.90	24.38
2:56	37.62	27.51	25.37	40.35	36.80	22.43	44.97	37.24	25.42	44.58	40.18	23.81	43.71	31.51	23.97	38.72	35.96	24.39
2:57	37.64	27.56	25.38	40.37	36.86	22.45	44.99	37.30	25.42	44.59	40.24	23.81	43.74	31.57	23.97	38.76	36.02	24.40
2:58	37.66	27.62	25.39	40.37	36.92	22.45	45.02	37.37	25.44	44.61	40.30	23.81	43.74	31.64	23.97	38.78	36.08	24.41
2:59	37.69	27.66	25.40	40.37	36.98	22.46	45.09	37.44	25.45	44.63	40.36	23.80	43.75	31.70	23.98	38.81	36.14	24.42
3:00	37.69	27.71	25.41	40.33	37.03	22.47	45.13	37.51	25.46	44.67	40.42	23.81	43.77	31.76	23.98	38.85	36.19	24.43
3:01	37.71	27.76	25.42	40.35	37.10	22.42	45.16	37.58	25.48	44.72	40.48	23.81	43.78	31.82	23.99	38.89	36.25	24.44
3:02	37.74	27.81	25.43	40.39	37.15	22.40	45.19	37.64	25.50	44.69	40.54	23.82	43.82	31.88	23.99	38.91	36.31	24.45
3:03	37.76	27.85	25.44	40.43	37.21	22.40	45.25	37.71	25.50	44.72	40.60	23.82	43.85	31.94	23.99	38.94	36.36	24.46
3:04	37.77	27.91	25.46	40.50	37.27	22.41	45.29	37.77	25.51	44.75	40.65	23.82	43.86	32.00	23.99	38.97	36.42	24.47
3:05	37.77	27.96	25.47	40.52	37.33	22.42	45.34	37.84	25.53	44.80	40.71	23.82	43.87	32.06	24.00	38.98	36.47	24.47
3:06	37.77	28.01	25.49	40.55	37.39	22.43	45.36	37.90	25.54	44.84	40.77	23.84	43.88	32.12	24.00	39.00	36.53	24.48
3:07	37.78	28.06	25.50	40.59	37.43	22.44	45.39	37.98	25.56	44.85	40.82	23.85	43.90	32.18	24.00	39.01	36.59	24.49
3:08	37.75	28.10	25.52	40.62	37.49	22.45	45.46	38.04	25.57	44.85	40.88	23.84	43.94	32.24	24.00	39.04	36.64	24.50
3:09	37.70	28.15	25.53	40.66	37.55	22.46	45.50	38.10	25.58	44.86	40.93	23.85	43.97	32.30	24.01	39.07	36.69	24.51
3:10	37.72	28.20	25.55	40.68	37.60	22.47	45.55	38.17	25.58	44.85	40.99	23.87	43.97	32.36	24.01	39.11	36.75	24.52
3:11	37.75	28.24	25.55	40.67	37.66	22.48	45.58	38.24	25.60	44.93	41.04	23.88	44.00	32.42	24.02	39.15	36.80	24.53
3:12	37.78	28.29	25.57	40.71	37.72	22.50	45.62	38.29	25.60	44.94	41.10	23.88	44.02	32.48	24.02	39.18	36.86	24.54
3:13	37.80	28.34	25.59	40.77	37.76	22.49	45.66	38.35	25.61	44.97	41.15	23.88	44.06	32.54	24.02	39.19	36.91	24.55
3:14	37.83	28.39	25.61	40.82	37.82	22.51	45.72	38.42	25.62	44.99	41.21	23.88	44.07	32.59	24.02	39.22	36.96	24.56
3:15	37.89	28.44	25.63	40.87	37.87	22.51	45.78	38.48	25.63	45.00	41.26	23.87	44.09	32.65	24.02	39.24	37.02	24.57
3:16	37.93	28.48	25.64	40.91	37.93	22.52	45.82	38.55	25.63	45.03	41.31	23.87	44.13	32.71	24.02	39.27	37.07	24.58
3:17	37.93	28.53	25.68	40.88	37.98	22.52	45.85	38.61	25.64	45.04	41.36	23.88	44.11	32.76	24.03	39.30	37.12	24.58
3:18	37.98	28.58	25.67	40.88	38.03	22.53	45.85	38.67	25.66	45.05	41.42	23.89	44.15	32.82	24.04	39.32	37.18	24.60
3:19	38.00	28.62	25.69	40.88	38.08	22.54	45.85	38.73	25.66	45.07	41.47	23.90	44.21	32.88	24.05	39.35	37.23	24.60
3:20	38.02	28.67	25.70	40.89	38.14	22.55	45.88	38.79	25.68	45.04	41.52	23.89	44.28	32.93	24.05	39.41	37.28	24.61
3:21	38.04	28.72	25.71	40.90	38.19	22.56	45.90	38.85	25.70	45.04	41.57	23.89	44.27	32.99	24.05	39.45	37.33	24.62
3:22	38.09	28.76	25.72	40.93	38.23	22.58	45.96	38.91	25.71	45.02	41.63	23.89	44.26	33.04	24.05	39.45	37.38	24.63
3:23	38.15	28.80	25.73	41.00	38.29	22.59	46.01	38.98	25.72	45.02	41.68	23.89	44.30	33.10	24.05	39.46	37.43	24.64
3:24	38.19	28.85	25.75	41.03	38.33	22.55	46.07	39.04	25.75	45.05	41.72	23.89	44.31	33.15	24.05	39.49	37.48	24.64
3:25	38.23	28.90	25.78	41.02	38.38	22.52	46.10	39.10	25.76	45.06	41.77	23.91	44.33	33.21	24.06	39.54	37.54	24.65
3:26	38.23	28.94	25.78	41.03	38.44	22.50	46.14	39.15	25.78	45.08	41.82	23.91						

3:31	38.26	29.16	25.87	41.15	38.69	22.56	46.35	39.46	25.87	45.09	42.08	23.90	44.40	33.53	24.09	39.65	37.84	24.71
3:32	38.26	29.20	25.89	41.21	38.74	22.57	46.41	39.52	25.88	45.07	42.13	23.91	44.46	33.58	24.10	39.70	37.89	24.72
3:33	38.23	29.25	25.90	41.20	38.79	22.58	46.48	39.59	25.89	45.15	42.18	23.93	44.49	33.64	24.12	39.76	37.94	24.72
3:34	38.17	29.29	25.93	41.24	38.84	22.59	46.53	39.64	25.91	45.21	42.23	23.92	44.50	33.69	24.12	39.79	37.99	24.73
3:35	38.13	29.34	25.94	41.28	38.89	22.60	46.59	39.70	25.92	45.26	42.28	23.93	44.52	33.74	24.13	39.77	38.04	24.74
3:36	38.15	29.38	25.96	41.33	38.94	22.61	46.64	39.76	25.93	45.30	42.33	23.94	44.55	33.79	24.13	39.77	38.09	24.74
3:37	38.16	29.42	25.98	41.33	38.98	22.61	46.70	39.81	25.95	45.31	42.38	23.95	44.56	33.84	24.13	39.81	38.14	24.75
3:38	38.17	29.46	25.99	41.34	39.03	22.62	46.72	39.87	25.96	45.34	42.42	23.95	44.60	33.90	24.14	39.84	38.19	24.76
3:39	38.22	29.51	26.01	41.38	39.09	22.63	46.77	39.93	25.98	45.35	42.47	23.96	44.68	33.95	24.14	39.87	38.24	24.76
3:40	38.27	29.55	26.03	41.41	39.13	22.64	46.81	39.99	26.00	45.38	42.52	23.97	44.66	34.00	24.15	39.90	38.29	24.77
3:41	38.31	29.59	26.03	41.42	39.18	22.65	46.88	40.05	26.01	45.45	42.57	23.98	44.67	34.05	24.16	39.92	38.34	24.78
3:42	38.33	29.63	26.03	41.46	39.22	22.65	46.91	40.10	26.03	45.50	42.62	23.98	44.67	34.10	24.17	39.96	38.38	24.79
3:43	38.34	29.67	26.05	41.50	39.27	22.66	46.95	40.16	26.04	45.55	42.66	23.98	44.70	34.15	24.17	39.99	38.43	24.79
3:44	38.31	29.72	26.06	41.51	39.32	22.66	46.98	40.22	26.06	45.61	42.71	23.99	44.71	34.20	24.17	40.02	38.48	24.80
3:45	38.29	29.76	26.05	41.51	39.37	22.67	46.98	40.27	26.07	45.59	42.76	23.99	44.73	34.25	24.18	40.01	38.53	24.81
3:46	38.29	29.80	26.05	41.50	39.42	22.68	46.99	40.32	26.09	45.61	42.80	24.00	44.75	34.30	24.18	40.05	38.57	24.82
3:47	38.32	29.84	26.06	41.54	39.46	22.69	47.03	40.38	26.10	45.64	42.85	24.01	44.78	34.35	24.19	40.08	38.62	24.83
3:48	38.35	29.88	26.07	41.50	39.51	22.71	47.04	40.44	26.11	45.68	42.90	24.02	44.79	34.40	24.19	40.11	38.67	24.84
3:49	38.38	29.92	26.07	41.50	39.56	22.70	47.06	40.49	26.13	45.72	42.94	24.03	44.79	34.45	24.20	40.13	38.72	24.85
3:50	38.38	29.96	26.07	41.56	39.61	22.70	47.11	40.54	26.15	45.75	42.99	24.03	44.79	34.50	24.20	40.16	38.76	24.86
3:51	38.35	30.00	26.09	41.62	39.65	22.72	47.16	40.60	26.16	45.73	43.03	24.03	44.80	34.55	24.21	40.19	38.81	24.86
3:52	38.34	30.05	26.09	41.65	39.70	22.73	47.17	40.65	26.17	45.73	43.08	24.04	44.84	34.60	24.21	40.22	38.86	24.87
3:53	38.40	30.08	26.09	41.62	39.75	22.74	47.20	40.71	26.20	45.68	43.13	24.05	44.84	34.65	24.22	40.24	38.90	24.88
3:54	38.39	30.12	26.09	41.64	39.79	22.75	47.25	40.77	26.23	45.65	43.17	24.06	44.82	34.70	24.22	40.23	38.95	24.89
3:55	38.42	30.16	26.09	41.64	39.84	22.75	47.27	40.82	26.24	45.58	43.22	24.07	44.85	34.74	24.22	40.22	38.99	24.89
3:56	38.38	30.20	26.10	41.64	39.89	22.72	47.29	40.87	26.25	45.49	43.26	24.09	44.91	34.79	24.23	40.23	39.04	24.90
3:57	38.35	30.24	26.10	41.67	39.93	22.69	47.32	40.92	26.28	45.46	43.31	24.09	44.92	34.84	24.24	40.24	39.08	24.91
3:58	38.33	30.28	26.10	41.67	39.97	22.68	47.37	40.98	26.29	45.41	43.35	24.10	44.93	34.89	24.24	40.27	39.12	24.91
3:59	38.38	30.33	26.11	41.72	40.02	22.69	47.38	41.03	26.31	45.43	43.39	24.11	44.94	34.94	24.25	40.29	39.17	24.92
4:00	38.41	30.36	26.11	41.77	40.06	22.69	47.42	41.08	26.32	45.51	43.44	24.13	44.94	34.98	24.25	40.27	39.21	24.93
4:01	38.43	30.40	26.11	41.79	40.11	22.71	47.45	41.13	26.34	45.57	43.48	24.13	44.95	35.03	24.26	40.29	39.25	24.94
4:02	38.43	30.44	26.12	41.87	40.15	22.72	47.51	41.19	26.36	45.63	43.52	24.14	44.97	35.08	24.27	40.33	39.30	24.94
4:03	38.44	30.49	26.13	41.87	40.19	22.74	47.55	41.24	26.38	45.66	43.57	24.14	44.99	35.13	24.28	40.39	39.34	24.95
4:04	38.44	30.52	26.14	41.92	40.24	22.76	47.61	41.29	26.39	45.69	43.61	24.15	45.03	35.17	24.28	40.43	39.38	24.96
4:05	38.42	30.56	26.15	41.94	40.28	22.76	47.69	41.35	26.41	45.73	43.65	24.15	45.02	35.22	24.29	40.43	39.43	24.97
4:06	38.41	30.59	26.17	41.95	40.32	22.78	47.75	41.40	26.43	45.73	43.69	24.14	45.00	35.27	24.29	40.42	39.47	24.98
4:07	38.41	30.63	26.18	41.94	40.36	22.78	47.79	41.45	26.44	45.71	43.73	24.14	44.97	35.31	24.30	40.44	39.52	24.98
4:08	38.36	30.67	26.19	41.97	40.41	22.80	47.85	41.50	26.45	45.70	43.78	24.13	45.01	35.36	24.30	40.49	39.56	24.99
4:09	38.38	30.71	26.20	41.99	40.45	22.81	47.84	41.55	26.47	45.74	43.82	24.14	45.04	35.41	24.31	40.53	39.60	24.99
4:10	38.42	30.75	26.20	42.04	40.49	22.82	47.84	41.61	26.49	45.75	43.86	24.15	45.09	35.45	24.31	40.56	39.65	25.00
4:11	38.43	30.79	26.22	42.07	40.53	22.83	47.84	41.65	26.50	45.73	43.90	24.16	45.09	35.50	24.32	40.58	39.69	25.01
4:12	38.45	30.83	26.23	42.13	40.57	22.84	47.86	41.71	26.53	45.70	43.94	24.17	45.07	35.54	24.32	40.59	39.73	25.02
4:13	38.48	30.86	26.24	42.13	40.61	22.85	47.91	41.75	26.55	45.73	43.98	24.19	45.09	35.59	24.33	40.65	39.78	25.02
4:14	38.54	30.89	26.24	42.19	40.66	22.87	47.92	41.81	26.57	45.75	44.03	24.19	45.12	35.63	24.34	40.71	39.82	25.03
4:15	38.56	30.94	26.26	42.27	40.70	22.87	47.96	41.85	26.59	45.80	44.07	24.20	45.13	35.68	24.34	40.73	39.86	25.04
4:16	38.55	30.97	26.26	42.31	40.74	22.89	47.98	41.91	26.60	45.86	44.11	24.20	45.16	35.72	24.35	40.74	39.91	25.05
4:17	38.58	31.01	26.26	42.27	40.78	22.90	48.00	41.96	26.62	45.85	44.15	24.21	45.16	35.77	24.36	40.77	39.95	25.05
4:18	38.60	31.05	26.27	42.26	40.83	22.93	48.04	42.01	26.64	45.84	44.19	24.21	45.18	35.81	24.36	40.76	39.99	25.06
4:19	38.65	31.08	26.29	42.29	40.86	22.89	48.10	42.06	26.64	45.87	44.23	24.21	45.22	35.85	24.37	40.80	40.03	25.07
4:20	38.60	31.11	26.27	42.28	40.91	22.85	48.11	42.11	26.66	45.94	44.27	24.22	45.26	35.90	24.37	40.82	40.07	25.07
4:21	38.62	31.15	26.28	42.28	40.94	22.85	48.13	42.16	26.67	45.99	44.30	24.23	45.26	35.94	24.38	40.83	40.11	25.08
4:22	38.59	31.18	26.28	42.24	40.98	22.85	48.13	42.20	26.69	45.97	44.34	24.23	45.32	35.98	24.38	40.84	40.15	25.09
4:23	38.63	31.23	26.28	42.25	41.02	22.87	48.17	42.25	26.70	45.99	44.38	24.24	45.31	36.03	24.38	40.82	40.19	25.09
4:24	38.68	31.27	26.29	42.24	41.06	22.88	48.18	42.30	26.71	46.07	44.42	24.22	45.31	36.07	24.38	40.83	40.23	25.10
4:25	38.70	31.30	26.29	42.26	41.10	22.88	48.22	42.34	26.72	46.12	44.46	24.25	45.28	36.11	24.39	40.88	40.27	25.10
4:26	38.69	31.33	26.28	42.29	41.14	22.90	48.24	42.39	26.74	46.18	44.50	24.26	45.25	36.16	24.40	40.92	40.31	25.11
4:27	38.74	31.37	26.30	42.35	41.18	22.92	48.28	42.43	26.75	46.23	44.53	24.25	45.28	36.20	24.40	40.95	40.35	25.12
4:28	38.75	31.41	26.31	42.43	41.21	22.94	48.35	42.48	26.76	46.29	44.57	24.26	45.32	36.24	24.40	40.96	40.39	25.12
4:29	38.74	31.44	26.32	42.44	41.25	22.96	48.36	42.53	26.77	46.23	44.61	24.25	45.38	36.28	24.40	40.95	40.43	25.13
4:30	38.79	31.47	26.33	42.48	41.29	22.97	48.37	42.58	26.78	46.17	44.65	24.25	45.42	36.33	24.41	40.96	40.47	25.14
4:31	38.89	31.51	26.35	42.49	41.33	22.99	48.39	42.63	26.80	46.22	44.69	24.24	45.44	36.37	24.41	41.00	40.51	25.15
4:32	38.97	31.54	26.36	42.48	41.36	23.00	48.38	42.67	26.83	46.26	44.73	24.24	45.50	36.41	24.41	41.02	40.55	25.16
4:33	38.99	31.58	26.35	42.55	41.40	23.02	48.40	42.72	26.84	46.31	44.76	24.25	45.48	36.45	24.41	41.03	40.59	25.17
4:34	39.00	31.61	26.36	42.56	41.44	23.02	48.39	42.77	26.85	46.35	44.80	24.26						

4:39	38.98	31.79	26.37	42.72	41.62	23.07	48.56	43.00	26.91	46.34	44.99	24.28	45.58	36.70	24.45	41.12	40.82	25.20
4:40	38.99	31.82	26.37	42.74	41.66	23.09	48.58	43.05	26.92	46.34	45.02	24.28	45.62	36.74	24.45	41.16	40.86	25.20
4:41	39.05	31.85	26.39	42.75	41.70	23.09	48.60	43.10	26.94	46.38	45.06	24.29	45.63	36.78	24.46	41.17	40.90	25.21
4:42	39.07	31.89	26.38	42.76	41.73	23.10	48.66	43.14	26.95	46.39	45.10	24.30	45.67	36.82	24.46	41.20	40.93	25.21
4:43	39.12	31.92	26.40	42.80	41.76	23.11	48.71	43.19	26.97	46.36	45.13	24.31	45.69	36.86	24.45	41.22	40.97	25.21
4:44	39.15	31.95	26.41	42.84	41.80	23.08	48.77	43.24	26.97	46.38	45.17	24.32	45.68	36.90	24.46	41.26	41.01	25.22
4:45	39.14	31.99	26.40	42.88	41.84	23.04	48.81	43.28	26.99	46.38	45.20	24.33	45.67	36.94	24.46	41.28	41.04	25.22
4:46	39.23	32.03	26.42	42.92	41.88	23.02	48.84	43.33	27.01	46.39	45.24	24.34	45.63	36.98	24.46	41.25	41.08	25.23
4:47	39.27	32.06	26.43	42.95	41.91	23.02	48.88	43.38	27.01	46.35	45.28	24.34	45.56	37.02	24.46	41.27	41.12	25.23
4:48	39.22	32.09	26.44	43.00	41.95	23.02	48.92	43.43	27.02	46.38	45.31	24.34	45.52	37.06	24.45	41.29	41.15	25.23
4:49	39.22	32.11	26.43	43.01	41.99	23.03	48.94	43.48	27.02	46.36	45.35	24.35	45.50	37.10	24.45	41.31	41.19	25.24
4:50	39.28	32.15	26.44	43.01	42.01	23.04	48.95	43.51	27.03	46.37	45.39	24.36	45.53	37.13	24.43	41.28	41.22	25.24
4:51	39.36	32.18	26.46	43.00	42.06	23.05	48.98	43.56	27.04	46.32	45.42	24.35	45.57	37.17	24.43	41.26	41.26	25.25
4:52	39.37	32.22	26.46	43.00	42.09	23.06	49.00	43.61	27.04	46.34	45.46	24.36	45.56	37.21	24.43	41.27	41.29	25.25
4:53	39.41	32.25	26.47	43.00	42.12	23.06	49.01	43.65	27.06	46.39	45.49	24.36	45.59	37.25	24.42	41.26	41.32	25.26
4:54	39.40	32.28	26.48	43.02	42.16	23.06	49.08	43.69	27.06	46.42	45.53	24.37	45.61	37.29	24.42	41.25	41.36	25.26
4:55	39.41	32.31	26.49	43.07	42.19	23.07	49.12	43.74	27.06	46.45	45.56	24.37	45.64	37.33	24.41	41.25	41.39	25.27
4:56	39.45	32.34	26.50	43.10	42.23	23.08	49.14	43.79	27.07	46.44	45.60	24.38	45.66	37.36	24.41	41.25	41.42	25.28
4:57	39.43	32.37	26.50	43.12	42.26	23.08	49.14	43.83	27.08	46.49	45.63	24.38	45.72	37.40	24.41	41.30	41.46	25.28
4:58	39.46	32.40	26.47	43.12	42.29	23.09	49.15	43.87	27.09	46.48	45.67	24.39	45.69	37.44	24.42	41.35	41.49	25.29
4:59	39.50	32.44	26.47	43.12	42.33	23.09	49.18	43.92	27.10	46.45	45.70	24.40	45.68	37.48	24.42	41.33	41.52	25.29
5:00	39.52	32.47	26.47	43.10	42.36	23.10	49.22	43.96	27.11	46.45	45.73	24.41	45.71	37.51	24.41	41.33	41.56	25.29
5:01	38.93	32.50	26.44	42.21	42.40	23.08	47.98	44.01	27.11	45.66	45.77	24.40	44.81	37.55	24.40	40.59	41.59	25.29
5:02	36.53	32.53	26.19	39.11	42.43	22.99	44.39	44.03	27.02	41.93	45.80	24.37	41.52	37.59	24.35	37.61	41.56	25.24
5:03	34.24	32.56	25.70	36.16	42.45	22.89	41.52	43.96	26.84	38.36	45.82	24.84	38.42	37.63	24.40	34.86	41.40	25.18
5:04	32.24	32.60	25.56	33.75	42.44	22.86	39.46	43.80	26.60	35.69	45.79	25.58	36.07	37.66	24.52	33.04	41.11	25.10
5:05	30.68	32.63	25.63	31.92	42.36	23.05	37.95	43.56	26.38	33.73	45.66	26.11	34.16	37.70	24.66	31.70	40.77	24.92
5:06	29.46	32.69	25.61	30.59	42.21	23.20	36.80	43.28	26.06	32.09	45.43	26.40	32.79	37.74	24.87	30.65	40.39	24.68
5:07	28.39	32.78	25.56	29.66	42.00	23.32	35.93	42.97	25.76	30.80	45.13	26.50	31.79	37.78	25.06	29.97	40.01	24.48
5:08	27.55	32.95	25.47	28.90	41.75	23.46	35.21	42.64	25.48	29.68	44.76	26.69	30.91	37.82	25.21	29.38	39.63	24.32
5:09	26.91	33.15	25.45	28.20	41.44	23.54	34.67	42.31	25.26	28.78	44.35	26.87	30.22	37.87	25.29	28.92	39.27	24.20
5:10	26.34	33.34	25.45	27.73	41.13	23.57	34.21	41.99	25.04	28.16	43.90	26.95	29.57	37.94	25.34	28.64	38.92	24.10
5:11	25.88	33.54	25.47	27.35	40.77	23.64	33.76	41.67	24.86	27.61	43.43	27.00	28.96	38.02	25.34	28.33	38.58	24.03
5:12	25.48	33.73	25.49	27.09	40.41	23.68	33.31	41.36	24.70	27.13	42.95	27.01	28.59	38.11	25.33	28.10	38.21	23.97
5:13	25.10	33.91	25.46	26.82	40.05	23.72	32.98	41.06	24.55	26.78	42.47	26.95	28.12	38.21	25.29	27.92	37.92	23.92
5:14	24.80	34.07	25.40	26.48	39.69	23.74	32.74	40.77	24.39	26.52	41.99	26.88	27.78	38.30	25.23	27.80	37.58	23.87
5:15	24.59	34.22	25.32	26.13	39.33	23.78	32.44	40.48	24.24	26.24	41.51	26.86	27.55	38.38	25.20	27.66	37.29	23.82
5:16	24.44	34.34	25.26	25.95	38.99	23.79	32.18	40.22	24.09	26.01	41.04	26.93	27.40	38.45	25.20	27.54	36.55	23.76
5:17	24.27	34.47	25.19	25.86	38.64	23.82	31.93	39.96	23.91	25.77	40.58	26.98	27.32	38.51	25.19	27.45	36.29	23.71
5:18	24.14	34.59	25.16	25.81	38.30	23.84	31.73	39.71	23.76	25.48	40.13	27.00	27.03	38.55	25.18	27.33	35.54	23.66
5:19	24.04	34.69	25.06	25.72	37.98	23.86	31.61	39.47	23.61	25.15	39.69	26.95	26.73	38.58	25.17	27.14	35.26	23.61
5:20	23.93	34.80	25.09	25.62	37.66	23.87	31.47	39.24	23.49	24.93	39.26	26.92	26.41	38.60	25.17	26.97	35.03	23.55
5:21	23.84	34.89	25.10	25.55	37.35	23.87	31.26	39.02	23.38	24.77	38.83	26.86	26.26	38.60	25.15	26.85	34.82	23.51
5:22	23.80	34.96	25.06	25.52	37.05	23.87	31.13	38.81	23.28	24.69	38.42	26.80	26.13	38.59	25.13	26.78	34.63	23.46
5:23	23.79	35.00	24.96	25.41	36.77	23.85	31.07	38.60	23.19	24.56	38.02	26.74	25.97	38.58	25.13	26.75	34.38	23.41
5:24	23.77	35.03	24.98	25.38	36.48	23.86	30.94	38.40	23.10	24.45	37.64	26.75	25.80	38.55	25.12	26.69	34.15	23.36
5:25	23.74	35.06	24.92	25.31	36.21	23.88	30.77	38.22	23.04	24.30	37.26	26.78	25.59	38.51	25.10	26.62	34.00	23.28
5:26	23.68	35.08	24.94	25.25	35.95	23.88	30.64	38.03	22.98	24.23	36.89	26.79	25.45	38.46	25.08	26.53	33.78	23.21
5:27	23.62	35.09	24.99	25.21	35.69	23.89	30.54	37.85	22.91	24.17	36.54	26.79	25.38	38.40	25.07	26.41	33.65	23.15
5:28	23.62	35.09	25.05	25.16	35.46	23.90	30.45	37.67	22.83	24.04	36.19	26.71	25.30	38.33	25.10	26.39	33.49	23.10
5:29	23.60	35.08	25.03	25.15	35.22	23.89	30.35	37.50	22.76	23.95	35.86	26.70	25.24	38.26	25.11	26.35	33.31	23.06
5:30	23.59	35.07	25.00	25.12	34.97	23.90	30.25	37.33	22.68	23.97	35.53	26.78	25.19	38.18	25.12	26.33	33.22	23.02
5:31	23.62	35.04	24.99	25.06	34.76	23.90	30.22	37.17	22.61	23.90	35.21	26.83	25.19	38.09	25.12	26.30	33.02	23.00
5:32	23.67	35.01	24.96	25.06	34.55	23.94	30.21	37.01	22.55	23.82	34.90	26.83	25.08	38.00	25.12	26.28	32.91	22.98
5:33	23.67	34.97	24.92	24.99	34.33	23.93	30.07	36.86	22.49	23.78	34.61	26.85	25.02	37.91	25.13	26.19	32.74	22.96
5:34	23.64	34.92	24.93	24.96	34.12	23.93	29.91	36.71	22.44	23.72	34.32	26.91	24.93	37.80	25.13	26.14	32.59	22.94
5:35	23.62	34.86	24.91	24.91	33.92	23.94	29.83	36.57	22.39	23.76	34.04	26.92	24.97	37.70	25.10	26.14	32.44	22.94
5:36	23.62	34.79	24.92	24.82	33.72	23.94	29.79	36.43	22.34	23.77	33.76	26.94	24.95	37.59	25.09	26.17	32.31	22.94
5:37	23.61	34.72	24.95	24.76	33.52	23.94	29.67	36.28	22.31	23.78	33.50	26.99	24.92	37.47	25.06	26.18	32.22	22.94
5:38	23.61	34.63	24.95	24.70	33.32	23.94	29.62	36.14	22.29	23.74	33.24	26.95	24.90	37.36	25.07	26.12	32.06	22.95
5:39	23.61	34.54	24.90	24.71	33.14	23.95	29.53	36.01	22.26	23.67	32.99	26.98	24.80	37.24	25.08	26.06	31.96	22.96
5:40	23.58	34.46	24.94	24.70	32.96	23.95	29.44	35.87	22.24	23.62	32.75	26.97	24.70	37.12	25.08	26.02	31.83	22.94
5:41	23.55	34.36	24.94	24.66	32.78	23.97	29.30	35.73	22.21	23.60	32.51	26.98	24.59	37.00	25.08	26.00	31.71	22.93
5:42	23.49	34.26	24.97	24.61	32.61	23.98	29.23	35.61	22.19	23.59	32.29	26.96						

5:47	23.26	33.72	25.00	24.32	31.80	24.07	28.91	34.98	22.12	23.35	31.23	26.90	24.33	36.25	25.14	25.62	31.01	22.93
5:48	23.24	33.61	25.00	24.27	31.64	24.07	28.88	34.85	22.12	23.33	31.04	26.92	24.24	36.12	25.15	25.56	30.92	22.92
5:49	23.22	33.49	24.97	24.24	31.50	24.06	28.77	34.73	22.11	23.29	30.85	26.97	24.16	36.00	25.15	25.48	30.81	22.90
5:50	23.18	33.37	24.97	24.19	31.34	24.07	28.72	34.62	22.10	23.28	30.67	26.96	24.20	35.87	25.15	25.47	30.72	22.89
5:51	23.12	33.25	24.93	24.17	31.19	24.08	28.68	34.50	22.10	23.25	30.49	26.92	24.26	35.74	25.16	25.43	30.65	22.87
5:52	23.11	33.13	24.93	24.10	31.05	24.10	28.62	34.39	22.09	23.18	30.31	26.86	24.13	35.61	25.15	25.34	30.44	22.86
5:53	23.06	33.01	24.88	24.07	30.91	24.11	28.55	34.28	22.07	23.16	30.14	26.86	24.04	35.49	25.16	25.28	30.33	22.84
5:54	23.05	32.89	24.92	24.03	30.76	24.11	28.48	34.16	22.07	23.16	29.97	26.83	23.95	35.36	25.16	25.27	30.24	22.82
5:55	23.05	32.77	24.92	24.03	30.63	24.11	28.39	34.06	22.06	23.10	29.81	26.80	23.88	35.23	25.17	25.22	30.10	22.80
5:56	23.09	32.65	24.95	24.00	30.49	24.09	28.34	33.94	22.03	23.06	29.65	26.74	23.82	35.11	25.16	25.23	29.99	22.78
5:57	23.08	32.53	24.96	23.94	30.36	24.10	28.27	33.83	22.01	22.99	29.49	26.71	23.72	34.98	25.15	25.14	29.91	22.76
5:58	23.03	32.40	24.91	23.91	30.22	24.11	28.19	33.73	22.00	22.98	29.34	26.72	23.73	34.85	25.14	25.08	29.80	22.75
5:59	23.00	32.28	24.86	23.84	30.10	24.11	28.14	33.62	21.99	22.97	29.19	26.70	23.76	34.73	25.18	25.08	29.68	22.75
6:00	22.97	32.15	24.81	23.81	29.98	24.11	28.07	33.51	21.97	22.93	29.05	26.65	23.73	34.60	25.18	25.08	29.67	22.74
6:01	22.92	32.04	24.91	23.81	29.85	24.09	27.96	33.41	21.95	22.87	28.91	26.66	23.71	34.48	25.17	25.09	29.49	22.74
6:02	22.85	31.93	25.24	23.73	29.74	24.09	27.94	33.31	21.91	22.80	28.78	26.92	23.77	34.36	25.23	25.19	29.42	22.73
6:03	22.79	31.84	25.33	23.72	29.65	24.01	28.05	33.22	21.90	22.76	28.66	26.99	23.80	34.24	25.31	25.33	29.36	22.72
6:04	22.75	31.76	25.25	23.82	29.57	23.81	28.18	33.14	21.87	22.74	28.56	26.87	23.84	34.13	25.31	25.42	29.30	22.70
6:05	22.71	31.69	25.05	23.92	29.50	23.62	28.33	33.06	21.84	22.71	28.47	26.64	23.87	34.03	25.23	25.48	29.24	22.69
6:06	22.71	31.63	24.81	24.02	29.43	23.41	28.42	32.99	21.82	22.71	28.39	26.34	23.96	33.94	25.08	25.59	29.19	22.67
6:07	22.70	31.55	24.58	24.10	29.36	23.19	28.53	32.93	21.79	22.74	28.32	26.00	24.01	33.84	24.91	25.68	29.14	22.65
6:08	22.68	31.49	24.33	24.17	29.30	22.96	28.62	32.86	21.75	22.77	28.27	25.66	24.11	33.76	24.72	25.78	29.09	22.63
6:09	22.68	31.42	24.14	24.21	29.25	22.78	28.69	32.80	21.72	22.82	28.21	25.34	24.21	33.67	24.54	25.91	29.03	22.61
6:10	22.69	31.35	23.93	24.25	29.18	22.59	28.68	32.74	21.69	22.86	28.16	25.05	24.22	33.59	24.35	25.94	28.99	22.59
6:11	22.69	31.29	23.75	24.31	29.13	22.42	28.70	32.67	21.67	22.88	28.12	24.77	24.24	33.51	24.16	25.96	28.93	22.57
6:12	22.68	31.23	23.57	24.32	29.08	22.24	28.73	32.62	21.65	22.89	28.08	24.51	24.26	33.43	23.97	26.03	28.88	22.55
6:13	22.68	31.16	23.40	24.33	29.02	22.06	28.75	32.55	21.60	22.91	28.04	24.26	24.33	33.35	23.79	26.06	28.83	22.53
6:14	22.69	31.11	23.22	24.39	28.97	21.90	28.76	32.49	21.58	22.96	28.00	24.02	24.40	33.27	23.61	26.10	28.78	22.50
6:15	22.67	31.04	23.07	24.41	28.92	21.74	28.75	32.42	21.55	22.97	27.96	23.79	24.41	33.20	23.45	26.13	28.73	22.48
6:16	22.68	30.98	22.94	24.48	28.88	21.59	28.76	32.36	21.52	22.97	27.93	23.56	24.39	33.13	23.30	26.14	28.68	22.46
6:17	22.69	30.93	22.81	24.49	28.82	21.46	28.73	32.30	21.50	23.00	27.89	23.36	24.40	33.06	23.15	26.14	28.63	22.44
6:18	22.67	30.87	22.69	24.48	28.78	21.32	28.73	32.23	21.47	22.99	27.86	23.18	24.40	32.98	23.01	26.15	28.58	22.42
6:19	22.66	30.81	22.59	24.47	28.73	21.21	28.70	32.17	21.45	23.01	27.83	23.01	24.43	32.92	22.88	26.15	28.53	22.40
6:20	22.67	30.76	22.47	24.46	28.68	21.10	28.67	32.11	21.43	23.01	27.79	22.86	24.46	32.85	22.75	26.15	28.47	22.38
6:21	22.68	30.71	22.37	24.46	28.63	21.00	28.64	32.05	21.40	23.03	27.76	22.73	24.47	32.78	22.63	26.14	28.42	22.37
6:22	22.68	30.65	22.29	24.46	28.58	20.91	28.60	31.98	21.37	23.05	27.73	22.61	24.48	32.71	22.51	26.11	28.37	22.35
6:23	22.68	30.60	22.19	24.46	28.54	20.82	28.56	31.92	21.35	23.05	27.70	22.50	24.45	32.65	22.40	26.09	28.32	22.33
6:24	22.70	30.55	22.10	24.40	28.49	20.76	28.50	31.86	21.33	23.09	27.67	22.41	24.42	32.59	22.30	26.03	28.26	22.31
6:25	22.71	30.50	22.03	24.38	28.45	20.69	28.46	31.79	21.32	23.11	27.64	22.32	24.40	32.52	22.21	25.99	28.21	22.29
6:26	22.72	30.45	21.95	24.34	28.39	20.63	28.43	31.73	21.30	23.11	27.61	22.24	24.42	32.46	22.12	25.99	28.15	22.28
6:27	22.72	30.40	21.88	24.34	28.35	20.57	28.38	31.66	21.29	23.11	27.58	22.16	24.47	32.40	22.03	25.97	28.09	22.26
6:28	22.72	30.35	21.79	24.35	28.30	20.52	28.32	31.61	21.26	23.09	27.56	22.09	24.52	32.34	21.95	25.96	28.04	22.25
6:29	22.74	30.30	21.73	24.36	28.26	20.47	28.28	31.55	21.24	23.08	27.53	22.02	24.51	32.28	21.86	25.95	27.98	22.23
6:30	22.75	30.25	21.67	24.34	28.22	20.43	28.20	31.48	21.22	23.06	27.50	21.95	24.46	32.22	21.79	25.89	27.93	22.22
6:31	22.73	30.21	21.61	24.30	28.17	20.39	28.10	31.42	21.19	23.06	27.48	21.89	24.46	32.16	21.72	25.81	27.88	22.20
6:32	22.72	30.16	21.55	24.30	28.13	20.36	28.01	31.36	21.18	23.06	27.45	21.84	24.47	32.11	21.66	25.80	27.82	22.19
6:33	22.73	30.12	21.48	24.27	28.08	20.33	27.89	31.30	21.17	23.05	27.42	21.80	24.48	32.05	21.60	25.74	27.77	22.17
6:34	22.75	30.07	21.42	24.26	28.04	20.29	27.75	31.24	21.17	23.03	27.39	21.75	24.44	32.00	21.55	25.68	27.71	22.16
6:35	22.76	30.03	21.37	24.25	27.99	20.27	27.69	31.18	21.16	23.04	27.37	21.70	24.45	31.94	21.49	25.66	27.66	22.15
6:36	22.77	29.99	21.32	24.24	27.96	20.24	27.64	31.11	21.14	23.05	27.34	21.66	24.48	31.89	21.44	25.65	27.60	22.13
6:37	22.76	29.94	21.29	24.25	27.91	20.22	27.55	31.05	21.13	23.04	27.31	21.63	24.48	31.83	21.40	25.62	27.55	22.12
6:38	22.75	29.90	21.23	24.25	27.87	20.19	27.48	31.00	21.11	23.04	27.29	21.59	24.47	31.78	21.36	25.54	27.50	22.10
6:39	22.77	29.85	21.19	24.23	27.83	20.18	27.41	30.94	21.10	23.06	27.26	21.56	24.47	31.73	21.31	25.47	27.45	22.09
6:40	22.78	29.81	21.14	24.18	27.79	20.15	27.35	30.88	21.10	23.07	27.24	21.52	24.48	31.68	21.26	25.42	27.40	22.07
6:41	22.81	29.77	21.10	24.17	27.74	20.13	27.32	30.83	21.07	23.07	27.21	21.48	24.47	31.62	21.22	25.39	27.34	22.06
6:42	22.81	29.73	21.07	24.15	27.71	20.13	27.27	30.77	21.07	23.06	27.19	21.45	24.44	31.57	21.18	25.35	27.29	22.05
6:43	22.81	29.69	21.02	24.15	27.66	20.11	27.22	30.71	21.06	23.06	27.17	21.42	24.41	31.52	21.14	25.29	27.24	22.03
6:44	22.80	29.65	20.98	24.16	27.62	20.07	27.18	30.66	21.04	23.05	27.14	21.39	24.43	31.47	21.11	25.25	27.19	22.02
6:45	22.81	29.61	20.94	24.18	27.59	20.07	27.14	30.59	21.02	23.04	27.12	21.36	24.45	31.43	21.07	25.23	27.14	22.01
6:46	22.82	29.57	20.90	24.16	27.54	20.04	27.10	30.54	21.00	23.02	27.10	21.33	24.41	31.38	21.03	25.20	27.10	22.00
6:47	22.81	29.53	20.87	24.13	27.50	20.03	27.06	30.48	21.00	23.01	27.07	21.31	24.39	31.33	21.00	25.16	27.05	21.98
6:48	22.81	29.49	20.84	24.11	27.46	20.03	27.00	30.43	20.98	23.00	27.05	21.28	24.35	31.28	20.98	25.13	27.00	21.97
6:49	22.79	29.45	20.80	24.08	27.43	20.01	26.95	30.37	20.98	23.00	27.02	21.26	24.31	31.23	20.95	25.07	26.95	21.96
6:50	22.78	29.41	20.77	24.09	27.39	20.00	26.90	30.32	20.96	23.00	27.00	21.23						

6:55	22.77	29.22	20.62	23.96	27.21	19.95	26.66	30.05	20.89	23.01	26.89	21.12	24.17	30.96	20.80	24.91	26.65	21.89
6:56	22.77	29.18	20.61	23.94	27.17	19.95	26.61	29.99	20.88	22.99	26.86	21.10	24.16	30.92	20.78	24.90	26.60	21.88
6:57	22.77	29.15	20.59	23.94	27.13	19.94	26.58	29.94	20.87	22.97	26.84	21.08	24.15	30.87	20.76	24.86	26.55	21.86
6:58	22.76	29.12	20.56	23.92	27.09	19.92	26.54	29.89	20.86	22.95	26.82	21.06	24.14	30.83	20.73	24.85	26.51	21.85
6:59	22.75	29.07	20.53	23.87	27.05	19.93	26.49	29.84	20.84	22.94	26.80	21.04	24.14	30.78	20.70	24.81	26.46	21.84
7:00	22.74	29.04	20.51	23.86	27.02	19.93	26.44	29.78	20.84	22.92	26.77	21.03	24.13	30.74	20.68	24.78	26.42	21.83
7:01	22.72	29.00	20.49	23.85	26.99	19.91	26.41	29.73	20.83	22.90	26.75	21.01	24.09	30.70	20.66	24.74	26.37	21.82
7:02	22.72	28.97	20.46	23.82	26.95	19.89	26.35	29.68	20.81	22.89	26.73	21.00	24.07	30.66	20.64	24.70	26.32	21.81
7:03	22.71	28.93	20.45	23.77	26.92	19.90	26.32	29.63	20.81	22.88	26.71	20.98	24.07	30.61	20.62	24.67	26.28	21.80
7:04	22.70	28.89	20.42	23.74	26.88	19.89	26.26	29.58	20.80	22.87	26.68	20.96	24.06	30.57	20.60	24.66	26.23	21.79
7:05	22.68	28.86	20.40	23.71	26.85	19.88	26.24	29.53	20.78	22.87	26.66	20.94	24.06	30.53	20.58	24.66	26.19	21.78
7:06	22.67	28.82	20.38	23.68	26.80	19.89	26.19	29.48	20.77	22.86	26.64	20.93	24.01	30.49	20.56	24.62	26.14	21.77
7:07	22.67	28.78	20.35	23.69	26.77	19.86	26.18	29.44	20.76	22.87	26.62	20.91	23.99	30.45	20.55	24.60	26.10	21.76
7:08	22.69	28.75	20.33	23.69	26.74	19.85	26.18	29.38	20.74	22.88	26.59	20.88	24.01	30.41	20.53	24.60	26.05	21.74
7:09	22.68	28.72	20.31	23.69	26.71	19.86	26.15	29.34	20.74	22.87	26.57	20.87	23.97	30.37	20.51	24.57	26.01	21.73
7:10	22.68	28.68	20.30	23.67	26.67	19.88	26.10	29.28	20.72	22.86	26.55	20.85	23.93	30.32	20.50	24.51	25.97	21.71
7:11	22.68	28.65	20.29	23.66	26.63	19.86	26.07	29.24	20.71	22.85	26.53	20.84	23.92	30.28	20.51	24.47	25.92	21.70
7:12	22.66	28.61	20.28	23.65	26.61	19.83	26.03	29.19	20.70	22.83	26.51	20.83	23.93	30.24	20.49	24.42	25.88	21.69
7:13	22.65	28.59	20.26	23.61	26.57	19.85	25.97	29.15	20.69	22.80	26.48	20.81	23.92	30.20	20.48	24.36	25.83	21.68
7:14	22.66	28.55	20.25	23.57	26.53	19.84	25.94	29.10	20.69	22.81	26.46	20.80	23.91	30.16	20.47	24.35	25.79	21.67
7:15	22.66	28.51	20.24	23.55	26.50	19.86	25.92	29.05	20.68	22.80	26.44	20.79	23.91	30.13	20.45	24.34	25.74	21.66