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Design, Fabricate and Performance Evaluation of Portable Incubator

by

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A REPORT

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DEPARTMENT OF MECHANICAL AND AEROSPACE ENGINEERING

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The undersigned certify that they have read, and recommend to the Institute of Engineering for acceptance, a thesis entitled "**Design, Fabricate and Performance Evaluation of Portable Incubator**" submitted by Bal Mukunda Kunwar in partial fulfillment of the requirements for the degree of Master in Renewable Energy Engineering.

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ABSTRACT

For rural water supply system, the microbiological parameter such as Escherichia coli needs to be monitored at least thrice a year. Lack of portable incubator is an obstacle for monitoring the water quality. The research focused on design, fabrication and performance evaluation of the portable incubator and performs validation of the setup. Experimental research methodology was performed for the research where data were collected from various devices of empty and loaded setup of two incubators using heating foil and 12V DC bulb as heating source, placed in an AVC-144 vaccine carrier box powered by solar PV setup or grid electricity. The weight of the portable incubator with full test plates is 3.0kg. The results shows that the inbuilt incubators performed satisfactorily consuming less 0.620A and 1.322 A, and 7.44 W and 15.864W of power for bulb and heating foil incubator, respectively. The heating core operated 16 times for heating foil-based and 14 times for bulb-based incubator to complete one cycle of incubation. The total operation hours for one cycle of 24 hours were 1.07 hours and 2.33 hours for heating foil-based incubator and bulb-based incubator respectively. The temperature inside the incubator casing remained uniform with significant reduction of heat loss.

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LIST OF ABBREVIATIONS

A	Ampere
CDP	Compact Dry Plates
CO_2	Carbon dioxide
DCS	Distribution & Consumer Service
E. coli	Escherichia coli
GoN	Government of Nepal
h	Hour
mm	Millimeter
NEA	Nepal Electricity Authority
PID	Proportional Integral Derivative
Pt100	Platinum (0°C - 100°C)
PV	Photovoltaic
SDG	Sustainable Development Goals
W	Watt
Wh	Watt-hour
WHO	World Health Organization
°C	Degree Celsius
µm	Micrometer

CHAPTER ONE: INTRODUCTION

1.1. Background

Inadequate and unsafe water, sanitation and hygiene present a risk for gastrointestinal illness, or diarrhea contributing 39% of the disease burden where approximately 4 billion cases of diarrhea occur globally every year which has resulted 1.5 million fatalities that are largely among children under the age of 5 which, consequently, requires water supply management that can improve drinking water quality and reduce diarrheal disease risk (Noor et al., 2013).

The Sustainable Development Goals six has targeted to achieve universal and equitable access to safe and affordable drinking water for all with improved water quality. However, providing safe water through piped system is challenging, as recent survey indicated that 82.2 percent households are using contaminated water with Escherichia coli (E. coli) (Kandel, 2017). To protect public health it has been observed that microbial drinking water quality testing is crucial (WHO, 1997); yet regular testing still is a challenge for limited resource areas. Professionals expressed hardship while selecting the appropriate test methods for the limited budget, application and context (Bain et al., 2012). Diarrhea causing microbes enter supply lines of water as a fecal pollution and lack of proper diagnostic methods for complete package of pathogens, viruses, bacteria, and protozoan parasites, thus water quality for microbial parameters is figured out by the status of the of fecal pollution, which is indicated by the presence of E. coli, the indicator organism, which is identified as a proxy for health risk (Noor et al., 2013).

Microbial parameter for the rural context water supply system such as E. coli needs to be monitored at least three times in a year (before monsoon, during monsoon and spring season), however for urban areas it is recommended to carry out these tests monthly (Ministry of Physical Planning and Works, 2005). Outreach of laboratory facilities and missing infrastructure are key factors of underutilization of water quality testing in remote areas. Contrary, national regulations often require laboratories to meet the procedures of operation which are standardized or international standards as a pre-condition for surveillance of

water quality. WHO's Guidelines for Drinking-water Quality (WHO, 1997) recommends one monthly sample for surveillance of various schemes which benefits 5000 people or less. Water samples needs to be collected in specified sterilized packets and processed in 2 hours or less of collection or for the delayed testing schedule, samples should be stored in a cooler and delivered at 4^0C and processed in duration of 6 hours or less (Ministry of Physical Planning and Works, 2005). The water quality testing facilities available in Nepal are limited where 7 regional water quality laboratories are operated by government including one central laboratory in Department of water supply and sewerage Management at Kathmandu. Also, few laboratories are operated by the private sector, but none of these laboratories are in rural areas and are unreachable for rural areas. The water quality tests are an eminent part of the implementer but the quantity of the test is not simply about the frequency, but bit broadly required during the operational monitoring, compliance monitoring, surveillance monitoring.

Water quality testing laboratories are established in most of the capital of provinces; however, functionality and update of water quality data at state and national palikas by coordinating their respective laboratories still needs up-gradation (Khatri, 2020). Therefore, suitable laboratory equipment including an incubator offering the benefits of laboratory based setups (easy to use, sufficient volume, and precise temperature) while remaining suitable for field applications (cheaper, easy movement and maintained, robustness to a range of ambient temperatures, low energy consumption, and protection to intermittent power supplies) (Schertenleib et al., 2019). On the other hand, in remote areas, electricity supply from off grid hydropower plants are limited and solar setup are used mostly for lighting. In the given circumstances, operating an incubator for 24 hours to culture bacteria is challenging and difficult.

The assessment of water quality in low- and middle-resource settings are limited by testing devices and materials required to carry out the diagnosis. To achieve the designated task, many full sets of equipment are required to achieve decentralized approach of testing. Lower cost alternatives could save the cost, human resources and fragility compared to standard equipment (Bain et al., 2012). The incubator setup thus can be stratified following parts: first – designing

and selecting the heating unit; second- selection of the control unit; third- connecting the electrical setup of incubator, and fourth- packaging of the entire materials in an incubator- a functional and flexible field incubator is possible as long as they fulfill the electrical requirements (Schertenleib et al., 2019a).

1.2. Problem Statement

Pathogens presence in water leads to water borne disease. Proper diagnosis of the water quality is essential for all drinking water supply schemes. Unprotected water source could contaminate the drinking water. Thus, timely monitoring and testing of microbial parameter of these sources is inevitable to prevent the occurrence of the diseases. Thus, proper methods to monitor and assess the quality of the water need to be adopted. But, required laboratory facilities are not available or accessible for the regular assessment of the microbial parameter in the water supply project, especially in the rural setting where there are several barriers to establish the water quality laboratories; main among these difficulties is unavailability of testing equipment's including an incubator. Details of the process to be followed for microbial water quality testing are presented in the following Figure 1-1.

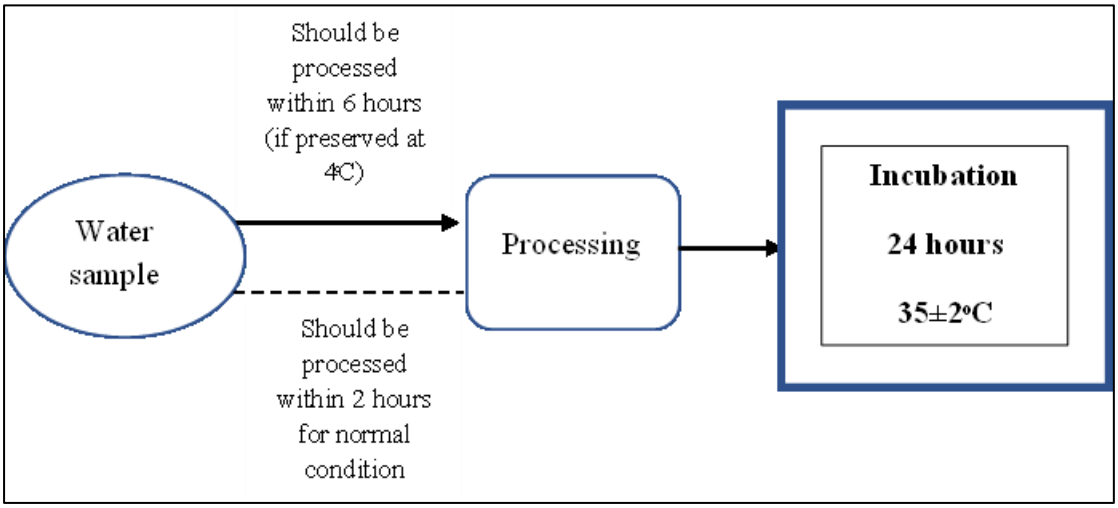

***Figure 1-1*: Flow chart for processing microbial of water sample**

(WHO, 1997)

It describes that water sample needs to be processed within allocated time, and right after the processing; these test samples need to be stored in an environment of 35±2ºC for 24 hours. Thus, portable incubators for the rural areas are needed to

test the Escherichia coli. In the present context, media plates are incubated by using body belt incubator or in a phase change incubator for twenty four hours (Kandel et al., 2017), and the performance evaluation of such portable incubators is essential to ensure reliable outcomes, so that, results for microbial water quality could be validated. This fabrication and performance evaluation of incubator used could address the limitation to carry out the microbial test at the rural areas and could provide opportunities to shape further research in water quality sector. Similarly, proper diagnosis of water quality could justify the proper water treatment methods at scheme or household level, reducing the health, economic, technical, and social burden.

1.3. Objective

1.3.1 Main Objective

The main objective of the study is to design, fabricate and carry out the performance evaluation of the portable incubator setup to conduct microbial water quality test.

1.3.2 Specific Objectives

The specific objectives of the study are.

- To design and fabricate portable incubator steadily maintaining a standard incubation temperature (35±2°C) for microbial water quality test.
- To conduct performance evaluation of power consumption and temperature variation in the incubator to ambient conditions.
- To validate the setup with available standard electric incubator for microbial growth in petri-dishes performed for water quality test.

1.4. Limitation

The study has a limitation of time frame and cost. The evaluation of the performance of the incubator was carried out during summer and monsoon period of year. The study focused only on steady state of heat flow. The study only focused on the fabrication and testing of the setup and had not undergone through any of the heat analysis.

CHAPTER TWO: LITERATURE REVIEW

2.1 Need and present scenario of Water Quality standards

Only twenty one percent of the population in Nepal has proper access to safe drinking water, although basic water supply coverage is eighty eight percent and there is lack of proper data management for important parameters of water quality (Shrestha et al., 2017). National Drinking Water Quality Standards (2005) have recommended monthly microbial test in the urban water supply system and three times (early monsoon, during monsoon and after monsoon) in a year for rural water supply system (Ministry of Physical Planning and Works, 2005). Monitoring frequency for other parameters could vary otherwise as mentioned in the standards; however, microbial parameter needs serious attention and seeks proper guideline and protocols before testing. The guidelines further suggests that for Microbiological testing it should be considered that the samples should be collected in specified sterilized bottles and processed within two hours of collection. Also, it is recommended that when the testing is carried out by Membrane Filter (MF) method, all collected samples should be processed and incubated sooner than two hours of collection and for the case of delayed- it is critical for all the testing samples should be stored and delivered at 4^0C and processed within 6 hours (Ministry of Physical Planning and Works, 2005).

Surveillance and monitoring of pathogen pollution in water and it's environment are crucial for human health for recreational activities, drinking, and sanitary activities; however, conducting these tests in remote locations poses many challenges (Forster, 2015). The author further elaborates that the microbial testing effectively requires a properly maintained and equipped laboratory and human resource with training where the timely delivery of water samples to these labs are crucial, so that microbial pollution in the water samples could not change maximum during the delivery process. Thus, the diagnosis of microbial pathogens can change extremely and irregularly for duration of time after collecting the samples which could lead to underestimation of pathogens and results could not be reliable and falsely reflect the righteous sampled location. The author further suggests that different regulatory bodies has indicated the need of microbial analysis and the processing within two to six hours of collection from remote locations, with the minimum retention time is extremely preferred. It has been broadly accepted that the testing for other common

indicator organisms whose samples are processed lately after collection has poorly represented pathogens during the period of collection and has prompted non-uniform and poor results which has led to poor and false conclusion. Evaluation of microbial water quality in areas that lack repeated and continuous sampling of water and long term monitoring is only a pictorial view of pathogens from that sample collection point for that given time and to reduce the short term degradation, thus the water samples should be collected, delivered and processed instantly (Wight et al., 2020).

Optimal culture growth is attained when the bacteria are held at a stable temperature of 35–37ºC, the temperature of the organism's native intestinal habitat, for 18–24 h in the presence of favorable growth media (J. Brown et.al, 2011). Incubators, used for cell and tissue cultivation in hospital and laboratory settings, grow and maintain cell and tissue samples under controlled conditions for hours, weeks, or even months. They create the ideal environment for cell and tissue sample growth by maintaining optimum levels for temperature, humidity, carbon dioxide, and oxygen (Thermal, 2019). However, from the study conducted by *J. Brown et.al, 2011* suggested that the reading plates at 48h often resulted in less easily countable plates because of luxuriant growth of colonies and condensate inside plates, even though all plates were inverted for incubation.

WHO 1997 configures that water-quality testing in communities may be subject to the following problems, especially when the communities or the sampling sites are remote or inaccessible. The document further identifies the following issues for the poor implementation of the water quality tests in the community.

- Deterioration of samples during transport to centralized laboratory facilities.
- High cost of transporting samples.
- Inadequate techniques for sample storage and preservation during pro-longed transport, thus limiting the sampling range.
- Increased personnel costs because of the need for repeat sampling journeys.
- The need for reporting, which may necessitate further return journeys.

Optimized laboratory for microbial water quality testing should be user friendly design, large capacity, robust to a wide range of ambient temperatures, maintains a

constant temperature, low cost, easily transported energy efficient and resilient to intermittent power supply (Schertenleib et al., 2019).

2.2 Incubation system

Optimal culture growth is attained when the bacteria are held at a stable temperature of 35–37ºC, the temperature of the organisms' native intestinal habitat, for 18–24 h in the presence of favorable growth media (Brown et al., 2011). Incubators, used for cell and tissue cultivation in hospital and laboratory settings, grow and maintain cell and tissue samples under controlled conditions for hours, weeks, or even months. They create the ideal environment for cell and tissue sample growth by maintaining optimum levels of temperature, humidity, carbon dioxide, and oxygen.

2.2.1 Incubator requirements

Control of temperature is essential in the incubators for proper cell culture to occur. The heat load requirements can range from 30 to more than 400 Watts based on chamber size. Accurate and precise control of temperature is especially important for cell growth.

2.2.2 Principle/ Working of Incubator

The key component of the incubator is Thermostat which maintains a constant temperature and is visible outside via digital. The temperature is maintained by heating and no-heating cycles. In heating cycle, thermostat heats the incubator and in no-heating cycle there is no heating. Losses of heat to the surrounding are prevented by the insulation in the external casing. As per requirement, parameters like humidity and airflow could be maintained to create natural environments of the organisms.

2.2.3 Assembled Incubator setup

Individual components of the heating unit included are; Support plate, axial fans, washers and screws(Schertenleib et al., 2019). Self adhesive heating foil or Peltier dishes or bulb in general could be attached to the support plates nearby to a fan to circulate air for proper heat transfer should is essential. On the other hand a control unit setup for temperature controller guided by thermal sensor could trigger heating cycle in proper time. The design of solar PV setup would be considered in such a way that the power supply to the system will operate for 2 cycles (i.e, of 48 hours or 2 days

of autonomy). The charging and discharging of battery will be controlled through charge controller. Therefore, an Incubator is thus assembled by combining heating coil unit at the lower part of the casing with a temperature sensor near to the test specimen region which is at the upper part separated by the metal net. Here in the Figure 2-1 shows the combination of the Solar PV setup and the incubator unit in a diagrammatic view of the system.

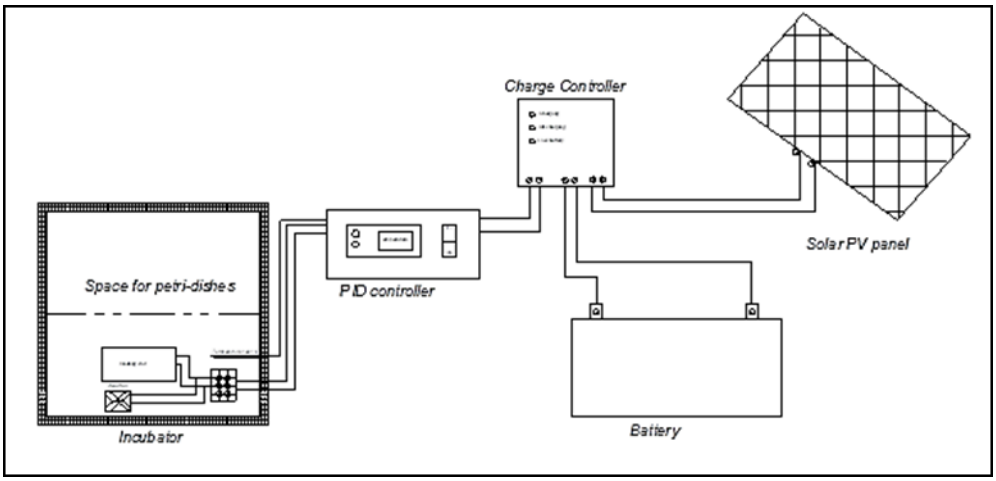

Figure 2-1: **Assembled Incubator setup**

(Sanchez et al.,2020;Schertenleib et al., 2019; Wight et al., 2020)

2.3 Recent developments in Portable Incubator

- **Aquagenx Portable Incubator**

  It is a standard soft-sided cooler which is modified with the addition of a small heater, fan and temperature feedback control that allows the incubator to maintain a constant above- ambient temperature. It consists of topmost zippered compartment which contains the connector for the three different power adapters as well as the controls for the heating element (Aquagenx, 2022). The limitation of the product is the limited sample size for testing and varying challenges with the heat loss.

- **DelAgua Water Test Kit (Single Incubator)**

  This lightweight, portable and easy to use kit has been designed to test water quality primarily for bacteriological contamination and to determine its safety for

human consumption (Delagua, 2021). This test kit can perform ranges of test and costs between 1500 – 1750 USD. However, in Nepal its market price ranges to Nrs. 335000.00.

- **Low-cost Mobile Incubator**

  This is a product developed by Aquatic research center (Eawag) in Switzerland. The purpose was to develop an adaptable, low- cost and transportable incubator that can be constructed using readily available components. For this incubator, an electronic core consisting of temperature controller, heating source and fan was developed and tested under a range of ambient temperature conditions (3.5 °C - 39 °C) using three types of incubator shells (Schertenleib et al., 2019). The author proposed that this incubator could be used both established laboratories with grid power or in remote settings powered by solar energy or a car battery. The limitation of this product is, it is not available commercially and it was just a protocol developed and tested in the laboratory, furthermore energy consumption, and heat transfer from the system with optimization of design is missing as suggested by the author.

- **Armadillo low cost battery operated**

  The custom-built incubator featured a double-chamber design composed of two snap-lid leak-proof food storage containers inside of a 16-quart insulated hard-shell cooler. IT is yet to be designed for 12V battery. The products were developed by humanitarian groups of workers in Canada to monitor the water quality of a lake powered by the electricity (Wight et al., 2020). Also, these incubators are not available commercially and have its limitation over the energy consumption and heat loss from the system.

Table 2-1: Summary of the existing portable incubator setups

S.No	Components	Standard Incubator	Aquagenx Portable Incubator	DelAgua Water Test Single Incubator	Low-cost Mobile Incubator	Armadillo low cost incubator
1	Incubator Casing	Interior: Stainless steel Exterior: Steel electrostatic spraying Insulation: High quality foam board Size:525x480x620mm	Standard soft-sided cooler	Robust box designed for including different test materials	-Polystyrene foam box of 78 liters -Hard plastic cool box of 30 liters -Cardboard box	2 snap lid leakage proof food storing utensils inside of a 16 quart polystyrene foam insulated hard shell cool box
2	Power Source	AC Power supply	3nos. 12V DC unit requires	12V battery contained inside	AC power supply	120V AC direct connection to electrical services
3	Heating	Mica Electrothermal film	Heating element in topmost compartment	Heater	2nos. of 10W heating foil 100 x 200mm12 V	Inoculated Petrifilms TM stacked on plywood
S.No	**Components**	**Standard Incubator**	**Aquagenx Portable**	**DelAgua Water Test**	**Low-cost Mobile**	**Armadillo low cost**

			Incubator	**Single Incubator**	**Incubator**	**incubator**
4	Temperature controller	PT100 sensor in PID intelligent	Genesis Electronic Thermostat	Not given	12V PID temperature controller	Riorand thermostat controller panel
5	Circulation of air	Natural convection	Na	Na	Na	Na
6	Placement of the electronic core	Separate chamber within the box	Heated from the top of the box	Within the portable box	Heating foils and fan at the center of same plate in certain height	Outer heating chamber

* na- No provisions/ Not applicable (Faithful, 2018; Aquagenx, 2022; Delagua, 2021; Schertenleib et al., 2019; Wight et al., 2020)

2.4 Incubator Validations

Validation of the incubator for various studies has been carried out through frequent testing and annual validation of the customized and fabricated incubators. Throughout measuring the temperature of the incubator, circulation of air within the incubating chamber, reducing the hot spots near to the heating core by maintaining even heating on entire walls and region of the inner incubation chamber were taken as key points for the validation of the incubator. Temperature fluctuation inside the cabinet should be minimal (less than 2ºC from the set point); also, recovery of the temperature inside the incubator should be short after being opened, especially during adding or removal of Petrifilms TM. The temperature should be uniform throughout the inner region of the incubator by circulation of the air (Wight et al., 2020).

2.5 Solar Energy for as a Power supply

The average global solar radiation in Nepal varies from 3.6-6.2 kWh/m^2day, sun shines for about 300 days a year, the number of sunshine hours amounts almost 2100 hours per year and average insolation intensity about 4.7 kWhm^{-2} day^{-1}(=16.92 MJ/m^2day) (Adhikari et al., 2011). The author further manifested that Jumla of the Karnali province is the location where the maximum global solar energy was observed. Also, the author concluded that Nepal as a high insolation country, having high solar energy potential thus, solar farming needs to be strongly recommended to resolve the environmental, economic, and energy issues.

One of the problems in developing solar energy harvesting systems is that sunlight is not static but changes dynamically. One of the studies has used solar thermal setup to incubate birds eggs for the hatching purpose- which used solar collector and heated water supplied for incubating chamber for the fowl hatching process, also the setup stored heat for the period of autonomy days (Kuye, 2010). Another dynamic method is by converting to electrical voltage and current by energy harvesting such as PV module (Altas et al., 2014). Similar setup using PV module was used for hatching eggs (Mansaray, 2015; Ganiyat et al., 2020). Thus, for the portable incubator with limited specimen, PV module setup which is an isolated source of power is reasonable and effective for the portable incubator to be carried out in the remote areas where the reliable power sources are issues.

2.6 Heating and cooling load of incubator

Calculating the energy load of the incubator follows normal principle of air conditioning load calculation. From the study carried out by Liu et al., 2015 they observed steady environment both inside and outside the incubator used for the hatchery where they have included average method to estimate the heating demand when eggs are put into the incubator from the low-temperature refrigeration storage.

The equation considered for calculating the heat generated can be simply formulated as shown below.

$$\boldsymbol{Qn = n\frac{Cm\,\Delta T}{T}} \qquad \textbf{Eqn. 1}$$

Where,

Q_n is the mean value of the eggs' heat absorption, n is the number of eggs
C is the specific heat capacity of eggs (ASHRAE 2014)
m is the weight of per egg
Δt is the change of temperature
T is the average time of heat absorption

Since the incubator operates under two different cycles; (1) Heating cycle and (2) Cooling or no-heating cycle, the heat transfer from the setup takes place (1) heat loss during heat generation and (2) heat loss during no heating, respectively. The heat transfer of the setup occurs via convection/radiation-heating core to inner wall, conduction – wall of the incubator casing and Convection- from the outer surface of the incubator box.

Overall, the heat dissemination in the setup of the incubator could be calculated by using the heat balance equation (McQuiston, 2004).

$$\boldsymbol{Qload = Qhu + Qia + Qpd - Q\,cond - Qconv} \qquad \textbf{Eqn. 2}$$

Here.

Q_{load} = Heat load of the incubator, W
Q_{hu} = Heat supplied by heating unit, W
Q_{ia} = Heat of air in inner chamber, W

Q_{pd} = Heat of the Petri-dishes, W

Q_{cond}= Heat loss by conduction through incubator walls

Q_{conv}= Heat loss through air convection

Thus, the heat loss from the setup could occur through various ways, as well as the heat absorbed by the test plates and wall needs to be preserved through proper insulation. Thus, the operation of the heating cycle could be lesser reducing the battery size.

2.7 Research Gap

Microbial test is one of the key tests to diagnose the microbial quality of water to inform the required treatment process to provide safe drinking water and avoid water-borne disease. However, need of water quality testing within 2 hours of collection in normal conditions require better access to the equipped water quality laboratory and a portable incubator could be one of the solutions. Also, available portable incubators are expensive and needs to be imported and have to follow its own standard operating procedures. On the other hand, most of the portable incubators are in the research phase or are limited to organization and are not easily available commercially. The cost of standard incubators on the other hand is comparatively high and is not easy for carrying and operating, especially in remote areas. The irregularity of power supply and outreached area from electricity also needs to be addressed from proper technology and equipment to conduct these tests. Thus, the research gaps identified for the study are.

- Need of portable incubator to incubate the water samples in rural areas
- Low-cost technology to purchase and simple operating procedure to operate by user's
- Easy to carry and transport in rural setting
- Constructed from local materials for easy production/manufacture, operation and replacement
- Could be operated from all sources of power supply

CHAPTER THREE: RESEARCH METHODOLOGY

This chapter includes the research methodologies adopted for the research. Flow chart of the research methodology followed by the description of the contents has been presented in this chapter.

3.1 Research Methodology

Research methodology will follow the given chart. With the finalization of the title, the research has further explored on the existing or completed research in the similar context.

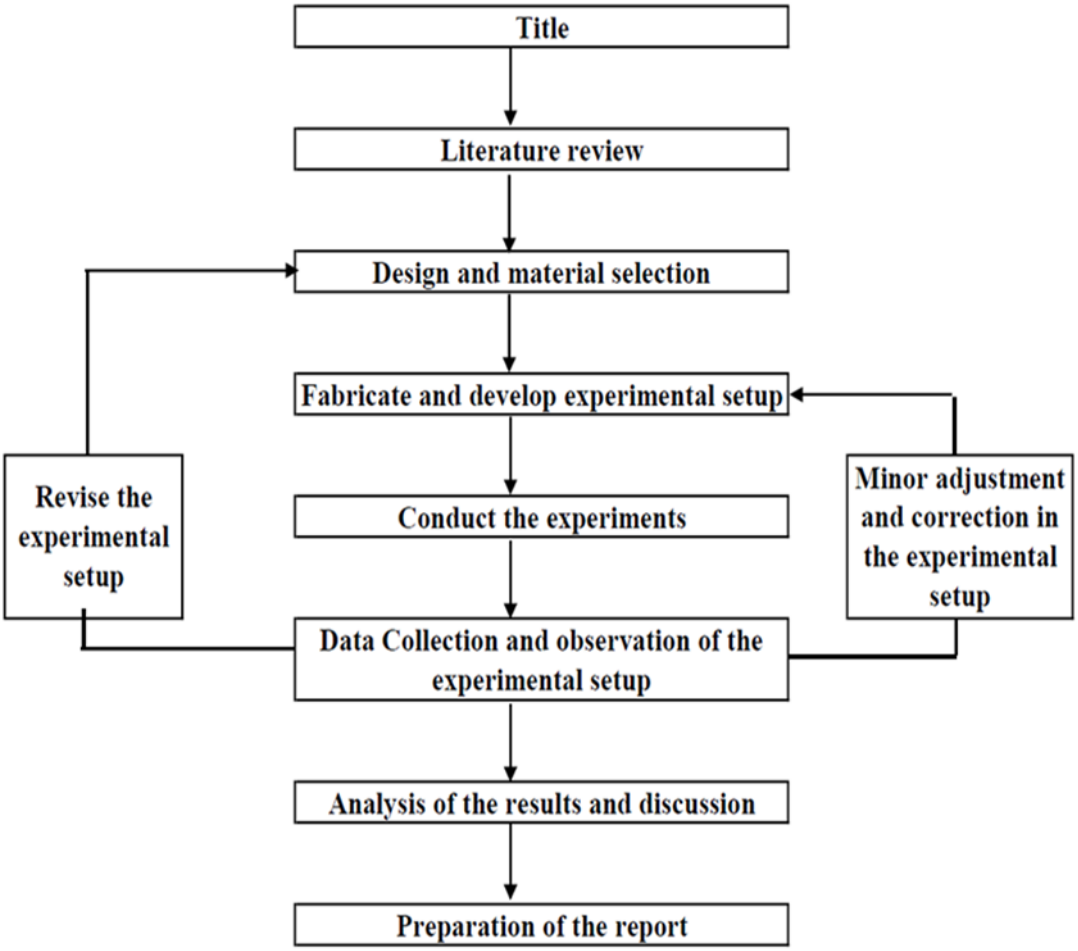

Figure 3-1: Flow chart of Research methodology

Afterwards, the research focused on the design and material collection for the development of the research product. These collected materials and finalized design were then fabricated to a test setup. Once the model was prepared experiments on the temperature variation and power consumption pattern were observed. These data were

then tabulated in the excel file. Analysis of the data was carried out to generate a logical finding which was later presented in the report. Preparation of the report was carried out in the format provided.

3.1.1 Problem Identification

The research identified the gap for effective monitoring and testing of the microbial water quality parameters in the remote areas and thus focused on an intensive literature review of the testing of microbial water quality and process for the incubation methods. Thus, literature further focused on the design part for the incubator and the materials available for the incubation procedure. The review further explored on the methods adopted at local or global region. Afterwards, a setup of solar powered incubator was designed which consisted the w1209 PID controller to adjust the temperature inside the setup, with vaccine box used as the casing for the placement of the petri-dishes or compact dry plates with media and estimated that the setup would be suitable to incubate at least 16 nos. of bacteria culture petri-dishes (compact dry plates) with filter membranes (45µm pore size, 47mm diameter) for incubation continuously for 24 hours at 35±2ºC.

3.1.2 Literature review

Various literatures were followed for the design and fabrication of the incubator setup. The research gap from the literature review was lack of portable incubator, which could be moved to different places in an easy way, less weight, cost effective, solar powered setups and have completed performance evaluation in terms of temperature variations as well as microbial growth in the test plates.

3.1.3 Fabricate and develop experimental setup

Design and fabrication of the incubator was carried out in consideration with the small-scale drinking water schemes which are scattered and isolated. Thus, the sample size from the scheme lies in the range of 10-15nos. The incubator setup thus is designed for 16nos. of these test plates which could be tested in one cycle. The estimated weight of the total test specimen inside the incubator was 700gm including the filter membrane and wrapping papers. The lower portion is filled with media and upper portion is used to cover the lower portion. The net height of these plates when placed in the incubator has a height of 17.5mm.

The test specimen for the incubator is made of Borosilicate glass; it has two components; top and the bottom part. Details of the component are provided here below.

Top portion:

- Outer diameter- 53.5mm
- Inner diameter- 50mm
- Thickness- 2mm
- Depth- 16.5mm
- Weight (empty)- 16.327g

Bottom portion:

- Outer diameter- 53.5mm
- Inner diameter- 50mm
- Thickness- 2mm
- Depth- 16.5mm
- Weight (empty)- 16.643g
- Weight (with agar)- 30g

Based on the available materials, a solar powered incubator was designed and fabricated, which could also be operated from the AC power by using DC converter. An optimized design under controlled assumptions of availability of materials were selected and assembled in order to meet the objectives of the study. Use of heating foil up to 10W as one setup and 5W DC LED bulb as another setup to provide heat with operating voltage of 12V, axial fan for air circulation and temperature sensor were installed in a vaccine box of 1.4L.

A w1209 PID controller to control the temperature variation controls the power supplied to the axial fan and the heating foil or 5W DC LED bulb the operation of the heating foil and axial fan. Solar panel setup selected was of mono-crystalline panel combined with Lead-acid battery was used for the testing of the setup. Meanwhile, AC-DC charger was also used to ensure that the setup could be operated in the presence of main grid line. The media plates used for the growth of the microbes were also prepared and were processed and incubated in the design setup to ensure the growth. The connection of the heating core and fan with the power was carried out as show in the Figure 3-2 Here for this setup w1209 is connected in such a way that it controls the power supply of both heating unit and fan for cut off and on temperature settings provided to w1209.

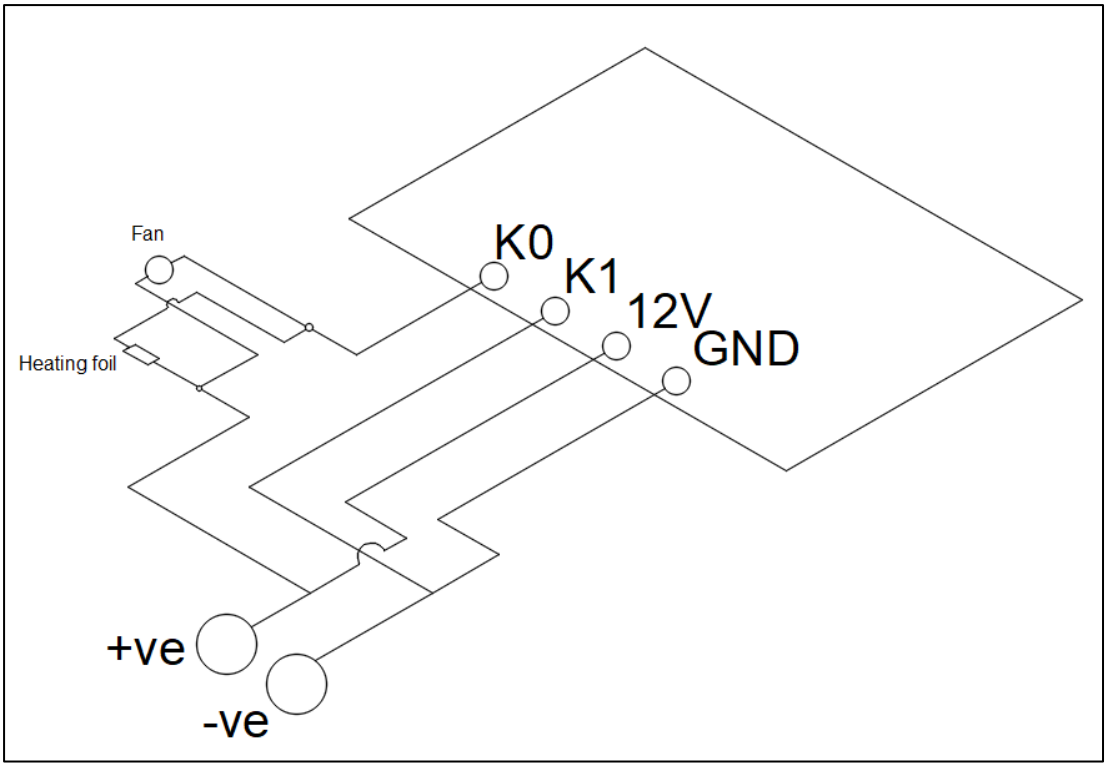

Figure 3-2: Wiring diagram of fan and heating foil in w1209

3.1.4 Conduct experiments

Data collection was carried out in two ways; Primary data of experimental setup and results were collected after the incubator setup was completed, also temperature around the incubator and voltage and current were collected in different interval. The data of temperature were collected by manually using digital thermometer for internal and ambient environment, as well as by using 4 channel data logger. The temperatures of core of heating foil, air temperature within the incubator casing, interior wall, exterior wall and ambient temperature was measured, also the temperature of PID sensor was collected to observe the PID operation procedure. Similarly, secondary data for comparative study were collected from previously published journals, websites and other documents.

3.1.5 Data Collection and observation of the experimental setup

Data from the experimental setup were collected from various devices which are listed below with the details and their purpose for the use in the study.

- Multi meter- Voltage/ Ampere/ Temperature

- Temperature sensor - Temperature
- Weigh balance- weight of petri-dishes with/without media
- Hobo Data logger- Temperature
- Anemometer- Air speed of the axial fan

Availability of these materials had enabled the data collection process in a controlled manner, also the data logger presence had been effective for the monitoring and collecting information for longer period and in minimal frequency. Details of the equipment could be referred to Annex-I.

Solar design of the setup had been completed by using PVsyst V7.2.11 where the user's load and operation hours for the setup were input. The design software thus provided the details of the setup.

3.1.5 Analysis of the results and discussion

Data obtained from the experimental setup were further processed and analysed using MS excel which included all the technical data collected. Data collected were segregated and separated before compiling the necessary data. For those segregated data suitable statistical tools were used for analyses which were further presented in tabular and graphical representation.

3.1.6 Reporting

After the completion of data analysis, report was prepared including the design sheet, explanation of the experimental setup and the results, drawings, and an analysis sheet. For preparation of the report MS word was used and the formats of the report were prepared as per the guidelines.

CHAPTER FOUR: RESULTS AND DISCUSSION

This section of the study covers the results and discussions from the data collected by experimental setup. The data are presented in tabular or figure and are summarized based on the experimental data.

4.1 Design and Fabrication of the setup

The materials and components consisted in the incubator are provided in this section.

4.1.1 Selection of the incubator casing

The setup designed for the incubator has two different sets: (1) with bulb and (2) with heating foil as heating core of the incubator. These two setups are placed in a vaccine carrier box AVC-144 used to transport vaccines. The details of the vaccine box are presented in the Figure 4-1.

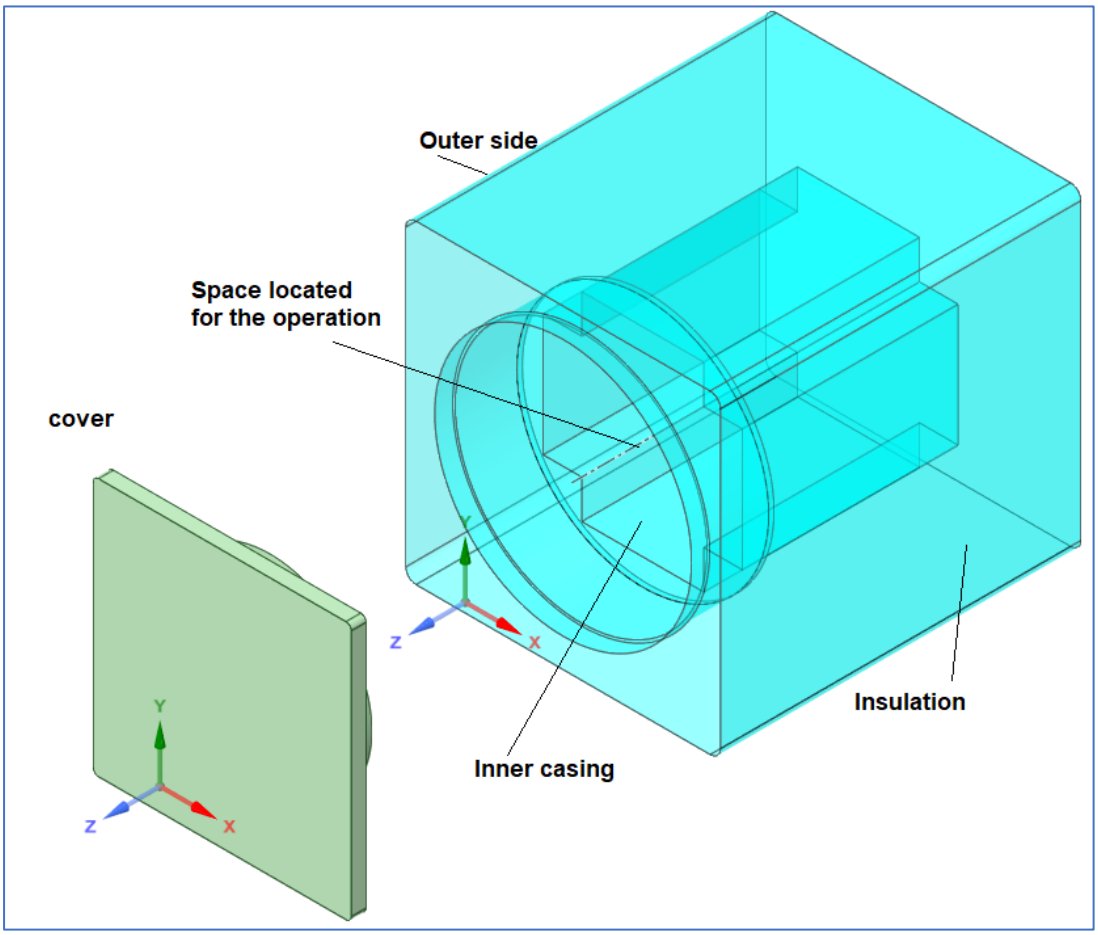

Figure 4-1: AVC-144 box used as incubator casing

The external dimension of the box is 244x244x280mm with a cover of dimension 244x244mm. The cover has an in-built attached body of cylindrical component of diameter 200mm extended up to 30mm, which is inserted in the casing and the airtight condition could be achieved. The inner chamber of the casing is as shown in figure has 95mm width followed by 30mm rise and width with a depth of 168mm. Description of the AVC-144 could be referred from Annex-1. The box is properly insulated and helps reduce the heat loss from the system to maintain the designed temperature, as well as it is of less weight to carry.

- **Design and fabrication of inner setup with bulb as heating core**

The heating core setup for the use by bulb setup, as shown in Figure 4-2 was prepared

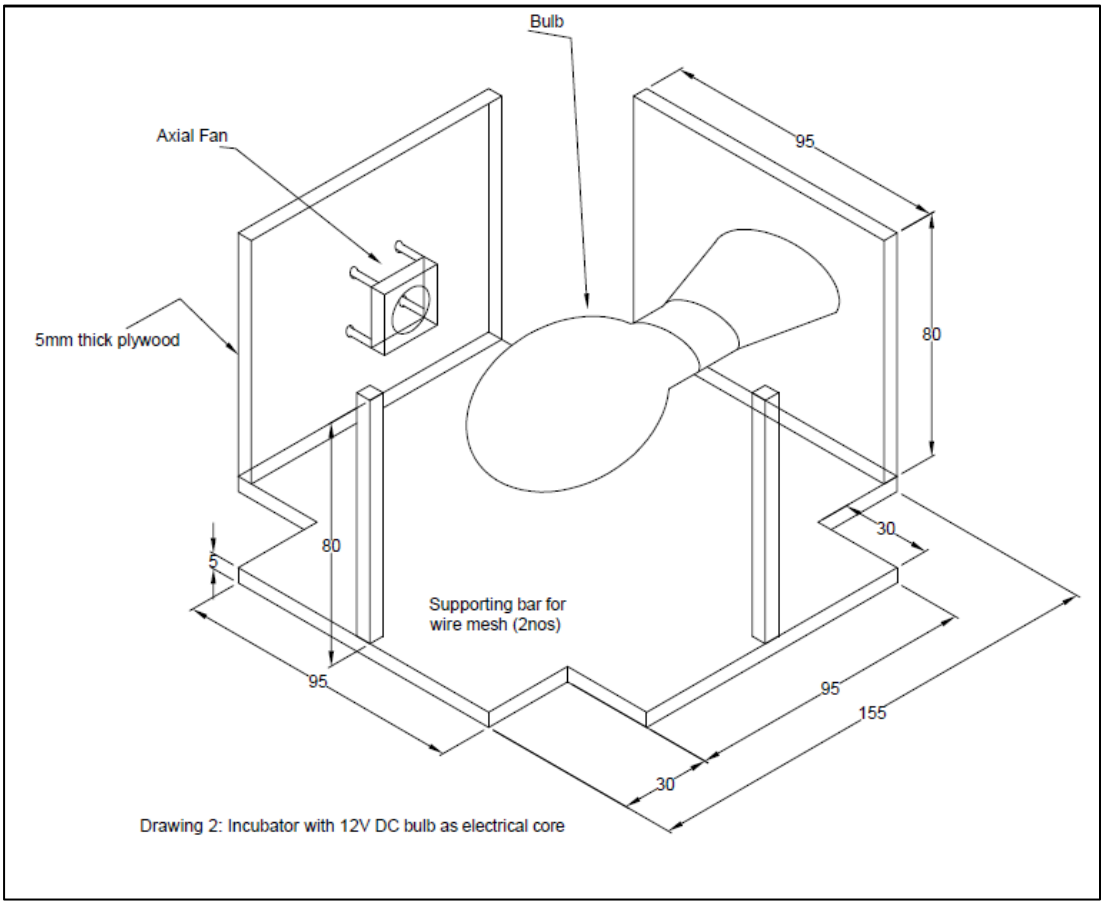

Figure 4-2: Heating core setup with 5W DC bulb

by using plywood as base and supporting wall for the bulb and fan. The fan was placed adjacent to the bulb, so that the heat generated from the bulb could circulate throughout and maintain the uniform temperature throughout the test plates.

List of Materials:

1. Base frame of 5mm thick Plywood made with supporting wall made of 5mm thick plywood to support axial fan and bulb
2. 5W DC light bulb with light bulb holder
3. 2 nos. of 5mmx5mm square support stand of wood to support wire mesh
4. Wire mesh for holding the test plates
5. W1209 temperature controller attached in the outer casing of the AVC-144 vaccine carrier box

The space for the entire setup is 85mm including the base frame thickness. The axial fan is attached in the adjacent wall to supply the warmth throughout the corner of the casing. The total width of the base section is 155x155mm and the height of the setup is 80mm. The electric wiring is passed through the hole nearby to the bulb area.

- **Design and fabrication of inner setup with heating foil as heating core**

The setup of incubator heating core with heating foil is presented in the Figure 4-3. The supporting base is made of 5mm thick plywood, and the axial fan is placed beneath the heating foil setup to supply the warm throughout the corner of the casing.

List of Materials:

1. Base frame of 5mm thick Plywood made to support axial fan and heating foil
2. 10W heating foil
3. 4 nos. of 5mmx5mm square support stand of wood
4. Wire mesh for supporting the test plates
5. W1209 temperature controller attached in the outer casing of the AVC-144 vaccine carrier box

The gap of 30mm was provided for the axial fan and the heating foil setup whereas the gap between the test specimen deck and heating coil is also made up of 30mm in order to increase the distance between the setup and the foil.

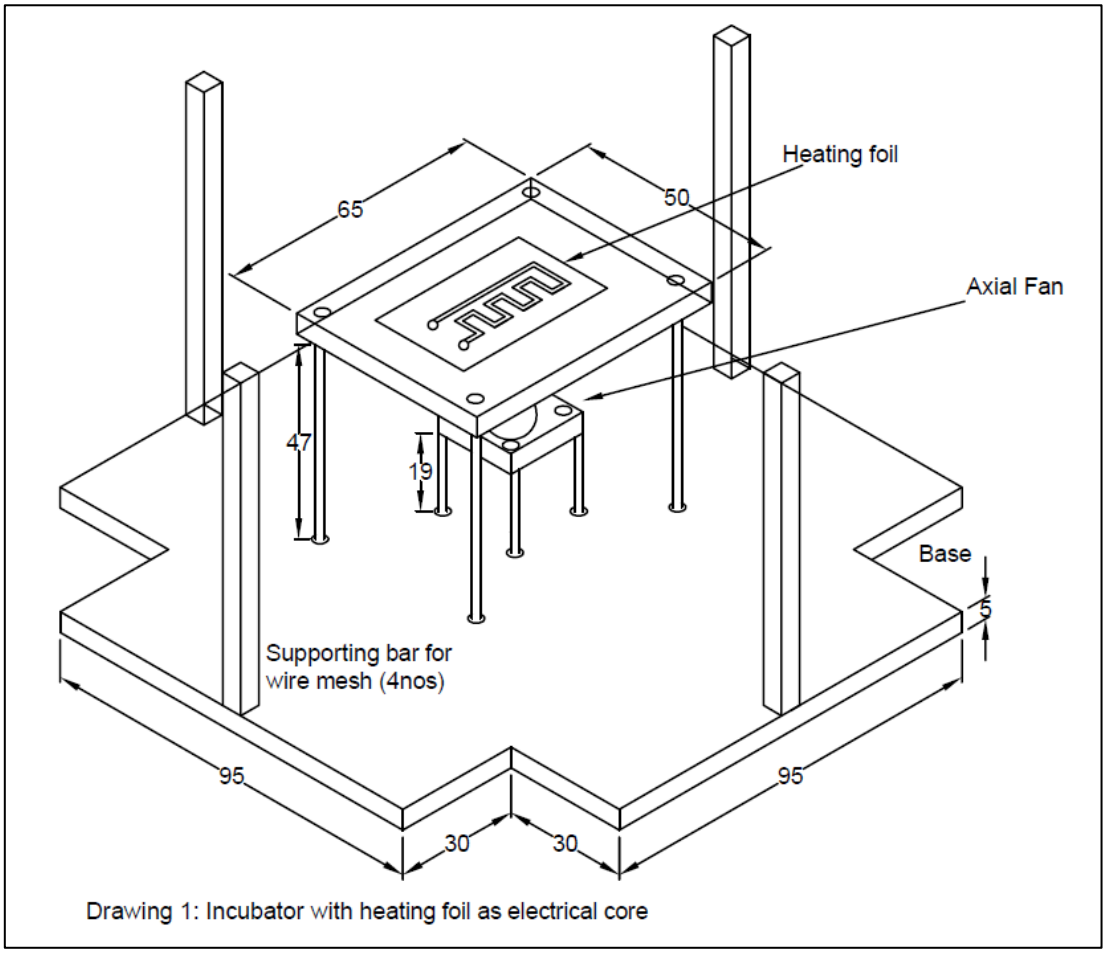

Figure 4-3: Heating core setup with the heating foil

4.1.2 Wiring diagram of heating core and electric core of the incubator

The portable incubator designed for easy handling and mobility of the setup gets power from the solar PV setup, or alternatively from the grid connection. The setup needs to be properly connected to the power supply for the operation. After, power supply, the setup operates heating coil or bulb along with the axial fan. The temperature inside the chamber is monitored from the sensor which is located inside the incubator. W1209 is the temperature controller, the temperature and other setting needs to be incorporated in the setup (further information regarding the setup of temperature controller could referred from ***annex I***). The temperature in the setup rises to 35ºC and then the heating foil or bulb with the axial fan is shut off. The rise of temperature inside the incubator occurs in the forced convection environment, whereas the cooling cycle occurs in the natural convection mode. The power consumption in the setup occurs during the heating cycle whereas minimal power is consumed by the w1209 controller during the cooling cycle.

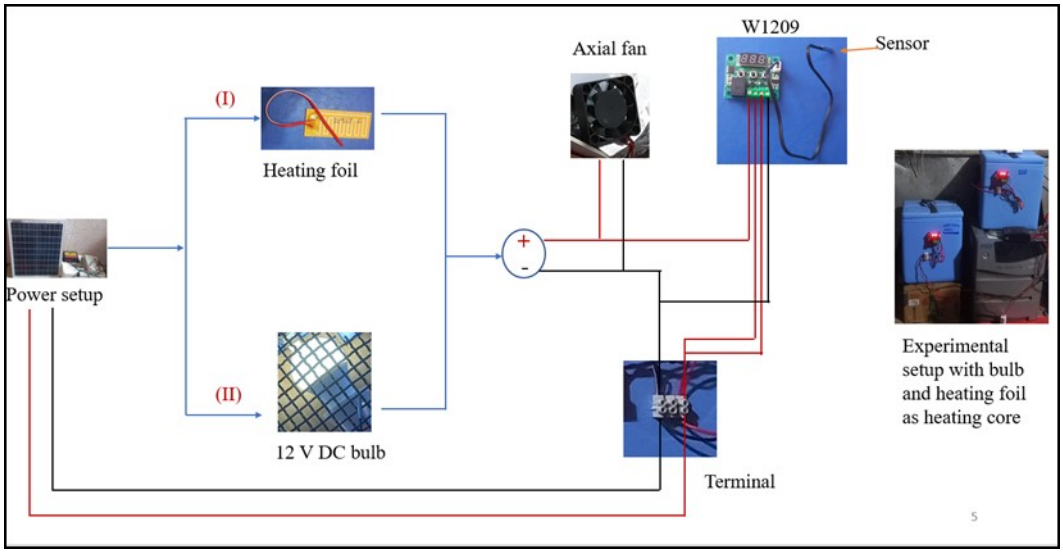

Figure 4-4: Connection used for preparation of the test setup

The connection for the setup is presented in the Figure 4-4. The positive terminal from the heating foil and the axial fan is connected to the K_o and it was extracted from K_1 and connected to positive terminal of the power supply. The negative terminal from the heating foil/bulb and fan is directly connected to the negative terminal of power supply. The power for the w1209 is supplied from the +12V and GND in the setup. The temperature required is then set on the device for operation.

4.2Heat calculation of the incubator casing

The heat calculation of the study was mainly carried out by estimating the numbers of samples that could be tested in a day- in the context of remote areas, thus the test plates are limited to 16 nos., only. Thus, based on the size of petri-dishes and stacking capacity of 4 nos. in one row in 2x2 layout, the volume needed for placement of the plates was finalized. Again, the space for the heater element was considered where the placement of the heater was carried out inside the casing with an axial fan to circulate warm air around the inner space. Thus, based on the size and insulation materials; AVC -144 of 1.4L capacity was selected prior to its performance on proper insulation and heat handling performance for the vaccine preservation. Heat transfer was calculated to select the size of the heater for warming the internal temperature of the casing to the required temperature of the 35ºC. The total area of the interior casing is 0. 00204sq.m with the volume of 0. 00343cu.m with the height of 168mm. The

designed height for the electric core was considered of 84mm considering the significant space between the test specimen and the heating unit.

The amount of heat required to achieve 35°C from 25°C is 10.9kJ. Thus, the heating foil or the bulb should be designed and selected to generate that amount of heat. Larger size of heating foil or bulb needed bigger size of the battery whereas selection of smaller size of bulb is limited due to market limitations.

$$\boldsymbol{Qconvection = h(\pi dwtw)(Tw - Tair, in)} \qquad \textbf{Eqn. 3}$$

$$\boldsymbol{Qradiation = \varepsilon\sigma(\pi dwtw)(Tw - Tair, in)} \qquad \textbf{Eqn. 4}$$

From the calculation it was found that the heat transfer through convection is 0.553W from the heating foil to interior wall of the casing and 2.99 W of conduction heat transfer from inner wall to outer wall.

4.3Design of solar PV setup

Based on the operation schedule and heat required to raise the temperature to 35ºC and release heat to the surrounding and dropping of the temperature to 33ºC before the W1209 temperature restarts to maintain the temperature of 35ºC, it was calculated that the total power required to operate the system is 6W per hour. Thus, the hourly power requirement is presented in Figure 4-5.

From the Figure 4-5, the need of the power supply was considered at higher side during the night period, however lesser power requirements are included as the temperature difference during the night is at the higher side, hence the cooling or heat loss from the insulator is at the higher side, contrary during day time the battery gets charged as well the temperature difference is at the minimal range. Based on this load cycle, further sizing of the solar setup was carried out. 20Wp solar array was selected for the solar panel; charge controller was used for management of power supply from the solar PV to battery to the load. The battery size selected as per the design of the solar PVsyst was 20Ah. This power setup was assembled separately from the incubator to make the proper connection of the power management.

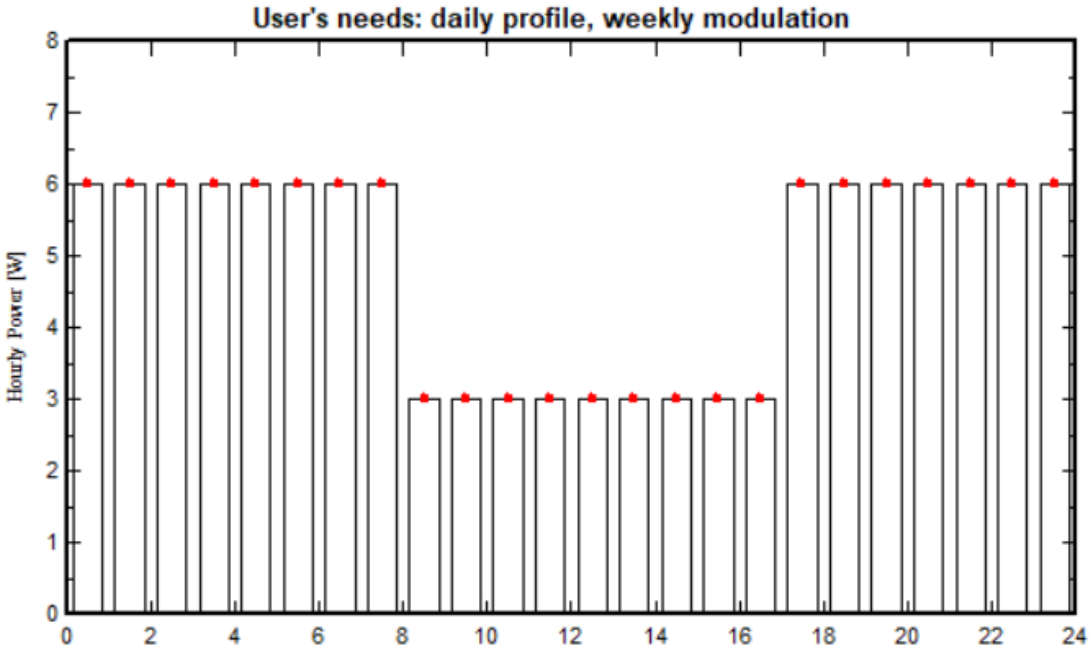

Figure 4-5: Hourly profile of the power required for the setup

System Production

Available Energy	26.25	kWh/year
Used Energy	23.73	kWh/year
Excess (unused)	0.23	kWh/year

From the existing setup of the solar panel setup, it was observed that 26.25kWh/year of energy has been generated where 23.73kWh/year of energy has been used. 12V of 20Ah battery has been recommended by the PVsyst software for the operation of the setup.

4.4 Performance evaluation of the incubator setup

The performance evaluation of the incubator was carried out by measuring the temperature inside the core, in the air inside the chamber, inner wall and exterior wall of the casing. The tests were performed for the (1) empty incubator and (2) with 16 nos. of test plates at full capacity.

4.4.1 Performance evaluation of the incubator without any test plates

The empty incubator consists of the electric core with heating elements inside the system. Temperature sensors were placed on core (bulb/ heating foil), inner region of the incubator casing to measure the temperature of air, inner wall of the incubator and external wall of the incubator. Temperature from the sensor connected to w1209 controller and ambient temperature and relative humidity from hygrometer were also monitored frequently.

- **Heat loss from the core to outer surface for Bulb incubator without test plates**

  Figure 4-6 presents the diagram for the operation of heating and cooling of the incubator setup with bulb. The datasheet related to this can be referred from Annex IV (D).

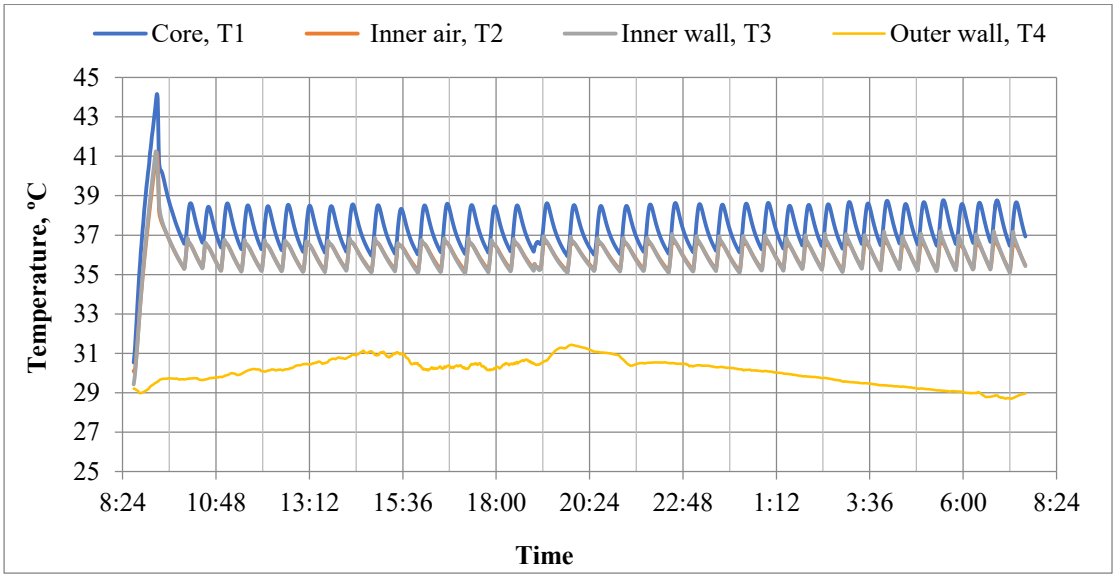

Figure 4-6: Temperature from core to outer surface in Bulb incubator without test plates

The rise in the core temperature to 45ºC was observed, whereas internal air temperature remained in the range of 35±2ºC. The time delay for heating and cooling cycle was observed, indicating the storage of heat within the setup.

- **Temperature of inner walls of bulb incubator**

The temperature needs to be uniform around the inner walls so that the heat needed for the test plates. Figure 4-7 shows the range of temperature around the inner walls is presented.

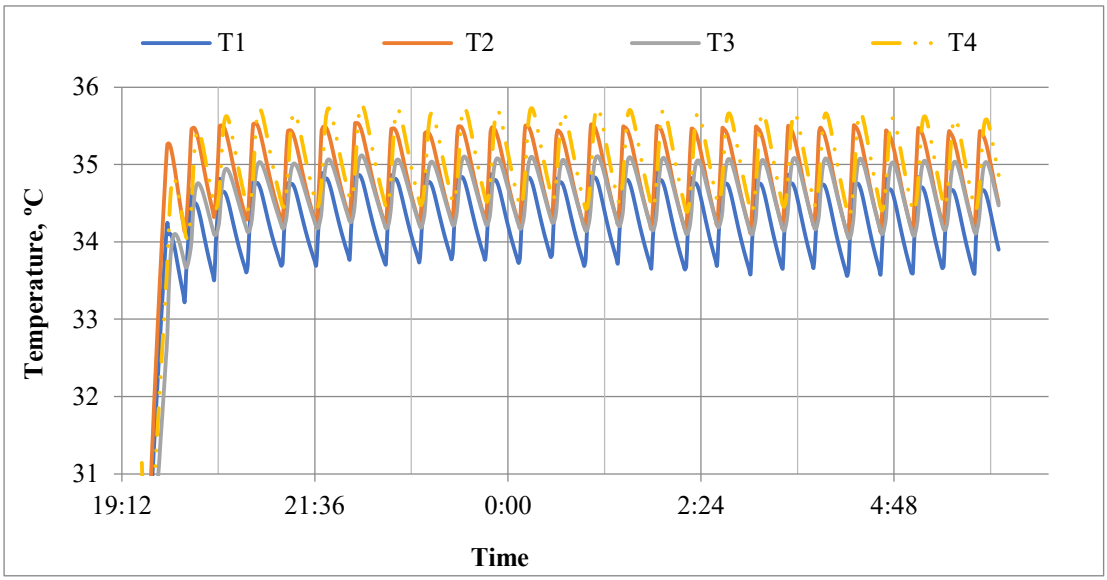

Figure 4-7: Temperature in inner surface-no plates in Bulb incubator

From the data collected it could be stated that the temperature variation exists within the incubator, however, rise and fall of temperature lies around the 35ºC. The datasheet related to this can be referred from ***Annex-IV (F)***.

- **Temperature variations from core to external wall of bulb incubator**

The temperature rises in the heating core by supplying power and operate until the sensor detect the inner air of 35ºC, which then breaks the circuit of power supply to the heating core stopping the bulb and fan operations. Afterwards, the loss of heat from the setup occurs in natural convection. However, major concern for the setup is the range of temperature inside the incubator needs to be maintained.

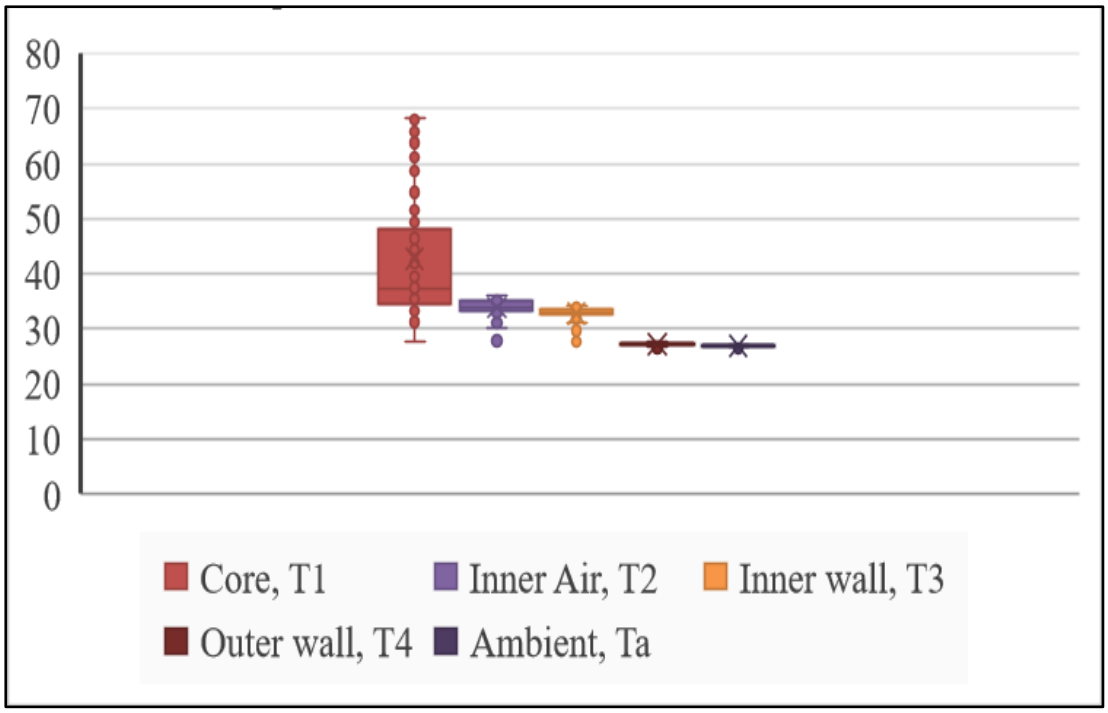

Figure 4-8: Temperature variations from core to external wall of bulb incubator

From the Figure 4-8 it can be concluded that there are few occasions where the core temperature rises to 70ºC, however most of the times the temperature of the core lies in the range of 35-45ºC. Similarly, the occurrence of the temperature of inner air and the inner wall has been in the required zone for incubation. However, the drop in the temperature at the external wall could be observed suggesting that the insulation in the casing has significantly reduced the heat loss from the system. The datasheet related to this can be referred from ***Annex-IV (B)***.

- **Heat loss from the core to outer surface for heating foil-based incubator**

The four nos. of sensors were placed in heating core, inner air, inner wall, and outer wall. From the experimental setup, the temperature monitored in different location with 10W heating foil is presented in the Figure 4-9.

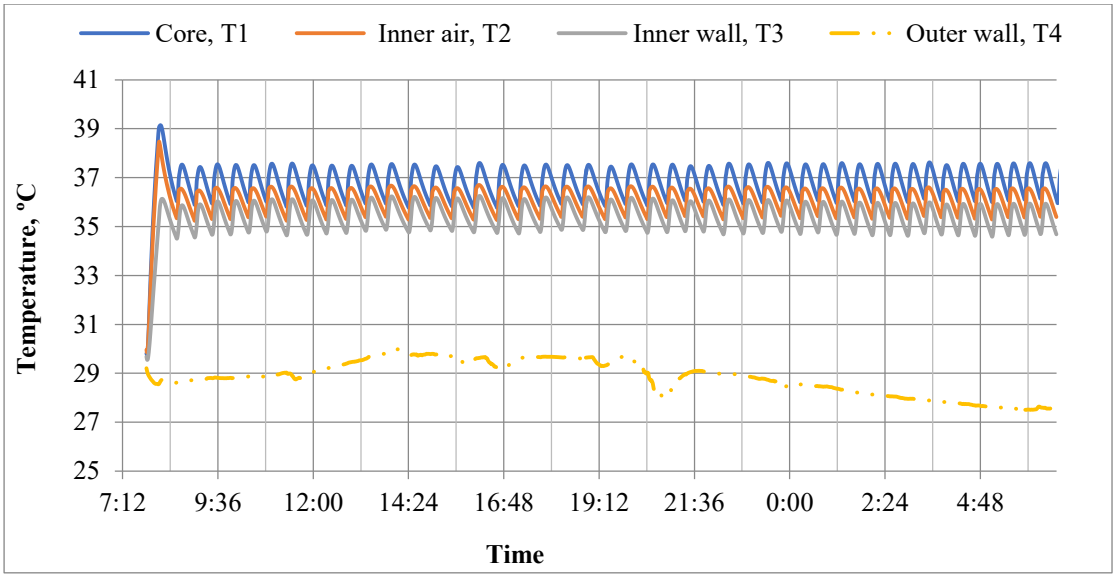

Figure 4-9: Temperature from core to outer surface-no plates in Heating foil incubator

The Figure 4-10 shows that the temperature inside the incubator T_2 and T_3 lies within the range. No major deflection was observed in the temperature fluctuations. The ambient temperature from the figure lies in a same range, whereas the rise and fall of the temperature within the setup for the heating core and inner air and wall indicates that the temperature required operating the heating and cooling cycle are properly balanced, maintaining the required temperature within the setup. The datasheet related to this can be referred from ***Annex IV (H)***.

- **Temperature of inner walls of heating foil incubator**

The temperature variations within the inner walls are presented in the Figure 4-10. From the figure, we can observe that the temperature of four inner walls lies in the same region indicating that the heat is properly and uniformly dissipated and absorbed by the inner casing of the incubator. Thus, temperature required for the growth of the setup is properly balanced for entire test plates.

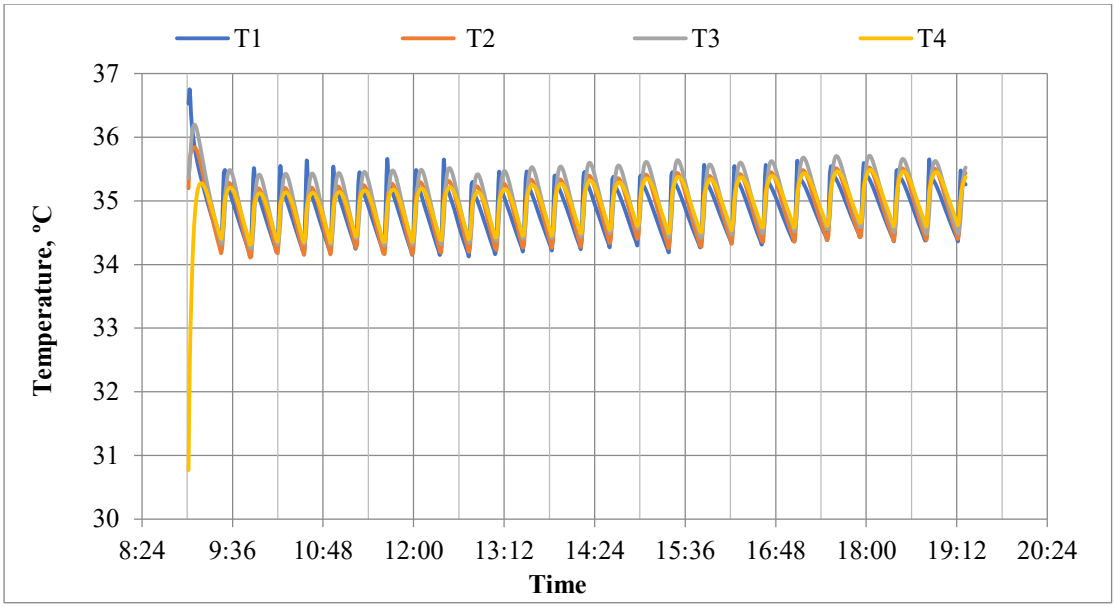

Figure 4-10: Side wall temperatures of Heating foil incubator without plates

The heat transfer from the inner core of the heating core to the external side of the casing is presented in the Figure 4-11. The datasheet related to this can be referred from ***Annex IV (J)***.

- **Temperature variations from core to external walls of heating foil incubator**

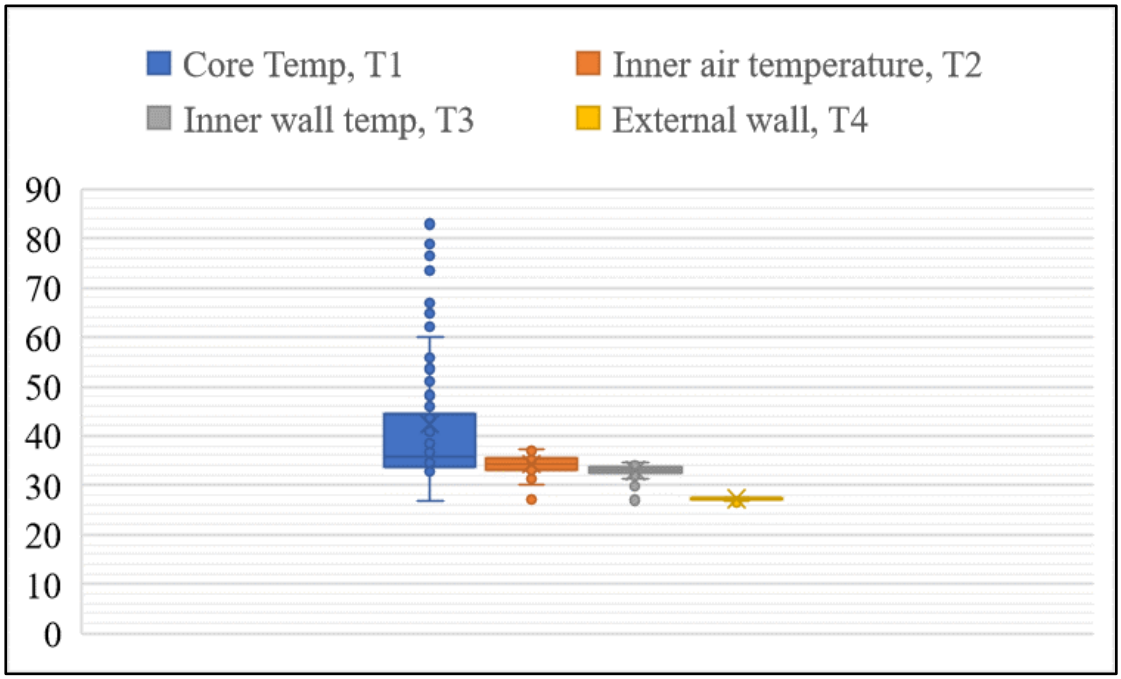

Figure 4-11: Temperature variation for heating foil based incubator

The temperature of the core rises to 85ºC, although most of the temperature data ranges in between 33 to 48ºC. Similarly, the temperature of the inner air and inner wall of the incubator casing lied in between 33-36ºC, which shows the uniformity in the range of the temperature in incubator. The datasheet related to this can be referred from ***Annex IV (A)***.

4.4.2 Performance evaluation of fully loaded incubator with test plates

The performance evaluation of the incubator when fully loaded by 16 nos. of test plates could provide the scenario of the heating and cooling cycles of the. 16 nos. of test plates as described in the ***section 4.1.2*** were placed inside the incubator and operated for 24hours.

- **Heat loss from the core to outer surface for bulb incubator**

Figure 4-12 presents the cycle of the operation of heating and cooling of the incubator setup with bulb incubator. The datasheet related to this can be referred from ***Annex-IV (E).***

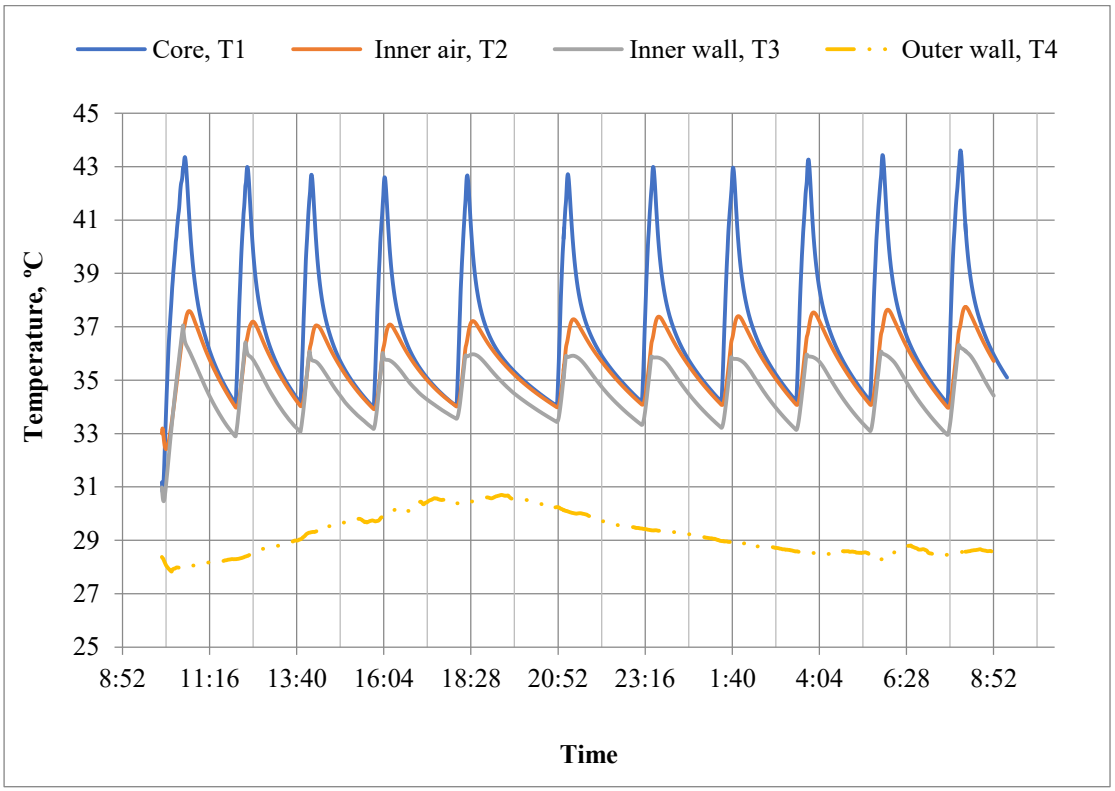

Figure 4-12: Temperature from core to outer surface-16 nos. of plates in bulb incubator

The rise in the temperature of the core can be observed in the system with the peak of 43ºC. The temperature of the internal air however remains in the range of 35±2ºC. The cooling cycle on the other hand extended for longer period. The gap between the inner air and inner wall indicates that the heat has been absorbed by the test plates as well the cooling cycles are more inclined compared to the empty incubator. This indicates that, the power consumption for the incubator would be lesser when fully loaded rather than empty setup.

- **Temperature of inner walls of bulb incubator**

The temperature needs to be uniform around the inner walls so that the heat needed for the test plates could be properly manageable around the setup. Figure 4-13 shows the range of temperature around the inner walls is presented.

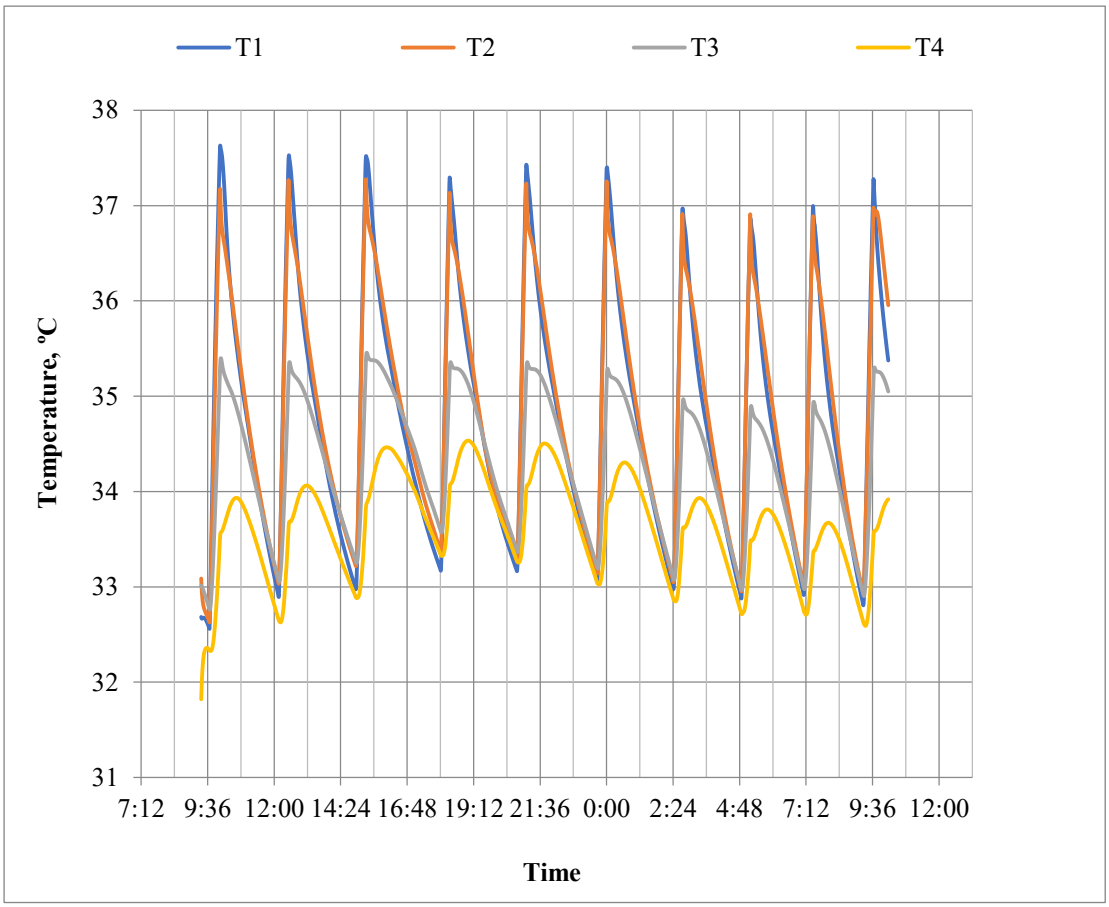

Figure 4-13: Side wall temperatures-Bulb incubator with 16 nos. of plates

Thus, it could be stated that the temperature variation exists within the incubator; however, rise and fall of temperature could be observed around the 35ºC. The datasheet related to this can be referred from ***Annex-IV (G)***.

- **Heat loss from the core to outer surface for heating foil-based incubator**

The temperature variation of the incubator in different location with heating foil can be observed from the Figure 4-14. The rise of the temperature of the heating foil is distinguish and can be observed in a similar pattern, as well as for other points of data collected also indicates the similar pattern, however the cooling cycle is comparatively longer than that of the heating core.

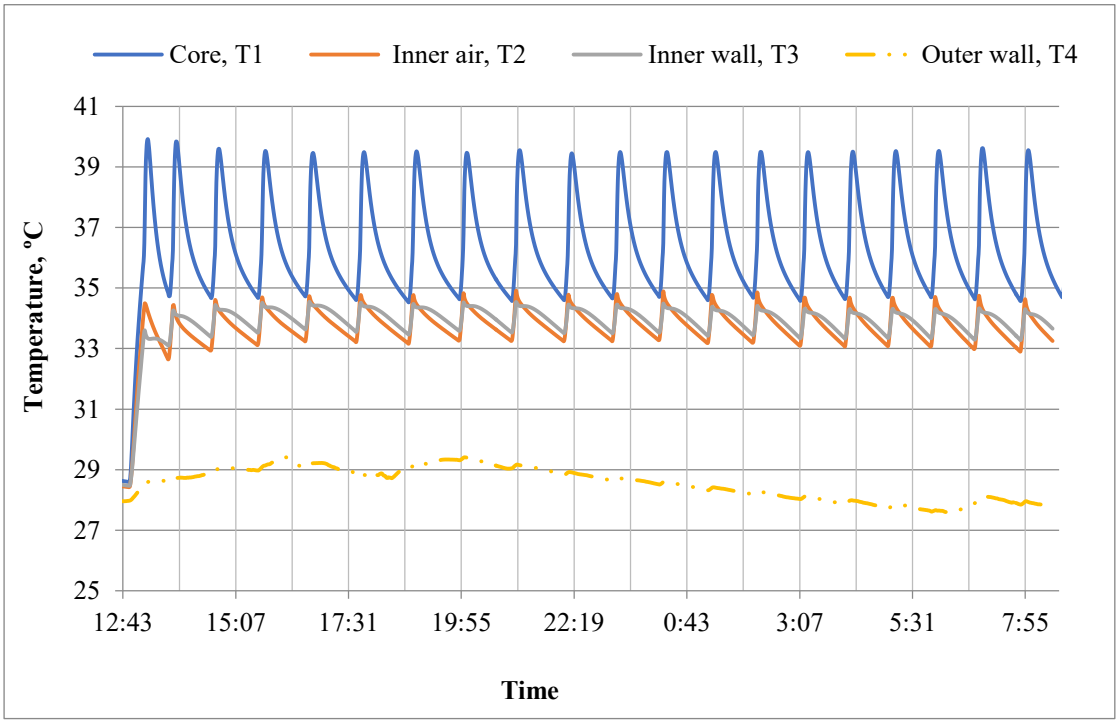

Figure 4-14: Temperature from core to outer surface-16 nos. of plates in heating foil incubator

The Figure 4-14 above shows that the temperature needed inside the incubator T_2 and T_3 lies within the range of the lower and upper region as per requirement. No major deflection was observed in the temperature fluctuations. The datasheet related to this can be referred from ***Annex-IV (I)***.

- **Temperature of inner walls of heating foil incubator**

The temperature variations within the inner walls are presented in the Figure 4-15. The datasheet related to this can be referred from ***Annex-IV (K)***.

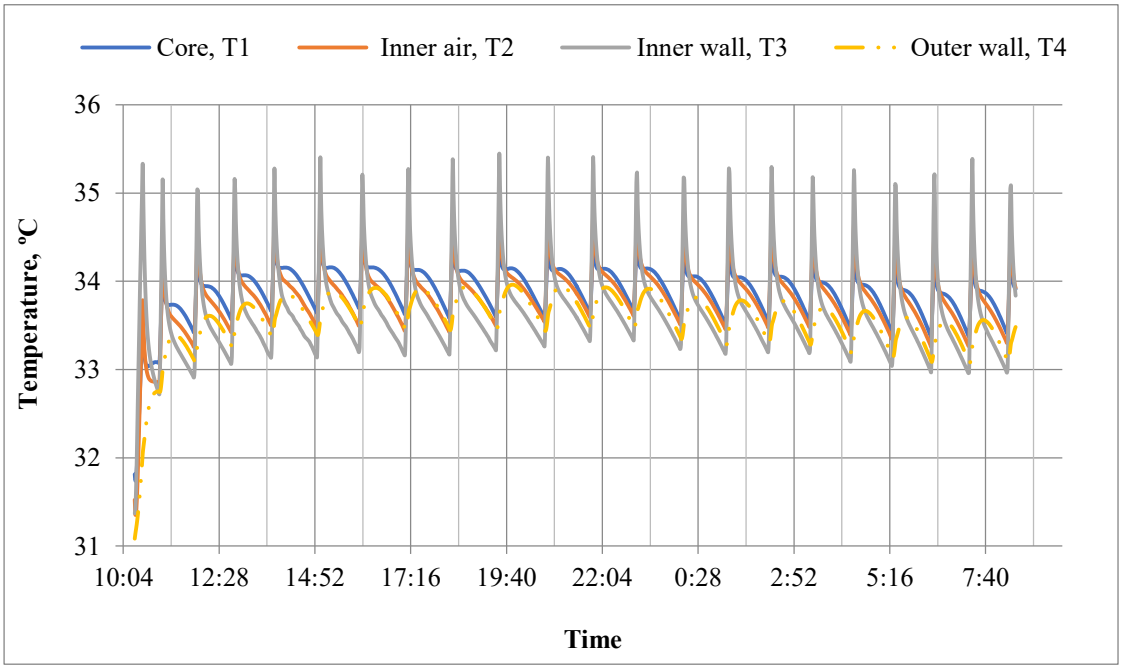

Figure 4-15: Temperature in inner surface-Heating foil with 16 nos. of plates

4.5 Operation of the setup with 16 nos. of test plates

The performance evaluation of the incubator was carried out by preparing triplicate plates for same water samples (by processing them in microbial filtration unit). Then these plates were separately placed in the three incubators at same conditions. The incubating period of 24 hours was maintained, and the plates were finally counted for the growth and uniformity.

4.5.1 Operation of the incubator with 12V DC bulb

Table 4-1 presents the data related to the operation of the incubator with 12V DC bulb, it includes the time taken for heating and achieve the required temperature of 35ºC and cool down to the temperature of 33ºC and restart again to the designated temperature. The datasheet related to this can be referred from ***Annex-IV (M)***.

Table 4-1: Operation of the incubator with 12V DC bulb

Cycle	On	OFF	Duration of heating (hr-min)	Time taken for heating (min)	Duration of cooling (hr-min)	Time taken for cooling to 33C (min)
1	12:10	12:25	0:15	15	3:59	239
2	16:24	16:30	0:06	6	2:09	129
3	18:39	18:47	0:08	8	1:31	91
4	20:18	20:28	0:10	10	1:19	79
5	21:47	21:57	0:10	10	1:13	73
6	23:10	23:21	0:11	11	1:11	71
7	0:32	0:42	0:10	10	1:11	71
8	1:48	1:59	0:11	11	1:06	66
9	3:04	3:15	0:11	11	1:04	64
10	4:19	4:29	0:10	10	1:04	64
11	5:33	5:44	0:11	11	1:04	64
12	6:52	7:03	0:11	11	1:08	68
13	8:22	8:33	0:11	11	1:19	79
14	10:23	10:28	0:05	5	1:50	110

Similarly, other data collected from data logger shows that the temperature of bulb raises to a highest point and other all setup has uniform rise and fall of temperature accordingly.

4.5.2 Operation of the incubator with heating foil

The operation of the incubator with heating foil and loaded petri-dishes can be presented as below in the Table 4-2. It includes the time taken for heating and achieve the required temperature of 35ºC and cool down to the temperature of 33ºC and restart again to the designated temperature.

From the experimental data, it was found that the initial heating time was 6 minutes and cooling time was 17 minutes. Heating time for second and further cycles was around 3-4 minutes; however cooling time of the incubator was significantly increased. The datasheet related to this can be referred from ***Annex-IV (L)***.

Table 4-2: Operation of the incubator with heating foil

Cycle	On	OFF	Duration of heating (hr-min)	Total time taken for heating	Duration of cooling (hr-min)	Time taken for cooling to 33̊C (min)
1	12:12	12:18	0:06	6	0:17	17
2	12:35	12:38	0:03	3	2:50	170
3	15:28	15:31	0:03	3	2:07	127
4	17:38	17:42	0:04	4	1:51	111
5	19:33	19:37	0:04	4	1:36	96
6	21:13	21:17	0:04	4	1:29	89
7	22:46	22:50	0:04	4	1:25	85
8	0:15	0:19	0:04	4	1:18	78
9	1:37	1:41	0:04	4	1:17	77
10	2:58	3:02	0:04	4	1:18	78
11	4:20	4:24	0:04	4	1:15	75
12	5:39	5:43	0:04	4	1:15	75
13	6:58	7:02	0:04	4	1:16	76
14	8:18	8:22	0:04	4	1:59	119
15	10:21	10:24	0:03	4	0:51	51
16	11:15	11:19	0:04	4		

Similarly, other data collected from data logger shows that the temperature of heating foil raises to a highest point and other all setup has uniform rise and fall of temperature accordingly.

4.6 Energy consumption by the setup

4.6.1 Energy consumption of the bulb setup

Under this section, monitoring of the energy consumed by the setup was carried out.

Table 4-3: Energy consumption during the cycle of the bulb based setup

Cycle	Duration (hr-min)	Time taken for heating (min)	A	V	W	Wh
1	0:15	15	0.62	13.48	7.44	1.86
2	0:06	6	0.62	13.5	7.44	0.744
3	0:08	8	0.62	13.02	7.44	0.992
4	0:10	10	0.62	12.48	7.44	1.24
5	0:10	10	0.62	12.52	7.44	1.24
6	0:11	11	0.62	12.52	7.44	1.364
7	0:10	10	0.62	12.52	7.44	1.24
8	0:11	11	0.62	12.54	7.44	1.364

It has been observed that the bulb based setup draws the current of 1.86Wh during the first hour of operation, which gradually reduced to 0.744Wh, 0.992Wh, however increases to 1.24 and 1.334Wh in coming round of operation, respectively. The power consumed by the setup was 7.44W; however, the duration to maintain the temperature took significant duration of around 10 minutes, except in one of the cases where the duration was just 6 minutes.

4.6.2 Energy consumption of the heating foil setup

Under this section, monitoring of the power consumed by the setup was carried out. The power consumption from the setup is presented in the Table 4-4. It has been observed that the heating foil setup draws the current of 8.4608Wh during the first hour of operation, which gradually reduced to 3.966Wh, 1.322Wh and 1.322Wh for the second, third and fourth round of operation, respectively.

Table 4-4: Energy consumption during the cycle of the heating foil based setup

Hour	Round	Duration for heating (minutes)	A	V	W	Wh
1st	1	0:22	1.322	12	15.864	8.4608
	2	0:05	1.322	12	15.864	
	3	0:05	1.322	12	15.864	
2nd	1	0:05	1.322	12	15.864	3.966
	2	0:05	1.322	12	15.864	
	3	0:05	1.322	12	15.864	
3rd	1	0:05	1.322	12	15.864	1.322
4th	1	0:05	1.322	12	15.864	1.322

The initial hour operation shows that the heat generation needed significant time to reach the assigned temperature, as well as flow of heat from the inner side of the incubator casing to the surroundings, however other continuous cycle followed the operation for the rise of temperature from 33ºC to 35ºC, inside the incubator casing.

4.7 Estimation of the load in solar PV

The solar PV set is mainly considered for the power supply. The voltage variation during the operation of the setup for 24 hours is presented in the Figure 4-16.

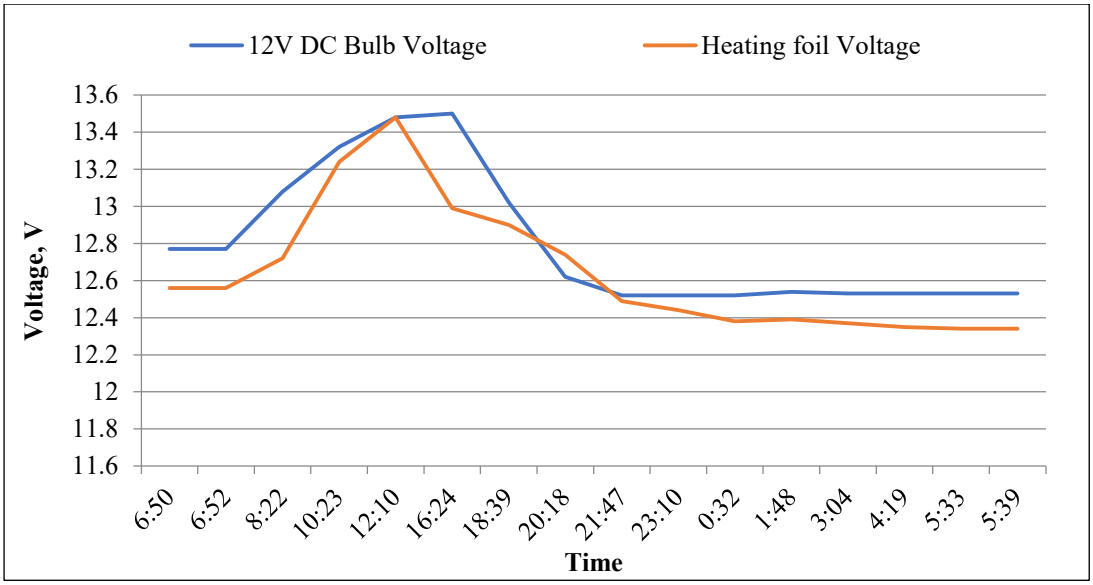

Figure 4-16: Voltage variation for the setup during the operation

From the Figure 4-16 it has been found that the for an incubation cycle of 24 hours the sun rise from 6:00am has increased the charging of the battery during which operation of the fan and heating foil/ bulb are observed in longer span whereas the frequency of operation of the setup from 18:00 to 6:00 is in close range which suggest that the power consumption by the setup is high during the night hours, also at the same period the voltage of the battery ranges to the lowest point.

4.8 Comparison between the incubator setup with heating foil and 12V DC bulb

Incubator setup using AVC-144 carrier as casing was prepared with same electrical controller, however the heating condition has been adapted in two version- with heating foil and the 12V DC bulb. The differences between these two components are listed as below in the Table 4-5.

Table 4-5: Comparisons of the incubator setup with heating foil and 12V DC bulb

Description	12V DC bulb	Heating foil	Remarks
Current drawn from the setup	0.620A	1.322A	
Power consumption	7.44W	15.864W	Initial cycle
Space occupied by the heating element setup	Half of the inner space	One third of the setup	
Nos. of test plates in the setup	16 nos	16 nos	
Maximum core temperature of the heating element	42ºC	78ºC	
Time taken for the heating of the system (initial)	15min (T_{amb}=26.9ºC)	17 min (T_{amb}=25.6ºC)	
Minimum time taken for the heating of the system (operational)	4 min	3 min	
Maximum time taken for the heating of the system (operational)	20 min	5 min	
Access of materials	Easily available	Not easily available	
Growth of E. coli	Could be counted properly		

Furthermore, operation of the incubator in 24-hour cycle for incubating petri dishes can be presented as below in the Table 4-6.

Table 4-6: Time for heating and cooling for one cycle of incubation:

Description	Time for heating		Time for cooling	
Heating foil inbuilt incubator	16	cycles	16	Cycles
	64	minutes	1377	minutes
	1.07	hours	22.95	hours
12V DC bulb inbuilt incubator	14	cycles	14	Cycles
	140	minutes	1365	minutes
	2.33	hours	22.75	hours

From data collected it has been found that 16 cycles of heating were needed for heating foil incubator which has taken 1.07 hours of heating operation whereas 14 cycles of heating which has taken 2.33 hours of heating operation. Similarly, same numbers of cooling cycle were needed for cooling as well.

4.9 Validation of the setup with the standard incubator

Validation of the incubator was carried out by carrying out the microbial test and incubating the plates in three setups, namely.

(1) Faithful standard incubator (Refer annex I for further details),

(2) Bulb based incubator, and

(3) Heating foil based incubator.

10 nos. of sample from various sources were collected in triplicate way and were processed by using membrane filtration unit.

These plates were then separated in three sets, which were then placed in three incubator sets. The incubators were then operated for all three setups for 24 hours. Here Table 4-7 shows the growth of pathogens in three different incubators.

Table 4-7 : Growth of Escherichia coli as validation

Sample no.	Standard incubator		Incubator with bulb		Incubator with Heating foil	
	Escherichia coli	Total coliform	Escherichia coli	Total coliform	Escherichia coli	Total coliform
1	1	2	4	0	4	1
2	0	0	2	0	7	9
3	3	15	4	20	4	20
4	4	35	5	75	20	5
5	5	10	5	0	1	0
6	116	0	110	0	98	0
7	5	10	5	0	1	0
8	300	300	300	300	300	300
9	0	1	0	0	0	3
10	45	90	50	100	40	102

The result has shown that the growth of the pathogens in three different setups was in similar range and has shown that the devices could be further used for the growth of the E. coli. The photo of the test results could be observed from the ***Annex-V*** (photograph no. 11). From the Table 4-7**,** no significant difference was observed and the growth of the Escherichia coli in all three setup lies in the range of acceptability.

Validation of the temperature was carried by measurement of the temperature by AMPROBE thermal sensor as well as by using HOBO onset device. The variation in the temperature of the setup lied in the range of -0.9°C. Similarly, the temperature measurement tools were also calibrated and following Figure 4-17 shows the curve during the calibration from the tool.The calibration of the setup was carried out for the given range of temperature due to the targeted temperature setup of 35°C.

The drop in temperature is because of the sensor being plucked out of the water bath, however rest of the curve here shows the uniformity for the temperature of 25°C, 26°C, 30°C, 35°C and 40°C. The 4 ports of the data logger thus show the uniform temperature throughout the calibration procedure.

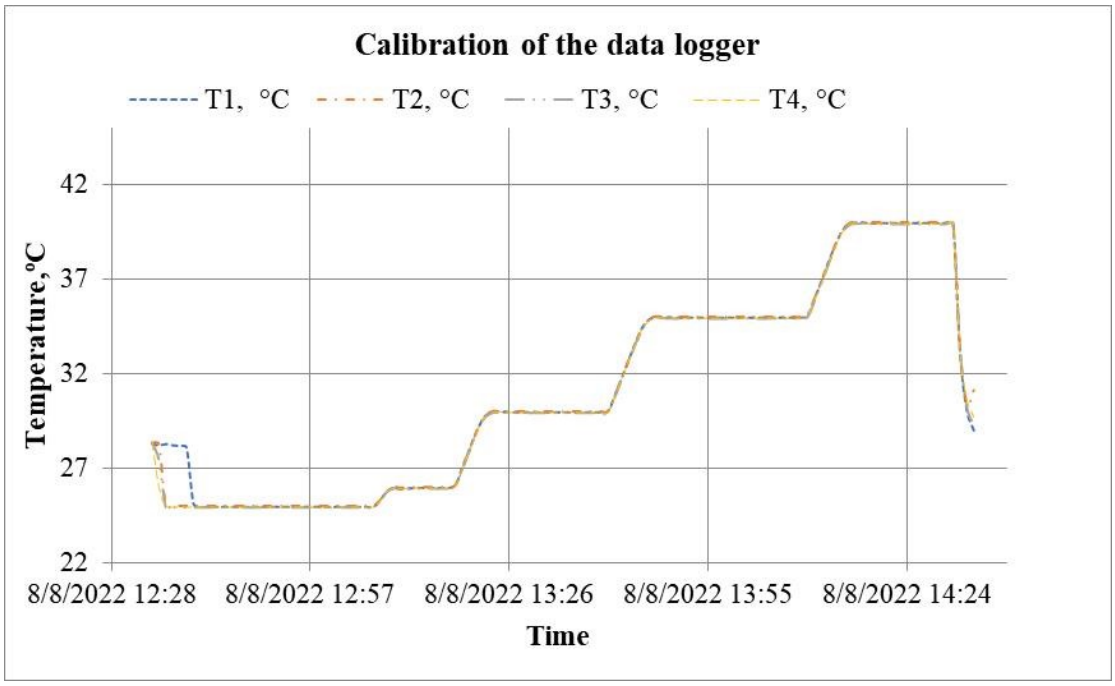

Figure 4-17: Calibration of the data logger (4 channels)

The other temperature measurement tools also are in the similar range of measurement.

4.10 Financial cost of the setup

To produce the setup finance is the key for the replication and to make decision of make or buy. The financial cost for fabrication of one complete setup of incubator is presented in the Table 4-8.

From the materials collected and based on the market value, it has been found that the total cost for the incubator setup is NPR 6,400 which covers the casing with w1209 temperature controller, axial fan, and other supporting materials. The capacity of bulb used was 5W and heating foil of 10W. The cost below represents the price in Kathmandu. Additional battery setup of 20Wp with accessories cots NPR 17,500 is needed for the proper supply to the system. This cost for the solar setup also includes the cost of supporting structures and other devices to hold this setup.

Table 4-8: Financial cost for the setup of incubator

S.no	Description	Qty	Unit	Rate	Amount (NPR)	Remarks
1	AVC-44 vaccine carrier box	1	Nos.	3200	3,200.00	
2	W1209 temperature controller	1	Nos.	250	250.00	
3	Axial fan	1	Nos.	400	400.00	
4	Wooden frame	1	Set	300	300.00	
5	External Aluminium frameworks	1	Set	2000	2,000.00	
6	AC-DC charger	1	Set	250	250.00	
Sub-total (NPR)					6,400.00	A
A1	Bulb with holder	1	Set	500	500.00	
With bulb					6,900.00	A+A1
A2	Heating foil	1	Nos.	1500	1,500.00	
With heating foil					7,900.00	A+A2

1	20Wp Solar PV panel set	1	Set	16000	16,000.00	
2	Accessories and wires	1	LS	1500	1,500.00	
Sub-total of battery (NPR)					17,500.00	A

Thus, from the financial cost setup, the price of the total setup is NPR 24400 and NPR 25400 for bulb and heating foil based incubator setup.

CHAPTER FIVE: CONCLUSION AND RECOMMENDATIONS

This chapter includes the conclusion and discussion of the content produced from the research. The study mainly focused on the design, fabrication and performance evaluation of the portable incubator using locally available materials and with multi-power option (1) solar PV setup and (2) main grid line. Summarized information under the topic of conclusion and recommendations for future research are presented below.

5.1 Conclusion

Portable Incubator for 16 nos. of test plates with heating unit, w1209 controller, and multiple power sources assembled in AVC-144 vaccine carrier has been constructed. Two types of heating unit- 10W heating foil and 12V 5W DC bulb was used, followed by the power supply managed from two sources- battery powered by solar and AC-DC charger from grid line. w1209 as temperature controller was used to maintain the range of temperature required for use. The combination of this setup has effectively generated required temperature in the incubator, and also maintained the uniformity of the temperature during the incubation cycle. The cost of the setup is NPR 6900 and NPR 7900 for bulb and heating foil based incubator without solar setup. The solar setup of 20Wp ranges to NPR 17500. Overall, the total cost of the setup lies in the range of NPR 24400 and NPR 25400 for bulb and heating foil setup.

The incubator weighs 2.3kg at empty and 3.0 kg when filled with the petri dishes. The bulb-based setup incubator draws 0.620A current for the operation and the heating foil-based setup draws 1.322A current to operate the system. The energy consumed by the incubator for an hour of operation is 0.1176kWh and total power consumption in 24 hours is 0.28224Wh/day which in minimal compared to another setup. The measurement of temperature from core to outer surface, inside the wall during empty and fully loaded with plates indicated that the setup provides uniform temperature around the incubating chamber; also, the setup significantly reduces the heat loss consuming less power for operation.

Validation of the setup with triplicates of same samples has been carried out, the result from the experiment shows that the uniform growth of the Escherichia coli in the plates which are countable. It has been found that to perform on cycle of incubation the test setup went on for a period of 16 times in case of heating foil-based incubator and 14 times for bulb based incubator. The total operation hour for one cycle was 1.07 hours and 2.33 hours for heating foil-based incubator and bulb-based incubator respectively.

Based on the experimental data, heating foil consumes less energy than bulb-based incubator, similarly heating foil setup has bigger space for test plates than bulb-based setup. There is no significant cost difference in both setups. However, both setups have uniformly maintained the required temperature within the casing and are effective for the microbial water quality tests for different settings. Thus, from the research conducted, it can be stated that the portable incubator based on heating foil or bulb can be produced locally at reasonable cost, which is easier to operate for the user's and could create a suitable and uniform temperature of the growth of pathogens operated by solar PV setup or main electricity.

5.2 Recommendations

From the research, multiple aspects of incubator have been figured out. This section elaborates the need of further research to strengthen the existing setup with multiple options. These recommendations are for the academicians, professional and other stakeholders who are in need for the portable incubator.

- The arrangement of the fan and heating unit could be adjusted in different position to maintain the uniform flow of the temperature and air movement in the stack of the plates.
- For academicians- life cycle of the incubator setup could be assessed, and durability of these items needs to be documented. Similarly, economic cost of the product could be carried out in order to present the differences on the imported product.
- Design of the setup based on the lithium-ion battery could be further investigated in order to reduce the weight of the power source as well as make the setup more robust.

- Investigation of this setup could be further carried out in the various circumstances of cold and hot region, with running simulation of the setup and flow of air inside the casing.
- Incubator casing of other materials beside AVC-144 vaccine carrier could be evaluated in order to ensure the alternative and also this is needed for better and easy manufacturing of the setup.
- Incubator casing and inner region of the heating core and the rack of the incubators could be further modified with the stainless-steel casing to make a better look of the casing as well as preserve the heat inside the setup.
- PID controller and its performance could be evaluated for various brands of product and modifications on the setup could be further adapted.

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Annex

Annex-I Proposed Materials

I.1 Casing for the incubator (Specification from the manufacturer)

● Model	AVC-44 (Vaccine Carrier: long range)
● Vaccine Storage Capacity (L)	1.4
● Weight - fully loaded	4.2kg
● Weight - empty	2.2kg
● External Surface Material	HDPE (High Density PE)
● Internal Lining Material	HIPS (High Impact PS)
● Insulation Material	CFC free PU
● Insulation Thickness	35/40mm

I.2 Specification of W1209 PID controller

● Temperature control range	- -50℃ to 110℃
● Resolution at	- -9.9℃ to 99.9℃ : 0.1℃
● Measurement accuracy	- 0.1℃
● Control accuracy	- 0.1℃
● Refresh rate	- 0.1℃
● Input power	- 12 V DC
● Measuring inputs	- NTC (10K 0.5%)
● Waterproof sensor	- 0.5M
● Output	- 1 channel relay output
● Capacity	- 10A

Power consumption

● Static current	- <=35mA
● Current	- <=65mA

Environmental requirements

● Temperature	- -10℃ to 60℃
● Humidity	- 20-85%

Dimensions - 48mmx40mmx14mm

I.3 Setting of w1209

- Long press the “SET” button to activate the menu
- Code description range default value

S.no	Code	Description	Range	Existing	Set value
1	P0	Heat C/H (cool/heat)		C	H
2	P1	Backlash set	0.1-15℃	2℃	2℃
3	P2	Upper limit	110℃	110℃	40℃
4	P3	Lower limit	-50℃	-50℃	20℃
5	P4	Correction	-7	-7	0
6	P5	Delay start time	0-10 min	OFF	OFF
7	P6	High temperature alarm	110℃	110℃	40℃

- Long press +- will reset all values to their default.

I.4 Temperature sensor-digital thermometer

- Temperature measurement range - -50℃ to 110℃
- Resolution - 0.1℃
- Accuracy - +-1.0℃
- Sampling period - 1 sec

I.5 Solar Panel

- Name MS power
- Certified by TUV GERMANY
- Model type FDS020-12P
- Maximum power (Pmax) 20W+-5%
- Maximum power voltage(Vmp) 17.25V
- Open circuit voltage (Voc) 21.45V
- Short circuit current (Isc) 1.23A
- Maximum system voltage 1000V
- Maximum series fuse 3A
- Standard test condition E=1000W/m2 Tc=25℃ AM1.5

- Nominal operating cell temperature(NOCT) 47+-2℃
- Mfd. Zhangjiangang fortunes solar technology

For field connections, use minimum no.11 AWG copper wires insulated for a minimum of 90℃

I.6 Heating foil

- Mfd ThermoGmBH
- Voltage 12V
- Power 10W
- Dimension 40x100
- Mfd. date 05/06/019

Voltage measurement Amprobe AM-530-EUR

Annex-II Design sheet of solar setup by PVsyst

PVsyst V7.2.11
VC0, Simulation date:
03/08/22 22:47
with v7.2.11

Project: Solar incubator

Variant: New simulation variant

General parameters

Stand alone system — **Stand alone system with batteries**

PV Field Orientation
Orientation
Seasonal tilt adjustment
azimuth 0 °
Summer Tilt 20 °
winter 50 °
Oct.-Nov.-Dec.-Jan.-Feb.-Mar.-

Sheds configuration
No 3D scene defined

Models used
Transposition Perez
Diffuse Perez, Meteonorm
Circumsolar separate

User's needs
Daily profile
weekly modulation
Average 0.1 kWh/Day

PV Array Characteristics

PV module
Manufacturer BP Solar
Model BP 220 SRU
(Original PVsyst database)
Unit Nom. Power 20 Wp
Number of PV modules 1 unit
Nominal (STC) 20 Wp
Modules 1 String x 1 In series
At operating cond. (50°C)
Pmpp 18 Wp
U mpp 13 V
I mpp 1.4 A

Battery
Manufacturer Sonnenschein
Model Solar S12/27 G5
Technology Lead-acid, sealed, Gel
Nb. of units 1 Unit
Discharging min. SOC 20.0 %
Stored energy 0.2 kWh
Battery Pack Characteristics
Voltage 12 V
Nominal Capacity 24 Ah (C10)
Temperature External ambient temperature

Controller
Universal controller
Technology DC-DC converter
Temp coeff. -5.0 mV/°C/Elem.
Converter
Maxi and EURO efficiencies 97.0 / 95.0 %
DC Input voltage 0.0 V

Battery Management control
Threshold commands as SOC calculation
Charging SOC = 0.90 / 0.75
approx. 13.2 / 12.4 V
Discharging SOC = 0.20 / 0.45
approx. 11.6 / 12.1 V

Total PV power
Nominal (STC) 0 kWp
Total 1 modules
Module area 0.2 m²
Cell area 0.2 m²

Array losses

Array Soiling Losses
Loss Fraction 3.0 %

Thermal Loss factor
Module temperature according to irradiance
Uc (const) 29.0 W/m²K
Uv (wind) 0.0 W/m²K/m/s

DC wiring losses
Global array res. 170 mΩ
Loss Fraction 1.5 % at STC

Serie Diode Loss
Voltage drop 0.7 V
Loss Fraction 4.7 % at STC

LID - Light Induced Degradation
Loss Fraction 2.0 %

Module Quality Loss
Loss Fraction 10.0 %

Module mismatch losses
Loss Fraction (Fixed voltage) 2.5 %

Strings Mismatch loss
Loss Fraction 0.1 %

IAM loss factor
ASHRAE Param: IAM = 1 - bo(1/cosi -1)
bo Param. 0.05

Annex-III Heat transfer calculations

		length,mm	Breadth, mm	Area,sq.mm	Nos. of corners	Total area, sq.mm	Total area, sq.m
Floor	Corners	95	30	2850	4	11400	0.0114
	Central	95	95	9025	1	9025	0.009025
Total, sq.m							0.020425

Volume of the space, cu.m	=	height,m	0.168	0.0034314

Outside temperature	=	20	°C
Inside temperature	=	35	°C

Specific heat capacity of air	=	1.012	$J{\cdot}g^{-1}{\cdot}K^{-1}$
Specific heat capacity of glass	=	0.837	$J{\cdot}g^{-1}{\cdot}K^{-1}$

(dry air density) ρ	=	1275	g.m-3

Mass of air	=	4.38	g
Heat required to raise the temperature inside the glass (16 nos)	=	-10847.52	J
Heat required to raise the temperature inside the box	=	-66.41	J

Total heat required to raise the temperature inside the box	=	-10913.93	J

Total heat needs to maintain the temperature inside the casing	=	10913.93	J

Heating foil available for use	=	10.00	W
Time taken to mitigate the temperature (initially)	=	1091.39	Seconds
	=	18.19	Minutes

Heat required to raise the temperature inside the glass (16 nos)	=	-10847.52	J
Heat required to raise the temperature inside the box	=	-66.41	J

Total heat required to raise the temperature inside the box	=	-10913.93	J

Total heat needs to maintain the temperature inside the casing	=	10913.93	J
Outside temperature	=	20	°C
Inside temperature	=	35	°C
Time taken to transfer the heat (during operation)	=	1091.39	Seconds
	=	18.19	Minutes

Heat transfer phenomena inside the incubator casing				
Convective heat transfer coefficients	h	=	22	W/m2.K
Width of the heating coil, m	d_w	=	0.0485	m
Thickness of the heating coil, m	t_w	=	0.003	m
Temperature of the heating coil	T_w	=	80	°C
Temperature of the air in the surface of heating coil	$T_{air,in}$	=	25	°C
Ambient temperaure	T_{amb}	=	26	°C
	π	=	3.1416	
Emissivity	Ɛ	=	0.8	
	σ	=	**5.67037E-08**	W·m−2·K−4
Thermal conductivity of HIPS	k_1	=	0.15	W/m.K
Thermal conductivity of CFC PU	k_2	=	0.396	W/m.K
Thermal conductivity of HDPE	k_3	=	0.022	W/m.K
Thickness of HIPS	L_1	=	2	mm
		=	0.002	m
Thickness of Insulation	L_2	=	40	mm
		=	0.04	m
Thickness of HDPE	L_3	=	2	mm
		=	0.002	m
Area of the face	A	=	102300	mm2
		=	0.1023	m2
$Q_{convection}$	=	$h(\pi d_w t_w)(T_w-T_{air,in})$		W
	=	0.553	W	
$Q_{radiation}$	=	$\varepsilon\sigma(\pi d_w t_w)(T_w-T_{air,in})$		W
	=	0.000	W	
Q_{total}	=	0.553	W	
Heat transfer phenomena through the incubator casing				
Inner wall temperature	Tw1	=	35	°C
Overall thermal conductivity	R_{th}	=	2.01	K/W
Outer wall temperature	Tw2	=	29.00	°C
Conduction through the setup	Qcond	=	2.990	W
Nos. of faces	nos.	=	12.00	
Area of the faces	Aouter	=	0.102	m2
Heat treansfer due to convection at outer surface	Qconv,O	=	6.75	W

Detail of Petri-dishes

Specification of the Petri-dishes

Outer Diameter (OD)	53.5	mm
Inner Diameter (ID)	50	mm
Overall Height	16.5	mm
Net Height	14.5	mm
Thickness of the plate	2	mm
Density of the glass used	2.23	g/cm^3

Base part			
Density, d1=	mass/Volume		
Mass of base, m1=	diameter of base x Volume of the cylinder	8.75721	gm
Lid part			
Mass of the lid, m2=	10.56	gm	

Total mass	19.32	gm
Mass of one set (2 pieces)	39	gm

Agar in plate	15ml	15	gm

Total weight of plate with agar	**54**	**gm**

Heat transfer inside the casing of incubator

Convective heat transfer coefficients	h	=	22	$W/m^2.K$
Width of the heating coil, m	d_w	=	0.0485	m
Thickness of the heating coil, m	t_w	=	0.003	m
Temperature of the heating coil	Tw	=	80	°C
Temperature of the air in the surface of heating coil	$T_{air,in}$	=	25	°C
Ambient temperaure	T_{amb}	=	26	°C
	π	=	3.1416	
Emissivity	Ɛ	=	0.8	
	σ	=	**5.67037E-08**	$W \cdot m^{-2} \cdot K^{-4}$
Thermal conductivity of HIPS	k_1	=	0.15	W/m.K
Thermal conductivity of CFC PU	k_2	=	0.396	W/m.K
Thermal conductivity of HDPE	k_3	=	0.022	W/m.K
Thickness of HIPS	L_1	=	2	mm
		=	0.002	m
Thickness of Insulation	L_2	=	40	mm
		=	0.04	m
Thickness of HDPE	L_3	=	2	mm
		=	0.002	m
Area of the face	A	=	102300	mm^2
		=	0.1023	m^2

Qconvection	=	$h(\pi d_w t_w)(T_w-T_{air,in})$	W
	=	0.553	W

Qradiation	=	Ɛσ(πdwtw)(Tw-Tair,in)	W
	=	0.000	W

Qtotal	=	0.553	W

Inner wall temperature	T_{w1}	=	35	°C
Overall thermal conductivity	R_{th}	=	2.01	K/W
Outer wall temperature	T_{w2}	=	29.00	°C
Conduction through the setup	Q_{cond}	=	2.990	W

Nos. of faces	nos.	=	12.00	
Area of the faces	A_{outer}	=	0.102	m2

Heat treansfer due to convection at outer surface	Q_{conv},O	=	6.75	W

Annex-IV Data sheet

A. Heating foil based incubator						
Initial tme	8.48 am				RH	73%
time	Core, T1	Inner Air, T2	Inner wall, T3	Outer wall, T4	Ambient, Ta	Sensor, Ts
8:48	27.8	27.8	27.6	27.6	26.4	27.8
8:49	31.2	28.2	27.6	27.6	26.4	28.1
8:50	37.5	28.2	27.6	26.6	26.4	28.3
8:51	48.1	28.3	27.8	26.6	26.5	28.6
8:52	56.6	28.7	28.1	26.6	26.6	29.4
8:53	61.2	29.4	28.4	26.6	26.6	30
8:54	64.2	30.1	28.8	26.6	26.6	31.1
8:55	66	31	29.2	26.6	26.6	31.7
8:56	67.9	31.9	29.7	26.8	26.6	32.3
8:57	68.3	32.7	30.1	26.8	26.6	33.1
8:58	68.5	33.6	30.6	26.8	26.6	33.7
8:59	69.2	34.5	31.1	26.8	26.6	34.4
9:00	69.3	35.1	31.6	26.8	26.7	35
9:01	62.1	35.5	31.9	26.8	26.7	35.4
9:02	55.6	35.6	32.2	26.8	26.8	35.3
9:03	51.6	35.6	32.4	26.8	26.8	35.4
9:04	47.6	35.6	32.6	26.8	26.8	35.2
9:05	45.5	35.5	32.8	26.8	26.8	35
9:06	43.7	35.3	32.8	26.8	26.8	35
9:07	42.2	35.2	32.9	26.8	26.8	34.8
9:08	40.6	35	33	26.8	26.8	34.8
9:09	39.9	34.8	33	26.8	26.9	34.6
9:10	39.2	34.8	33.1	26.8	26.9	34.5
9:11	38.4	34.6	33.1	26.8	26.9	34.4
9:12	37.9	34.5	33.1	26.8	26.9	34.3
9:13	37.4	34.4	33.1	26.9	26.9	34.3
9:14	36.9	34.3	33.1	26.9	26.9	34.2
9:15	36.6	34.1	33.1	26.9	26.9	34.2
9:16	36.2	34	33	26.9	26.9	34
9:17	35.9	33.9	33	26.9	26.9	33.8
9:18	35.6	33.8	32.9	26.9	26.9	33.9
9:19	35.4	33.7	32.9	26.9	26.8	33.7
9:20	35.2	33.6	32.9	26.9	26.8	33.6
9:21	35	33.5	32.9	26.9	26.8	33.6
9:22	34.8	33.5	32.8	26.9	26.8	33.4
9:23	34.6	33.3	32.8	26.9	26.8	33.4
9:24	34.5	33.3	32.7	26.9	26.8	33.4
9:25	34.3	33.2	32.7	26.9	26.8	33.2
9:26	34.2	33.1	32.6	26.9	26.8	33.2
9:27	34.1	33	32.6	27	26.8	33.2
9:28	33.9	33	32.6	27	26.9	33.1
9:29	33.8	32.9	32.5	27	26.9	33.1
9:30	33.7	32.8	32.5	27.1	26.9	33.1
9:31	33.6	32.8	32.4	27.1	26.9	33
9:32	43.7	32.9	32.4	27.1	26.9	32.9
9:33	54.8	33.1	32.6	27.1	26.9	33.4
9:34	61.8	33.6	32.8	27.1	26.9	34
9:35	65.8	34.1	33.1	27.1	26.9	34.7
9:36	66	35	33.4	27.2	26.9	35.3
9:37	58.6	35.5	33.6	27.2	26.9	35.5
9:38	53.2	35.8	33.7	27.2	26.9	35.6
9:39	49.3	35.8	33.8	27.2	26.9	35.6
9:40	46.4	35.9	33	27.2	26.9	35.6
9:41	44.3	35.8	34	27.3	26.9	35.6
9:42	42.6	35.8	34	27.3	27	35.6
9:43	41.4	35.6	34.1	27.3	27	35.5
9:44	40.3	35.5	34.1	27.3	27	35.4
9:45	39.5	35.4	34.1	27.3	27	35.3
9:46	38.8	35.3	34.1	27.3	27	35.2
9:47	38.3	35.1	34.1	27.4	27	35.1
9:48	37.8	35.1	34	27.3	27	35.1
9:49	37.3	34.9	34	27.4	27	35
9:50	37	34.8	34	27.4	27	34.8
9:51	36.7	34.6	33.9	27.4	27	34.8
9:52	36.4	34.6	33.9	27.3	27	34.6
9:53	36.1	34.5	33.9	27.3	27	34.6
9:54	35.9	34.3	33.8	27.3	26.9	34.5
9:55	35.8	34.3	33.8	27.3	26.9	34.5
9:56	35.6	34.1	33.8	27.3	26.9	34.3
9:57	35.4	34.1	33.7	27.3	26.9	34.3
9:58	35.2	34.1	33.6	27.3	26.9	34.3
9:59	35.1	34	33.6	27.3	26.9	34.1
10:00	34.9	33.9	33.5	27.3	26.9	34.1
10:01	34.8	33.8	33.5	27.3	26.9	34
10:02	34.6	33.8	33.5	27.3	26.9	34
10:03	34.5	33.7	33.4	27.3	26.9	33.8
10:04	34.4	33.6	33.3	27.3	26.9	33.8
10:05	34.3	33.6	33.3	27.3	26.9	33.6
10:06	34.2	33.5	33.3	27.3	26.9	33.6
10:07	34.1	33.5	33.2	27.3	26.9	33.6
10:08	34	33.4	33.1	27.3	26.9	33.5
10:09	33.9	33.3	33.1	27.3	26.9	33.5
10:10	33.8	33.2	33.1	27.3	26.9	33.5
10:11	33.8	33.2	33	27.3	26.9	33.5
10:12	33.7	33.2	32.9	27.3	26.9	33.3
10:13	33.6	33.1	32.9	27.3	26.9	33.3
10:14	33.5	33.1	32.8	27.3	26.9	33.3
10:15	33.5	33.1	32.8	27.3	26.9	33.3
10:16	33.4	33.1	32.8	27.3	26.9	33.3
10:17	33.3	33.1	32.7	27.3	26.9	33.1
10:18	33.3	33	32.6	27.3	26.9	33.1
10:19	33.1	33	32.6	27.3	26.9	33.1
10:20	33.1	32.9	32.5	27.3	26.9	33.1
10:21	33	32.9	32.5	27.3	26.9	33.1
10:22	34.8	32.8	32.4	27.3	26.9	33
10:23	50.5	32.9	32.5	27.3	26.9	33.2
10:24	59.3	33.3	32.7	27.3	26.9	33.8
10:25	63.8	33.7	32.9	27.3	26.9	34.3
10:26	67.1	34.3	33.2	27.3	26.9	35
10:27	62.2	35.1	33.5	27.3	26.9	35.4

10:28	55.5	35.6	33.7	27.3	26.9	35.7
10:29	51	35.8	33.8	27.3	26.9	35.7
10:30	47.7	35.9	33.9	27.3	26.9	35.7
10:31	45.3	35.9	33.9	27.3	26.9	35.7

10:32	43.3	35.8	34	27.3	26.9	35.7
10:33	41.9	35.7	34.1	27.3	26.9	35.7
10:34	40.8	35.6	34.1	27.3	26.9	35.5
10:35	39.9	35.5	34.1	27.3	26.9	35.5

B. Incubator based on the 12V DC bulb

Initial time	10:05 AM	RH	73%						
time	TL	TH	Core Temp, T1	Inner air temperature, T2	Inner wall temp, T3	External wall, T4	Ta	Ts	Remarks
10:05	33	37	28.1	27.5	27.9	27	26.9	28.4	
10:10	33	37	40.1	32.6	30.8	27	26.9	31.8	
10:15	33	37	42.3	34.5	32.1	27.1	26.9	33.2	
10:20	33	37	44.8	36.3	34	27.1	27	34.8	off
10:25	33	37	41.3	35.6	34.6	27.1	27	34.8	
10:30	33	37	36.8	35.7	34.8	27.2	27	33.8	
10:35	33	37	35.5	34.5	34.5	27.2	27.1	33.4	
10:40	33	37	34.7	33.8	34.1	27.2	27.1	33.1	
10:45	33	37	38.9	35.1	34.3	27.3	27.1	34.7	
10:50	33	37	40.8	38.3	35.1	27.3	27.1	34.9	
10:55	33	37	37.6	36.4	35.1	27.3	27.1	34.2	
11:00	33	37	35.7	34.8	34.7	27.3	27.1	33.7	
11:05	33	37	34.8	34.1	34.3	27.3	27.1	33.4	
11:10	33	37	34.3	33.6	33.4	27.5	27.2	33.1	on
11:12	33	37	35.8	34.1	34	27.5	27.2	34.1	
11:15	33	37	38.6	35.1	34.3	27.5	27.2	34.7	off-11:14
11:20	33	37	39.7	37.7	35.1	27.5	27.3	34.8	
11:25	33	37	36.8	35.8	34.3	27.4	27.3	34.1	
11:30	33	37	35.5	34.6	34.6	27.3	27.2	33.6	
11:35	33	37	34.6	33.8	34.2	27.3	27.1	33.5	
11:40	33	37	34.3	33.5	33.9	27.3	27.1	33.1	
11:45	33	37	41.3	37.5	34.8	27.3	27.1	35	
11:50	33	37	39.1	37.5	35.1	27.3	27.1	34.6	
11:55	33	37	36.3	35.3	34.3	27.3	27.1	33.5	
12:00	33	37	34.5	33.8	34.1	27.3	27.1	33.1	

C. Calibration datasheet

Time	T1	T2	T3	T4
12:34	28.286	28.345	28.36	28.397
12:35	28.208	28.28	27.441	26.026
12:36	28.278	25.019	24.931	24.951
12:37	28.218	25.013	24.928	24.947
12:38	28.179	25.015	24.928	24.948
12:39	28.088	25.013	24.927	24.947
12:40	25.121	25.01	24.924	24.944
12:41	24.954	25.007	24.922	24.941
12:42	24.957	25.01	24.925	24.944
12:43	24.957	25.01	24.925	24.945
12:44	24.954	25.007	24.922	24.942
12:45	24.957	25.009	24.925	24.944
12:46	24.954	25.007	24.922	24.942
12:47	24.954	25.007	24.922	24.942
12:48	24.956	25.009	24.924	24.944
12:49	24.954	25.007	24.922	24.942
12:50	24.954	25.007	24.922	24.942
12:51	24.953	25.006	24.921	24.941
12:52	24.956	25.009	24.924	24.944
12:53	24.959	25.01	24.925	24.945
12:54	24.956	25.009	24.924	24.944
12:55	24.956	25.009	24.924	24.944
12:56	24.954	25.007	24.922	24.942
12:57	24.954	25.007	24.922	24.942
12:58	24.953	25.007	24.921	24.941
12:59	24.954	25.007	24.922	24.944
13:00	24.951	25.006	24.919	24.941
13:01	24.956	25.009	24.922	24.942
13:02	24.956	25.01	24.924	24.944
13:03	24.956	25.009	24.922	24.942
13:04	24.954	25.007	24.922	24.942
13:05	24.956	25.007	24.922	24.942
13:06	24.951	25.006	24.922	24.941
13:07	25.286	25.304	25.265	25.254
13:08	25.771	25.793	25.74	25.737
13:09	25.966	26.016	25.933	25.945
13:10	25.911	25.966	25.878	25.898
13:11	25.933	25.983	25.898	25.917
13:12	25.949	26.001	25.914	25.934
13:13	25.956	26.009	25.922	25.94
13:14	25.96	26.012	25.927	25.945
13:15	25.962	26.013	25.928	25.946
13:16	25.96	26.012	25.927	25.945
13:17	25.956	26.007	25.922	25.94
13:18	26.147	26.146	26.082	26.091
13:19	27.078	27.117	27.008	27.015
13:20	28.017	28.003	27.949	27.943
13:21	28.939	28.951	28.855	28.874
13:22	29.652	29.69	29.58	29.591
13:23	29.938	29.982	29.895	29.905
13:24	29.997	30.048	29.958	29.974
13:25	29.977	30.029	29.936	29.955
13:26	29.961	30.015	29.922	29.941
13:27	29.958	30.008	29.917	29.934
13:28	29.956	30.007	29.917	29.934
13:29	29.958	30.008	29.919	29.936
13:30	29.958	30.008	29.919	29.934
13:31	29.958	30.008	29.919	29.936
13:32	29.956	30.007	29.919	29.934
13:33	29.956	30.007	29.917	29.934

Time	T1	T2	T3	T4
13:34	29.955	30.005	29.916	29.933
13:35	29.956	30.007	29.919	29.934
13:36	29.956	30.007	29.917	29.934
13:37	29.958	30.008	29.919	29.936
13:38	29.96	30.01	29.92	29.938
13:39	29.958	30.008	29.919	29.936
13:40	29.989	30.019	29.936	29.958
13:41	30.816	30.844	30.752	30.741
13:42	31.757	31.737	31.69	31.689
13:43	32.707	32.702	32.629	32.646
13:44	33.619	33.587	33.567	33.564
13:45	34.441	34.42	34.352	34.38
13:46	34.865	34.901	34.805	34.825
13:47	34.987	35.032	34.939	34.957
13:48	34.984	35.032	34.939	34.956
13:49	34.969	35.017	34.924	34.941
13:50	34.957	35.006	34.913	34.929
13:51	34.959	35.007	34.913	34.929
13:52	34.959	35.007	34.914	34.931
13:53	34.957	35.004	34.911	34.928
13:54	34.961	35.009	34.914	34.931
13:55	34.961	35.009	34.916	34.933
13:56	34.959	35.007	34.913	34.929
13:57	34.962	35.009	34.916	34.933
13:58	34.961	35.009	34.914	34.933
13:59	34.961	35.009	34.916	34.933
14:00	34.961	35.009	34.916	34.933
14:01	34.961	35.009	34.914	34.933
14:02	34.962	35.011	34.916	34.933
14:03	34.962	35.011	34.918	34.934
14:04	34.966	35.014	34.919	34.936
14:05	34.962	35.011	34.918	34.934
14:06	35.009	35.009	34.914	34.931
14:07	35.009	35.009	34.916	34.933
14:08	35.009	35.009	34.914	34.931
14:09	35.094	35.165	35.037	35.064
14:10	36.022	36.047	35.909	35.95
14:11	36.952	36.952	36.846	36.892
14:12	37.939	37.909	37.83	37.837
14:13	38.852	38.873	38.756	38.765
14:14	39.587	39.61	39.506	39.52
14:15	39.921	39.964	39.866	39.886
14:16	39.987	40.036	39.937	39.959
14:17	39.977	40.027	39.929	39.948
14:18	39.962	40.012	39.913	39.934
14:19	39.957	40.007	39.909	39.929
14:20	39.953	40.002	39.905	39.925
14:21	39.955	40.005	39.907	39.927
14:22	39.957	40.007	39.909	39.929
14:23	39.957	40.007	39.907	39.929
14:24	39.959	40.009	39.911	39.93
14:25	39.961	40.009	39.911	39.932
14:26	39.959	40.007	39.909	39.93
14:27	39.959	40.009	39.909	39.93
14:28	39.959	40.009	39.909	39.93
14:29	39.957	40.007	39.909	39.929
14:30	39.953	40.002	39.904	39.925
14:31	33.154	33.3	33.264	33.229
14:32	30.051	30.411	30.21	30.607
14:33	29.003	31.138	29.271	29.712

D. Temperature from core to outer surface- No plates in Bulb incubator

Time	Core, T1	Inner air, T2	Inner wall, T3	Outer wall, T4
8:41	30.53	30.11	29.419	29.198
8:42	30.836	30.048	29.641	29.209
8:43	31.273	30.167	29.914	29.191
8:44	31.821	30.443	30.273	29.166
8:45	32.36	30.816	30.684	29.14
8:46	32.974	31.23	31.125	29.124
8:47	33.577	31.673	31.577	29.106
8:48	34.12	32.118	32.033	29.081
8:49	34.694	32.554	32.492	29.015
8:50	35.185	32.979	32.941	28.981
8:51	35.604	33.404	33.399	28.979
8:52	36.13	33.793	33.829	28.981
8:53	36.51	34.189	34.249	28.992
8:54	36.945	34.549	34.649	29
8:55	37.34	34.916	35.032	29.017
8:56	37.692	35.267	35.415	29.031
8:57	38.157	35.606	35.78	29.051
8:58	38.492	35.943	36.136	29.067
8:59	38.854	36.263	36.479	29.087
9:00	39.192	36.584	36.819	29.107
9:01	39.534	36.89	37.153	29.132
9:02	39.802	37.194	37.472	29.152
9:03	40.127	37.506	37.781	29.166
9:04	40.377	37.814	38.101	29.196
9:05	40.683	38.1	38.414	29.233
9:06	41.112	38.395	38.716	29.28
9:07	41.345	38.684	39.012	29.321
9:08	41.643	38.965	39.311	29.347
9:09	41.989	39.257	39.6	29.369
9:10	42.227	39.52	39.888	29.39
9:11	42.488	39.799	40.17	29.408
9:12	42.79	40.055	40.44	29.435
9:13	43.081	40.304	40.718	29.465
9:14	43.354	40.599	40.992	29.486
9:15	43.672	40.858	41.252	29.502
9:16	43.993	41.023	41.13	29.516
9:17	44.165	41.196	40.678	29.546
9:18	43.942	40.745	40.273	29.572
9:19	42.344	39.929	39.501	29.571
9:20	40.851	38.325	38.646	29.615
9:21	40.464	38.027	38.308	29.646
9:22	40.338	37.875	38.087	29.665
9:23	40.288	37.764	37.927	29.676
9:24	40.229	37.669	37.795	29.687
9:25	40.143	37.58	37.682	29.695
9:26	40.027	37.499	37.578	29.698
9:27	39.893	37.422	37.482	29.71
9:28	39.747	37.346	37.389	29.704
9:29	39.596	37.273	37.302	29.707
9:30	39.446	37.199	37.216	29.709
9:31	39.301	37.126	37.134	29.713
9:32	39.162	37.049	37.054	29.71
9:33	39.028	36.972	36.977	29.713
9:34	38.9	36.897	36.901	29.724
9:35	38.777	36.821	36.824	29.729
9:36	38.658	36.744	36.751	29.727
9:37	38.543	36.668	36.678	29.723
9:38	38.433	36.591	36.606	29.727
9:39	38.327	36.518	36.537	29.724
9:40	38.224	36.447	36.467	29.723
9:41	38.122	36.378	36.4	29.718
9:42	38.016	36.309	36.332	29.715
9:43	37.911	36.239	36.265	29.709
9:44	37.809	36.172	36.197	29.71
9:45	37.707	36.106	36.131	29.715
9:46	37.611	36.042	36.066	29.712
9:47	37.516	35.978	36.002	29.717
9:48	37.425	35.914	35.938	29.712
9:49	37.338	35.854	35.876	29.706
9:50	37.251	35.792	35.813	29.685
9:51	37.167	35.733	35.753	29.671
9:52	37.086	35.674	35.693	29.673
9:53	37.006	35.616	35.632	29.676
9:54	36.928	35.559	35.574	29.682
9:55	36.851	35.504	35.517	29.684
9:56	36.776	35.449	35.459	29.677
9:57	36.702	35.393	35.403	29.679
9:58	36.63	35.34	35.347	29.682
9:59	36.559	35.287	35.293	29.674
10:00	36.574	35.459	35.457	29.674
10:01	36.735	35.778	35.787	29.682
10:02	36.969	36.118	36.15	29.688
10:03	37.322	36.486	36.566	29.698
10:04	37.692	36.727	36.855	29.704
10:05	38.03	36.584	36.724	29.707
10:06	38.301	36.562	36.668	29.709
10:07	38.498	36.554	36.623	29.715
10:08	38.601	36.535	36.571	29.72
10:09	38.618	36.498	36.512	29.723
10:10	38.573	36.449	36.449	29.724
10:11	38.482	36.39	36.381	29.724
10:12	38.362	36.325	36.312	29.726
10:13	38.224	36.256	36.243	29.732
10:14	38.081	36.185	36.17	29.732
10:15	37.935	36.114	36.099	29.734
10:16	37.792	36.042	36.029	29.737
10:17	37.654	35.971	35.956	29.732
10:18	37.523	35.902	35.886	29.734
10:19	37.398	35.835	35.815	29.717
10:20	37.28	35.768	35.746	29.71
10:21	37.168	35.706	35.679	29.682
10:22	37.063	35.644	35.612	29.666
10:23	36.964	35.586	35.549	29.655
10:24	36.87	35.527	35.487	29.652
10:25	36.78	35.47	35.427	29.643
10:26	36.696	35.415	35.368	29.641
10:27	36.617	35.358	35.312	29.643
10:28	36.644	35.544	35.514	29.643
10:29	36.781	35.835	35.832	29.649
10:30	37.016	36.167	36.197	29.66
10:31	37.341	36.537	36.606	29.67
10:32	37.695	36.51	36.617	29.673
10:33	37.98	36.449	36.545	29.68
10:34	38.218	36.439	36.506	29.687
10:35	38.372	36.427	36.467	29.695
10:36	38.435	36.403	36.42	29.712
10:37	38.424	36.363	36.364	29.72
10:38	38.36	36.314	36.303	29.732
10:39	38.256	36.254	36.239	29.742
10:40	38.131	36.19	36.172	29.738
10:41	37.992	36.123	36.104	29.749
10:42	37.851	36.054	36.035	29.745
10:43	37.709	35.985	35.965	29.748

10:44	37.571	35.916	35.896	29.751
10:45	37.437	35.847	35.827	29.759
10:46	37.31	35.78	35.758	29.765
10:47	37.191	35.713	35.691	29.768
10:48	37.076	35.649	35.624	29.781
10:49	36.967	35.586	35.557	29.792
10:50	36.865	35.525	35.494	29.782
10:51	36.766	35.465	35.43	29.773
10:52	36.674	35.408	35.368	29.774
10:53	36.586	35.353	35.308	29.789
10:54	36.501	35.298	35.25	29.8
10:55	36.422	35.245	35.192	29.801
10:56	36.369	35.24	35.188	29.803
10:57	36.491	35.532	35.509	29.79
10:58	36.695	35.835	35.84	29.801
10:59	37.022	36.182	36.227	29.817
11:00	37.374	36.567	36.656	29.829
11:01	37.766	36.642	36.773	29.848
11:02	38.077	36.559	36.688	29.869
11:03	38.343	36.554	36.649	29.875
11:04	38.52	36.549	36.612	29.88
11:05	38.602	36.528	36.564	29.897
11:06	38.602	36.493	36.51	29.898
11:07	38.539	36.444	36.447	29.913
11:08	38.437	36.386	36.383	29.931
11:09	38.306	36.32	36.315	29.95
11:10	38.164	36.253	36.244	29.969
11:11	38.015	36.182	36.175	29.983
11:12	37.866	36.111	36.103	29.993
11:13	37.721	36.039	36.032	29.986
11:14	37.582	35.968	35.961	29.991
11:15	37.448	35.899	35.891	29.971
11:16	37.322	35.832	35.822	29.96
11:17	37.203	35.767	35.753	29.963
11:18	37.088	35.701	35.686	29.958
11:19	36.982	35.639	35.621	29.927
11:20	36.88	35.577	35.556	29.905
11:21	36.783	35.517	35.492	29.897
11:22	36.69	35.46	35.43	29.9
11:23	36.601	35.403	35.368	29.909
11:24	36.518	35.348	35.31	29.911
11:25	36.437	35.297	35.253	29.919
11:26	36.361	35.245	35.197	29.933
11:27	36.287	35.195	35.144	29.952
11:28	36.3	35.3	35.26	29.971
11:29	36.473	35.581	35.557	29.991
11:30	36.708	35.894	35.908	30.01
11:31	37.022	36.261	36.309	30.021
11:32	37.484	36.652	36.741	30.04
11:33	37.814	36.513	36.637	30.065
11:34	38.1	36.486	36.586	30.084
11:35	38.329	36.488	36.556	30.096
11:36	38.466	36.481	36.518	30.115
11:37	38.512	36.456	36.473	30.126
11:38	38.485	36.417	36.418	30.14
11:39	38.405	36.368	36.361	30.151
11:40	38.292	36.309	36.298	30.159
11:41	38.159	36.246	36.233	30.167
11:42	38.015	36.179	36.167	30.173
11:43	37.869	36.111	36.099	30.184
11:44	37.725	36.042	36.032	30.192
11:45	37.583	35.975	35.965	30.202
11:46	37.449	35.908	35.897	30.203
11:47	37.322	35.842	35.83	30.192
11:48	37.203	35.778	35.765	30.195
11:49	37.088	35.716	35.699	30.195
11:50	36.981	35.656	35.636	30.178
11:51	36.878	35.597	35.574	30.18
11:52	36.781	35.54	35.512	30.18
11:53	36.69	35.485	35.454	30.18
11:54	36.601	35.432	35.395	30.175
11:55	36.518	35.38	35.338	30.177
11:56	36.439	35.328	35.283	30.151
11:57	36.361	35.278	35.23	30.115
11:58	36.287	35.227	35.177	30.098
11:59	36.29	35.313	35.273	30.096
12:00	36.442	35.577	35.564	30.084
12:01	36.679	35.884	35.902	30.085
12:02	37.011	36.238	36.3	30.079
12:03	37.441	36.632	36.73	30.073
12:04	37.766	36.493	36.617	30.076
12:05	38.056	36.473	36.569	30.082
12:06	38.285	36.478	36.54	30.095
12:07	38.423	36.473	36.506	30.112
12:08	38.471	36.451	36.462	30.126
12:09	38.445	36.413	36.412	30.128
12:10	38.369	36.364	36.354	30.131
12:11	38.256	36.307	36.293	30.136
12:12	38.124	36.246	36.229	30.154
12:13	37.98	36.18	36.163	30.172
12:14	37.837	36.113	36.096	30.177
12:15	37.694	36.045	36.03	30.173
12:16	37.554	35.978	35.963	30.181
12:17	37.422	35.913	35.896	30.172
12:18	37.295	35.847	35.829	30.164
12:19	37.175	35.782	35.763	30.142
12:20	37.061	35.72	35.698	30.134
12:21	36.953	35.658	35.632	30.14
12:22	36.851	35.597	35.571	30.153
12:23	36.754	35.539	35.509	30.154
12:24	36.661	35.482	35.449	30.151
12:25	36.573	35.427	35.39	30.173
12:26	36.486	35.372	35.332	30.169
12:27	36.403	35.317	35.275	30.165
12:28	36.324	35.263	35.218	30.172
12:29	36.248	35.212	35.163	30.151
12:30	36.238	35.265	35.225	30.137
12:31	36.407	35.527	35.515	30.136
12:32	36.623	35.832	35.849	30.154
12:33	36.94	36.189	36.251	30.162
12:34	37.37	36.574	36.683	30.183
12:35	37.733	36.574	36.715	30.184
12:36	38.041	36.53	36.647	30.191
12:37	38.297	36.535	36.615	30.189
12:38	38.463	36.534	36.581	30.186
12:39	38.534	36.517	36.54	30.194
12:40	38.525	36.483	36.489	30.199
12:41	38.458	36.435	36.432	30.221
12:42	38.35	36.379	36.371	30.232
12:43	38.218	36.317	36.305	30.232
12:44	38.074	36.249	36.238	30.252
12:45	37.925	36.18	36.168	30.254
12:46	37.778	36.111	36.101	30.263
12:47	37.637	36.042	36.032	30.28
12:48	37.499	35.973	35.963	30.306
12:49	37.37	35.908	35.896	30.326
12:50	37.247	35.844	35.83	30.343
12:51	37.131	35.782	35.767	30.362

12:52	37.02	35.721	35.703	30.373
12:53	36.916	35.663	35.641	30.384
12:54	36.817	35.606	35.579	30.388
12:55	36.724	35.549	35.519	30.395
12:56	36.634	35.492	35.459	30.391
12:57	36.547	35.439	35.4	30.384
12:58	36.464	35.383	35.343	30.394
12:59	36.385	35.332	35.287	30.399
13:00	36.309	35.282	35.233	30.421
13:01	36.236	35.233	35.182	30.432
13:02	36.165	35.187	35.13	30.447
13:03	36.152	35.223	35.175	30.447
13:04	36.322	35.477	35.467	30.446
13:05	36.569	35.778	35.807	30.457
13:06	36.889	36.138	36.197	30.452
13:07	37.259	36.513	36.634	30.462
13:08	37.663	36.547	36.693	30.463
13:09	37.97	36.506	36.623	30.447
13:10	38.233	36.515	36.593	30.441
13:11	38.407	36.518	36.564	30.433
13:12	38.487	36.505	36.525	30.435
13:13	38.484	36.473	36.478	30.422
13:14	38.423	36.429	36.425	30.435
13:15	38.32	36.378	36.366	30.452
13:16	38.195	36.32	36.305	30.471
13:17	38.056	36.258	36.243	30.487
13:18	37.913	36.195	36.18	30.492
13:19	37.771	36.131	36.116	30.484
13:20	37.632	36.067	36.05	30.509
13:21	37.497	36.003	35.987	30.52
13:22	37.37	35.939	35.921	30.53
13:23	37.249	35.877	35.857	30.517
13:24	37.133	35.815	35.793	30.542
13:25	37.023	35.753	35.73	30.563
13:26	36.919	35.694	35.668	30.572
13:27	36.821	35.637	35.609	30.58
13:28	36.729	35.582	35.549	30.564
13:29	36.639	35.527	35.492	30.552
13:30	36.554	35.474	35.435	30.534
13:31	36.473	35.422	35.378	30.492
13:32	36.395	35.372	35.325	30.466
13:33	36.319	35.322	35.272	30.474
13:34	36.248	35.275	35.22	30.495
13:35	36.179	35.228	35.17	30.503
13:36	36.111	35.185	35.122	30.493
13:37	36.266	35.437	35.407	30.509
13:38	36.473	35.711	35.72	30.528
13:39	36.776	36.042	36.103	30.536
13:40	37.119	36.417	36.534	30.544
13:41	37.527	36.562	36.717	30.585
13:42	37.863	36.496	36.625	30.621
13:43	38.148	36.508	36.593	30.661
13:44	38.35	36.52	36.567	30.676
13:45	38.452	36.515	36.534	30.688
13:46	38.47	36.491	36.491	30.71
13:47	38.423	36.454	36.442	30.71
13:48	38.332	36.407	36.386	30.727
13:49	38.212	36.352	36.329	30.724
13:50	38.079	36.292	36.268	30.722
13:51	37.937	36.231	36.206	30.716
13:52	37.795	36.167	36.143	30.7
13:53	37.656	36.104	36.081	30.721
13:54	37.523	36.042	36.019	30.741
13:55	37.396	35.98	35.956	30.754
13:56	37.276	35.921	35.896	30.776
13:57	37.162	35.862	35.835	30.794
13:58	37.054	35.805	35.777	30.782
13:59	36.953	35.751	35.72	30.768
14:00	36.856	35.696	35.661	30.76
14:01	36.764	35.641	35.604	30.757
14:02	36.676	35.589	35.549	30.771
14:03	36.593	35.537	35.494	30.751
14:04	36.512	35.487	35.44	30.748
14:05	36.435	35.439	35.388	30.738
14:06	36.361	35.392	35.338	30.725
14:07	36.292	35.345	35.288	30.724
14:08	36.222	35.3	35.24	30.722
14:09	36.157	35.257	35.192	30.743
14:10	36.29	35.475	35.447	30.762
14:11	36.496	35.746	35.756	30.784
14:12	36.781	36.084	36.135	30.801
14:13	37.192	36.445	36.559	30.82
14:14	37.583	36.688	36.844	30.828
14:15	37.914	36.593	36.73	30.851
14:16	38.204	36.601	36.693	30.871
14:17	38.416	36.615	36.669	30.895
14:18	38.532	36.613	36.639	30.923
14:19	38.562	36.593	36.598	30.931
14:20	38.524	36.559	36.549	30.933
14:21	38.437	36.513	36.496	30.931
14:22	38.322	36.461	36.44	30.915
14:23	38.188	36.403	36.381	30.9
14:24	38.048	36.344	36.32	30.901
14:25	37.908	36.283	36.26	30.928
14:26	37.769	36.221	36.199	30.944
14:27	37.635	36.16	36.138	30.952
14:28	37.509	36.101	36.077	30.973
14:29	37.388	36.042	36.017	31.006
14:30	37.275	35.985	35.958	31.025
14:31	37.168	35.929	35.899	31.047
14:32	37.066	35.876	35.842	31.061
14:33	36.97	35.824	35.787	31.079
14:34	36.878	35.772	35.731	31.104
14:35	36.793	35.723	35.678	31.13
14:36	36.712	35.676	35.626	31.122
14:37	36.634	35.629	35.576	31.071
14:38	36.559	35.581	35.525	31.033
14:39	36.486	35.532	35.477	31.025
14:40	36.415	35.484	35.429	31.022
14:41	36.347	35.437	35.38	31.015
14:42	36.28	35.392	35.335	31.02
14:43	36.217	35.35	35.292	31.05
14:44	36.157	35.308	35.248	31.061
14:45	36.096	35.268	35.207	31.077
14:46	36.039	35.23	35.167	31.103
14:47	35.983	35.192	35.127	31.092
14:48	35.958	35.183	35.125	31.092
14:49	36.126	35.415	35.398	31.066
14:50	36.358	35.681	35.706	31.025
14:51	36.693	36.015	36.081	31.007
14:52	37.066	36.383	36.508	30.961
14:53	37.434	36.679	36.861	30.922
14:54	37.816	36.571	36.722	30.914
14:55	38.126	36.579	36.681	30.887
14:56	38.353	36.596	36.656	30.904
14:57	38.48	36.598	36.625	30.914
14:58	38.519	36.579	36.584	30.909
14:59	38.487	36.545	36.537	30.919

15:00	38.404	36.501	36.484	30.982
15:01	38.29	36.451	36.429	31.022
15:02	38.159	36.393	36.369	31.05
15:03	38.02	36.334	36.31	31.042
15:04	37.876	36.271	36.248	31.045
15:05	37.737	36.207	36.185	31.061
15:06	37.602	36.147	36.125	31.076
15:07	37.475	36.088	36.062	31.05
15:08	37.353	36.027	36.002	30.96
15:09	37.239	35.97	35.943	30.961
15:10	37.129	35.914	35.884	30.939
15:11	37.028	35.86	35.825	30.858
15:12	36.931	35.807	35.768	30.846
15:13	36.839	35.753	35.713	30.813
15:14	36.752	35.703	35.656	30.817
15:15	36.669	35.653	35.602	30.79
15:16	36.589	35.604	35.549	30.827
15:17	36.513	35.557	35.497	30.873
15:18	36.442	35.512	35.445	30.857
15:19	36.373	35.465	35.395	30.873
15:20	36.305	35.422	35.345	30.909
15:21	36.241	35.378	35.297	30.942
15:22	36.177	35.335	35.25	30.996
15:23	36.116	35.295	35.203	30.992
15:24	36.057	35.255	35.158	30.963
15:25	36.226	35.48	35.434	31.003
15:26	36.452	35.745	35.753	31.036
15:27	36.744	36.077	36.141	31.057
15:28	37.177	36.459	36.579	31.042
15:29	37.527	36.456	36.584	31.019
15:30	37.825	36.44	36.527	31.004
15:31	38.079	36.462	36.503	30.957
15:32	38.247	36.473	36.483	30.99
15:33	38.323	36.466	36.454	30.952
15:34	38.325	36.444	36.417	30.973
15:35	38.27	36.41	36.373	30.955
15:36	38.178	36.368	36.324	30.971
15:37	38.061	36.32	36.273	30.971
15:38	37.933	36.27	36.219	30.928
15:39	37.8	36.214	36.163	30.919
15:40	37.668	36.158	36.106	30.843
15:41	37.539	36.099	36.049	30.797
15:42	37.413	36.042	35.99	30.765
15:43	37.293	35.985	35.933	30.765
15:44	37.182	35.929	35.876	30.725
15:45	37.076	35.876	35.819	30.689
15:46	36.975	35.822	35.761	30.629
15:47	36.88	35.77	35.706	30.547
15:48	36.79	35.718	35.651	30.507
15:49	36.705	35.666	35.596	30.454
15:50	36.623	35.617	35.54	30.443
15:51	36.545	35.569	35.487	30.455
15:52	36.473	35.522	35.435	30.473
15:53	36.401	35.475	35.383	30.484
15:54	36.334	35.432	35.333	30.46
15:55	36.268	35.387	35.283	30.509
15:56	36.206	35.345	35.235	30.488
15:57	36.145	35.302	35.188	30.47
15:58	36.086	35.26	35.142	30.492
15:59	36.027	35.218	35.095	30.498
16:00	36.022	35.24	35.127	30.418
16:01	36.219	35.479	35.429	30.383
16:02	36.469	35.756	35.777	30.378
16:03	36.805	36.104	36.184	30.389

16:04	37.148	36.486	36.625	30.31
16:05	37.611	36.588	36.758	30.279
16:06	37.927	36.54	36.666	30.258
16:07	38.204	36.559	36.63	30.18
16:08	38.397	36.569	36.601	30.183
16:09	38.492	36.562	36.567	30.21
16:10	38.506	36.539	36.523	30.186
16:11	38.456	36.501	36.473	30.192
16:12	38.363	36.454	36.415	30.153
16:13	38.244	36.401	36.356	30.173
16:14	38.11	36.344	36.293	30.18
16:15	37.971	36.283	36.231	30.129
16:16	37.832	36.221	36.165	30.17
16:17	37.694	36.157	36.101	30.183
16:18	37.561	36.094	36.035	30.197
16:19	37.436	36.032	35.971	30.225
16:20	37.317	35.973	35.908	30.271
16:21	37.206	35.914	35.844	30.282
16:22	37.1	35.857	35.783	30.255
16:23	37.001	35.802	35.721	30.203
16:24	36.906	35.746	35.661	30.217
16:25	36.815	35.691	35.602	30.258
16:26	36.73	35.639	35.545	30.225
16:27	36.649	35.587	35.489	30.239
16:28	36.569	35.537	35.434	30.228
16:29	36.495	35.487	35.378	30.221
16:30	36.423	35.439	35.325	30.246
16:31	36.354	35.39	35.273	30.277
16:32	36.287	35.345	35.223	30.287
16:33	36.222	35.3	35.173	30.328
16:34	36.16	35.255	35.127	30.32
16:35	36.138	35.263	35.145	30.274
16:36	36.314	35.507	35.469	30.233
16:37	36.54	35.79	35.82	30.225
16:38	36.844	36.131	36.234	30.217
16:39	37.245	36.522	36.686	30.26
16:40	37.64	36.651	36.841	30.326
16:41	37.975	36.589	36.737	30.321
16:42	38.266	36.606	36.696	30.277
16:43	38.47	36.617	36.664	30.309
16:44	38.573	36.61	36.629	30.339
16:45	38.59	36.586	36.583	30.365
16:46	38.543	36.549	36.53	30.372
16:47	38.451	36.501	36.474	30.356
16:48	38.332	36.447	36.413	30.365
16:49	38.197	36.388	36.351	30.277
16:50	38.056	36.325	36.287	30.255
16:51	37.914	36.261	36.221	30.265
16:52	37.775	36.197	36.155	30.288
16:53	37.642	36.135	36.091	30.317
16:54	37.516	36.074	36.027	30.249
16:55	37.396	36.013	35.963	30.302
16:56	37.283	35.955	35.901	30.321
16:57	37.175	35.896	35.839	30.345
16:58	37.074	35.84	35.778	30.361
16:59	36.979	35.787	35.72	30.375
17:00	36.887	35.735	35.661	30.384
17:01	36.802	35.683	35.604	30.337
17:02	36.718	35.631	35.549	30.34
17:03	36.64	35.581	35.494	30.356
17:04	36.564	35.532	35.44	30.383
17:05	36.493	35.485	35.388	30.386
17:06	36.422	35.439	35.337	30.373
17:07	36.354	35.392	35.287	30.321

17:08	36.29	35.347	35.237	30.302
17:09	36.226	35.302	35.188	30.25
17:10	36.163	35.258	35.14	30.284
17:11	36.104	35.215	35.094	30.28
17:12	36.045	35.173	35.049	30.222
17:13	36.136	35.322	35.247	30.243
17:14	36.347	35.577	35.576	30.214
17:15	36.649	35.896	35.963	30.216
17:16	36.991	36.248	36.403	30.205
17:17	37.437	36.644	36.866	30.239
17:18	37.768	36.522	36.72	30.276
17:19	38.074	36.523	36.659	30.336
17:20	38.318	36.544	36.627	30.38
17:21	38.466	36.55	36.595	30.432
17:22	38.524	36.539	36.554	30.454
17:23	38.506	36.51	36.506	30.43
17:24	38.435	36.469	36.452	30.436
17:25	38.329	36.42	36.395	30.47
17:26	38.204	36.366	36.334	30.452
17:27	38.067	36.309	36.273	30.443
17:28	37.927	36.249	36.211	30.484
17:29	37.788	36.189	36.148	30.488
17:30	37.654	36.128	36.086	30.466
17:31	37.527	36.069	36.024	30.408
17:32	37.406	36.01	35.963	30.43
17:33	37.292	35.953	35.902	30.463
17:34	37.184	35.896	35.842	30.49
17:35	37.081	35.842	35.785	30.498
17:36	36.984	35.788	35.726	30.446
17:37	36.894	35.736	35.671	30.384
17:38	36.805	35.683	35.614	30.329
17:39	36.722	35.632	35.559	30.34
17:40	36.642	35.582	35.505	30.35
17:41	36.567	35.534	35.452	30.336
17:42	36.495	35.487	35.4	30.288
17:43	36.423	35.442	35.35	30.246
17:44	36.356	35.395	35.3	30.258
17:45	36.292	35.35	35.25	30.199
17:46	36.229	35.307	35.203	30.154
17:47	36.168	35.263	35.155	30.15
17:48	36.108	35.22	35.109	30.159
17:49	36.231	35.413	35.363	30.14
17:50	36.447	35.676	35.699	30.178
17:51	36.764	36.003	36.103	30.145
17:52	37.098	36.371	36.547	30.161
17:53	37.509	36.542	36.754	30.177
17:54	37.832	36.478	36.639	30.172
17:55	38.119	36.495	36.598	30.175
17:56	38.323	36.51	36.567	30.192
17:57	38.433	36.508	36.534	30.249
17:58	38.459	36.488	36.491	30.208
17:59	38.419	36.456	36.442	30.23
18:00	38.336	36.412	36.388	30.273
18:01	38.223	36.363	36.33	30.317
18:02	38.094	36.309	36.27	30.304
18:03	37.959	36.249	36.209	30.295
18:04	37.823	36.19	36.147	30.274
18:05	37.69	36.13	36.084	30.233
18:06	37.561	36.071	36.022	30.239
18:07	37.437	36.01	35.96	30.28
18:08	37.321	35.953	35.899	30.304
18:09	37.209	35.896	35.839	30.354
18:10	37.107	35.84	35.78	30.388
18:11	37.008	35.787	35.723	30.422
18:12	36.914	35.735	35.666	30.41
18:13	36.826	35.683	35.611	30.443
18:14	36.742	35.632	35.556	30.476
18:15	36.661	35.584	35.502	30.506
18:16	36.584	35.535	35.45	30.47
18:17	36.512	35.489	35.398	30.465
18:18	36.44	35.444	35.348	30.468
18:19	36.373	35.398	35.3	30.454
18:20	36.307	35.353	35.253	30.392
18:21	36.243	35.31	35.205	30.422
18:22	36.18	35.268	35.16	30.449
18:23	36.182	35.31	35.223	30.473
18:24	36.361	35.559	35.55	30.476
18:25	36.61	35.852	35.918	30.447
18:26	36.957	36.2	36.344	30.436
18:27	37.358	36.591	36.807	30.471
18:28	37.697	36.528	36.739	30.514
18:29	38.011	36.52	36.669	30.463
18:30	38.266	36.54	36.635	30.487
18:31	38.43	36.549	36.605	30.526
18:32	38.501	36.54	36.567	30.563
18:33	38.496	36.515	36.523	30.481
18:34	38.433	36.478	36.471	30.503
18:35	38.336	36.432	36.417	30.541
18:36	38.214	36.381	36.359	30.563
18:37	38.082	36.325	36.3	30.58
18:38	37.947	36.268	36.239	30.596
18:39	37.813	36.211	36.179	30.618
18:40	37.682	36.152	36.118	30.632
18:41	37.556	36.093	36.057	30.645
18:42	37.437	36.035	35.998	30.618
18:43	37.324	35.98	35.939	30.616
18:44	37.216	35.924	35.881	30.642
18:45	37.115	35.872	35.824	30.665
18:46	37.018	35.819	35.768	30.681
18:47	36.928	35.768	35.713	30.664
18:48	36.843	35.72	35.659	30.667
18:49	36.761	35.671	35.607	30.645
18:50	36.683	35.622	35.556	30.585
18:51	36.608	35.576	35.505	30.591
18:52	36.535	35.53	35.455	30.574
18:53	36.466	35.485	35.407	30.59
18:54	36.4	35.442	35.36	30.503
18:55	36.336	35.398	35.313	30.531
18:56	36.273	35.355	35.267	30.493
18:57	36.212	35.313	35.222	30.514
18:58	36.167	35.282	35.19	30.49
18:59	36.349	35.539	35.524	30.462
19:00	36.44	35.465	35.455	30.441
19:01	36.522	35.429	35.4	30.425
19:02	36.595	35.408	35.363	30.4
19:03	36.64	35.39	35.332	30.413
19:04	36.656	35.37	35.3	30.43
19:05	36.642	35.347	35.268	30.416
19:06	36.606	35.32	35.233	30.432
19:07	36.564	35.305	35.222	30.441
19:08	36.574	35.345	35.298	30.471
19:09	36.55	35.327	35.283	30.493
19:10	36.674	35.619	35.676	30.496
19:11	36.887	35.928	36.062	30.53
19:12	37.172	36.276	36.489	30.547
19:13	37.52	36.659	36.938	30.567
19:14	37.856	36.603	36.872	30.596
19:15	38.148	36.589	36.79	30.601

19:16	38.391	36.605	36.749	30.624
19:17	38.548	36.612	36.712	30.607
19:18	38.613	36.601	36.668	30.631
19:19	38.604	36.576	36.617	30.661
19:20	38.539	36.539	36.561	30.699
19:21	38.438	36.493	36.501	30.741
19:22	38.315	36.44	36.442	30.787
19:23	38.181	36.385	36.379	30.83
19:24	38.044	36.327	36.317	30.874
19:25	37.908	36.27	36.254	30.912
19:26	37.775	36.211	36.194	30.947
19:27	37.647	36.153	36.133	30.984
19:28	37.527	36.096	36.072	31.02
19:29	37.412	36.04	36.013	31.057
19:30	37.304	35.987	35.956	31.095
19:31	37.201	35.934	35.899	31.125
19:32	37.103	35.884	35.845	31.153
19:33	37.013	35.834	35.792	31.176
19:34	36.924	35.787	35.74	31.201
19:35	36.843	35.74	35.689	31.222
19:36	36.763	35.693	35.641	31.238
19:37	36.688	35.649	35.594	31.257
19:38	36.617	35.606	35.547	31.271
19:39	36.547	35.564	35.504	31.279
19:40	36.481	35.522	35.46	31.281
19:41	36.417	35.482	35.417	31.273
19:42	36.354	35.444	35.377	31.276
19:43	36.295	35.405	35.337	31.26
19:44	36.238	35.367	35.297	31.26
19:45	36.182	35.33	35.258	31.262
19:46	36.128	35.293	35.222	31.262
19:47	36.074	35.258	35.183	31.269
19:48	36.024	35.223	35.149	31.285
19:49	35.975	35.19	35.114	31.308
19:50	35.926	35.157	35.079	31.336
19:51	36.094	35.373	35.362	31.368
19:52	36.336	35.649	35.706	31.382
19:53	36.664	35.978	36.118	31.403
19:54	37.027	36.358	36.576	31.414
19:55	37.441	36.63	36.911	31.422
19:56	37.806	36.545	36.763	31.433
19:57	38.117	36.566	36.717	31.429
19:58	38.348	36.589	36.691	31.416
19:59	38.482	36.598	36.662	31.406
20:00	38.525	36.588	36.627	31.406
20:01	38.501	36.564	36.584	31.389
20:02	38.43	36.528	36.537	31.39
20:03	38.325	36.486	36.486	31.378
20:04	38.202	36.437	36.434	31.368
20:05	38.072	36.386	36.379	31.367
20:06	37.939	36.332	36.325	31.357
20:07	37.809	36.28	36.27	31.354
20:08	37.683	36.226	36.216	31.344
20:09	37.563	36.173	36.16	31.325
20:10	37.449	36.123	36.106	31.314
20:11	37.341	36.072	36.052	31.311
20:12	37.239	36.024	36	31.304
20:13	37.143	35.975	35.948	31.303
20:14	37.052	35.928	35.897	31.29
20:15	36.967	35.882	35.847	31.285
20:16	36.885	35.837	35.798	31.281
20:17	36.809	35.795	35.751	31.268
20:18	36.735	35.751	35.704	31.257
20:19	36.664	35.71	35.659	31.246
20:20	36.598	35.669	35.616	31.236
20:21	36.534	35.629	35.572	31.227
20:22	36.473	35.589	35.53	31.209
20:23	36.413	35.549	35.489	31.201
20:24	36.356	35.51	35.447	31.18
20:25	36.302	35.472	35.407	31.169
20:26	36.248	35.435	35.367	31.16
20:27	36.197	35.397	35.328	31.146
20:28	36.147	35.36	35.29	31.126
20:29	36.098	35.323	35.252	31.112
20:30	36.05	35.287	35.213	31.104
20:31	36.005	35.25	35.177	31.087
20:32	36.045	35.313	35.265	31.072
20:33	36.254	35.552	35.569	31.072
20:34	36.527	35.847	35.945	31.069
20:35	36.873	36.199	36.379	31.066
20:36	37.273	36.591	36.849	31.063
20:37	37.668	36.534	36.768	31.072
20:38	37.977	36.535	36.7	31.061
20:39	38.233	36.561	36.669	31.052
20:40	38.398	36.574	36.642	31.044
20:41	38.473	36.571	36.606	31.039
20:42	38.471	36.55	36.564	31.041
20:43	38.416	36.518	36.517	31.044
20:44	38.322	36.478	36.466	31.033
20:45	38.207	36.43	36.412	31.033
20:46	38.081	36.379	36.358	31.036
20:47	37.951	36.325	36.3	31.031
20:48	37.819	36.271	36.244	31.028
20:49	37.694	36.217	36.189	31.015
20:50	37.573	36.163	36.131	31.02
20:51	37.458	36.111	36.076	31.019
20:52	37.348	36.059	36.02	31.009
20:53	37.245	36.007	35.966	31.003
20:54	37.148	35.958	35.913	30.999
20:55	37.056	35.909	35.86	30.998
20:56	36.967	35.86	35.808	30.992
20:57	36.885	35.815	35.76	30.992
20:58	36.807	35.768	35.71	30.973
20:59	36.732	35.725	35.663	30.969
21:00	36.661	35.679	35.616	30.96
21:01	36.593	35.637	35.571	30.95
21:02	36.527	35.594	35.525	30.947
21:03	36.464	35.552	35.48	30.936
21:04	36.405	35.512	35.439	30.931
21:05	36.347	35.472	35.395	30.931
21:06	36.292	35.432	35.353	30.923
21:07	36.239	35.392	35.313	30.908
21:08	36.187	35.353	35.273	30.908
21:09	36.138	35.315	35.233	30.901
21:10	36.089	35.277	35.193	30.865
21:11	36.042	35.238	35.155	30.838
21:12	36.177	35.417	35.395	30.784
21:13	36.412	35.674	35.73	30.757
21:14	36.7	35.998	36.133	30.732
21:15	37.119	36.373	36.595	30.707
21:16	37.535	36.584	36.861	30.675
21:17	37.838	36.512	36.727	30.648
21:18	38.12	36.532	36.679	30.605
21:19	38.33	36.552	36.649	30.572
21:20	38.451	36.557	36.615	30.545
21:21	38.485	36.544	36.573	30.512
21:22	38.454	36.515	36.523	30.474
21:23	38.377	36.476	36.471	30.451

21:24	38.273	36.43	36.415	30.425
21:25	38.15	36.378	36.356	30.416
21:26	38.02	36.322	36.297	30.392
21:27	37.887	36.266	36.236	30.365
21:28	37.757	36.209	36.175	30.367
21:29	37.632	36.152	36.114	30.373
21:30	37.511	36.094	36.054	30.373
21:31	37.396	36.039	35.993	30.388
21:32	37.288	35.983	35.934	30.4
21:33	37.186	35.929	35.876	30.418
21:34	37.09	35.876	35.819	30.429
21:35	36.998	35.825	35.763	30.436
21:36	36.911	35.773	35.708	30.454
21:37	36.827	35.723	35.654	30.462
21:38	36.749	35.674	35.601	30.471
21:39	36.673	35.626	35.549	30.482
21:40	36.601	35.579	35.499	30.487
21:41	36.532	35.532	35.45	30.492
21:42	36.466	35.487	35.402	30.501
21:43	36.401	35.442	35.355	30.504
21:44	36.341	35.398	35.308	30.503
21:45	36.281	35.355	35.263	30.504
21:46	36.224	35.313	35.22	30.498
21:47	36.168	35.27	35.175	30.498
21:48	36.16	35.292	35.215	30.501
21:49	36.351	35.537	35.549	30.49
21:50	36.598	35.819	35.923	30.496
21:51	36.911	36.167	36.356	30.493
21:52	37.312	36.547	36.824	30.506
21:53	37.69	36.591	36.865	30.517
21:54	38.003	36.556	36.763	30.52
21:55	38.27	36.571	36.715	30.522
21:56	38.452	36.581	36.678	30.52
21:57	38.541	36.576	36.635	30.523
21:58	38.55	36.552	36.584	30.526
21:59	38.501	36.518	36.53	30.525
22:00	38.41	36.473	36.473	30.523
22:01	38.294	36.422	36.412	30.522
22:02	38.165	36.366	36.351	30.53
22:03	38.03	36.309	36.288	30.534
22:04	37.895	36.249	36.226	30.537
22:05	37.764	36.19	36.163	30.537
22:06	37.637	36.131	36.101	30.539
22:07	37.516	36.074	36.04	30.531
22:08	37.401	36.017	35.98	30.536
22:09	37.293	35.961	35.921	30.539
22:10	37.191	35.908	35.862	30.533
22:11	37.093	35.854	35.805	30.537
22:12	37.001	35.802	35.75	30.528
22:13	36.912	35.751	35.694	30.526
22:14	36.829	35.701	35.641	30.531
22:15	36.751	35.653	35.589	30.537
22:16	36.674	35.604	35.539	30.528
22:17	36.601	35.557	35.489	30.531
22:18	36.532	35.512	35.44	30.531
22:19	36.464	35.467	35.392	30.537
22:20	36.4	35.422	35.345	30.539
22:21	36.337	35.378	35.3	30.537
22:22	36.278	35.337	35.255	30.526
22:23	36.221	35.293	35.212	30.522
22:24	36.163	35.253	35.168	30.518
22:25	36.109	35.212	35.125	30.511
22:26	36.057	35.172	35.084	30.507
22:27	36.187	35.353	35.347	30.501
22:28	36.403	35.622	35.693	30.493
22:29	36.688	35.946	36.106	30.5
22:30	37.042	36.315	36.564	30.496
22:31	37.47	36.713	37.045	30.501
22:32	37.833	36.612	36.914	30.506
22:33	38.152	36.601	36.827	30.5
22:34	38.405	36.618	36.78	30.498
22:35	38.564	36.625	36.735	30.488
22:36	38.628	36.613	36.685	30.49
22:37	38.616	36.584	36.629	30.481
22:38	38.552	36.545	36.569	30.468
22:39	38.449	36.496	36.506	30.471
22:40	38.325	36.442	36.444	30.466
22:41	38.19	36.383	36.378	30.465
22:42	38.053	36.324	36.314	30.47
22:43	37.914	36.263	36.248	30.477
22:44	37.781	36.202	36.184	30.457
22:45	37.654	36.141	36.12	30.462
22:46	37.532	36.082	36.057	30.473
22:47	37.417	36.025	35.995	30.465
22:48	37.307	35.968	35.934	30.47
22:49	37.204	35.914	35.874	30.473
22:50	37.107	35.859	35.815	30.468
22:51	37.013	35.807	35.758	30.468
22:52	36.926	35.755	35.703	30.46
22:53	36.841	35.704	35.648	30.452
22:54	36.761	35.654	35.596	30.424
22:55	36.685	35.606	35.544	30.427
22:56	36.612	35.559	35.492	30.41
22:57	36.54	35.512	35.444	30.375
22:58	36.473	35.465	35.395	30.339
22:59	36.407	35.42	35.347	30.35
23:00	36.344	35.377	35.3	30.359
23:01	36.283	35.333	35.255	30.367
23:02	36.224	35.29	35.208	30.348
23:03	36.168	35.247	35.165	30.334
23:04	36.138	35.232	35.158	30.342
23:05	36.315	35.485	35.504	30.358
23:06	36.554	35.767	35.877	30.362
23:07	36.839	36.114	36.314	30.369
23:08	37.252	36.493	36.783	30.381
23:09	37.663	36.629	36.948	30.389
23:10	37.971	36.557	36.814	30.388
23:11	38.251	36.567	36.752	30.389
23:12	38.449	36.579	36.708	30.4
23:13	38.553	36.574	36.661	30.389
23:14	38.573	36.554	36.606	30.392
23:15	38.531	36.518	36.549	30.389
23:16	38.444	36.474	36.488	30.381
23:17	38.329	36.422	36.423	30.362
23:18	38.2	36.364	36.359	30.364
23:19	38.063	36.305	36.295	30.377
23:20	37.927	36.244	36.231	30.372
23:21	37.792	36.184	36.165	30.369
23:22	37.663	36.123	36.101	30.373
23:23	37.539	36.064	36.037	30.373
23:24	37.422	36.005	35.975	30.373
23:25	37.31	35.948	35.913	30.372
23:26	37.204	35.891	35.852	30.365
23:27	37.103	35.837	35.793	30.365
23:28	37.01	35.783	35.735	30.369
23:29	36.919	35.73	35.678	30.362
23:30	36.834	35.678	35.622	30.348
23:31	36.752	35.627	35.569	30.343

23:32	36.674	35.577	35.515	30.331
23:33	36.6	35.529	35.464	30.334
23:34	36.527	35.482	35.413	30.328
23:35	36.459	35.435	35.363	30.315
23:36	36.393	35.388	35.315	30.307
23:37	36.329	35.343	35.268	30.307
23:38	36.268	35.298	35.222	30.299
23:39	36.209	35.255	35.175	30.296
23:40	36.349	35.47	35.48	30.295
23:41	36.549	35.735	35.832	30.287
23:42	36.824	36.072	36.253	30.29
23:43	37.235	36.442	36.722	30.29
23:44	37.583	36.622	36.941	30.304
23:45	37.909	36.534	36.797	30.306
23:46	38.198	36.54	36.734	30.306
23:47	38.407	36.552	36.69	30.313
23:48	38.52	36.547	36.642	30.309
23:49	38.548	36.528	36.588	30.304
23:50	38.512	36.493	36.53	30.298
23:51	38.428	36.449	36.467	30.291
23:52	38.317	36.396	36.403	30.28
23:53	38.188	36.341	36.339	30.276
23:54	38.053	36.281	36.273	30.273
23:55	37.916	36.219	36.207	30.265
23:56	37.781	36.158	36.141	30.265
23:57	37.652	36.098	36.076	30.257
23:58	37.528	36.037	36.012	30.263
23:59	37.41	35.978	35.948	30.26
0:00	37.298	35.919	35.886	30.266
0:01	37.192	35.864	35.825	30.266
0:02	37.092	35.808	35.765	30.249
0:03	36.996	35.753	35.706	30.252
0:04	36.906	35.699	35.648	30.255
0:05	36.819	35.648	35.592	30.25
0:06	36.737	35.596	35.537	30.243
0:07	36.657	35.547	35.484	30.236
0:08	36.583	35.497	35.432	30.227
0:09	36.51	35.449	35.38	30.225
0:10	36.44	35.402	35.33	30.222
0:11	36.374	35.355	35.282	30.213
0:12	36.31	35.31	35.233	30.2
0:13	36.248	35.265	35.187	30.197
0:14	36.189	35.22	35.14	30.2
0:15	36.131	35.177	35.095	30.195
0:16	36.143	35.23	35.182	30.184
0:17	36.324	35.484	35.529	30.184
0:18	36.574	35.782	35.923	30.181
0:19	36.947	36.135	36.369	30.178
0:20	37.3	36.522	36.841	30.178
0:21	37.694	36.627	36.958	30.134
0:22	38.013	36.559	36.824	30.142
0:23	38.292	36.566	36.759	30.156
0:24	38.485	36.573	36.71	30.161
0:25	38.581	36.564	36.656	30.147
0:26	38.595	36.539	36.598	30.154
0:27	38.546	36.5	36.535	30.162
0:28	38.454	36.451	36.469	30.165
0:29	38.336	36.396	36.403	30.161
0:30	38.204	36.336	36.336	30.165
0:31	38.063	36.275	36.266	30.167
0:32	37.923	36.211	36.199	30.164
0:33	37.787	36.147	36.131	30.134
0:34	37.654	36.084	36.064	30.125
0:35	37.528	36.024	35.998	30.129
0:36	37.408	35.963	35.933	30.136
0:37	37.295	35.904	35.869	30.129
0:38	37.189	35.845	35.807	30.126
0:39	37.086	35.788	35.745	30.125
0:40	36.989	35.733	35.684	30.134
0:41	36.899	35.678	35.626	30.12
0:42	36.81	35.626	35.569	30.125
0:43	36.727	35.572	35.514	30.117
0:44	36.647	35.522	35.459	30.115
0:45	36.571	35.472	35.405	30.107
0:46	36.498	35.422	35.352	30.104
0:47	36.429	35.373	35.302	30.104
0:48	36.361	35.325	35.252	30.101
0:49	36.297	35.278	35.202	30.084
0:50	36.275	35.295	35.237	30.09
0:51	36.434	35.544	35.597	30.09
0:52	36.659	35.835	35.983	30.084
0:53	36.999	36.182	36.417	30.098
0:54	37.365	36.559	36.89	30.093
0:55	37.773	36.652	37.001	30.104
0:56	38.07	36.584	36.865	30.101
0:57	38.339	36.588	36.797	30.092
0:58	38.527	36.593	36.744	30.088
0:59	38.621	36.583	36.688	30.09
1:00	38.632	36.556	36.627	30.081
1:01	38.581	36.517	36.561	30.073
1:02	38.489	36.467	36.493	30.071
1:03	38.369	36.412	36.423	30.073
1:04	38.235	36.351	36.354	30.07
1:05	38.094	36.287	36.285	30.065
1:06	37.954	36.222	36.214	30.044
1:07	37.816	36.158	36.145	30.049
1:08	37.683	36.094	36.076	30.037
1:09	37.556	36.03	36.008	30.037
1:10	37.436	35.97	35.941	30.019
1:11	37.321	35.909	35.876	30.032
1:12	37.213	35.849	35.812	30.026
1:13	37.11	35.792	35.748	30.016
1:14	37.013	35.735	35.688	30.008
1:15	36.919	35.678	35.627	30.011
1:16	36.831	35.624	35.569	30.013
1:17	36.747	35.571	35.512	30.01
1:18	36.666	35.519	35.455	30.004
1:19	36.589	35.467	35.4	30.002
1:20	36.515	35.417	35.347	30
1:21	36.444	35.367	35.295	29.989
1:22	36.376	35.318	35.243	29.98
1:23	36.312	35.27	35.193	29.974
1:24	36.459	35.529	35.567	29.969
1:25	36.669	35.81	35.938	29.964
1:26	36.936	36.138	36.368	29.955
1:27	37.295	36.52	36.841	29.96
1:28	37.664	36.508	36.831	29.96
1:29	37.97	36.467	36.717	29.953
1:30	38.23	36.473	36.657	29.953
1:31	38.402	36.474	36.606	29.945
1:32	38.482	36.461	36.55	29.939
1:33	38.484	36.432	36.491	29.941
1:34	38.428	36.391	36.427	29.934
1:35	38.332	36.342	36.359	29.93
1:36	38.214	36.287	36.292	29.919
1:37	38.082	36.226	36.224	29.922
1:38	37.946	36.163	36.155	29.906
1:39	37.807	36.101	36.086	29.906

1:40	37.675	36.037	36.017	29.905
1:41	37.546	35.973	35.95	29.906
1:42	37.422	35.911	35.882	29.891
1:43	37.304	35.85	35.815	29.892
1:44	37.194	35.79	35.751	29.88
1:45	37.088	35.731	35.688	29.876
1:46	36.987	35.674	35.624	29.875
1:47	36.892	35.617	35.564	29.859
1:48	36.802	35.562	35.504	29.851
1:49	36.715	35.507	35.445	29.858
1:50	36.632	35.454	35.388	29.853
1:51	36.552	35.402	35.333	29.84
1:52	36.476	35.35	35.278	29.839
1:53	36.489	35.44	35.429	29.828
1:54	36.645	35.693	35.783	29.828
1:55	36.89	35.995	36.185	29.825
1:56	37.227	36.352	36.639	29.832
1:57	37.604	36.632	36.989	29.836
1:58	37.89	36.503	36.797	29.834
1:59	38.167	36.493	36.715	29.818
2:00	38.379	36.495	36.659	29.818
2:01	38.499	36.488	36.605	29.818
2:02	38.534	36.466	36.544	29.815
2:03	38.503	36.429	36.479	29.817
2:04	38.423	36.381	36.412	29.811
2:05	38.311	36.327	36.342	29.806
2:06	38.183	36.266	36.271	29.803
2:07	38.046	36.204	36.2	29.803
2:08	37.908	36.14	36.13	29.8
2:09	37.769	36.074	36.061	29.8
2:10	37.637	36.01	35.99	29.798
2:11	37.509	35.946	35.921	29.798
2:12	37.388	35.882	35.852	29.798
2:13	37.271	35.82	35.785	29.79
2:14	37.162	35.76	35.72	29.781
2:15	37.057	35.701	35.656	29.778
2:16	36.958	35.643	35.592	29.778
2:17	36.865	35.584	35.53	29.778
2:18	36.775	35.529	35.47	29.771
2:19	36.688	35.474	35.412	29.762
2:20	36.606	35.42	35.353	29.756
2:21	36.527	35.367	35.297	29.745
2:22	36.451	35.315	35.242	29.737
2:23	36.461	35.407	35.393	29.743
2:24	36.622	35.664	35.76	29.743
2:25	36.831	35.971	36.165	29.743
2:26	37.144	36.327	36.62	29.753
2:27	37.546	36.703	37.074	29.749
2:28	37.871	36.53	36.848	29.737
2:29	38.16	36.512	36.754	29.742
2:30	38.388	36.513	36.693	29.737
2:31	38.522	36.505	36.635	29.729
2:32	38.567	36.483	36.574	29.72
2:33	38.541	36.445	36.506	29.717
2:34	38.466	36.398	36.435	29.71
2:35	38.357	36.342	36.364	29.702
2:36	38.228	36.281	36.292	29.698
2:37	38.089	36.217	36.219	29.691
2:38	37.947	36.152	36.147	29.695
2:39	37.807	36.084	36.074	29.679
2:40	37.673	36.019	36.002	29.668
2:41	37.542	35.953	35.931	29.67
2:42	37.418	35.887	35.86	29.651
2:43	37.3	35.824	35.792	29.644

2:44	37.187	35.761	35.725	29.646
2:45	37.081	35.701	35.659	29.644
2:46	36.981	35.641	35.594	29.637
2:47	36.883	35.582	35.53	29.632
2:48	36.792	35.525	35.469	29.63
2:49	36.705	35.469	35.408	29.626
2:50	36.62	35.413	35.348	29.618
2:51	36.539	35.358	35.29	29.612
2:52	36.462	35.305	35.233	29.591
2:53	36.386	35.253	35.178	29.59
2:54	36.315	35.202	35.124	29.566
2:55	36.325	35.287	35.26	29.56
2:56	36.481	35.545	35.634	29.568
2:57	36.705	35.85	36.037	29.554
2:58	37.059	36.211	36.5	29.572
2:59	37.425	36.586	36.972	29.568
3:00	37.802	36.644	37.052	29.557
3:01	38.124	36.573	36.899	29.563
3:02	38.398	36.571	36.817	29.549
3:03	38.583	36.569	36.751	29.544
3:04	38.67	36.554	36.683	29.546
3:05	38.676	36.522	36.61	29.543
3:06	38.616	36.474	36.535	29.535
3:07	38.517	36.42	36.457	29.535
3:08	38.39	36.358	36.381	29.532
3:09	38.251	36.292	36.303	29.527
3:10	38.103	36.222	36.226	29.532
3:11	37.958	36.152	36.15	29.532
3:12	37.814	36.081	36.072	29.522
3:13	37.676	36.012	35.998	29.518
3:14	37.544	35.943	35.923	29.519
3:15	37.418	35.877	35.85	29.516
3:16	37.3	35.81	35.778	29.515
3:17	37.187	35.746	35.71	29.508
3:18	37.08	35.683	35.641	29.507
3:19	36.977	35.622	35.574	29.508
3:20	36.88	35.562	35.509	29.496
3:21	36.786	35.502	35.445	29.49
3:22	36.698	35.445	35.383	29.486
3:23	36.613	35.388	35.322	29.488
3:24	36.549	35.355	35.297	29.479
3:25	36.674	35.632	35.704	29.483
3:26	36.86	35.918	36.093	29.477
3:27	37.139	36.249	36.532	29.486
3:28	37.508	36.617	36.999	29.48
3:29	37.837	36.573	36.936	29.486
3:30	38.127	36.528	36.812	29.483
3:31	38.374	36.525	36.741	29.483
3:32	38.534	36.518	36.678	29.476
3:33	38.601	36.496	36.612	29.469
3:34	38.592	36.461	36.54	29.466
3:35	38.525	36.413	36.466	29.466
3:36	38.421	36.356	36.39	29.457
3:37	38.294	36.293	36.312	29.447
3:38	38.155	36.227	36.236	29.455
3:39	38.011	36.158	36.16	29.447
3:40	37.869	36.089	36.082	29.436
3:41	37.73	36.02	36.008	29.438
3:42	37.595	35.951	35.933	29.427
3:43	37.467	35.884	35.859	29.43
3:44	37.345	35.817	35.787	29.424
3:45	37.228	35.751	35.716	29.418
3:46	37.119	35.688	35.648	29.419
3:47	37.013	35.624	35.579	29.407

3:48	36.914	35.564	35.512	29.407
3:49	36.819	35.504	35.447	29.388
3:50	36.727	35.444	35.383	29.39
3:51	36.639	35.387	35.322	29.38
3:52	36.556	35.33	35.26	29.377
3:53	36.481	35.28	35.208	29.38
3:54	36.606	35.564	35.631	29.379
3:55	36.785	35.839	36.015	29.383
3:56	37.071	36.175	36.452	29.376
3:57	37.47	36.549	36.919	29.368
3:58	37.806	36.761	37.186	29.376
3:59	38.122	36.63	36.989	29.382
4:00	38.407	36.615	36.892	29.377
4:01	38.613	36.612	36.821	29.366
4:02	38.721	36.595	36.747	29.365
4:03	38.742	36.564	36.673	29.369
4:04	38.695	36.518	36.593	29.361
4:05	38.601	36.462	36.513	29.355
4:06	38.477	36.398	36.432	29.358
4:07	38.337	36.33	36.351	29.354
4:08	38.19	36.26	36.27	29.346
4:09	38.041	36.187	36.19	29.351
4:10	37.895	36.113	36.111	29.347
4:11	37.754	36.042	36.032	29.34
4:12	37.618	35.971	35.956	29.34
4:13	37.489	35.901	35.879	29.33
4:14	37.367	35.834	35.805	29.326
4:15	37.251	35.767	35.733	29.324
4:16	37.139	35.701	35.661	29.316
4:17	37.035	35.636	35.592	29.321
4:18	36.935	35.574	35.524	29.326
4:19	36.839	35.512	35.457	29.318
4:20	36.747	35.452	35.393	29.318
4:21	36.659	35.393	35.33	29.311
4:22	36.574	35.337	35.268	29.31
4:23	36.669	35.584	35.644	29.304
4:24	36.831	35.859	36.024	29.299
4:25	37.078	36.187	36.457	29.305
4:26	37.434	36.556	36.919	29.305
4:27	37.776	36.559	36.929	29.308
4:28	38.074	36.495	36.79	29.311
4:29	38.329	36.486	36.713	29.307
4:30	38.498	36.479	36.647	29.297
4:31	38.573	36.457	36.579	29.294
4:32	38.569	36.422	36.506	29.297
4:33	38.508	36.374	36.43	29.288
4:34	38.407	36.317	36.352	29.282
4:35	38.28	36.253	36.275	29.277
4:36	38.141	36.187	36.195	29.272
4:37	37.997	36.116	36.118	29.266
4:38	37.854	36.045	36.04	29.272
4:39	37.713	35.975	35.965	29.269
4:40	37.577	35.906	35.887	29.257
4:41	37.448	35.837	35.813	29.257
4:42	37.322	35.768	35.74	29.249
4:43	37.206	35.703	35.666	29.243
4:44	37.093	35.637	35.596	29.249
4:45	36.987	35.574	35.527	29.238
4:46	36.885	35.51	35.459	29.23
4:47	36.79	35.45	35.392	29.223
4:48	36.696	35.39	35.328	29.221
4:49	36.608	35.33	35.265	29.213
4:50	36.522	35.273	35.203	29.204
4:51	36.634	35.544	35.614	29.209
4:52	36.809	35.829	36.003	29.198
4:53	37.064	36.162	36.44	29.205
4:54	37.403	36.53	36.911	29.213
4:55	37.816	36.659	37.078	29.215
4:56	38.112	36.552	36.901	29.209
4:57	38.381	36.54	36.809	29.205
4:58	38.569	36.534	36.735	29.205
4:59	38.662	36.515	36.661	29.201
5:00	38.669	36.479	36.584	29.193
5:01	38.614	36.432	36.503	29.194
5:02	38.515	36.374	36.422	29.184
5:03	38.388	36.31	36.341	29.19
5:04	38.247	36.241	36.258	29.176
5:05	38.1	36.17	36.177	29.179
5:06	37.951	36.096	36.098	29.179
5:07	37.806	36.024	36.017	29.177
5:08	37.664	35.951	35.938	29.171
5:09	37.53	35.881	35.86	29.166
5:10	37.403	35.81	35.785	29.16
5:11	37.28	35.741	35.71	29.163
5:12	37.165	35.674	35.636	29.16
5:13	37.054	35.607	35.564	29.151
5:14	36.95	35.544	35.494	29.151
5:15	36.849	35.48	35.427	29.138
5:16	36.754	35.418	35.36	29.132
5:17	36.662	35.358	35.293	29.137
5:18	36.574	35.298	35.23	29.127
5:19	36.489	35.242	35.168	29.12
5:20	36.462	35.288	35.267	29.118
5:21	36.588	35.567	35.671	29.115
5:22	36.803	35.864	36.076	29.12
5:23	37.103	36.211	36.53	29.118
5:24	37.485	36.589	37.01	29.11
5:25	37.844	36.752	37.208	29.11
5:26	38.176	36.629	37.011	29.112
5:27	38.461	36.612	36.907	29.107
5:28	38.66	36.605	36.827	29.103
5:29	38.758	36.584	36.746	29.096
5:30	38.768	36.547	36.662	29.09
5:31	38.712	36.496	36.578	29.098
5:32	38.613	36.435	36.491	29.095
5:33	38.484	36.368	36.405	29.087
5:34	38.337	36.295	36.319	29.085
5:35	38.186	36.221	36.234	29.087
5:36	38.034	36.145	36.15	29.071
5:37	37.883	36.069	36.067	29.079
5:38	37.74	35.993	35.985	29.062
5:39	37.601	35.919	35.904	29.056
5:40	37.47	35.847	35.825	29.05
5:41	37.345	35.777	35.748	29.064
5:42	37.225	35.708	35.673	29.071
5:43	37.112	35.639	35.599	29.074
5:44	37.004	35.574	35.527	29.074
5:45	36.902	35.509	35.457	29.081
5:46	36.805	35.445	35.388	29.074
5:47	36.71	35.383	35.322	29.074
5:48	36.62	35.323	35.257	29.068
5:49	36.545	35.28	35.217	29.057
5:50	36.654	35.571	35.659	29.06
5:51	36.829	35.852	36.062	29.065
5:52	37.088	36.202	36.501	29.056
5:53	37.422	36.569	36.972	29.054
5:54	37.775	36.54	36.947	29.062
5:55	38.082	36.476	36.803	29.051

E. Temperature from core to outer surface-16 nos. of plates in Bulb incubator

Time	Core, T1	Inner air, T2	Inner wall, T3	Outer wall, T4
9:58	31.173	33.006	30.982	28.376
9:59	30.825	33.193	30.699	28.338
10:00	30.928	33.061	30.509	28.317
10:01	31.312	32.827	30.462	28.264
10:02	31.868	32.631	30.533	28.21
10:03	32.579	32.502	30.684	28.157
10:04	33.225	32.431	30.882	28.106
10:05	33.873	32.413	31.099	28.06
10:06	34.522	32.436	31.341	28.025
10:07	35.087	32.492	31.569	27.997
10:08	35.689	32.573	31.812	27.967
10:09	36.209	32.671	32.055	27.94
10:10	36.622	32.791	32.298	27.913
10:11	36.984	32.922	32.538	27.89
10:12	37.348	33.065	32.781	27.866
10:13	37.694	33.216	33.005	27.844
10:14	38.046	33.375	33.229	27.827
10:15	38.447	33.54	33.463	27.878
10:16	38.74	33.711	33.685	27.912
10:17	39.063	33.884	33.901	27.926
10:18	39.334	34.063	34.114	27.937
10:19	39.605	34.245	34.338	27.937
10:20	39.857	34.43	34.542	27.95
10:21	40.187	34.613	34.749	27.964
10:22	40.37	34.793	34.947	27.978
10:23	40.698	34.981	35.149	27.983
10:24	40.915	35.163	35.358	27.98
10:25	41.163	35.347	35.547	27.978
10:26	41.338	35.535	35.73	27.974
10:27	41.596	35.72	35.933	27.974
10:28	41.955	35.906	36.131	27.969
10:29	42.238	36.091	36.307	27.967
10:30	42.399	36.276	36.506	27.97
10:31	42.488	36.466	36.679	27.955
10:32	42.677	36.654	36.861	27.949
10:33	42.972	36.832	37.054	27.954
10:34	42.974	36.931	36.788	27.964
10:35	43.252	37.004	36.593	27.97
10:36	43.363	37.109	36.467	27.977
10:37	43.271	37.225	36.386	27.984
10:38	43.03	37.336	36.329	27.995
10:39	42.701	37.429	36.281	28.012
10:40	42.329	37.501	36.238	28.026
10:41	41.941	37.551	36.195	28.038
10:42	41.555	37.58	36.15	28.045
10:43	41.181	37.59	36.104	28.048
10:44	40.826	37.583	36.057	28.046
10:45	40.492	37.566	36.01	28.049
10:46	40.18	37.539	35.96	28.054
10:47	39.891	37.501	35.909	28.052
10:48	39.625	37.455	35.86	28.054
10:49	39.379	37.403	35.81	28.057
10:50	39.151	37.346	35.76	28.055
10:51	38.94	37.286	35.71	28.048
10:52	38.746	37.223	35.659	28.048
10:53	38.564	37.16	35.607	28.059
10:54	38.393	37.102	35.557	28.071
10:55	38.233	37.044	35.505	28.08
10:56	38.082	36.984	35.454	28.092
10:57	37.942	36.923	35.403	28.102
10:58	37.807	36.863	35.35	28.105
10:59	37.682	36.802	35.298	28.113
11:00	37.561	36.741	35.247	28.125
11:01	37.448	36.678	35.195	28.134
11:02	37.34	36.617	35.144	28.14
11:03	37.237	36.556	35.092	28.148
11:04	37.138	36.496	35.04	28.148
11:05	37.044	36.435	34.987	28.151
11:06	36.952	36.376	34.936	28.153
11:07	36.865	36.317	34.884	28.153
11:08	36.78	36.258	34.833	28.151
11:09	36.698	36.199	34.783	28.148
11:10	36.617	36.141	34.732	28.153
11:11	36.537	36.086	34.684	28.154
11:12	36.459	36.03	34.634	28.159
11:13	36.383	35.976	34.587	28.164
11:14	36.309	35.924	34.539	28.165
11:15	36.238	35.871	34.492	28.168
11:16	36.167	35.819	34.446	28.171
11:17	36.099	35.768	34.4	28.173
11:18	36.034	35.718	34.356	28.176
11:19	35.97	35.668	34.311	28.179
11:20	35.908	35.617	34.267	28.182
11:21	35.845	35.569	34.224	28.187
11:22	35.785	35.52	34.18	28.187
11:23	35.728	35.472	34.137	28.178
11:24	35.669	35.423	34.096	28.174
11:25	35.614	35.377	34.053	28.165
11:26	35.559	35.332	34.012	28.165
11:27	35.505	35.285	33.973	28.165
11:28	35.452	35.24	33.932	28.174
11:29	35.4	35.193	33.893	28.184
11:30	35.35	35.149	33.853	28.191
11:31	35.3	35.105	33.814	28.199
11:32	35.25	35.06	33.775	28.198
11:33	35.202	35.017	33.735	28.201
11:34	35.154	34.976	33.698	28.199
11:35	35.107	34.933	33.662	28.201
11:36	35.06	34.891	33.624	28.204
11:37	35.016	34.85	33.588	28.207
11:38	34.971	34.808	33.551	28.213
11:39	34.926	34.767	33.515	28.221
11:40	34.883	34.727	33.479	28.229
11:41	34.84	34.687	33.445	28.236
11:42	34.797	34.648	33.411	28.246
11:43	34.755	34.608	33.377	28.25
11:44	34.714	34.568	33.344	28.252

11:45	34.673	34.529	33.31	28.256
11:46	34.633	34.491	33.279	28.263
11:47	34.592	34.453	33.248	28.272
11:48	34.552	34.415	33.217	28.273
11:49	34.512	34.377	33.188	28.278
11:50	34.474	34.339	33.16	28.281
11:51	34.436	34.301	33.131	28.284
11:52	34.397	34.265	33.102	28.287
11:53	34.359	34.229	33.074	28.294
11:54	34.323	34.193	33.045	28.295
11:55	34.285	34.157	33.016	28.295
11:56	34.249	34.12	32.988	28.292
11:57	34.213	34.086	32.959	28.29
11:58	34.176	34.052	32.93	28.294
11:59	34.14	34.015	32.904	28.292
12:00	34.152	33.983	32.899	28.294
12:01	34.63	33.971	33.061	28.294
12:02	35.157	33.976	33.214	28.3
12:03	35.783	34.014	33.401	28.301
12:04	36.518	34.086	33.624	28.304
12:05	37.196	34.191	33.834	28.309
12:06	37.866	34.323	34.078	28.314
12:07	38.398	34.476	34.305	28.321
12:08	38.98	34.649	34.563	28.326
12:09	39.566	34.828	34.831	28.332
12:10	40.023	35.017	35.07	28.337
12:11	40.444	35.213	35.31	28.346
12:12	40.797	35.413	35.52	28.354
12:13	41.229	35.616	35.741	28.36
12:14	41.489	35.822	35.993	28.371
12:15	41.843	36.027	36.202	28.383
12:16	42.27	36.234	36.417	28.39
12:17	42.409	36.398	36.325	28.396
12:18	42.77	36.479	36.138	28.405
12:19	42.987	36.576	36.032	28.413
12:20	42.955	36.69	35.973	28.416
12:21	42.732	36.807	35.939	28.43
12:22	42.394	36.911	35.918	28.444
12:23	41.996	36.996	35.901	28.45
12:24	41.579	37.057	35.884	28.458
12:25	41.169	37.1	35.866	28.472
12:26	40.779	37.141	35.844	28.487
12:27	40.417	37.175	35.819	28.5
12:28	40.086	37.191	35.79	28.512
12:29	39.783	37.192	35.758	28.531
12:30	39.504	37.179	35.723	28.541
12:31	39.251	37.155	35.686	28.56
12:32	39.019	37.124	35.646	28.572
12:33	38.807	37.085	35.607	28.588
12:34	38.611	37.042	35.567	28.602
12:35	38.431	36.996	35.527	28.611
12:36	38.264	36.947	35.487	28.63
12:37	38.108	36.895	35.444	28.642
12:38	37.965	36.843	35.4	28.65
12:39	37.83	36.79	35.357	28.653
12:40	37.704	36.737	35.313	28.662
12:41	37.585	36.683	35.268	28.669
12:42	37.472	36.629	35.222	28.673

12:43	37.365	36.574	35.177	28.679
12:44	37.264	36.52	35.134	28.689
12:45	37.167	36.466	35.089	28.681
12:46	37.074	36.412	35.044	28.684
12:47	36.984	36.359	34.999	28.693
12:48	36.897	36.307	34.954	28.704
12:49	36.812	36.254	34.911	28.712
12:50	36.73	36.204	34.868	28.717
12:51	36.651	36.155	34.826	28.721
12:52	36.574	36.106	34.782	28.731
12:53	36.501	36.059	34.739	28.735
12:54	36.43	36.01	34.696	28.734
12:55	36.361	35.963	34.656	28.74
12:56	36.293	35.918	34.616	28.738
12:57	36.229	35.872	34.577	28.743
12:58	36.167	35.825	34.537	28.751
12:59	36.104	35.78	34.499	28.754
13:00	36.045	35.736	34.463	28.756
13:01	35.987	35.691	34.425	28.746
13:02	35.931	35.648	34.387	28.742
13:03	35.876	35.606	34.351	28.751
13:04	35.82	35.562	34.315	28.756
13:05	35.768	35.52	34.277	28.763
13:06	35.716	35.477	34.239	28.77
13:07	35.666	35.435	34.201	28.774
13:08	35.616	35.393	34.165	28.784
13:09	35.567	35.353	34.13	28.79
13:10	35.519	35.312	34.096	28.796
13:11	35.472	35.272	34.063	28.794
13:12	35.427	35.233	34.029	28.798
13:13	35.38	35.193	33.996	28.802
13:14	35.337	35.155	33.963	28.81
13:15	35.293	35.117	33.93	28.813
13:16	35.25	35.079	33.896	28.815
13:17	35.207	35.04	33.863	28.825
13:18	35.165	35.002	33.83	28.835
13:19	35.124	34.966	33.798	28.847
13:20	35.084	34.929	33.767	28.858
13:21	35.044	34.893	33.737	28.869
13:22	35.004	34.856	33.706	28.877
13:23	34.964	34.82	33.677	28.878
13:24	34.926	34.785	33.647	28.877
13:25	34.888	34.749	33.618	28.877
13:26	34.85	34.714	33.587	28.88
13:27	34.813	34.679	33.557	28.889
13:28	34.777	34.644	33.528	28.895
13:29	34.74	34.61	33.5	28.908
13:30	34.704	34.577	33.474	28.914
13:31	34.668	34.542	33.448	28.925
13:32	34.633	34.507	33.422	28.931
13:33	34.596	34.474	33.395	28.945
13:34	34.562	34.441	33.367	28.956
13:35	34.529	34.407	33.338	28.961
13:36	34.494	34.374	33.312	28.973
13:37	34.459	34.341	33.287	28.986
13:38	34.427	34.308	33.264	28.989
13:39	34.392	34.277	33.242	28.989
13:40	34.359	34.245	33.22	28.989

13:41	34.326	34.214	33.198	28.989
13:42	34.293	34.183	33.175	28.993
13:43	34.262	34.152	33.154	28.998
13:44	34.231	34.122	33.131	29.012
13:45	34.198	34.093	33.108	29.029
13:46	34.166	34.061	33.086	29.032
13:47	34.137	34.032	33.063	29.036
13:48	34.568	34.025	33.19	29.05
13:49	35.115	34.032	33.336	29.06
13:50	35.721	34.07	33.517	29.082
13:51	36.354	34.14	33.693	29.107
13:52	37.064	34.245	33.897	29.123
13:53	37.666	34.375	34.109	29.14
13:54	38.256	34.529	34.324	29.16
13:55	38.866	34.699	34.58	29.184
13:56	39.499	34.879	34.843	29.21
13:57	39.936	35.067	35.064	29.232
13:58	40.316	35.263	35.283	29.249
13:59	40.736	35.465	35.524	29.26
14:00	41.181	35.673	35.745	29.272
14:01	41.528	35.882	35.923	29.283
14:02	41.834	36.096	36.076	29.287
14:03	42.074	36.244	35.963	29.29
14:04	42.492	36.329	35.85	29.297
14:05	42.699	36.434	35.788	29.304
14:06	42.654	36.557	35.755	29.307
14:07	42.425	36.681	35.738	29.311
14:08	42.088	36.793	35.73	29.315
14:09	41.698	36.887	35.725	29.313
14:10	41.294	36.958	35.718	29.311
14:11	40.898	37.008	35.711	29.318
14:12	40.525	37.039	35.701	29.326
14:13	40.179	37.051	35.688	29.335
14:14	39.859	37.051	35.673	29.344
14:15	39.568	37.04	35.654	29.349
14:16	39.303	37.03	35.631	29.347
14:17	39.06	37.016	35.607	29.349
14:18	38.837	36.994	35.581	29.361
14:19	38.634	36.964	35.554	29.351
14:20	38.447	36.929	35.524	29.346
14:21	38.277	36.89	35.495	29.341
14:22	38.117	36.848	35.464	29.344
14:23	37.97	36.803	35.43	29.347
14:24	37.833	36.758	35.398	29.332
14:25	37.706	36.71	35.363	29.333
14:26	37.587	36.662	35.328	29.346
14:27	37.473	36.615	35.293	29.368
14:28	37.369	36.566	35.26	29.391
14:29	37.268	36.518	35.225	29.418
14:30	37.174	36.469	35.19	29.441
14:31	37.083	36.422	35.155	29.469
14:32	36.998	36.373	35.12	29.496
14:33	36.914	36.325	35.084	29.516
14:34	36.836	36.278	35.049	29.529
14:35	36.759	36.231	35.012	29.529
14:36	36.685	36.185	34.974	29.546
14:37	36.613	36.141	34.936	29.558
14:38	36.542	36.098	34.898	29.569

14:39	36.474	36.054	34.863	29.579
14:40	36.408	36.012	34.828	29.587
14:41	36.346	35.97	34.793	29.59
14:42	36.283	35.928	34.759	29.591
14:43	36.224	35.887	34.725	29.59
14:44	36.167	35.847	34.692	29.599
14:45	36.109	35.807	34.659	29.607
14:46	36.056	35.767	34.628	29.612
14:47	36.002	35.728	34.596	29.613
14:48	35.951	35.688	34.565	29.608
14:49	35.901	35.651	34.534	29.619
14:50	35.85	35.612	34.504	29.632
14:51	35.803	35.574	34.473	29.634
14:52	35.756	35.537	34.443	29.627
14:53	35.71	35.5	34.412	29.619
14:54	35.666	35.464	34.382	29.619
14:55	35.621	35.427	34.352	29.623
14:56	35.579	35.392	34.321	29.637
14:57	35.535	35.355	34.29	29.649
14:58	35.494	35.32	34.259	29.659
14:59	35.454	35.285	34.227	29.665
15:00	35.413	35.25	34.196	29.67
15:01	35.373	35.217	34.166	29.666
15:02	35.335	35.182	34.14	29.671
15:03	35.297	35.149	34.114	29.68
15:04	35.26	35.115	34.088	29.693
15:05	35.222	35.084	34.063	29.704
15:06	35.187	35.05	34.037	29.699
15:07	35.15	35.019	34.012	29.696
15:08	35.115	34.986	33.989	29.695
15:09	35.08	34.956	33.965	29.699
15:10	35.045	34.924	33.942	29.704
15:11	35.011	34.893	33.919	29.709
15:12	34.977	34.861	33.894	29.72
15:13	34.944	34.831	33.871	29.729
15:14	34.911	34.802	33.848	29.729
15:15	34.879	34.77	33.825	29.726
15:16	34.846	34.742	33.804	29.734
15:17	34.815	34.712	33.781	29.751
15:18	34.783	34.682	33.758	29.756
15:19	34.754	34.654	33.737	29.764
15:20	34.722	34.626	33.714	29.77
15:21	34.692	34.596	33.691	29.776
15:22	34.663	34.568	33.67	29.796
15:23	34.633	34.54	33.651	29.804
15:24	34.603	34.514	33.631	29.804
15:25	34.573	34.486	33.611	29.804
15:26	34.545	34.459	33.592	29.796
15:27	34.516	34.431	33.572	29.784
15:28	34.488	34.405	33.553	29.774
15:29	34.459	34.379	33.535	29.756
15:30	34.433	34.352	33.515	29.735
15:31	34.405	34.328	33.496	29.726
15:32	34.377	34.301	33.478	29.704
15:33	34.351	34.277	33.458	29.685
15:34	34.324	34.252	33.437	29.68
15:35	34.298	34.227	33.416	29.698
15:36	34.272	34.201	33.396	29.679

15:37	34.245	34.176	33.375	29.67
15:38	34.221	34.152	33.355	29.68
15:39	34.194	34.127	33.336	29.691
15:40	34.17	34.104	33.316	29.701
15:41	34.145	34.079	33.299	29.715
15:42	34.119	34.056	33.281	29.723
15:43	34.094	34.033	33.263	29.727
15:44	34.07	34.009	33.245	29.735
15:45	34.047	33.986	33.227	29.74
15:46	34.022	33.963	33.208	29.745
15:47	33.997	33.94	33.19	29.738
15:48	33.974	33.919	33.172	29.731
15:49	34.342	33.912	33.225	29.723
15:50	34.899	33.924	33.318	29.715
15:51	35.53	33.965	33.455	29.709
15:52	36.172	34.04	33.624	29.715
15:53	36.766	34.148	33.799	29.721
15:54	37.491	34.285	34.017	29.723
15:55	38.034	34.44	34.229	29.729
15:56	38.62	34.613	34.459	29.737
15:57	39.16	34.803	34.674	29.756
15:58	39.6	35.004	34.903	29.781
15:59	40.146	35.208	35.124	29.811
16:00	40.532	35.42	35.347	29.842
16:01	40.88	35.634	35.591	29.859
16:02	41.176	35.847	35.813	29.878
16:03	41.568	36.064	36.022	29.894
16:04	41.932	36.197	35.911	29.92
16:05	42.397	36.287	35.832	29.941
16:06	42.604	36.401	35.793	29.96
16:07	42.55	36.534	35.775	29.978
16:08	42.314	36.668	35.767	29.98
16:09	41.972	36.786	35.763	29.978
16:10	41.583	36.885	35.763	29.991
16:11	41.183	36.964	35.761	30.002
16:12	40.793	37.02	35.758	30.021
16:13	40.426	37.057	35.755	30.044
16:14	40.087	37.078	35.748	30.043
16:15	39.777	37.085	35.736	30.038
16:16	39.497	37.08	35.723	30.051
16:17	39.239	37.066	35.71	30.066
16:18	39.007	37.044	35.694	30.07
16:19	38.795	37.016	35.678	30.085
16:20	38.599	36.982	35.659	30.101
16:21	38.421	36.947	35.639	30.12
16:22	38.256	36.906	35.621	30.132
16:23	38.105	36.863	35.599	30.147
16:24	37.963	36.824	35.576	30.17
16:25	37.832	36.783	35.552	30.175
16:26	37.709	36.742	35.529	30.17
16:27	37.595	36.702	35.504	30.184
16:28	37.487	36.657	35.479	30.184
16:29	37.386	36.615	35.452	30.162
16:30	37.29	36.573	35.423	30.151
16:31	37.201	36.528	35.397	30.162
16:32	37.114	36.486	35.37	30.17
16:33	37.033	36.442	35.342	30.165
16:34	36.955	36.4	35.312	30.147
16:35	36.882	36.358	35.282	30.147
16:36	36.81	36.315	35.253	30.126
16:37	36.742	36.273	35.223	30.121
16:38	36.676	36.233	35.192	30.128
16:39	36.612	36.192	35.16	30.136
16:40	36.549	36.153	35.129	30.137
16:41	36.489	36.113	35.097	30.136
16:42	36.43	36.076	35.069	30.121
16:43	36.373	36.037	35.039	30.107
16:44	36.317	36	35.009	30.114
16:45	36.263	35.963	34.979	30.106
16:46	36.211	35.928	34.947	30.098
16:47	36.16	35.892	34.918	30.106
16:48	36.111	35.857	34.889	30.126
16:49	36.064	35.822	34.863	30.169
16:50	36.017	35.787	34.838	30.192
16:51	35.971	35.753	34.813	30.221
16:52	35.928	35.72	34.788	30.252
16:53	35.884	35.686	34.764	30.279
16:54	35.842	35.654	34.739	30.301
16:55	35.802	35.621	34.716	30.313
16:56	35.761	35.589	34.694	30.328
16:57	35.721	35.557	34.671	30.337
16:58	35.683	35.527	34.648	30.348
16:59	35.646	35.495	34.625	30.361
17:00	35.609	35.465	34.6	30.386
17:01	35.572	35.435	34.575	30.41
17:02	35.537	35.403	34.55	30.433
17:03	35.502	35.375	34.529	30.441
17:04	35.469	35.345	34.507	30.441
17:05	35.435	35.317	34.486	30.441
17:06	35.402	35.287	34.466	30.447
17:07	35.368	35.258	34.446	30.433
17:08	35.337	35.232	34.427	30.406
17:09	35.305	35.203	34.407	30.373
17:10	35.275	35.175	34.39	30.353
17:11	35.243	35.149	34.372	30.35
17:12	35.213	35.122	34.352	30.375
17:13	35.185	35.094	34.334	30.392
17:14	35.155	35.067	34.318	30.41
17:15	35.127	35.042	34.3	30.416
17:16	35.097	35.016	34.282	30.425
17:17	35.069	34.989	34.265	30.438
17:18	35.042	34.964	34.249	30.459
17:19	35.014	34.938	34.232	30.477
17:20	34.987	34.913	34.216	30.49
17:21	34.961	34.888	34.199	30.5
17:22	34.934	34.865	34.183	30.507
17:23	34.908	34.84	34.166	30.514
17:24	34.881	34.817	34.15	30.522
17:25	34.856	34.792	34.135	30.539
17:26	34.831	34.768	34.119	30.548
17:27	34.807	34.745	34.102	30.56
17:28	34.782	34.722	34.088	30.574
17:29	34.757	34.701	34.071	30.575
17:30	34.732	34.677	34.055	30.572
17:31	34.709	34.656	34.038	30.563
17:32	34.684	34.633	34.022	30.566

17:33	34.661	34.611	34.007	30.563
17:34	34.638	34.59	33.991	30.548
17:35	34.616	34.568	33.974	30.537
17:36	34.593	34.549	33.96	30.534
17:37	34.57	34.527	33.943	30.525
17:38	34.549	34.507	33.929	30.518
17:39	34.527	34.486	33.912	30.515
17:40	34.506	34.466	33.897	30.511
17:41	34.484	34.446	33.881	30.509
17:42	34.463	34.427	33.866	30.517
17:43	34.441	34.407	33.852	30.518
17:44	34.42	34.387	33.837	30.517
17:45	34.4	34.367	33.822	30.52
17:46	34.379	34.349	33.809	30.517
17:47	34.359	34.331	33.794	30.518
17:48	34.339	34.311	33.781	30.522
17:49	34.319	34.293	33.767	30.514
17:50	34.3	34.275	33.753	30.495
17:51	34.28	34.257	33.739	30.46
17:52	34.26	34.239	33.724	30.435
17:53	34.242	34.221	33.709	30.422
17:54	34.222	34.203	33.695	30.416
17:55	34.204	34.186	33.682	30.427
17:56	34.185	34.168	33.667	30.432
17:57	34.166	34.15	33.654	30.433
17:58	34.148	34.134	33.641	30.432
17:59	34.13	34.117	33.629	30.433
18:00	34.112	34.099	33.616	30.427
18:01	34.094	34.083	33.603	30.425
18:02	34.076	34.066	33.59	30.425
18:03	34.06	34.05	33.579	30.411
18:04	34.042	34.033	33.567	30.405
18:05	34.024	34.017	33.554	30.4
18:06	34.486	34.022	33.58	30.391
18:07	35.074	34.043	33.641	30.384
18:08	35.725	34.094	33.732	30.384
18:09	36.412	34.18	33.86	30.37
18:10	37.095	34.298	34.004	30.356
18:11	37.728	34.441	34.175	30.345
18:12	38.419	34.606	34.37	30.334
18:13	38.882	34.788	34.567	30.326
18:14	39.405	34.984	34.77	30.323
18:15	39.825	35.187	34.982	30.331
18:16	40.272	35.397	35.19	30.337
18:17	40.685	35.609	35.397	30.35
18:18	41.056	35.824	35.611	30.356
18:19	41.451	36.042	35.82	30.361
18:20	41.775	36.229	35.933	30.367
18:21	42.284	36.322	35.908	30.38
18:22	42.619	36.425	35.896	30.389
18:23	42.675	36.554	35.896	30.397
18:24	42.511	36.691	35.904	30.406
18:25	42.21	36.822	35.914	30.414
18:26	41.843	36.938	35.926	30.424
18:27	41.451	37.032	35.938	30.429
18:28	41.063	37.103	35.95	30.435
18:29	40.696	37.155	35.958	30.443
18:30	40.354	37.189	35.965	30.449

18:31	40.043	37.209	35.97	30.459
18:32	39.758	37.215	35.971	30.47
18:33	39.499	37.211	35.97	30.481
18:34	39.264	37.199	35.968	30.49
18:35	39.049	37.18	35.963	30.496
18:36	38.852	37.155	35.955	30.504
18:37	38.674	37.126	35.946	30.512
18:38	38.51	37.093	35.934	30.515
18:39	38.358	37.057	35.923	30.518
18:40	38.218	37.02	35.909	30.525
18:41	38.089	36.981	35.894	30.533
18:42	37.968	36.943	35.876	30.539
18:43	37.856	36.906	35.857	30.545
18:44	37.749	36.868	35.837	30.552
18:45	37.651	36.829	35.817	30.558
18:46	37.558	36.792	35.795	30.563
18:47	37.47	36.752	35.773	30.566
18:48	37.386	36.713	35.748	30.569
18:49	37.307	36.676	35.725	30.577
18:50	37.232	36.637	35.699	30.583
18:51	37.162	36.6	35.674	30.59
18:52	37.093	36.562	35.649	30.596
18:53	37.028	36.525	35.622	30.601
18:54	36.965	36.488	35.596	30.604
18:55	36.906	36.452	35.569	30.608
18:56	36.848	36.417	35.542	30.608
18:57	36.792	36.381	35.515	30.604
18:58	36.737	36.347	35.489	30.601
18:59	36.685	36.314	35.462	30.591
19:00	36.634	36.281	35.434	30.583
19:01	36.584	36.248	35.407	30.578
19:02	36.537	36.216	35.38	30.574
19:03	36.489	36.184	35.353	30.574
19:04	36.445	36.153	35.327	30.578
19:05	36.401	36.123	35.3	30.588
19:06	36.359	36.091	35.275	30.597
19:07	36.317	36.061	35.248	30.612
19:08	36.278	36.032	35.223	30.621
19:09	36.238	36.002	35.198	30.632
19:10	36.2	35.973	35.173	30.643
19:11	36.163	35.945	35.149	30.651
19:12	36.126	35.916	35.124	30.654
19:13	36.091	35.887	35.099	30.661
19:14	36.057	35.859	35.075	30.669
19:15	36.024	35.832	35.052	30.673
19:16	35.99	35.803	35.027	30.68
19:17	35.958	35.777	35.004	30.688
19:18	35.926	35.75	34.981	30.695
19:19	35.894	35.723	34.957	30.699
19:20	35.864	35.698	34.934	30.699
19:21	35.834	35.671	34.911	30.694
19:22	35.805	35.646	34.888	30.688
19:23	35.775	35.621	34.866	30.683
19:24	35.746	35.596	34.843	30.672
19:25	35.72	35.571	34.82	30.67
19:26	35.691	35.545	34.798	30.675
19:27	35.664	35.52	34.777	30.669
19:28	35.637	35.497	34.754	30.672

19:29	35.611	35.472	34.732	30.676
19:30	35.584	35.449	34.712	30.678
19:31	35.559	35.425	34.691	30.662
19:32	35.532	35.402	34.671	30.632
19:33	35.507	35.378	34.649	30.61
19:34	35.482	35.355	34.628	30.591
19:35	35.459	35.332	34.606	30.572
19:36	35.434	35.308	34.587	30.561
19:37	35.41	35.287	34.567	30.55
19:38	35.385	35.263	34.547	30.545
19:39	35.362	35.242	34.527	30.544
19:40	35.338	35.22	34.509	30.545
19:41	35.315	35.197	34.491	30.547
19:42	35.292	35.175	34.473	30.552
19:43	35.27	35.155	34.455	30.555
19:44	35.247	35.134	34.438	30.56
19:45	35.225	35.112	34.42	30.561
19:46	35.203	35.092	34.402	30.563
19:47	35.18	35.07	34.385	30.56
19:48	35.158	35.05	34.367	30.56
19:49	35.137	35.029	34.351	30.563
19:50	35.115	35.009	34.333	30.561
19:51	35.095	34.989	34.316	30.56
19:52	35.074	34.969	34.3	30.553
19:53	35.052	34.949	34.283	30.55
19:54	35.032	34.931	34.267	30.541
19:55	35.011	34.911	34.25	30.533
19:56	34.991	34.891	34.234	30.526
19:57	34.971	34.873	34.217	30.517
19:58	34.951	34.853	34.201	30.515
19:59	34.931	34.835	34.185	30.512
20:00	34.911	34.815	34.168	30.512
20:01	34.891	34.797	34.152	30.509
20:02	34.871	34.778	34.135	30.507
20:03	34.851	34.76	34.12	30.507
20:04	34.831	34.742	34.104	30.504
20:05	34.813	34.724	34.089	30.504
20:06	34.793	34.706	34.073	30.496
20:07	34.775	34.687	34.058	30.482
20:08	34.757	34.669	34.043	30.479
20:09	34.737	34.653	34.027	30.473
20:10	34.719	34.634	34.012	30.471
20:11	34.701	34.616	33.996	30.462
20:12	34.682	34.6	33.981	30.449
20:13	34.664	34.582	33.966	30.438
20:14	34.646	34.565	33.95	30.433
20:15	34.628	34.549	33.935	30.436
20:16	34.61	34.53	33.92	30.433
20:17	34.592	34.514	33.906	30.421
20:18	34.573	34.497	33.889	30.41
20:19	34.557	34.481	33.875	30.402
20:20	34.539	34.464	33.86	30.394
20:21	34.521	34.448	33.845	30.389
20:22	34.504	34.431	33.83	30.375
20:23	34.486	34.415	33.817	30.37
20:24	34.469	34.399	33.803	30.362
20:25	34.453	34.382	33.788	30.362
20:26	34.435	34.366	33.773	30.348
20:27	34.418	34.351	33.758	30.337
20:28	34.402	34.334	33.745	30.339
20:29	34.385	34.318	33.731	30.331
20:30	34.367	34.303	33.716	30.332
20:31	34.351	34.287	33.703	30.328
20:32	34.334	34.272	33.688	30.328
20:33	34.318	34.255	33.675	30.328
20:34	34.301	34.24	33.66	30.321
20:35	34.287	34.224	33.646	30.312
20:36	34.27	34.209	33.633	30.309
20:37	34.254	34.194	33.618	30.302
20:38	34.237	34.178	33.605	30.304
20:39	34.221	34.163	33.592	30.298
20:40	34.206	34.148	33.579	30.263
20:41	34.189	34.134	33.564	30.222
20:42	34.173	34.117	33.551	30.217
20:43	34.158	34.102	33.538	30.221
20:44	34.142	34.088	33.525	30.222
20:45	34.127	34.073	33.51	30.228
20:46	34.111	34.058	33.497	30.233
20:47	34.096	34.043	33.484	30.235
20:48	34.079	34.029	33.471	30.236
20:49	34.065	34.014	33.458	30.235
20:50	34.048	33.999	33.445	30.241
20:51	34.033	33.984	33.432	30.244
20:52	34.45	33.988	33.456	30.241
20:53	35.04	34.006	33.512	30.238
20:54	35.666	34.053	33.603	30.233
20:55	36.366	34.137	33.735	30.221
20:56	37.037	34.254	33.893	30.206
20:57	37.757	34.4	34.07	30.184
20:58	38.414	34.565	34.255	30.175
20:59	38.965	34.747	34.45	30.173
21:00	39.509	34.946	34.658	30.158
21:01	39.966	35.15	34.878	30.145
21:02	40.311	35.362	35.072	30.132
21:03	40.714	35.577	35.287	30.126
21:04	41.094	35.798	35.504	30.114
21:05	41.451	36.019	35.725	30.107
21:06	41.715	36.238	35.914	30.098
21:07	42.144	36.352	35.892	30.101
21:08	42.567	36.445	35.872	30.088
21:09	42.721	36.566	35.867	30.084
21:10	42.632	36.703	35.871	30.071
21:11	42.383	36.839	35.879	30.066
21:12	42.044	36.962	35.887	30.057
21:13	41.672	37.064	35.896	30.048
21:14	41.298	37.146	35.904	30.043
21:15	40.938	37.204	35.911	30.035
21:16	40.6	37.245	35.914	30.027
21:17	40.288	37.271	35.916	30.026
21:18	39.998	37.281	35.916	30.019
21:19	39.733	37.281	35.913	30.015
21:20	39.49	37.271	35.908	30.01
21:21	39.266	37.254	35.899	30.005
21:22	39.061	37.23	35.891	30.002
21:23	38.873	37.203	35.879	29.997
21:24	38.7	37.17	35.866	30.002

21:25	38.541	37.136	35.852	30.004
21:26	38.395	37.098	35.837	30.01
21:27	38.259	37.059	35.82	30.011
21:28	38.133	37.018	35.802	30.015
21:29	38.015	36.977	35.783	30.015
21:30	37.904	36.936	35.761	30.015
21:31	37.802	36.897	35.74	30.01
21:32	37.704	36.858	35.716	30.008
21:33	37.611	36.819	35.693	29.997
21:34	37.525	36.778	35.666	29.994
21:35	37.443	36.739	35.641	29.991
21:36	37.364	36.698	35.614	29.985
21:37	37.288	36.659	35.586	29.98
21:38	37.216	36.618	35.557	29.974
21:39	37.148	36.579	35.529	29.966
21:40	37.083	36.54	35.499	29.964
21:41	37.02	36.501	35.469	29.952
21:42	36.958	36.464	35.439	29.934
21:43	36.899	36.425	35.408	29.923
21:44	36.843	36.388	35.377	29.911
21:45	36.786	36.351	35.345	29.903
21:46	36.734	36.315	35.313	29.894
21:47	36.681	36.278	35.283	29.876
21:48	36.63	36.243	35.252	29.858
21:49	36.581	36.209	35.22	29.845
21:50	36.532	36.173	35.19	29.843
21:51	36.484	36.14	35.158	29.839
21:52	36.439	36.106	35.129	29.828
21:53	36.393	36.072	35.099	29.82
21:54	36.349	36.04	35.069	29.803
21:55	36.305	36.008	35.037	29.804
21:56	36.263	35.975	35.007	29.801
21:57	36.222	35.945	34.977	29.796
21:58	36.182	35.913	34.949	29.778
21:59	36.141	35.881	34.919	29.759
22:00	36.103	35.85	34.891	29.748
22:01	36.064	35.819	34.861	29.737
22:02	36.027	35.788	34.833	29.729
22:03	35.99	35.758	34.803	29.737
22:04	35.955	35.728	34.775	29.732
22:05	35.918	35.698	34.749	29.727
22:06	35.882	35.669	34.72	29.715
22:07	35.849	35.639	34.692	29.709
22:08	35.815	35.611	34.666	29.721
22:09	35.782	35.581	34.639	29.715
22:10	35.748	35.552	34.613	29.709
22:11	35.715	35.524	34.587	29.701
22:12	35.683	35.495	34.56	29.693
22:13	35.651	35.467	34.534	29.691
22:14	35.619	35.439	34.509	29.687
22:15	35.589	35.412	34.483	29.673
22:16	35.559	35.383	34.458	29.668
22:17	35.527	35.357	34.433	29.662
22:18	35.497	35.328	34.408	29.652
22:19	35.469	35.302	34.384	29.649
22:20	35.439	35.275	34.361	29.641
22:21	35.41	35.248	34.336	29.643
22:22	35.38	35.222	34.313	29.634

22:23	35.352	35.195	34.288	29.618
22:24	35.323	35.168	34.265	29.616
22:25	35.295	35.142	34.242	29.61
22:26	35.268	35.117	34.219	29.594
22:27	35.24	35.09	34.196	29.598
22:28	35.213	35.065	34.173	29.59
22:29	35.185	35.039	34.15	29.585
22:30	35.158	35.014	34.129	29.572
22:31	35.132	34.989	34.107	29.574
22:32	35.105	34.964	34.084	29.565
22:33	35.079	34.939	34.063	29.562
22:34	35.052	34.914	34.042	29.557
22:35	35.027	34.889	34.019	29.551
22:36	35.001	34.865	33.997	29.544
22:37	34.976	34.841	33.976	29.543
22:38	34.949	34.817	33.955	29.538
22:39	34.924	34.793	33.933	29.536
22:40	34.899	34.768	33.912	29.535
22:41	34.875	34.745	33.891	29.533
22:42	34.85	34.722	33.87	29.532
22:43	34.825	34.699	33.85	29.53
22:44	34.8	34.674	33.829	29.518
22:45	34.775	34.651	33.809	29.51
22:46	34.75	34.628	33.788	29.513
22:47	34.727	34.606	33.768	29.515
22:48	34.702	34.583	33.749	29.515
22:49	34.679	34.56	33.729	29.51
22:50	34.654	34.539	33.709	29.511
22:51	34.631	34.516	33.69	29.508
22:52	34.608	34.494	33.672	29.505
22:53	34.585	34.471	33.652	29.502
22:54	34.562	34.45	33.634	29.497
22:55	34.539	34.428	33.615	29.494
22:56	34.516	34.405	33.595	29.493
22:57	34.492	34.384	33.577	29.494
22:58	34.469	34.362	33.557	29.491
22:59	34.448	34.341	33.54	29.485
23:00	34.425	34.319	33.522	29.472
23:01	34.402	34.298	33.502	29.474
23:02	34.38	34.278	33.484	29.461
23:03	34.359	34.257	33.466	29.463
23:04	34.336	34.236	33.448	29.463
23:05	34.315	34.216	33.43	29.46
23:06	34.293	34.194	33.412	29.463
23:07	34.272	34.175	33.395	29.449
23:08	34.25	34.153	33.377	29.449
23:09	34.229	34.134	33.36	29.446
23:10	34.208	34.114	33.342	29.443
23:11	34.186	34.093	33.325	29.441
23:12	34.379	34.081	33.331	29.44
23:13	34.899	34.083	33.381	29.432
23:14	35.469	34.111	33.46	29.427
23:15	36.168	34.171	33.569	29.425
23:16	36.878	34.267	33.711	29.429
23:17	37.501	34.39	33.876	29.424
23:18	38.148	34.54	34.061	29.418
23:19	38.805	34.711	34.25	29.411
23:20	39.348	34.893	34.45	29.408

23:21	39.863	35.087	34.653	29.4
23:22	40.316	35.292	34.85	29.396
23:23	40.654	35.497	35.057	29.394
23:24	41.094	35.71	35.258	29.386
23:25	41.446	35.923	35.477	29.385
23:26	41.779	36.133	35.678	29.377
23:27	42.101	36.347	35.877	29.379
23:28	42.368	36.467	35.886	29.371
23:29	42.807	36.544	35.864	29.371
23:30	42.994	36.649	35.854	29.371
23:31	42.921	36.78	35.85	29.368
23:32	42.669	36.916	35.85	29.376
23:33	42.318	37.044	35.852	29.374
23:34	41.921	37.151	35.852	29.377
23:35	41.519	37.237	35.852	29.376
23:36	41.132	37.3	35.852	29.372
23:37	40.772	37.343	35.85	29.366
23:38	40.44	37.369	35.847	29.361
23:39	40.139	37.379	35.842	29.357
23:40	39.866	37.377	35.837	29.358
23:41	39.619	37.367	35.829	29.346
23:42	39.393	37.346	35.819	29.354
23:43	39.184	37.321	35.808	29.346
23:44	38.994	37.29	35.797	29.347
23:45	38.819	37.254	35.783	29.346
23:46	38.658	37.215	35.768	29.343
23:47	38.508	37.172	35.753	29.344
23:48	38.367	37.131	35.733	29.344
23:49	38.237	37.09	35.713	29.335
23:50	38.113	37.047	35.691	29.333
23:51	37.997	37.004	35.668	29.34
23:52	37.888	36.962	35.643	29.332
23:53	37.785	36.918	35.617	29.332
23:54	37.688	36.875	35.589	29.327
23:55	37.597	36.831	35.562	29.322
23:56	37.509	36.786	35.532	29.319
23:57	37.425	36.744	35.5	29.31
23:58	37.346	36.7	35.469	29.313
23:59	37.271	36.656	35.437	29.311
0:00	37.198	36.613	35.405	29.305
0:01	37.127	36.571	35.372	29.308
0:02	37.061	36.528	35.338	29.311
0:03	36.994	36.486	35.305	29.315
0:04	36.931	36.444	35.272	29.308
0:05	36.87	36.403	35.237	29.305
0:06	36.81	36.363	35.203	29.294
0:07	36.752	36.322	35.17	29.296
0:08	36.695	36.281	35.137	29.291
0:09	36.64	36.243	35.104	29.291
0:10	36.586	36.204	35.07	29.283
0:11	36.534	36.167	35.039	29.277
0:12	36.481	36.13	35.006	29.282
0:13	36.43	36.091	34.972	29.282
0:14	36.381	36.056	34.941	29.276
0:15	36.334	36.019	34.908	29.276
0:16	36.287	35.983	34.876	29.265
0:17	36.241	35.946	34.845	29.265
0:18	36.195	35.911	34.813	29.268
0:19	36.152	35.876	34.782	29.263
0:20	36.108	35.842	34.752	29.257
0:21	36.066	35.807	34.72	29.258
0:22	36.024	35.773	34.691	29.263
0:23	35.981	35.74	34.659	29.26
0:24	35.941	35.706	34.63	29.248
0:25	35.902	35.673	34.6	29.24
0:26	35.864	35.639	34.57	29.238
0:27	35.825	35.606	34.54	29.235
0:28	35.787	35.574	34.512	29.232
0:29	35.75	35.54	34.483	29.226
0:30	35.713	35.509	34.455	29.226
0:31	35.678	35.477	34.427	29.213
0:32	35.641	35.445	34.399	29.213
0:33	35.606	35.413	34.37	29.207
0:34	35.571	35.382	34.342	29.196
0:35	35.537	35.352	34.316	29.194
0:36	35.502	35.32	34.288	29.188
0:37	35.469	35.29	34.262	29.179
0:38	35.435	35.26	34.236	29.174
0:39	35.403	35.23	34.209	29.179
0:40	35.37	35.2	34.183	29.176
0:41	35.338	35.17	34.157	29.168
0:42	35.307	35.14	34.132	29.17
0:43	35.275	35.11	34.106	29.166
0:44	35.243	35.082	34.081	29.163
0:45	35.212	35.052	34.055	29.157
0:46	35.182	35.024	34.03	29.152
0:47	35.152	34.996	34.006	29.145
0:48	35.12	34.967	33.981	29.141
0:49	35.09	34.939	33.956	29.14
0:50	35.06	34.911	33.932	29.134
0:51	35.032	34.883	33.909	29.127
0:52	35.002	34.855	33.884	29.126
0:53	34.974	34.828	33.86	29.123
0:54	34.944	34.8	33.837	29.118
0:55	34.916	34.773	33.814	29.115
0:56	34.888	34.747	33.791	29.106
0:57	34.86	34.72	33.768	29.098
0:58	34.831	34.694	33.744	29.098
0:59	34.803	34.668	33.721	29.095
1:00	34.777	34.641	33.698	29.09
1:01	34.749	34.615	33.677	29.087
1:02	34.722	34.588	33.654	29.084
1:03	34.694	34.563	33.631	29.079
1:04	34.668	34.537	33.61	29.076
1:05	34.641	34.512	33.587	29.073
1:06	34.615	34.486	33.566	29.076
1:07	34.588	34.461	33.544	29.07
1:08	34.562	34.436	33.523	29.068
1:09	34.535	34.412	33.502	29.059
1:10	34.509	34.387	33.481	29.051
1:11	34.484	34.362	33.46	29.056
1:12	34.458	34.338	33.438	29.054
1:13	34.433	34.313	33.417	29.046
1:14	34.407	34.288	33.396	29.036
1:15	34.382	34.265	33.375	29.025
1:16	34.357	34.24	33.355	29.022

1:17	34.333	34.217	33.334	29.006
1:18	34.308	34.193	33.315	29.009
1:19	34.283	34.17	33.294	28.995
1:20	34.259	34.147	33.274	28.993
1:21	34.234	34.122	33.253	28.978
1:22	34.211	34.099	33.233	28.976
1:23	34.186	34.076	33.214	28.973
1:24	34.634	34.071	33.24	28.967
1:25	35.162	34.079	33.308	28.969
1:26	35.775	34.12	33.411	28.978
1:27	36.484	34.196	33.541	28.958
1:28	37.103	34.308	33.695	28.956
1:29	37.699	34.445	33.866	28.959
1:30	38.337	34.601	34.05	28.956
1:31	38.894	34.773	34.239	28.958
1:32	39.43	34.961	34.443	28.958
1:33	39.88	35.157	34.636	28.95
1:34	40.386	35.357	34.841	28.942
1:35	40.781	35.561	35.049	28.942
1:36	41.11	35.77	35.255	28.941
1:37	41.4	35.983	35.452	28.937
1:38	41.694	36.194	35.661	28.941
1:39	41.989	36.403	35.859	28.934
1:40	42.305	36.512	35.845	28.919
1:41	42.77	36.591	35.819	28.919
1:42	42.968	36.702	35.803	28.917
1:43	42.901	36.836	35.8	28.914
1:44	42.654	36.972	35.798	28.916
1:45	42.305	37.095	35.798	28.916
1:46	41.911	37.199	35.798	28.911
1:47	41.51	37.278	35.797	28.913
1:48	41.123	37.336	35.795	28.916
1:49	40.763	37.372	35.792	28.908
1:50	40.429	37.393	35.787	28.897
1:51	40.127	37.398	35.78	28.905
1:52	39.852	37.393	35.77	28.866
1:53	39.603	37.377	35.761	28.88
1:54	39.375	37.355	35.75	28.872
1:55	39.167	37.326	35.738	28.875
1:56	38.975	37.292	35.723	28.874
1:57	38.8	37.254	35.708	28.871
1:58	38.637	37.213	35.689	28.866
1:59	38.485	37.167	35.673	28.866
2:00	38.344	37.121	35.651	28.883
2:01	38.212	37.074	35.629	28.883
2:02	38.089	37.03	35.606	28.869
2:03	37.971	36.984	35.579	28.867
2:04	37.861	36.938	35.552	28.878
2:05	37.756	36.892	35.524	28.881
2:06	37.657	36.846	35.495	28.889
2:07	37.563	36.8	35.465	28.855
2:08	37.473	36.754	35.434	28.824
2:09	37.388	36.71	35.402	28.824
2:10	37.307	36.664	35.37	28.827
2:11	37.228	36.618	35.337	28.825
2:12	37.155	36.574	35.302	28.819
2:13	37.083	36.528	35.267	28.824
2:14	37.013	36.484	35.23	28.822
2:15	36.947	36.44	35.193	28.821
2:16	36.882	36.396	35.157	28.815
2:17	36.817	36.352	35.122	28.793
2:18	36.756	36.309	35.085	28.77
2:19	36.696	36.266	35.05	28.771
2:20	36.637	36.226	35.016	28.773
2:21	36.579	36.184	34.981	28.756
2:22	36.523	36.143	34.947	28.763
2:23	36.467	36.104	34.913	28.774
2:24	36.415	36.064	34.878	28.774
2:25	36.363	36.025	34.843	28.777
2:26	36.31	35.987	34.808	28.785
2:27	36.261	35.948	34.773	28.79
2:28	36.212	35.909	34.739	28.796
2:29	36.163	35.871	34.704	28.794
2:30	36.116	35.834	34.669	28.796
2:31	36.071	35.797	34.636	28.799
2:32	36.025	35.76	34.601	28.794
2:33	35.98	35.723	34.568	28.793
2:34	35.936	35.686	34.537	28.787
2:35	35.894	35.651	34.504	28.788
2:36	35.852	35.616	34.471	28.784
2:37	35.81	35.579	34.44	28.779
2:38	35.768	35.544	34.407	28.77
2:39	35.728	35.509	34.375	28.768
2:40	35.688	35.474	34.344	28.763
2:41	35.649	35.44	34.315	28.76
2:42	35.611	35.405	34.283	28.768
2:43	35.572	35.372	34.254	28.766
2:44	35.535	35.338	34.222	28.754
2:45	35.497	35.303	34.193	28.757
2:46	35.46	35.27	34.163	28.751
2:47	35.423	35.238	34.134	28.745
2:48	35.388	35.205	34.104	28.742
2:49	35.353	35.172	34.076	28.732
2:50	35.317	35.14	34.047	28.731
2:51	35.283	35.107	34.019	28.723
2:52	35.248	35.075	33.991	28.714
2:53	35.213	35.044	33.963	28.714
2:54	35.18	35.012	33.935	28.717
2:55	35.147	34.981	33.907	28.711
2:56	35.114	34.949	33.881	28.706
2:57	35.08	34.918	33.853	28.707
2:58	35.047	34.888	33.827	28.698
2:59	35.016	34.856	33.801	28.689
3:00	34.984	34.826	33.775	28.686
3:01	34.951	34.797	33.747	28.684
3:02	34.919	34.767	33.722	28.678
3:03	34.889	34.737	33.696	28.67
3:04	34.858	34.707	33.67	28.662
3:05	34.826	34.677	33.644	28.664
3:06	34.797	34.648	33.619	28.662
3:07	34.765	34.62	33.593	28.662
3:08	34.735	34.59	33.569	28.658
3:09	34.706	34.562	33.544	28.644
3:10	34.676	34.532	33.52	28.647
3:11	34.646	34.504	33.496	28.65
3:12	34.616	34.476	33.471	28.647

3:13	34.587	34.448	33.447	28.641
3:14	34.559	34.42	33.422	28.642
3:15	34.529	34.392	33.399	28.639
3:16	34.501	34.366	33.375	28.628
3:17	34.473	34.338	33.352	28.633
3:18	34.445	34.311	33.328	28.622
3:19	34.417	34.283	33.305	28.62
3:20	34.389	34.257	33.282	28.616
3:21	34.361	34.231	33.26	28.608
3:22	34.333	34.203	33.237	28.6
3:23	34.305	34.176	33.214	28.597
3:24	34.278	34.15	33.191	28.591
3:25	34.25	34.125	33.169	28.582
3:26	34.224	34.099	33.146	28.586
3:27	34.354	34.078	33.139	28.583
3:28	34.856	34.073	33.188	28.588
3:29	35.427	34.091	33.276	28.58
3:30	36.098	34.143	33.391	28.572
3:31	36.744	34.231	33.533	28.568
3:32	37.479	34.349	33.7	28.563
3:33	38.108	34.492	33.879	28.572
3:34	38.676	34.654	34.068	28.558
3:35	39.181	34.83	34.257	28.562
3:36	39.69	35.016	34.455	28.569
3:37	40.1	35.21	34.653	28.568
3:38	40.552	35.412	34.861	28.568
3:39	40.864	35.621	35.065	28.565
3:40	41.221	35.829	35.265	28.562
3:41	41.597	36.032	35.475	28.557
3:42	41.978	36.241	35.678	28.554
3:43	42.22	36.451	35.872	28.551
3:44	42.449	36.622	35.965	28.541
3:45	42.923	36.696	35.931	28.543
3:46	43.237	36.79	35.906	28.541
3:47	43.269	36.916	35.896	28.535
3:48	43.079	37.054	35.891	28.538
3:49	42.753	37.186	35.887	28.538
3:50	42.358	37.3	35.884	28.532
3:51	41.941	37.389	35.881	28.523
3:52	41.528	37.456	35.877	28.531
3:53	41.14	37.501	35.872	28.529
3:54	40.779	37.527	35.866	28.534
3:55	40.449	37.537	35.857	28.526
3:56	40.152	37.534	35.845	28.521
3:57	39.88	37.52	35.834	28.517
3:58	39.635	37.497	35.82	28.503
3:59	39.412	37.468	35.807	28.503
4:00	39.207	37.432	35.79	28.498
4:01	39.021	37.391	35.773	28.5
4:02	38.847	37.346	35.755	28.495
4:03	38.686	37.298	35.735	28.498
4:04	38.536	37.251	35.713	28.501
4:05	38.395	37.204	35.688	28.495
4:06	38.263	37.156	35.663	28.496
4:07	38.138	37.109	35.634	28.5
4:08	38.02	37.059	35.602	28.498
4:09	37.909	37.011	35.572	28.495
4:10	37.804	36.962	35.539	28.507

4:11	37.706	36.914	35.504	28.512
4:12	37.611	36.865	35.469	28.512
4:13	37.52	36.817	35.432	28.5
4:14	37.434	36.768	35.395	28.5
4:15	37.352	36.718	35.357	28.506
4:16	37.273	36.671	35.318	28.503
4:17	37.198	36.623	35.28	28.506
4:18	37.124	36.576	35.242	28.506
4:19	37.052	36.528	35.202	28.501
4:20	36.984	36.481	35.163	28.489
4:21	36.916	36.435	35.125	28.492
4:22	36.851	36.388	35.085	28.498
4:23	36.786	36.344	35.047	28.496
4:24	36.724	36.298	35.009	28.507
4:25	36.662	36.254	34.971	28.527
4:26	36.603	36.211	34.933	28.541
4:27	36.544	36.168	34.896	28.563
4:28	36.488	36.126	34.86	28.568
4:29	36.432	36.084	34.823	28.577
4:30	36.378	36.042	34.787	28.594
4:31	36.324	36	34.75	28.605
4:32	36.271	35.96	34.714	28.617
4:33	36.221	35.919	34.679	28.624
4:34	36.17	35.879	34.643	28.63
4:35	36.121	35.839	34.608	28.63
4:36	36.072	35.8	34.572	28.631
4:37	36.025	35.761	34.537	28.627
4:38	35.98	35.723	34.502	28.628
4:39	35.934	35.684	34.469	28.627
4:40	35.889	35.646	34.435	28.616
4:41	35.845	35.607	34.402	28.605
4:42	35.802	35.571	34.367	28.607
4:43	35.758	35.534	34.334	28.602
4:44	35.716	35.495	34.301	28.588
4:45	35.674	35.459	34.268	28.593
4:46	35.634	35.423	34.236	28.582
4:47	35.594	35.387	34.204	28.588
4:48	35.554	35.352	34.173	28.588
4:49	35.515	35.315	34.142	28.591
4:50	35.475	35.28	34.111	28.588
4:51	35.437	35.245	34.079	28.591
4:52	35.4	35.21	34.05	28.589
4:53	35.362	35.175	34.019	28.591
4:54	35.325	35.142	33.989	28.577
4:55	35.288	35.107	33.96	28.569
4:56	35.252	35.074	33.93	28.571
4:57	35.217	35.039	33.901	28.571
4:58	35.18	35.006	33.871	28.577
4:59	35.145	34.972	33.842	28.574
5:00	35.11	34.941	33.814	28.579
5:01	35.075	34.908	33.786	28.571
5:02	35.042	34.875	33.758	28.566
5:03	35.007	34.843	33.731	28.565
5:04	34.974	34.81	33.703	28.562
5:05	34.941	34.778	33.675	28.549
5:06	34.908	34.747	33.649	28.538
5:07	34.875	34.716	33.621	28.537
5:08	34.841	34.684	33.595	28.535

5:09	34.81	34.654	33.569	28.535
5:10	34.777	34.623	33.543	28.531
5:11	34.745	34.593	33.517	28.529
5:12	34.714	34.562	33.491	28.534
5:13	34.682	34.532	33.465	28.532
5:14	34.651	34.502	33.44	28.524
5:15	34.621	34.473	33.414	28.529
5:16	34.59	34.443	33.39	28.537
5:17	34.559	34.413	33.367	28.538
5:18	34.529	34.384	33.342	28.541
5:19	34.499	34.356	33.318	28.546
5:20	34.469	34.326	33.295	28.548
5:21	34.44	34.298	33.271	28.549
5:22	34.41	34.27	33.248	28.541
5:23	34.38	34.242	33.224	28.532
5:24	34.352	34.214	33.201	28.524
5:25	34.323	34.186	33.177	28.524
5:26	34.295	34.158	33.154	28.495
5:27	34.267	34.13	33.13	28.482
5:28	34.237	34.104	33.107	28.482
5:29	34.316	34.079	33.092	28.455
5:30	34.812	34.071	33.138	28.436
5:31	35.393	34.084	33.208	28.436
5:32	36.066	34.13	33.329	28.439
5:33	36.822	34.214	33.476	28.447
5:34	37.511	34.329	33.644	28.433
5:35	38.143	34.468	33.837	28.399
5:36	38.686	34.625	34.033	28.386
5:37	39.2	34.798	34.226	28.369
5:38	39.697	34.982	34.427	28.359
5:39	40.238	35.173	34.633	28.345
5:40	40.599	35.37	34.833	28.314
5:41	40.989	35.572	35.055	28.289
5:42	41.352	35.777	35.248	28.287
5:43	41.656	35.985	35.45	28.286
5:44	41.928	36.194	35.664	28.28
5:45	42.22	36.403	35.842	28.28
5:46	42.5	36.612	36.034	28.286
5:47	42.718	36.754	36.074	28.287
5:48	43.182	36.827	36.032	28.289
5:49	43.431	36.929	36.007	28.272
5:50	43.401	37.061	35.992	28.272
5:51	43.169	37.199	35.981	28.28
5:52	42.818	37.328	35.971	28.297
5:53	42.409	37.434	35.961	28.303
5:54	41.983	37.518	35.951	28.32
5:55	41.568	37.577	35.939	28.324
5:56	41.176	37.616	35.926	28.337
5:57	40.815	37.635	35.911	28.369
5:58	40.487	37.64	35.896	28.402
5:59	40.189	37.632	35.879	28.403
6:00	39.92	37.614	35.862	28.403
6:01	39.676	37.587	35.842	28.413
6:02	39.453	37.554	35.824	28.427
6:03	39.25	37.515	35.802	28.444
6:04	39.065	37.47	35.782	28.453
6:05	38.893	37.424	35.76	28.469
6:06	38.733	37.372	35.738	28.489

6:07	38.583	37.322	35.713	28.509
6:08	38.444	37.273	35.688	28.534
6:09	38.311	37.225	35.661	28.555
6:10	38.188	37.175	35.631	28.577
6:11	38.07	37.126	35.599	28.594
6:12	37.959	37.076	35.567	28.61
6:13	37.856	37.025	35.532	28.624
6:14	37.756	36.975	35.497	28.638
6:15	37.661	36.926	35.46	28.648
6:16	37.571	36.877	35.423	28.662
6:17	37.485	36.826	35.385	28.673
6:18	37.403	36.776	35.347	28.675
6:19	37.324	36.727	35.308	28.687
6:20	37.247	36.679	35.27	28.7
6:21	37.174	36.63	35.23	28.703
6:22	37.103	36.583	35.192	28.712
6:23	37.033	36.534	35.152	28.718
6:24	36.967	36.488	35.114	28.728
6:25	36.901	36.44	35.075	28.734
6:26	36.836	36.395	35.035	28.745
6:27	36.773	36.349	34.997	28.756
6:28	36.712	36.305	34.961	28.765
6:29	36.651	36.261	34.923	28.774
6:30	36.591	36.217	34.886	28.78
6:31	36.534	36.173	34.85	28.787
6:32	36.478	36.131	34.813	28.793
6:33	36.423	36.089	34.778	28.794
6:34	36.369	36.047	34.742	28.794
6:35	36.317	36.007	34.707	28.802
6:36	36.266	35.965	34.671	28.804
6:37	36.216	35.924	34.636	28.788
6:38	36.167	35.884	34.598	28.762
6:39	36.118	35.844	34.562	28.757
6:40	36.071	35.805	34.527	28.748
6:41	36.025	35.765	34.491	28.738
6:42	35.98	35.726	34.458	28.729
6:43	35.934	35.688	34.423	28.717
6:44	35.891	35.651	34.39	28.712
6:45	35.847	35.612	34.357	28.706
6:46	35.803	35.574	34.324	28.695
6:47	35.761	35.537	34.293	28.684
6:48	35.72	35.5	34.26	28.662
6:49	35.679	35.464	34.227	28.653
6:50	35.639	35.427	34.194	28.652
6:51	35.599	35.392	34.163	28.652
6:52	35.559	35.355	34.132	28.652
6:53	35.52	35.32	34.101	28.653
6:54	35.482	35.285	34.07	28.658
6:55	35.444	35.25	34.04	28.664
6:56	35.407	35.215	34.011	28.667
6:57	35.37	35.18	33.981	28.665
6:58	35.332	35.145	33.95	28.658
6:59	35.297	35.112	33.92	28.647
7:00	35.26	35.079	33.891	28.631
7:01	35.225	35.044	33.861	28.63
7:02	35.188	35.011	33.832	28.616
7:03	35.154	34.977	33.804	28.594
7:04	35.12	34.946	33.776	28.56

F. Temperature in inner surface-no plates in Bulb incubator

Time	T1	T2	T3	T4
19:27	30.781	30.885	30.824	31.142
19:28	30.059	30.14	30.325	30.613
19:29	29.756	29.751	29.95	30.186
19:30	29.74	29.727	29.748	29.96
19:31	29.88	29.916	29.663	29.902
19:32	30.109	30.247	29.67	29.967
19:33	30.399	30.639	29.751	30.101
19:34	30.702	31.036	29.886	30.304
19:35	31.017	31.44	30.051	30.534
19:36	31.332	31.847	30.255	30.816
19:37	31.647	32.232	30.473	31.093
19:38	31.973	32.613	30.684	31.389
19:39	32.267	32.98	30.93	31.681
19:40	32.581	33.344	31.171	31.972
19:41	32.885	33.682	31.449	32.266
19:42	33.182	34.024	31.697	32.554
19:43	33.469	34.364	31.962	32.856
19:44	33.76	34.689	32.227	33.128
19:45	34.048	35.012	32.504	33.417
19:46	34.247	35.26	32.791	33.719
19:47	34.101	35.273	33.342	34.135
19:48	34.104	35.248	33.711	34.501
19:49	34.083	35.185	33.93	34.722
19:50	34.033	35.099	34.045	34.82
19:51	33.961	34.999	34.094	34.831
19:52	33.873	34.888	34.101	34.79
19:53	33.776	34.772	34.081	34.72
19:54	33.68	34.656	34.043	34.633
19:55	33.584	34.542	33.992	34.537
19:56	33.492	34.431	33.93	34.438
19:57	33.404	34.324	33.861	34.341
19:58	33.316	34.224	33.788	34.247
19:59	33.229	34.13	33.713	34.155
20:00	33.598	34.247	33.668	34.061
20:01	33.857	34.468	33.695	34.042
20:02	34.127	34.764	33.768	34.119
20:03	34.422	35.119	33.87	34.265
20:04	34.682	35.454	34.007	34.464
20:05	34.519	35.472	34.329	34.795
20:06	34.506	35.475	34.555	35.109
20:07	34.499	35.447	34.682	35.318
20:08	34.473	35.397	34.742	35.42
20:09	34.425	35.328	34.759	35.445
20:10	34.359	35.248	34.744	35.418
20:11	34.283	35.16	34.711	35.358
20:12	34.199	35.069	34.666	35.282
20:13	34.112	34.976	34.611	35.193
20:14	34.027	34.883	34.55	35.1
20:15	33.943	34.793	34.486	35.006
20:16	33.863	34.706	34.42	34.913
20:17	33.786	34.623	34.351	34.82
20:18	33.713	34.542	34.285	34.729
20:19	33.641	34.466	34.217	34.639
20:20	33.574	34.394	34.153	34.554
20:21	33.509	34.324	34.093	34.469
20:22	33.929	34.522	34.088	34.42
20:23	34.229	34.797	34.124	34.451
20:24	34.519	35.129	34.191	34.544
20:25	34.812	35.497	34.316	34.706
20:26	34.653	35.502	34.578	34.989
20:27	34.646	35.507	34.767	35.283
20:28	34.649	35.49	34.878	35.489
20:29	34.634	35.452	34.931	35.596
20:30	34.598	35.397	34.946	35.626
20:31	34.544	35.328	34.934	35.606
20:32	34.478	35.252	34.904	35.556
20:33	34.405	35.17	34.863	35.484
20:34	34.328	35.084	34.812	35.403
20:35	34.25	34.999	34.757	35.315
20:36	34.175	34.916	34.699	35.225
20:37	34.101	34.835	34.638	35.135
20:38	34.03	34.755	34.577	35.045
20:39	33.961	34.681	34.516	34.957
20:40	33.896	34.608	34.456	34.873
20:41	33.834	34.539	34.397	34.79
20:42	33.773	34.473	34.338	34.709
20:43	33.716	34.408	34.28	34.631
20:44	33.66	34.346	34.224	34.557
20:45	33.606	34.287	34.17	34.486
20:46	33.709	34.303	34.125	34.425
20:47	34.081	34.578	34.139	34.423
20:48	34.38	34.899	34.196	34.497
20:49	34.681	35.267	34.288	34.643
20:50	34.812	35.519	34.469	34.851
20:51	34.742	35.53	34.717	35.168
20:52	34.757	35.532	34.883	35.445
20:53	34.764	35.514	34.979	35.622
20:54	34.745	35.475	35.022	35.704
20:55	34.707	35.42	35.032	35.72
20:56	34.653	35.352	35.017	35.691
20:57	34.587	35.277	34.986	35.634
20:58	34.514	35.197	34.944	35.562
20:59	34.44	35.114	34.894	35.479
21:00	34.366	35.03	34.84	35.392
21:01	34.291	34.947	34.783	35.303
21:02	34.221	34.868	34.725	35.215
21:03	34.152	34.792	34.666	35.127
21:04	34.084	34.719	34.608	35.042
21:05	34.022	34.649	34.55	34.959
21:06	33.961	34.582	34.492	34.878
21:07	33.902	34.517	34.435	34.802
21:08	33.847	34.455	34.38	34.725
21:09	33.793	34.395	34.326	34.653

21:10	33.74	34.336	34.272	34.583
21:11	33.69	34.278	34.219	34.516
21:12	33.726	34.268	34.171	34.459
21:13	34.104	34.54	34.188	34.455
21:14	34.405	34.868	34.242	34.525
21:15	34.709	35.248	34.339	34.673
21:16	34.76	35.434	34.525	34.884
21:17	34.727	35.442	34.749	35.19
21:18	34.745	35.442	34.893	35.44
21:19	34.75	35.422	34.974	35.594
21:20	34.73	35.385	35.009	35.661
21:21	34.691	35.332	35.012	35.668
21:22	34.636	35.267	34.994	35.634
21:23	34.572	35.195	34.961	35.577
21:24	34.502	35.117	34.918	35.505
21:25	34.43	35.037	34.868	35.425
21:26	34.357	34.956	34.813	35.34
21:27	34.287	34.878	34.757	35.255
21:28	34.217	34.8	34.699	35.168
21:29	34.15	34.725	34.641	35.084
21:30	34.086	34.654	34.583	35.001
21:31	34.024	34.585	34.525	34.921
21:32	33.963	34.521	34.469	34.843
21:33	33.906	34.458	34.413	34.767
21:34	33.852	34.397	34.357	34.694
21:35	33.798	34.339	34.305	34.623
21:36	33.747	34.283	34.25	34.555
21:37	33.696	34.229	34.199	34.489
21:38	33.966	34.382	34.175	34.446
21:39	34.288	34.689	34.209	34.489
21:40	34.577	35.039	34.28	34.596
21:41	34.883	35.429	34.394	34.775
21:42	34.8	35.482	34.638	35.032
21:43	34.803	35.492	34.846	35.335
21:44	34.82	35.485	34.974	35.559
21:45	34.817	35.459	35.042	35.683
21:46	34.787	35.413	35.065	35.726
21:47	34.74	35.355	35.062	35.716
21:48	34.679	35.285	35.037	35.673
21:49	34.611	35.21	34.997	35.609
21:50	34.537	35.13	34.951	35.532
21:51	34.463	35.05	34.898	35.449
21:52	34.389	34.969	34.841	35.362
21:53	34.318	34.889	34.782	35.273
21:54	34.247	34.813	34.724	35.187
21:55	34.18	34.737	34.664	35.1
21:56	34.114	34.666	34.605	35.017
21:57	34.052	34.596	34.547	34.938
21:58	33.992	34.53	34.489	34.858
21:59	33.933	34.468	34.431	34.783
22:00	33.878	34.407	34.377	34.711
22:01	33.824	34.349	34.321	34.639
22:02	33.773	34.291	34.268	34.572
22:03	34.148	34.547	34.255	34.547
22:04	34.443	34.866	34.291	34.6
22:05	34.735	35.227	34.375	34.724
22:06	34.936	35.534	34.521	34.918
22:07	34.843	35.534	34.778	35.212
22:08	34.856	35.534	34.954	35.485
22:09	34.866	35.515	35.057	35.668
22:10	34.851	35.48	35.105	35.756
22:11	34.815	35.429	35.119	35.775
22:12	34.762	35.363	35.104	35.75
22:13	34.696	35.29	35.072	35.696
22:14	34.625	35.213	35.029	35.626
22:15	34.55	35.132	34.977	35.544
22:16	34.476	35.05	34.921	35.459
22:17	34.402	34.971	34.861	35.37
22:18	34.331	34.891	34.802	35.282
22:19	34.26	34.813	34.742	35.195
22:20	34.193	34.739	34.681	35.109
22:21	34.129	34.668	34.621	35.026
22:22	34.066	34.6	34.562	34.946
22:23	34.007	34.535	34.504	34.868
22:24	33.948	34.473	34.446	34.792
22:25	33.893	34.413	34.39	34.719
22:26	33.839	34.356	34.334	34.649
22:27	33.788	34.3	34.28	34.582
22:28	33.737	34.245	34.227	34.516
22:29	33.708	34.199	34.176	34.453
22:30	34.099	34.478	34.183	34.45
22:31	34.392	34.813	34.229	34.525
22:32	34.687	35.185	34.323	34.659
22:33	34.861	35.459	34.481	34.87
22:34	34.788	35.465	34.737	35.167
22:35	34.807	35.467	34.908	35.437
22:36	34.817	35.449	35.009	35.612
22:37	34.802	35.413	35.055	35.698
22:38	34.764	35.362	35.065	35.713
22:39	34.711	35.297	35.05	35.686
22:40	34.644	35.223	35.017	35.631
22:41	34.573	35.145	34.972	35.559
22:42	34.499	35.065	34.921	35.479
22:43	34.425	34.984	34.863	35.392
22:44	34.351	34.903	34.805	35.305
22:45	34.28	34.825	34.744	35.217
22:46	34.209	34.749	34.682	35.13
22:47	34.143	34.676	34.623	35.045
22:48	34.079	34.605	34.562	34.962
22:49	34.017	34.539	34.502	34.883
22:50	33.956	34.474	34.445	34.805
22:51	33.899	34.412	34.387	34.73
22:52	33.843	34.352	34.331	34.658
22:53	33.789	34.295	34.277	34.588
22:54	33.739	34.239	34.222	34.521
22:55	33.927	34.346	34.183	34.473
22:56	34.263	34.651	34.211	34.502
22:57	34.555	34.997	34.282	34.592
22:58	34.866	35.4	34.394	34.76
22:59	34.752	35.418	34.638	35.021
23:00	34.759	35.42	34.835	35.307
23:01	34.775	35.408	34.954	35.515
23:02	34.768	35.38	35.017	35.629
23:03	34.739	35.335	35.037	35.666
23:04	34.691	35.275	35.029	35.653
23:05	34.631	35.207	35.001	35.607

23:06	34.562	35.132	34.959	35.54
23:07	34.489	35.054	34.908	35.464
23:08	34.415	34.974	34.851	35.38
23:09	34.341	34.893	34.793	35.293
23:10	34.27	34.815	34.732	35.207
23:11	34.199	34.739	34.671	35.12
23:12	34.132	34.666	34.61	35.035
23:13	34.066	34.595	34.549	34.952
23:14	34.004	34.527	34.489	34.871
23:15	33.943	34.461	34.431	34.793
23:16	33.886	34.399	34.374	34.717
23:17	33.829	34.338	34.316	34.644
23:18	33.775	34.278	34.26	34.573
23:19	33.878	34.318	34.213	34.512
23:20	34.234	34.615	34.221	34.522
23:21	34.524	34.943	34.29	34.598
23:22	34.83	35.34	34.394	34.747
23:23	34.84	35.49	34.6	34.964
23:24	34.818	35.495	34.831	35.268
23:25	34.836	35.49	34.982	35.517
23:26	34.838	35.465	35.065	35.666
23:27	34.813	35.423	35.1	35.728
23:28	34.767	35.367	35.1	35.731
23:29	34.707	35.3	35.077	35.693
23:30	34.639	35.225	35.037	35.632
23:31	34.565	35.144	34.987	35.557
23:32	34.489	35.062	34.931	35.472
23:33	34.413	34.979	34.871	35.385
23:34	34.339	34.898	34.808	35.295
23:35	34.267	34.818	34.745	35.207
23:36	34.196	34.74	34.682	35.119
23:37	34.129	34.668	34.62	35.034
23:38	34.063	34.596	34.557	34.951
23:39	33.999	34.529	34.496	34.87
23:40	33.938	34.464	34.436	34.792
23:41	33.879	34.403	34.377	34.716
23:42	33.824	34.342	34.319	34.643
23:43	33.77	34.285	34.263	34.572
23:44	33.93	34.369	34.216	34.517
23:45	34.272	34.674	34.232	34.535
23:46	34.554	35.027	34.291	34.631
23:47	34.868	35.412	34.403	34.785
23:48	34.788	35.479	34.646	35.026
23:49	34.785	35.475	34.858	35.317
23:50	34.802	35.459	34.989	35.534
23:51	34.797	35.427	35.057	35.654
23:52	34.767	35.378	35.08	35.698
23:53	34.719	35.317	35.072	35.688
23:54	34.658	35.247	35.044	35.643
23:55	34.588	35.168	35.001	35.577
23:56	34.514	35.089	34.947	35.5
23:57	34.438	35.007	34.889	35.415
23:58	34.362	34.924	34.826	35.327
23:59	34.288	34.845	34.764	35.238
0:00	34.216	34.765	34.701	35.15
0:01	34.147	34.691	34.636	35.064
0:02	34.079	34.618	34.573	34.979
0:03	34.015	34.549	34.512	34.896
0:04	33.953	34.483	34.451	34.817
0:05	33.893	34.418	34.392	34.739
0:06	33.835	34.356	34.333	34.664
0:07	33.78	34.296	34.275	34.592
0:08	33.726	34.237	34.219	34.522
0:09	33.794	34.254	34.168	34.459
0:10	34.165	34.555	34.185	34.466
0:11	34.461	34.898	34.237	34.545
0:12	34.762	35.282	34.331	34.701
0:13	34.858	35.5	34.522	34.923
0:14	34.812	35.504	34.785	35.227
0:15	34.828	35.495	34.956	35.487
0:16	34.831	35.469	35.052	35.649
0:17	34.808	35.425	35.094	35.721
0:18	34.765	35.367	35.099	35.728
0:19	34.706	35.298	35.077	35.693
0:20	34.636	35.22	35.037	35.632
0:21	34.56	35.139	34.987	35.556
0:22	34.483	35.055	34.929	35.472
0:23	34.405	34.972	34.868	35.382
0:24	34.328	34.889	34.803	35.292
0:25	34.254	34.808	34.739	35.202
0:26	34.183	34.73	34.674	35.112
0:27	34.112	34.654	34.61	35.026
0:28	34.047	34.583	34.545	34.941
0:29	33.983	34.514	34.484	34.858
0:30	33.92	34.446	34.422	34.778
0:31	33.86	34.384	34.362	34.701
0:32	33.803	34.321	34.303	34.626
0:33	33.839	34.313	34.25	34.56
0:34	34.214	34.616	34.25	34.549
0:35	34.512	34.959	34.293	34.625
0:36	34.813	35.335	34.389	34.77
0:37	34.78	35.439	34.608	34.991
0:38	34.76	35.432	34.825	35.268
0:39	34.772	35.415	34.961	35.487
0:40	34.767	35.383	35.034	35.612
0:41	34.739	35.335	35.06	35.659
0:42	34.691	35.275	35.054	35.653
0:43	34.63	35.207	35.024	35.611
0:44	34.56	35.13	34.981	35.545
0:45	34.486	35.05	34.928	35.469
0:46	34.408	34.969	34.87	35.383
0:47	34.333	34.886	34.807	35.297
0:48	34.259	34.805	34.742	35.207
0:49	34.186	34.725	34.676	35.119
0:50	34.116	34.649	34.611	35.032
0:51	34.048	34.577	34.547	34.946
0:52	33.983	34.506	34.484	34.863
0:53	33.919	34.44	34.422	34.783
0:54	33.858	34.374	34.361	34.706
0:55	33.801	34.311	34.301	34.63
0:56	33.744	34.25	34.242	34.557
0:57	33.688	34.193	34.185	34.486
0:58	33.781	34.227	34.142	34.427
0:59	34.152	34.535	34.148	34.438
1:00	34.44	34.878	34.211	34.525
1:01	34.75	35.268	34.306	34.681

1:02	34.878	35.517	34.494	34.881
1:03	34.815	35.514	34.767	35.197
1:04	34.83	35.504	34.949	35.472
1:05	34.833	35.475	35.054	35.646
1:06	34.813	35.43	35.1	35.725
1:07	34.768	35.37	35.107	35.735
1:08	34.709	35.3	35.087	35.703
1:09	34.638	35.222	35.047	35.643
1:10	34.56	35.139	34.996	35.566
1:11	34.481	35.052	34.938	35.479
1:12	34.4	34.966	34.873	35.388
1:13	34.321	34.881	34.807	35.297
1:14	34.245	34.798	34.74	35.203
1:15	34.171	34.717	34.673	35.112
1:16	34.099	34.641	34.606	35.024
1:17	34.032	34.567	34.54	34.938
1:18	33.965	34.496	34.476	34.853
1:19	33.902	34.428	34.413	34.772
1:20	33.84	34.364	34.351	34.694
1:21	33.781	34.3	34.291	34.616
1:22	33.724	34.239	34.232	34.544
1:23	34.056	34.451	34.201	34.509
1:24	34.359	34.78	34.232	34.554
1:25	34.656	35.144	34.306	34.674
1:26	34.933	35.492	34.43	34.848
1:27	34.79	35.482	34.707	35.119
1:28	34.795	35.472	34.906	35.395
1:29	34.803	35.449	35.024	35.587
1:30	34.788	35.408	35.082	35.683
1:31	34.75	35.353	35.095	35.708
1:32	34.694	35.287	35.08	35.683
1:33	34.626	35.21	35.044	35.629
1:34	34.55	35.13	34.994	35.557
1:35	34.473	35.045	34.936	35.474
1:36	34.394	34.961	34.873	35.385
1:37	34.315	34.876	34.807	35.293
1:38	34.237	34.793	34.74	35.202
1:39	34.163	34.714	34.673	35.11
1:40	34.093	34.636	34.605	35.022
1:41	34.024	34.562	34.539	34.934
1:42	33.956	34.491	34.474	34.851
1:43	33.893	34.423	34.41	34.768
1:44	33.83	34.357	34.347	34.691
1:45	33.771	34.295	34.287	34.613
1:46	33.714	34.232	34.227	34.539
1:47	33.659	34.173	34.168	34.468
1:48	34.006	34.405	34.147	34.435
1:49	34.306	34.725	34.178	34.478
1:50	34.608	35.104	34.249	34.611
1:51	34.923	35.497	34.382	34.817
1:52	34.79	35.494	34.654	35.079
1:53	34.79	35.482	34.871	35.363
1:54	34.8	35.457	35.002	35.567
1:55	34.787	35.417	35.069	35.673
1:56	34.749	35.362	35.087	35.704
1:57	34.694	35.293	35.075	35.683
1:58	34.625	35.217	35.04	35.631
1:59	34.549	35.135	34.992	35.559

2:00	34.469	35.049	34.934	35.475
2:01	34.389	34.962	34.871	35.385
2:02	34.308	34.876	34.803	35.293
2:03	34.231	34.792	34.735	35.2
2:04	34.155	34.711	34.668	35.109
2:05	34.081	34.631	34.6	35.019
2:06	34.012	34.557	34.532	34.931
2:07	33.945	34.484	34.466	34.845
2:08	33.879	34.415	34.402	34.762
2:09	33.817	34.349	34.339	34.682
2:10	33.757	34.285	34.277	34.605
2:11	33.698	34.222	34.216	34.53
2:12	33.642	34.163	34.157	34.458
2:13	33.683	34.16	34.102	34.395
2:14	34.071	34.474	34.109	34.392
2:15	34.369	34.82	34.155	34.468
2:16	34.669	35.198	34.247	34.618
2:17	34.823	35.464	34.42	34.831
2:18	34.744	35.457	34.699	35.129
2:19	34.755	35.442	34.888	35.397
2:20	34.759	35.41	34.997	35.571
2:21	34.737	35.363	35.045	35.649
2:22	34.694	35.303	35.054	35.661
2:23	34.633	35.232	35.032	35.629
2:24	34.562	35.154	34.992	35.569
2:25	34.484	35.069	34.939	35.492
2:26	34.403	34.984	34.879	35.405
2:27	34.321	34.898	34.813	35.315
2:28	34.242	34.812	34.745	35.222
2:29	34.165	34.727	34.676	35.13
2:30	34.089	34.648	34.606	35.039
2:31	34.017	34.568	34.539	34.949
2:32	33.948	34.494	34.473	34.861
2:33	33.881	34.423	34.407	34.777
2:34	33.817	34.354	34.342	34.694
2:35	33.755	34.288	34.278	34.615
2:36	33.695	34.224	34.217	34.539
2:37	34.025	34.427	34.186	34.497
2:38	34.339	34.765	34.221	34.532
2:39	34.626	35.125	34.29	34.654
2:40	34.891	35.474	34.4	34.826
2:41	34.749	35.459	34.691	35.094
2:42	34.75	35.444	34.891	35.365
2:43	34.755	35.413	35.007	35.55
2:44	34.737	35.37	35.062	35.643
2:45	34.697	35.312	35.072	35.663
2:46	34.638	35.243	35.054	35.636
2:47	34.568	35.165	35.014	35.581
2:48	34.491	35.084	34.962	35.507
2:49	34.41	34.999	34.901	35.422
2:50	34.329	34.913	34.835	35.332
2:51	34.25	34.828	34.765	35.24
2:52	34.171	34.745	34.696	35.147
2:53	34.096	34.666	34.626	35.055
2:54	34.024	34.588	34.557	34.966
2:55	33.955	34.516	34.489	34.878
2:56	33.886	34.445	34.423	34.793
2:57	33.822	34.375	34.357	34.711

2:58	33.76	34.308	34.293	34.63
2:59	33.7	34.244	34.231	34.552
3:00	33.641	34.181	34.17	34.478
3:01	33.584	34.12	34.111	34.405
3:02	33.961	34.377	34.096	34.379
3:03	34.277	34.706	34.134	34.435
3:04	34.575	35.09	34.213	34.559
3:05	34.883	35.49	34.328	34.755
3:06	34.747	35.475	34.616	35.029
3:07	34.745	35.459	34.84	35.323
3:08	34.754	35.43	34.974	35.529
3:09	34.739	35.388	35.04	35.636
3:10	34.699	35.33	35.06	35.666
3:11	34.641	35.26	35.045	35.644
3:12	34.572	35.182	35.011	35.591
3:13	34.494	35.097	34.959	35.517
3:14	34.412	35.011	34.899	35.432
3:15	34.329	34.923	34.833	35.342
3:16	34.249	34.835	34.764	35.248
3:17	34.168	34.749	34.694	35.154
3:18	34.091	34.666	34.623	35.06
3:19	34.017	34.585	34.554	34.969
3:20	33.947	34.509	34.484	34.879
3:21	33.878	34.436	34.417	34.793
3:22	33.811	34.366	34.351	34.709
3:23	33.747	34.298	34.285	34.628
3:24	33.686	34.232	34.222	34.549
3:25	33.655	34.181	34.165	34.476
3:26	34.063	34.479	34.145	34.453
3:27	34.367	34.817	34.189	34.507
3:28	34.663	35.195	34.282	34.631
3:29	34.866	35.499	34.445	34.831
3:30	34.75	35.482	34.727	35.124
3:31	34.754	35.46	34.919	35.395
3:32	34.755	35.427	35.029	35.572
3:33	34.732	35.377	35.077	35.656
3:34	34.687	35.315	35.084	35.669
3:35	34.626	35.242	35.06	35.637
3:36	34.552	35.162	35.017	35.577
3:37	34.473	35.077	34.962	35.5
3:38	34.39	34.989	34.898	35.413
3:39	34.308	34.901	34.83	35.322
3:40	34.226	34.813	34.759	35.228
3:41	34.147	34.727	34.686	35.134
3:42	34.07	34.644	34.615	35.04
3:43	33.996	34.565	34.544	34.949
3:44	33.925	34.489	34.474	34.861
3:45	33.858	34.417	34.407	34.775
3:46	33.791	34.347	34.339	34.691
3:47	33.727	34.28	34.275	34.61
3:48	33.667	34.216	34.211	34.532
3:49	33.902	34.336	34.163	34.471
3:50	34.236	34.663	34.176	34.489
3:51	34.525	35.026	34.244	34.593
3:52	34.833	35.413	34.349	34.778
3:53	34.754	35.475	34.603	35.007
3:54	34.735	35.459	34.838	35.288
3:55	34.742	35.43	34.982	35.504
3:56	34.732	35.388	35.055	35.622
3:57	34.696	35.333	35.079	35.661
3:58	34.641	35.265	35.067	35.646
3:59	34.573	35.188	35.032	35.597
4:00	34.496	35.104	34.982	35.525
4:01	34.415	35.017	34.921	35.442
4:02	34.331	34.929	34.853	35.352
4:03	34.249	34.841	34.783	35.258
4:04	34.168	34.755	34.711	35.165
4:05	34.089	34.671	34.638	35.07
4:06	34.015	34.59	34.567	34.979
4:07	33.943	34.514	34.496	34.889
4:08	33.873	34.44	34.427	34.802
4:09	33.806	34.369	34.359	34.717
4:10	33.742	34.3	34.293	34.634
4:11	33.678	34.234	34.229	34.554
4:12	33.618	34.17	34.165	34.478
4:13	33.559	34.109	34.104	34.402
4:14	33.641	34.129	34.047	34.336
4:15	34.025	34.436	34.052	34.342
4:16	34.319	34.79	34.099	34.427
4:17	34.626	35.173	34.206	34.57
4:18	34.879	35.507	34.361	34.768
4:19	34.745	35.494	34.669	35.065
4:20	34.75	35.474	34.883	35.358
4:21	34.754	35.44	35.007	35.554
4:22	34.732	35.392	35.065	35.649
4:23	34.687	35.33	35.077	35.669
4:24	34.625	35.255	35.057	35.641
4:25	34.55	35.173	35.017	35.582
4:26	34.469	35.085	34.961	35.505
4:27	34.384	34.996	34.898	35.418
4:28	34.3	34.904	34.826	35.325
4:29	34.216	34.815	34.755	35.228
4:30	34.134	34.727	34.681	35.134
4:31	34.055	34.643	34.608	35.039
4:32	33.979	34.562	34.535	34.946
4:33	33.907	34.483	34.464	34.855
4:34	33.837	34.408	34.395	34.767
4:35	33.77	34.338	34.328	34.682
4:36	33.706	34.268	34.26	34.6
4:37	33.642	34.203	34.196	34.519
4:38	33.582	34.139	34.132	34.441
4:39	33.912	34.354	34.098	34.405
4:40	34.229	34.681	34.122	34.436
4:41	34.535	35.049	34.208	34.547
4:42	34.835	35.439	34.318	34.745
4:43	34.681	35.417	34.613	35.002
4:44	34.677	35.395	34.826	35.28
4:45	34.682	35.363	34.954	35.475
4:46	34.664	35.318	35.014	35.574
4:47	34.625	35.26	35.027	35.599
4:48	34.565	35.188	35.009	35.576
4:49	34.494	35.11	34.969	35.52
4:50	34.417	35.026	34.916	35.445
4:51	34.334	34.939	34.851	35.36
4:52	34.25	34.85	34.782	35.27

G. Side wall temperatures- 16 nos. of plates in Bulb incubator

Time	T1	T2	T3	T4
9:22	32.684	33.087	33.014	31.821
9:23	32.667	32.979	33.005	31.965
9:24	32.667	32.907	32.995	32.076
9:25	32.67	32.857	32.984	32.158
9:26	32.675	32.823	32.972	32.219
9:27	32.676	32.797	32.958	32.266
9:28	32.675	32.778	32.945	32.299
9:29	32.673	32.762	32.93	32.32
9:30	32.668	32.749	32.916	32.335
9:31	32.662	32.736	32.901	32.346
9:32	32.654	32.725	32.886	32.354
9:33	32.644	32.712	32.872	32.359
9:34	32.634	32.701	32.857	32.36
9:35	32.623	32.689	32.841	32.359
9:36	32.612	32.678	32.827	32.356
9:37	32.599	32.667	32.81	32.352
9:38	32.586	32.654	32.794	32.348
9:39	32.573	32.641	32.778	32.341
9:40	32.559	32.628	32.764	32.333
9:41	32.764	32.799	32.762	32.33
9:42	32.998	32.988	32.791	32.327
9:43	33.243	33.156	32.841	32.328
9:44	33.51	33.339	32.911	32.333
9:45	33.786	33.54	32.995	32.343
9:46	34.048	33.755	33.087	32.359
9:47	34.296	33.974	33.186	32.385
9:48	34.557	34.214	33.292	32.415
9:49	34.805	34.448	33.409	32.451
9:50	35.029	34.674	33.531	32.499
9:51	35.272	34.899	33.657	32.554
9:52	35.509	35.119	33.788	32.613
9:53	35.723	35.325	33.919	32.681
9:54	35.945	35.539	34.053	32.747
9:55	36.172	35.745	34.189	32.82
9:56	36.378	35.953	34.328	32.896
9:57	36.573	36.162	34.469	32.976
9:58	36.761	36.337	34.608	33.06
9:59	36.955	36.534	34.749	33.151
10:00	37.15	36.713	34.889	33.25
10:01	37.34	36.911	35.032	33.347
10:02	37.503	37.112	35.178	33.447
10:03	37.63	37.175	35.322	33.536
10:04	37.604	37.006	35.397	33.567
10:05	37.58	36.901	35.398	33.574
10:06	37.554	36.824	35.373	33.579
10:07	37.52	36.766	35.343	33.585
10:08	37.472	36.722	35.313	33.595
10:09	37.413	36.686	35.288	33.608
10:10	37.345	36.654	35.267	33.621
10:11	37.269	36.625	35.248	33.636
10:12	37.186	36.596	35.23	33.652
10:13	37.095	36.566	35.215	33.667
10:14	36.998	36.534	35.202	33.683
10:15	36.899	36.5	35.188	33.7
10:16	36.803	36.466	35.175	33.716
10:17	36.713	36.432	35.163	33.732
10:18	36.63	36.398	35.152	33.749
10:19	36.55	36.364	35.139	33.765
10:20	36.478	36.33	35.127	33.781
10:21	36.408	36.295	35.115	33.796
10:22	36.342	36.26	35.105	33.812
10:23	36.28	36.224	35.094	33.827
10:24	36.219	36.189	35.084	33.84
10:25	36.163	36.153	35.072	33.853
10:26	36.108	36.118	35.062	33.865
10:27	36.054	36.081	35.05	33.876
10:28	36.003	36.044	35.039	33.886
10:29	35.953	36.007	35.026	33.896
10:30	35.906	35.97	35.012	33.902
10:31	35.859	35.931	34.997	33.911
10:32	35.812	35.894	34.984	33.917
10:33	35.768	35.855	34.969	33.922
10:34	35.723	35.817	34.954	33.927
10:35	35.679	35.78	34.939	33.93
10:36	35.637	35.741	34.923	33.932
10:37	35.597	35.703	34.906	33.933
10:38	35.556	35.664	34.891	33.933
10:39	35.517	35.626	34.873	33.933
10:40	35.477	35.589	34.856	33.933
10:41	35.439	35.55	34.84	33.93
10:42	35.4	35.514	34.821	33.929
10:43	35.362	35.475	34.803	33.924
10:44	35.325	35.437	34.787	33.919
10:45	35.288	35.4	34.767	33.914
10:46	35.252	35.363	34.749	33.907
10:47	35.217	35.327	34.73	33.901
10:48	35.18	35.29	34.712	33.893
10:49	35.147	35.253	34.692	33.884
10:50	35.112	35.217	34.673	33.876
10:51	35.079	35.18	34.654	33.868
10:52	35.045	35.145	34.634	33.858
10:53	35.014	35.109	34.615	33.848
10:54	34.982	35.074	34.595	33.839
10:55	34.951	35.037	34.575	33.827
10:56	34.921	35.002	34.555	33.817
10:57	34.889	34.967	34.534	33.806
10:58	34.86	34.933	34.514	33.794
10:59	34.828	34.898	34.494	33.781
11:00	34.798	34.863	34.473	33.77
11:01	34.767	34.828	34.453	33.757
11:02	34.735	34.795	34.431	33.744
11:03	34.706	34.76	34.412	33.731
11:04	34.674	34.727	34.39	33.717
11:05	34.643	34.694	34.37	33.704
11:06	34.611	34.661	34.349	33.691
11:07	34.58	34.63	34.329	33.677
11:08	34.549	34.596	34.308	33.664
11:09	34.517	34.563	34.287	33.649
11:10	34.486	34.532	34.267	33.636
11:11	34.455	34.501	34.245	33.621

11:12	34.425	34.469	34.224	33.606
11:13	34.394	34.438	34.204	33.592
11:14	34.362	34.407	34.183	33.577
11:15	34.331	34.375	34.162	33.562
11:16	34.3	34.344	34.14	33.546
11:17	34.268	34.315	34.12	33.531
11:18	34.237	34.285	34.099	33.517
11:19	34.206	34.255	34.078	33.5
11:20	34.176	34.226	34.056	33.486
11:21	34.145	34.196	34.037	33.469
11:22	34.116	34.168	34.015	33.453
11:23	34.086	34.139	33.994	33.438
11:24	34.056	34.111	33.974	33.422
11:25	34.027	34.083	33.953	33.406
11:26	33.997	34.053	33.932	33.39
11:27	33.968	34.025	33.911	33.373
11:28	33.938	33.997	33.891	33.357
11:29	33.909	33.971	33.87	33.341
11:30	33.881	33.943	33.848	33.325
11:31	33.852	33.917	33.829	33.308
11:32	33.824	33.889	33.807	33.29
11:33	33.796	33.863	33.788	33.274
11:34	33.768	33.837	33.767	33.256
11:35	33.74	33.812	33.745	33.238
11:36	33.713	33.786	33.726	33.222
11:37	33.686	33.76	33.704	33.206
11:38	33.659	33.735	33.685	33.188
11:39	33.633	33.711	33.664	33.172
11:40	33.606	33.685	33.644	33.154
11:41	33.579	33.66	33.624	33.138
11:42	33.553	33.636	33.603	33.12
11:43	33.526	33.611	33.584	33.104
11:44	33.502	33.587	33.564	33.086
11:45	33.476	33.564	33.543	33.068
11:46	33.45	33.54	33.523	33.052
11:47	33.425	33.517	33.504	33.034
11:48	33.399	33.494	33.482	33.018
11:49	33.375	33.471	33.463	33
11:50	33.351	33.448	33.443	32.984
11:51	33.326	33.425	33.424	32.966
11:52	33.302	33.403	33.404	32.948
11:53	33.277	33.381	33.385	32.932
11:54	33.255	33.359	33.365	32.914
11:55	33.23	33.338	33.346	32.898
11:56	33.208	33.316	33.326	32.88
11:57	33.183	33.294	33.307	32.864
11:58	33.16	33.273	33.287	32.848
11:59	33.138	33.251	33.269	32.83
12:00	33.113	33.23	33.25	32.814
12:01	33.091	33.211	33.23	32.797
12:02	33.07	33.19	33.212	32.78
12:03	33.047	33.17	33.193	32.764
12:04	33.024	33.149	33.173	32.747
12:05	33.001	33.13	33.156	32.731
12:06	32.979	33.108	33.136	32.715
12:07	32.958	33.089	33.118	32.697
12:08	32.935	33.07	33.1	32.681
12:09	32.914	33.05	33.081	32.665
12:10	32.893	33.031	33.063	32.649
12:11	33.04	33.146	33.053	32.639
12:12	33.23	33.297	33.07	32.633
12:13	33.447	33.482	33.105	32.628
12:14	33.683	33.668	33.157	32.628
12:15	33.927	33.87	33.22	32.633
12:16	34.17	34.091	33.297	32.644
12:17	34.418	34.329	33.385	32.663
12:18	34.677	34.55	33.482	32.691
12:19	34.921	34.767	33.587	32.726
12:20	35.15	34.991	33.698	32.767
12:21	35.38	35.202	33.816	32.819
12:22	35.611	35.437	33.938	32.88
12:23	35.835	35.639	34.065	32.951
12:24	36.066	35.869	34.194	33.026
12:25	36.285	36.054	34.331	33.099
12:26	36.498	36.251	34.469	33.169
12:27	36.7	36.459	34.608	33.246
12:28	36.904	36.662	34.749	33.333
12:29	37.102	36.865	34.896	33.419
12:30	37.293	37.066	35.044	33.505
12:31	37.479	37.269	35.193	33.602
12:32	37.528	37.158	35.318	33.672
12:33	37.491	37.018	35.358	33.685
12:34	37.458	36.919	35.35	33.685
12:35	37.422	36.848	35.328	33.683
12:36	37.376	36.795	35.305	33.686
12:37	37.321	36.752	35.285	33.693
12:38	37.259	36.718	35.268	33.701
12:39	37.194	36.688	35.255	33.713
12:40	37.127	36.661	35.245	33.724
12:41	37.057	36.635	35.235	33.739
12:42	36.989	36.61	35.228	33.753
12:43	36.919	36.583	35.222	33.77
12:44	36.853	36.557	35.215	33.786
12:45	36.785	36.53	35.21	33.804
12:46	36.717	36.503	35.203	33.822
12:47	36.647	36.474	35.198	33.84
12:48	36.578	36.447	35.193	33.858
12:49	36.51	36.417	35.187	33.876
12:50	36.445	36.388	35.182	33.893
12:51	36.383	36.358	35.175	33.911
12:52	36.322	36.325	35.168	33.925
12:53	36.263	36.295	35.162	33.942
12:54	36.207	36.263	35.155	33.955
12:55	36.153	36.229	35.147	33.97
12:56	36.101	36.195	35.139	33.981
12:57	36.052	36.162	35.13	33.992
12:58	36.003	36.128	35.12	34.004
12:59	35.956	36.093	35.112	34.014
13:00	35.913	36.057	35.102	34.022
13:01	35.869	36.024	35.092	34.03
13:02	35.825	35.988	35.08	34.038
13:03	35.785	35.953	35.07	34.043

13:04	35.743	35.916	35.059	34.048
13:05	35.703	35.881	35.045	34.053
13:06	35.663	35.845	35.034	34.056
13:07	35.624	35.81	35.021	34.06
13:08	35.587	35.775	35.009	34.061
13:09	35.549	35.738	34.996	34.063
13:10	35.514	35.703	34.981	34.063
13:11	35.477	35.668	34.967	34.063
13:12	35.442	35.632	34.954	34.063
13:13	35.408	35.597	34.939	34.061
13:14	35.373	35.564	34.924	34.058
13:15	35.34	35.529	34.909	34.055
13:16	35.307	35.494	34.894	34.052
13:17	35.275	35.46	34.879	34.048
13:18	35.243	35.425	34.863	34.043
13:19	35.213	35.392	34.848	34.038
13:20	35.183	35.358	34.831	34.033
13:21	35.154	35.325	34.815	34.027
13:22	35.125	35.292	34.8	34.02
13:23	35.097	35.258	34.783	34.014
13:24	35.069	35.225	34.767	34.006
13:25	35.039	35.193	34.75	33.999
13:26	35.011	35.162	34.734	33.991
13:27	34.984	35.13	34.716	33.983
13:28	34.956	35.099	34.699	33.974
13:29	34.928	35.067	34.682	33.965
13:30	34.899	35.035	34.666	33.956
13:31	34.871	35.006	34.648	33.948
13:32	34.841	34.976	34.631	33.938
13:33	34.813	34.946	34.615	33.929
13:34	34.783	34.916	34.596	33.919
13:35	34.755	34.886	34.58	33.909
13:36	34.725	34.856	34.562	33.897
13:37	34.697	34.828	34.545	33.888
13:38	34.668	34.798	34.527	33.876
13:39	34.638	34.77	34.511	33.866
13:40	34.61	34.742	34.492	33.855
13:41	34.58	34.714	34.476	33.842
13:42	34.552	34.684	34.458	33.83
13:43	34.522	34.656	34.44	33.819
13:44	34.494	34.63	34.423	33.807
13:45	34.466	34.601	34.405	33.794
13:46	34.438	34.575	34.389	33.783
13:47	34.41	34.55	34.37	33.77
13:48	34.384	34.524	34.352	33.758
13:49	34.356	34.497	34.336	33.745
13:50	34.329	34.473	34.318	33.732
13:51	34.303	34.446	34.301	33.721
13:52	34.277	34.422	34.283	33.708
13:53	34.252	34.397	34.267	33.695
13:54	34.226	34.372	34.249	33.683
13:55	34.199	34.349	34.232	33.67
13:56	34.175	34.324	34.214	33.657
13:57	34.15	34.3	34.198	33.644
13:58	34.124	34.277	34.181	33.631
13:59	34.098	34.254	34.163	33.618

14:00	34.073	34.229	34.147	33.605
14:01	34.05	34.208	34.13	33.592
14:02	34.025	34.185	34.112	33.579
14:03	34.002	34.162	34.096	33.566
14:04	33.978	34.14	34.079	33.553
14:05	33.953	34.119	34.063	33.54
14:06	33.93	34.098	34.045	33.526
14:07	33.907	34.076	34.029	33.513
14:08	33.884	34.055	34.012	33.5
14:09	33.861	34.033	33.996	33.487
14:10	33.84	34.012	33.979	33.474
14:11	33.817	33.992	33.963	33.461
14:12	33.794	33.971	33.947	33.448
14:13	33.771	33.952	33.93	33.435
14:14	33.75	33.932	33.914	33.422
14:15	33.729	33.912	33.897	33.409
14:16	33.709	33.893	33.881	33.396
14:17	33.688	33.873	33.865	33.383
14:18	33.667	33.853	33.848	33.37
14:19	33.646	33.835	33.834	33.357
14:20	33.626	33.817	33.817	33.344
14:21	33.605	33.798	33.801	33.331
14:22	33.585	33.78	33.785	33.318
14:23	33.564	33.762	33.77	33.305
14:24	33.544	33.744	33.753	33.292
14:25	33.525	33.727	33.739	33.279
14:26	33.505	33.709	33.722	33.268
14:27	33.487	33.691	33.708	33.255
14:28	33.468	33.673	33.691	33.242
14:29	33.448	33.655	33.677	33.229
14:30	33.43	33.639	33.66	33.217
14:31	33.411	33.621	33.646	33.204
14:32	33.393	33.605	33.631	33.191
14:33	33.375	33.588	33.615	33.18
14:34	33.357	33.572	33.6	33.167
14:35	33.339	33.554	33.585	33.156
14:36	33.32	33.538	33.571	33.143
14:37	33.302	33.522	33.554	33.13
14:38	33.284	33.505	33.54	33.118
14:39	33.266	33.489	33.525	33.105
14:40	33.248	33.473	33.51	33.094
14:41	33.232	33.456	33.496	33.081
14:42	33.214	33.442	33.481	33.068
14:43	33.198	33.425	33.465	33.057
14:44	33.18	33.409	33.45	33.044
14:45	33.164	33.395	33.435	33.032
14:46	33.147	33.378	33.421	33.021
14:47	33.13	33.364	33.408	33.008
14:48	33.113	33.349	33.393	32.997
14:49	33.099	33.334	33.378	32.985
14:50	33.083	33.318	33.364	32.972
14:51	33.066	33.303	33.349	32.961
14:52	33.052	33.289	33.334	32.95
14:53	33.035	33.274	33.321	32.938
14:54	33.021	33.26	33.307	32.927
14:55	33.005	33.245	33.292	32.914

14:56	32.99	33.23	33.279	32.903
14:57	32.974	33.217	33.264	32.891
14:58	33.008	33.237	33.251	32.883
14:59	33.173	33.346	33.253	32.883
15:00	33.354	33.496	33.274	32.883
15:01	33.574	33.662	33.312	32.886
15:02	33.803	33.86	33.362	32.891
15:03	34.038	34.068	33.427	32.901
15:04	34.291	34.295	33.5	32.917
15:05	34.529	34.504	33.588	32.938
15:06	34.783	34.74	33.685	32.967
15:07	35.037	34.952	33.788	33.003
15:08	35.282	35.185	33.897	33.045
15:09	35.52	35.4	34.012	33.094
15:10	35.753	35.622	34.135	33.147
15:11	35.988	35.837	34.262	33.208
15:12	36.207	36.052	34.395	33.269
15:13	36.422	36.249	34.532	33.338
15:14	36.623	36.478	34.673	33.417
15:15	36.829	36.688	34.817	33.502
15:16	37.037	36.878	34.966	33.588
15:17	37.252	37.098	35.115	33.677
15:18	37.446	37.275	35.268	33.773
15:19	37.52	37.213	35.403	33.848
15:20	37.504	37.071	35.455	33.873
15:21	37.491	36.974	35.455	33.884
15:22	37.472	36.906	35.44	33.894
15:23	37.443	36.858	35.423	33.906
15:24	37.4	36.821	35.408	33.922
15:25	37.348	36.792	35.398	33.938
15:26	37.288	36.766	35.39	33.958
15:27	37.223	36.744	35.385	33.978
15:28	37.158	36.724	35.382	33.997
15:29	37.093	36.703	35.38	34.02
15:30	37.028	36.685	35.378	34.042
15:31	36.965	36.664	35.378	34.063
15:32	36.904	36.642	35.378	34.086
15:33	36.843	36.62	35.378	34.109
15:34	36.781	36.598	35.378	34.13
15:35	36.722	36.574	35.378	34.153
15:36	36.662	36.55	35.377	34.175
15:37	36.603	36.527	35.377	34.198
15:38	36.547	36.501	35.375	34.217
15:39	36.491	36.474	35.373	34.239
15:40	36.437	36.449	35.372	34.259
15:41	36.386	36.422	35.37	34.277
15:42	36.336	36.393	35.367	34.295
15:43	36.287	36.364	35.363	34.311
15:44	36.239	36.334	35.358	34.328
15:45	36.194	36.303	35.355	34.344
15:46	36.15	36.273	35.35	34.357
15:47	36.108	36.244	35.345	34.37
15:48	36.067	36.214	35.338	34.382
15:49	36.027	36.184	35.332	34.394
15:50	35.988	36.153	35.325	34.403
15:51	35.951	36.123	35.318	34.413
15:52	35.914	36.091	35.312	34.422
15:53	35.879	36.061	35.303	34.428
15:54	35.844	36.029	35.295	34.436
15:55	35.808	35.998	35.287	34.441
15:56	35.775	35.968	35.278	34.446
15:57	35.743	35.938	35.27	34.451
15:58	35.711	35.908	35.262	34.455
15:59	35.679	35.877	35.252	34.458
16:00	35.649	35.847	35.243	34.459
16:01	35.619	35.817	35.233	34.463
16:02	35.591	35.787	35.223	34.463
16:03	35.561	35.756	35.213	34.464
16:04	35.532	35.726	35.203	34.464
16:05	35.504	35.698	35.193	34.463
16:06	35.477	35.669	35.183	34.463
16:07	35.452	35.641	35.173	34.461
16:08	35.427	35.611	35.163	34.461
16:09	35.402	35.582	35.152	34.458
16:10	35.377	35.554	35.142	34.456
16:11	35.352	35.525	35.132	34.455
16:12	35.328	35.497	35.12	34.451
16:13	35.303	35.47	35.11	34.448
16:14	35.278	35.444	35.099	34.445
16:15	35.253	35.415	35.089	34.44
16:16	35.227	35.387	35.077	34.436
16:17	35.202	35.36	35.065	34.431
16:18	35.175	35.333	35.054	34.425
16:19	35.149	35.308	35.042	34.42
16:20	35.122	35.282	35.03	34.413
16:21	35.097	35.255	35.019	34.405
16:22	35.072	35.23	35.007	34.399
16:23	35.047	35.203	34.994	34.392
16:24	35.022	35.177	34.982	34.385
16:25	34.996	35.149	34.971	34.377
16:26	34.971	35.122	34.957	34.369
16:27	34.946	35.095	34.946	34.362
16:28	34.923	35.069	34.933	34.356
16:29	34.898	35.044	34.919	34.347
16:30	34.873	35.019	34.906	34.341
16:31	34.848	34.994	34.893	34.333
16:32	34.825	34.969	34.879	34.324
16:33	34.802	34.946	34.866	34.316
16:34	34.777	34.921	34.853	34.308
16:35	34.752	34.896	34.841	34.3
16:36	34.727	34.873	34.828	34.291
16:37	34.704	34.848	34.815	34.282
16:38	34.682	34.826	34.802	34.272
16:39	34.659	34.803	34.788	34.263
16:40	34.638	34.78	34.775	34.254
16:41	34.615	34.759	34.762	34.245
16:42	34.593	34.737	34.749	34.236
16:43	34.57	34.716	34.735	34.227
16:44	34.549	34.696	34.722	34.217
16:45	34.527	34.676	34.709	34.209
16:46	34.504	34.656	34.696	34.199
16:47	34.483	34.638	34.682	34.191

16:48	34.459	34.618	34.669	34.181
16:49	34.438	34.598	34.656	34.171
16:50	34.417	34.578	34.643	34.162
16:51	34.394	34.56	34.631	34.152
16:52	34.372	34.54	34.618	34.142
16:53	34.349	34.522	34.605	34.132
16:54	34.328	34.504	34.592	34.12
16:55	34.306	34.486	34.578	34.109
16:56	34.287	34.469	34.565	34.098
16:57	34.265	34.451	34.552	34.086
16:58	34.244	34.435	34.539	34.076
16:59	34.221	34.415	34.525	34.066
17:00	34.199	34.397	34.511	34.055
17:01	34.18	34.377	34.497	34.045
17:02	34.16	34.359	34.483	34.035
17:03	34.142	34.341	34.468	34.024
17:04	34.122	34.321	34.453	34.014
17:05	34.104	34.303	34.438	34.002
17:06	34.084	34.283	34.423	33.991
17:07	34.065	34.265	34.407	33.979
17:08	34.043	34.245	34.39	33.968
17:09	34.022	34.227	34.375	33.955
17:10	34.001	34.208	34.359	33.943
17:11	33.981	34.188	34.342	33.93
17:12	33.963	34.168	34.326	33.919
17:13	33.943	34.148	34.31	33.906
17:14	33.924	34.129	34.291	33.893
17:15	33.906	34.111	34.275	33.881
17:16	33.888	34.091	34.259	33.868
17:17	33.868	34.071	34.242	33.855
17:18	33.85	34.052	34.224	33.843
17:19	33.83	34.032	34.208	33.83
17:20	33.812	34.014	34.191	33.817
17:21	33.794	33.994	34.175	33.804
17:22	33.776	33.976	34.158	33.793
17:23	33.758	33.958	34.142	33.78
17:24	33.74	33.94	34.125	33.767
17:25	33.722	33.924	34.109	33.753
17:26	33.706	33.906	34.093	33.742
17:27	33.688	33.889	34.078	33.729
17:28	33.67	33.871	34.061	33.716
17:29	33.654	33.855	34.047	33.704
17:30	33.636	33.839	34.032	33.693
17:31	33.619	33.822	34.017	33.682
17:32	33.603	33.806	34.002	33.668
17:33	33.587	33.791	33.988	33.657
17:34	33.571	33.775	33.973	33.646
17:35	33.554	33.76	33.96	33.634
17:36	33.538	33.744	33.945	33.623
17:37	33.522	33.729	33.932	33.611
17:38	33.505	33.714	33.917	33.6
17:39	33.489	33.7	33.904	33.588
17:40	33.473	33.683	33.889	33.577
17:41	33.458	33.668	33.876	33.566
17:42	33.442	33.654	33.861	33.554
17:43	33.427	33.639	33.848	33.543
17:44	33.412	33.624	33.834	33.531
17:45	33.398	33.61	33.821	33.52
17:46	33.383	33.595	33.806	33.509
17:47	33.368	33.58	33.791	33.497
17:48	33.354	33.564	33.776	33.486
17:49	33.339	33.549	33.762	33.474
17:50	33.325	33.533	33.747	33.463
17:51	33.31	33.517	33.732	33.452
17:52	33.295	33.502	33.717	33.438
17:53	33.281	33.487	33.703	33.427
17:54	33.268	33.471	33.686	33.414
17:55	33.253	33.456	33.672	33.403
17:56	33.24	33.44	33.657	33.39
17:57	33.225	33.425	33.641	33.378
17:58	33.211	33.409	33.626	33.367
17:59	33.198	33.395	33.611	33.354
18:00	33.183	33.38	33.595	33.342
18:01	33.169	33.365	33.58	33.329
18:02	33.277	33.452	33.571	33.326
18:03	33.447	33.571	33.575	33.325
18:04	33.639	33.729	33.597	33.325
18:05	33.871	33.907	33.633	33.328
18:06	34.096	34.114	33.685	33.333
18:07	34.352	34.329	33.749	33.344
18:08	34.603	34.552	33.824	33.362
18:09	34.856	34.764	33.909	33.385
18:10	35.104	34.984	34.004	33.414
18:11	35.338	35.212	34.106	33.45
18:12	35.567	35.445	34.214	33.496
18:13	35.812	35.661	34.328	33.544
18:14	36.035	35.876	34.448	33.597
18:15	36.263	36.106	34.573	33.657
18:16	36.479	36.309	34.702	33.724
18:17	36.69	36.525	34.833	33.798
18:18	36.911	36.734	34.967	33.868
18:19	37.119	36.962	35.105	33.95
18:20	37.295	37.134	35.247	34.027
18:21	37.263	36.929	35.338	34.071
18:22	37.199	36.814	35.358	34.081
18:23	37.146	36.739	35.35	34.084
18:24	37.095	36.686	35.335	34.089
18:25	37.044	36.647	35.322	34.098
18:26	36.998	36.618	35.312	34.107
18:27	36.952	36.595	35.303	34.12
18:28	36.906	36.576	35.298	34.135
18:29	36.856	36.557	35.295	34.152
18:30	36.803	36.539	35.293	34.168
18:31	36.747	36.52	35.293	34.188
18:32	36.691	36.5	35.292	34.208
18:33	36.634	36.478	35.292	34.227
18:34	36.578	36.456	35.292	34.247
18:35	36.522	36.432	35.292	34.267
18:36	36.466	36.407	35.29	34.288
18:37	36.41	36.381	35.29	34.308
18:38	36.354	36.354	35.288	34.326
18:39	36.302	36.327	35.285	34.346

18:40	36.251	36.3	35.283	34.364
18:41	36.2	36.271	35.28	34.38
18:42	36.152	36.243	35.277	34.397
18:43	36.106	36.212	35.273	34.412
18:44	36.061	36.184	35.268	34.427
18:45	36.017	36.153	35.263	34.44
18:46	35.975	36.123	35.258	34.451
18:47	35.934	36.093	35.252	34.463
18:48	35.896	36.061	35.245	34.473
18:49	35.857	36.029	35.238	34.483
18:50	35.82	35.997	35.23	34.492
18:51	35.783	35.963	35.222	34.501
18:52	35.746	35.929	35.213	34.507
18:53	35.711	35.896	35.203	34.514
18:54	35.676	35.864	35.193	34.519
18:55	35.643	35.83	35.183	34.524
18:56	35.607	35.795	35.173	34.527
18:57	35.576	35.761	35.162	34.53
18:58	35.544	35.728	35.15	34.532
18:59	35.51	35.694	35.139	34.534
19:00	35.479	35.659	35.127	34.534
19:01	35.447	35.626	35.114	34.534
19:02	35.417	35.591	35.1	34.532
19:03	35.385	35.556	35.087	34.529
19:04	35.355	35.52	35.072	34.527
19:05	35.325	35.485	35.057	34.524
19:06	35.295	35.45	35.044	34.519
19:07	35.267	35.415	35.027	34.516
19:08	35.24	35.382	35.012	34.511
19:09	35.213	35.347	34.996	34.504
19:10	35.187	35.312	34.981	34.499
19:11	35.16	35.277	34.964	34.492
19:12	35.134	35.242	34.947	34.484
19:13	35.107	35.207	34.931	34.476
19:14	35.079	35.172	34.913	34.468
19:15	35.052	35.139	34.896	34.459
19:16	35.024	35.104	34.878	34.45
19:17	34.996	35.07	34.86	34.44
19:18	34.969	35.037	34.843	34.428
19:19	34.939	35.002	34.825	34.418
19:20	34.911	34.969	34.807	34.407
19:21	34.884	34.936	34.787	34.395
19:22	34.856	34.904	34.768	34.384
19:23	34.83	34.871	34.75	34.372
19:24	34.802	34.84	34.732	34.361
19:25	34.773	34.808	34.712	34.349
19:26	34.745	34.777	34.694	34.336
19:27	34.717	34.745	34.674	34.324
19:28	34.689	34.716	34.656	34.311
19:29	34.659	34.684	34.636	34.298
19:30	34.631	34.654	34.618	34.285
19:31	34.603	34.626	34.598	34.272
19:32	34.575	34.596	34.58	34.257
19:33	34.549	34.567	34.56	34.244
19:34	34.521	34.539	34.542	34.231
19:35	34.492	34.511	34.522	34.216
19:36	34.466	34.483	34.502	34.203
19:37	34.44	34.456	34.484	34.188
19:38	34.413	34.43	34.464	34.173
19:39	34.387	34.405	34.445	34.158
19:40	34.361	34.379	34.427	34.143
19:41	34.336	34.354	34.407	34.129
19:42	34.31	34.329	34.387	34.114
19:43	34.285	34.306	34.369	34.099
19:44	34.26	34.282	34.349	34.084
19:45	34.236	34.259	34.331	34.07
19:46	34.211	34.236	34.313	34.055
19:47	34.186	34.213	34.293	34.04
19:48	34.162	34.191	34.275	34.025
19:49	34.139	34.168	34.257	34.011
19:50	34.116	34.148	34.237	33.997
19:51	34.093	34.127	34.219	33.983
19:52	34.07	34.106	34.201	33.968
19:53	34.048	34.086	34.183	33.955
19:54	34.025	34.066	34.166	33.94
19:55	34.004	34.047	34.148	33.925
19:56	33.983	34.029	34.13	33.912
19:57	33.961	34.011	34.114	33.899
19:58	33.94	33.992	34.096	33.884
19:59	33.919	33.974	34.079	33.871
20:00	33.899	33.956	34.061	33.858
20:01	33.878	33.938	34.045	33.843
20:02	33.858	33.922	34.029	33.83
20:03	33.84	33.906	34.012	33.817
20:04	33.821	33.889	33.996	33.804
20:05	33.801	33.873	33.979	33.791
20:06	33.783	33.857	33.965	33.78
20:07	33.763	33.842	33.948	33.767
20:08	33.745	33.825	33.932	33.753
20:09	33.727	33.811	33.917	33.74
20:10	33.711	33.796	33.902	33.729
20:11	33.693	33.781	33.886	33.716
20:12	33.675	33.767	33.871	33.704
20:13	33.659	33.752	33.857	33.691
20:14	33.641	33.737	33.842	33.678
20:15	33.624	33.722	33.827	33.667
20:16	33.608	33.709	33.812	33.654
20:17	33.592	33.695	33.799	33.642
20:18	33.575	33.68	33.785	33.629
20:19	33.557	33.665	33.77	33.618
20:20	33.541	33.651	33.755	33.605
20:21	33.525	33.636	33.74	33.593
20:22	33.51	33.621	33.727	33.58
20:23	33.496	33.608	33.713	33.567
20:24	33.479	33.593	33.698	33.554
20:25	33.465	33.579	33.683	33.543
20:26	33.45	33.564	33.668	33.53
20:27	33.435	33.549	33.654	33.517
20:28	33.421	33.535	33.639	33.504
20:29	33.406	33.52	33.623	33.491
20:30	33.391	33.505	33.608	33.478
20:31	33.377	33.491	33.593	33.465

20:32	33.362	33.476	33.579	33.452
20:33	33.347	33.46	33.564	33.438
20:34	33.333	33.445	33.549	33.425
20:35	33.318	33.43	33.535	33.412
20:36	33.303	33.416	33.52	33.399
20:37	33.289	33.401	33.505	33.386
20:38	33.274	33.386	33.491	33.373
20:39	33.26	33.372	33.476	33.359
20:40	33.246	33.357	33.461	33.346
20:41	33.232	33.342	33.447	33.333
20:42	33.217	33.328	33.432	33.32
20:43	33.204	33.315	33.417	33.307
20:44	33.19	33.3	33.403	33.294
20:45	33.177	33.286	33.388	33.281
20:46	33.164	33.271	33.373	33.268
20:47	33.232	33.326	33.362	33.26
20:48	33.393	33.455	33.367	33.256
20:49	33.59	33.611	33.39	33.255
20:50	33.807	33.799	33.429	33.255
20:51	34.037	34.006	33.484	33.26
20:52	34.301	34.211	33.553	33.268
20:53	34.552	34.436	33.633	33.281
20:54	34.795	34.671	33.722	33.302
20:55	35.021	34.913	33.821	33.331
20:56	35.262	35.135	33.925	33.362
20:57	35.502	35.36	34.035	33.404
20:58	35.74	35.581	34.15	33.452
20:59	35.973	35.788	34.273	33.504
21:00	36.195	35.998	34.402	33.564
21:01	36.425	36.219	34.535	33.634
21:02	36.622	36.447	34.671	33.709
21:03	36.836	36.659	34.81	33.781
21:04	37.042	36.851	34.952	33.86
21:05	37.247	37.044	35.099	33.942
21:06	37.429	37.232	35.243	34.02
21:07	37.405	37.04	35.338	34.061
21:08	37.35	36.929	35.358	34.068
21:09	37.302	36.856	35.35	34.068
21:10	37.256	36.805	35.333	34.073
21:11	37.206	36.768	35.318	34.079
21:12	37.156	36.741	35.308	34.089
21:13	37.109	36.717	35.3	34.101
21:14	37.056	36.698	35.293	34.114
21:15	37.001	36.681	35.29	34.13
21:16	36.943	36.662	35.288	34.147
21:17	36.883	36.644	35.287	34.165
21:18	36.826	36.625	35.287	34.185
21:19	36.766	36.603	35.285	34.204
21:20	36.708	36.581	35.285	34.224
21:21	36.651	36.559	35.285	34.244
21:22	36.595	36.534	35.285	34.265
21:23	36.539	36.508	35.283	34.285
21:24	36.484	36.483	35.283	34.305
21:25	36.43	36.456	35.282	34.323
21:26	36.378	36.429	35.278	34.341
21:27	36.329	36.401	35.277	34.357
21:28	36.28	36.373	35.273	34.374
21:29	36.231	36.344	35.268	34.389
21:30	36.185	36.314	35.265	34.402
21:31	36.14	36.283	35.26	34.415
21:32	36.094	36.253	35.255	34.428
21:33	36.052	36.221	35.248	34.438
21:34	36.012	36.189	35.242	34.45
21:35	35.973	36.157	35.235	34.458
21:36	35.934	36.125	35.227	34.466
21:37	35.897	36.091	35.218	34.474
21:38	35.862	36.059	35.21	34.481
21:39	35.827	36.025	35.2	34.488
21:40	35.792	35.992	35.19	34.492
21:41	35.758	35.958	35.18	34.496
21:42	35.723	35.924	35.168	34.499
21:43	35.689	35.891	35.157	34.502
21:44	35.656	35.857	35.145	34.504
21:45	35.622	35.824	35.134	34.504
21:46	35.591	35.79	35.122	34.504
21:47	35.559	35.756	35.109	34.504
21:48	35.529	35.723	35.095	34.502
21:49	35.5	35.689	35.082	34.501
21:50	35.47	35.656	35.067	34.499
21:51	35.442	35.622	35.054	34.496
21:52	35.413	35.589	35.039	34.492
21:53	35.385	35.557	35.024	34.488
21:54	35.357	35.524	35.011	34.483
21:55	35.33	35.49	34.996	34.479
21:56	35.302	35.459	34.979	34.473
21:57	35.273	35.427	34.964	34.468
21:58	35.247	35.395	34.949	34.461
21:59	35.22	35.363	34.933	34.455
22:00	35.195	35.332	34.918	34.448
22:01	35.168	35.3	34.901	34.44
22:02	35.144	35.268	34.886	34.431
22:03	35.119	35.238	34.87	34.423
22:04	35.092	35.208	34.853	34.415
22:05	35.067	35.178	34.836	34.405
22:06	35.04	35.149	34.82	34.397
22:07	35.016	35.119	34.803	34.387
22:08	34.989	35.089	34.787	34.377
22:09	34.961	35.059	34.77	34.367
22:10	34.934	35.03	34.754	34.357
22:11	34.908	35.001	34.737	34.346
22:12	34.881	34.972	34.719	34.334
22:13	34.855	34.944	34.702	34.323
22:14	34.83	34.916	34.686	34.311
22:15	34.805	34.888	34.668	34.298
22:16	34.78	34.86	34.649	34.287
22:17	34.754	34.831	34.633	34.273
22:18	34.729	34.803	34.615	34.262
22:19	34.702	34.775	34.596	34.249
22:20	34.676	34.749	34.578	34.236
22:21	34.651	34.72	34.56	34.222
22:22	34.626	34.694	34.544	34.209
22:23	34.6	34.668	34.525	34.194

22:24	34.575	34.641	34.507	34.181
22:25	34.55	34.615	34.489	34.168
22:26	34.525	34.588	34.471	34.153
22:27	34.501	34.562	34.453	34.14
22:28	34.478	34.537	34.435	34.125
22:29	34.453	34.511	34.417	34.112
22:30	34.428	34.486	34.399	34.098
22:31	34.403	34.461	34.38	34.083
22:32	34.38	34.436	34.362	34.068
22:33	34.356	34.412	34.344	34.055
22:34	34.333	34.387	34.328	34.04
22:35	34.31	34.364	34.31	34.025
22:36	34.287	34.339	34.291	34.011
22:37	34.263	34.316	34.273	33.996
22:38	34.24	34.293	34.255	33.981
22:39	34.217	34.27	34.237	33.966
22:40	34.194	34.249	34.221	33.952
22:41	34.173	34.226	34.203	33.937
22:42	34.15	34.203	34.185	33.922
22:43	34.129	34.181	34.166	33.907
22:44	34.106	34.158	34.15	33.891
22:45	34.084	34.137	34.132	33.876
22:46	34.063	34.116	34.114	33.861
22:47	34.042	34.094	34.098	33.847
22:48	34.02	34.073	34.079	33.832
22:49	33.999	34.052	34.061	33.816
22:50	33.978	34.032	34.045	33.801
22:51	33.956	34.011	34.027	33.786
22:52	33.937	33.991	34.009	33.77
22:53	33.915	33.97	33.992	33.755
22:54	33.896	33.95	33.974	33.74
22:55	33.875	33.93	33.958	33.724
22:56	33.853	33.911	33.94	33.709
22:57	33.834	33.891	33.922	33.695
22:58	33.812	33.871	33.906	33.678
22:59	33.793	33.852	33.888	33.664
23:00	33.773	33.834	33.871	33.647
23:01	33.753	33.814	33.853	33.633
23:02	33.734	33.794	33.837	33.616
23:03	33.716	33.776	33.819	33.602
23:04	33.696	33.757	33.803	33.585
23:05	33.677	33.739	33.785	33.571
23:06	33.655	33.721	33.768	33.554
23:07	33.634	33.703	33.75	33.538
23:08	33.615	33.683	33.734	33.523
23:09	33.597	33.665	33.716	33.507
23:10	33.579	33.647	33.7	33.491
23:11	33.561	33.629	33.682	33.476
23:12	33.543	33.61	33.665	33.461
23:13	33.523	33.592	33.647	33.445
23:14	33.505	33.574	33.631	33.43
23:15	33.486	33.557	33.613	33.414
23:16	33.468	33.54	33.597	33.399
23:17	33.45	33.522	33.579	33.383
23:18	33.432	33.504	33.562	33.368
23:19	33.414	33.486	33.546	33.352
23:20	33.396	33.469	33.528	33.338
23:21	33.378	33.452	33.512	33.323
23:22	33.362	33.434	33.496	33.307
23:23	33.344	33.417	33.478	33.292
23:24	33.326	33.399	33.461	33.276
23:25	33.31	33.383	33.445	33.261
23:26	33.292	33.365	33.427	33.246
23:27	33.276	33.349	33.411	33.232
23:28	33.258	33.333	33.395	33.216
23:29	33.242	33.315	33.378	33.201
23:30	33.224	33.299	33.362	33.186
23:31	33.208	33.282	33.346	33.172
23:32	33.19	33.266	33.329	33.156
23:33	33.173	33.25	33.313	33.141
23:34	33.157	33.233	33.297	33.126
23:35	33.141	33.217	33.281	33.112
23:36	33.125	33.201	33.264	33.097
23:37	33.108	33.185	33.248	33.083
23:38	33.092	33.169	33.232	33.066
23:39	33.076	33.152	33.216	33.052
23:40	33.06	33.138	33.201	33.037
23:41	33.196	33.245	33.193	33.032
23:42	33.372	33.383	33.206	33.029
23:43	33.562	33.561	33.238	33.024
23:44	33.788	33.76	33.286	33.024
23:45	34.011	33.968	33.346	33.027
23:46	34.255	34.198	33.417	33.037
23:47	34.504	34.425	33.5	33.055
23:48	34.754	34.649	33.593	33.079
23:49	34.997	34.873	33.696	33.105
23:50	35.24	35.115	33.804	33.141
23:51	35.47	35.352	33.92	33.183
23:52	35.699	35.559	34.042	33.237
23:53	35.928	35.767	34.166	33.294
23:54	36.138	35.983	34.293	33.352
23:55	36.356	36.202	34.425	33.417
23:56	36.566	36.442	34.562	33.487
23:57	36.776	36.634	34.702	33.562
23:58	36.993	36.844	34.845	33.649
23:59	37.191	37.044	34.992	33.74
0:00	37.391	37.254	35.142	33.83
0:01	37.401	37.073	35.258	33.884
0:02	37.353	36.941	35.288	33.894
0:03	37.31	36.856	35.28	33.893
0:04	37.266	36.798	35.263	33.894
0:05	37.218	36.756	35.245	33.899
0:06	37.167	36.724	35.232	33.907
0:07	37.115	36.698	35.22	33.917
0:08	37.063	36.676	35.212	33.929
0:09	37.004	36.657	35.207	33.943
0:10	36.943	36.637	35.202	33.96
0:11	36.882	36.617	35.198	33.976
0:12	36.819	36.595	35.197	33.996
0:13	36.756	36.571	35.195	34.015
0:14	36.695	36.547	35.193	34.035
0:15	36.634	36.522	35.19	34.055

0:16	36.574	36.495	35.188	34.076
0:17	36.515	36.467	35.185	34.096
0:18	36.456	36.439	35.183	34.114
0:19	36.4	36.41	35.18	34.134
0:20	36.344	36.381	35.175	34.15
0:21	36.29	36.351	35.172	34.168
0:22	36.238	36.32	35.167	34.183
0:23	36.187	36.288	35.162	34.198
0:24	36.136	36.256	35.155	34.213
0:25	36.089	36.222	35.149	34.224
0:26	36.044	36.19	35.142	34.237
0:27	35.998	36.157	35.134	34.247
0:28	35.955	36.123	35.125	34.257
0:29	35.913	36.088	35.117	34.267
0:30	35.871	36.054	35.109	34.273
0:31	35.832	36.019	35.099	34.282
0:32	35.792	35.985	35.089	34.287
0:33	35.753	35.95	35.077	34.291
0:34	35.716	35.914	35.067	34.296
0:35	35.679	35.879	35.055	34.3
0:36	35.643	35.844	35.044	34.303
0:37	35.607	35.808	35.03	34.303
0:38	35.572	35.773	35.019	34.305
0:39	35.539	35.738	35.006	34.305
0:40	35.505	35.704	34.992	34.305
0:41	35.472	35.669	34.977	34.303
0:42	35.44	35.634	34.964	34.301
0:43	35.407	35.599	34.949	34.298
0:44	35.375	35.564	34.934	34.295
0:45	35.345	35.53	34.919	34.291
0:46	35.313	35.495	34.904	34.287
0:47	35.283	35.46	34.889	34.282
0:48	35.253	35.427	34.873	34.277
0:49	35.223	35.393	34.856	34.27
0:50	35.195	35.36	34.841	34.263
0:51	35.167	35.325	34.825	34.257
0:52	35.139	35.292	34.808	34.25
0:53	35.11	35.258	34.792	34.242
0:54	35.084	35.225	34.773	34.234
0:55	35.055	35.193	34.757	34.226
0:56	35.029	35.16	34.74	34.216
0:57	35.002	35.129	34.722	34.208
0:58	34.976	35.095	34.704	34.198
0:59	34.947	35.064	34.687	34.186
1:00	34.921	35.032	34.669	34.176
1:01	34.894	35.002	34.651	34.166
1:02	34.868	34.971	34.633	34.155
1:03	34.84	34.939	34.615	34.143
1:04	34.813	34.909	34.596	34.132
1:05	34.785	34.879	34.578	34.119
1:06	34.759	34.85	34.56	34.107
1:07	34.732	34.82	34.542	34.094
1:08	34.704	34.79	34.524	34.083
1:09	34.677	34.76	34.506	34.07
1:10	34.651	34.732	34.488	34.056
1:11	34.623	34.702	34.468	34.043
1:12	34.596	34.673	34.45	34.03
1:13	34.57	34.644	34.431	34.017
1:14	34.542	34.616	34.412	34.004
1:15	34.516	34.588	34.394	33.989
1:16	34.489	34.56	34.375	33.976
1:17	34.463	34.534	34.356	33.961
1:18	34.436	34.506	34.338	33.947
1:19	34.41	34.479	34.318	33.932
1:20	34.384	34.453	34.3	33.917
1:21	34.357	34.427	34.28	33.902
1:22	34.331	34.4	34.262	33.888
1:23	34.305	34.375	34.242	33.873
1:24	34.28	34.349	34.224	33.857
1:25	34.255	34.323	34.204	33.842
1:26	34.231	34.296	34.186	33.827
1:27	34.206	34.27	34.166	33.812
1:28	34.181	34.245	34.147	33.796
1:29	34.157	34.219	34.127	33.781
1:30	34.132	34.194	34.109	33.765
1:31	34.107	34.17	34.089	33.749
1:32	34.083	34.147	34.07	33.734
1:33	34.058	34.122	34.052	33.717
1:34	34.033	34.098	34.032	33.701
1:35	34.011	34.073	34.012	33.686
1:36	33.988	34.05	33.992	33.67
1:37	33.963	34.025	33.974	33.654
1:38	33.94	34.002	33.955	33.637
1:39	33.917	33.978	33.935	33.621
1:40	33.894	33.955	33.917	33.605
1:41	33.871	33.932	33.897	33.588
1:42	33.848	33.909	33.878	33.574
1:43	33.825	33.886	33.86	33.557
1:44	33.803	33.863	33.84	33.541
1:45	33.781	33.84	33.821	33.525
1:46	33.758	33.819	33.803	33.507
1:47	33.735	33.796	33.783	33.491
1:48	33.714	33.775	33.765	33.474
1:49	33.691	33.753	33.745	33.458
1:50	33.67	33.732	33.726	33.442
1:51	33.649	33.711	33.708	33.425
1:52	33.626	33.69	33.688	33.408
1:53	33.605	33.668	33.67	33.391
1:54	33.584	33.647	33.652	33.375
1:55	33.562	33.628	33.633	33.359
1:56	33.541	33.606	33.615	33.341
1:57	33.52	33.585	33.595	33.325
1:58	33.499	33.566	33.577	33.308
1:59	33.479	33.544	33.559	33.292
2:00	33.458	33.523	33.54	33.276
2:01	33.438	33.504	33.522	33.26
2:02	33.417	33.482	33.502	33.242
2:03	33.398	33.463	33.484	33.225
2:04	33.377	33.443	33.466	33.209
2:05	33.357	33.424	33.447	33.193
2:06	33.338	33.404	33.429	33.177
2:07	33.318	33.385	33.411	33.16

2:08	33.297	33.364	33.393	33.144
2:09	33.277	33.346	33.373	33.126
2:10	33.258	33.326	33.355	33.11
2:11	33.238	33.307	33.338	33.094
2:12	33.219	33.287	33.32	33.078
2:13	33.199	33.269	33.302	33.061
2:14	33.18	33.25	33.284	33.045
2:15	33.162	33.232	33.266	33.029
2:16	33.143	33.212	33.248	33.013
2:17	33.123	33.195	33.23	32.997
2:18	33.104	33.177	33.212	32.979
2:19	33.084	33.159	33.195	32.963
2:20	33.066	33.139	33.177	32.946
2:21	33.048	33.121	33.159	32.93
2:22	33.029	33.104	33.141	32.914
2:23	33.011	33.086	33.123	32.898
2:24	32.993	33.066	33.105	32.882
2:25	32.976	33.048	33.087	32.865
2:26	33.048	33.117	33.073	32.856
2:27	33.212	33.256	33.079	32.851
2:28	33.409	33.417	33.107	32.849
2:29	33.619	33.602	33.152	32.848
2:30	33.857	33.804	33.209	32.849
2:31	34.098	34.015	33.279	32.854
2:32	34.334	34.252	33.362	32.869
2:33	34.563	34.483	33.453	32.891
2:34	34.8	34.711	33.553	32.92
2:35	35.022	34.957	33.66	32.958
2:36	35.247	35.185	33.776	33.006
2:37	35.462	35.42	33.897	33.063
2:38	35.698	35.631	34.02	33.126
2:39	35.909	35.855	34.145	33.19
2:40	36.136	36.049	34.277	33.258
2:41	36.356	36.27	34.413	33.329
2:42	36.562	36.478	34.552	33.403
2:43	36.761	36.691	34.694	33.481
2:44	36.965	36.912	34.836	33.562
2:45	36.969	36.73	34.943	33.618
2:46	36.906	36.591	34.969	33.624
2:47	36.855	36.503	34.956	33.619
2:48	36.815	36.444	34.934	33.618
2:49	36.78	36.401	34.913	33.621
2:50	36.744	36.371	34.896	33.626
2:51	36.702	36.346	34.883	33.633
2:52	36.651	36.325	34.873	33.641
2:53	36.593	36.303	34.865	33.651
2:54	36.53	36.283	34.858	33.662
2:55	36.464	36.261	34.855	33.675
2:56	36.398	36.239	34.85	33.688
2:57	36.332	36.216	34.846	33.703
2:58	36.266	36.19	34.843	33.719
2:59	36.202	36.163	34.841	33.734
3:00	36.14	36.136	34.838	33.75
3:01	36.077	36.108	34.833	33.767
3:02	36.019	36.079	34.83	33.781
3:03	35.96	36.049	34.825	33.796

3:04	35.901	36.019	34.821	33.811
3:05	35.845	35.988	34.817	33.824
3:06	35.79	35.956	34.81	33.837
3:07	35.738	35.924	34.803	33.848
3:08	35.688	35.891	34.797	33.86
3:09	35.637	35.859	34.79	33.871
3:10	35.591	35.825	34.782	33.881
3:11	35.545	35.792	34.773	33.889
3:12	35.502	35.756	34.765	33.897
3:13	35.459	35.723	34.755	33.906
3:14	35.417	35.688	34.745	33.912
3:15	35.377	35.654	34.735	33.917
3:16	35.338	35.619	34.725	33.922
3:17	35.3	35.584	34.714	33.925
3:18	35.263	35.549	34.702	33.929
3:19	35.227	35.514	34.689	33.93
3:20	35.19	35.479	34.677	33.932
3:21	35.154	35.444	34.664	33.932
3:22	35.117	35.408	34.651	33.932
3:23	35.084	35.373	34.638	33.93
3:24	35.052	35.338	34.623	33.929
3:25	35.021	35.303	34.61	33.927
3:26	34.989	35.268	34.595	33.924
3:27	34.959	35.232	34.578	33.92
3:28	34.928	35.197	34.563	33.915
3:29	34.898	35.162	34.547	33.911
3:30	34.868	35.127	34.532	33.906
3:31	34.84	35.092	34.516	33.899
3:32	34.81	35.057	34.499	33.893
3:33	34.782	35.022	34.481	33.886
3:34	34.754	34.989	34.464	33.879
3:35	34.727	34.954	34.448	33.871
3:36	34.701	34.921	34.43	33.861
3:37	34.673	34.886	34.412	33.852
3:38	34.646	34.853	34.395	33.843
3:39	34.621	34.82	34.377	33.834
3:40	34.595	34.787	34.359	33.824
3:41	34.568	34.752	34.341	33.812
3:42	34.542	34.72	34.321	33.803
3:43	34.516	34.687	34.303	33.791
3:44	34.488	34.654	34.285	33.78
3:45	34.461	34.623	34.265	33.768
3:46	34.435	34.592	34.247	33.757
3:47	34.408	34.559	34.227	33.745
3:48	34.38	34.527	34.208	33.732
3:49	34.354	34.497	34.189	33.719
3:50	34.326	34.466	34.17	33.708
3:51	34.3	34.435	34.15	33.693
3:52	34.272	34.405	34.13	33.68
3:53	34.245	34.374	34.111	33.667
3:54	34.217	34.344	34.091	33.654
3:55	34.191	34.315	34.071	33.639
3:56	34.165	34.283	34.052	33.626
3:57	34.139	34.254	34.032	33.611
3:58	34.111	34.224	34.012	33.597
3:59	34.084	34.196	33.992	33.582

4:00	34.058	34.166	33.973	33.567
4:01	34.032	34.139	33.953	33.553
4:02	34.006	34.111	33.933	33.538
4:03	33.979	34.083	33.914	33.523
4:04	33.955	34.055	33.894	33.507
4:05	33.929	34.027	33.875	33.492
4:06	33.902	33.999	33.855	33.478
4:07	33.878	33.973	33.834	33.461
4:08	33.852	33.947	33.814	33.445
4:09	33.827	33.919	33.794	33.43
4:10	33.803	33.893	33.775	33.414
4:11	33.778	33.866	33.755	33.398
4:12	33.753	33.842	33.735	33.381
4:13	33.729	33.816	33.716	33.365
4:14	33.704	33.789	33.696	33.349
4:15	33.68	33.765	33.677	33.333
4:16	33.657	33.739	33.657	33.316
4:17	33.633	33.714	33.637	33.3
4:18	33.61	33.69	33.618	33.284
4:19	33.585	33.665	33.6	33.268
4:20	33.562	33.641	33.58	33.251
4:21	33.54	33.616	33.561	33.235
4:22	33.517	33.593	33.541	33.217
4:23	33.492	33.569	33.522	33.201
4:24	33.469	33.544	33.502	33.185
4:25	33.448	33.522	33.482	33.169
4:26	33.425	33.499	33.463	33.151
4:27	33.403	33.476	33.445	33.134
4:28	33.38	33.453	33.425	33.118
4:29	33.359	33.43	33.406	33.1
4:30	33.336	33.408	33.386	33.084
4:31	33.313	33.385	33.367	33.068
4:32	33.292	33.362	33.349	33.05
4:33	33.271	33.341	33.329	33.034
4:34	33.248	33.318	33.31	33.018
4:35	33.227	33.297	33.292	33
4:36	33.206	33.276	33.273	32.984
4:37	33.185	33.255	33.253	32.967
4:38	33.164	33.232	33.235	32.95
4:39	33.143	33.212	33.216	32.933
4:40	33.121	33.191	33.198	32.916
4:41	33.1	33.17	33.178	32.899
4:42	33.079	33.149	33.16	32.883
4:43	33.058	33.13	33.141	32.865
4:44	33.039	33.108	33.123	32.849
4:45	33.018	33.089	33.104	32.833
4:46	32.998	33.07	33.086	32.815
4:47	32.977	33.048	33.066	32.799
4:48	32.958	33.029	33.048	32.783
4:49	32.938	33.01	33.031	32.765
4:50	32.917	32.99	33.011	32.749
4:51	32.898	32.971	32.993	32.733
4:52	32.878	32.951	32.976	32.717
4:53	33.005	33.081	32.966	32.713
4:54	33.165	33.242	32.982	32.718
4:55	33.349	33.422	33.019	32.728
4:56	33.557	33.624	33.071	32.733
4:57	33.794	33.842	33.134	32.738
4:58	34.037	34.061	33.209	32.749
4:59	34.275	34.301	33.295	32.768
5:00	34.516	34.539	33.39	32.796
5:01	34.744	34.765	33.491	32.828
5:02	34.971	34.997	33.598	32.867
5:03	35.198	35.21	33.713	32.914
5:04	35.422	35.429	33.835	32.963
5:05	35.641	35.656	33.96	33.018
5:06	35.862	35.884	34.089	33.074
5:07	36.079	36.099	34.222	33.138
5:08	36.27	36.293	34.357	33.209
5:09	36.456	36.501	34.496	33.282
5:10	36.671	36.708	34.638	33.368
5:11	36.863	36.909	34.78	33.447
5:12	36.86	36.673	34.879	33.487
5:13	36.805	36.53	34.899	33.491
5:14	36.764	36.44	34.883	33.487
5:15	36.732	36.379	34.86	33.487
5:16	36.703	36.337	34.836	33.491
5:17	36.671	36.303	34.818	33.497
5:18	36.627	36.276	34.802	33.505
5:19	36.574	36.251	34.79	33.517
5:20	36.513	36.227	34.78	33.528
5:21	36.447	36.202	34.772	33.541
5:22	36.379	36.177	34.765	33.554
5:23	36.31	36.15	34.759	33.569
5:24	36.241	36.123	34.754	33.584
5:25	36.173	36.093	34.749	33.6
5:26	36.106	36.064	34.744	33.616
5:27	36.04	36.032	34.737	33.631
5:28	35.976	36	34.732	33.647
5:29	35.914	35.968	34.725	33.662
5:30	35.852	35.936	34.719	33.678
5:31	35.792	35.902	34.712	33.691
5:32	35.733	35.869	34.704	33.706
5:33	35.676	35.835	34.696	33.719
5:34	35.621	35.8	34.687	33.731
5:35	35.569	35.767	34.679	33.742
5:36	35.517	35.731	34.671	33.753
5:37	35.467	35.696	34.661	33.763
5:38	35.42	35.661	34.651	33.771
5:39	35.373	35.626	34.639	33.78
5:40	35.33	35.591	34.63	33.786
5:41	35.287	35.556	34.618	33.793
5:42	35.245	35.519	34.605	33.799
5:43	35.205	35.484	34.593	33.803
5:44	35.165	35.447	34.58	33.807
5:45	35.125	35.412	34.568	33.809
5:46	35.089	35.375	34.554	33.811
5:47	35.05	35.34	34.54	33.812
5:48	35.014	35.305	34.527	33.812
5:49	34.979	35.268	34.512	33.812
5:50	34.944	35.233	34.497	33.811
5:51	34.909	35.198	34.483	33.809

5:52	34.876	35.162	34.468	33.806
5:53	34.843	35.127	34.451	33.803
5:54	34.81	35.09	34.436	33.799
5:55	34.778	35.055	34.42	33.794
5:56	34.747	35.021	34.403	33.789
5:57	34.717	34.984	34.387	33.785
5:58	34.687	34.949	34.369	33.778
5:59	34.658	34.914	34.352	33.771
6:00	34.63	34.878	34.334	33.763
6:01	34.601	34.843	34.318	33.757
6:02	34.573	34.808	34.3	33.749
6:03	34.545	34.773	34.282	33.74
6:04	34.519	34.739	34.263	33.731
6:05	34.492	34.706	34.245	33.722
6:06	34.466	34.671	34.226	33.713
6:07	34.44	34.638	34.208	33.701
6:08	34.412	34.605	34.189	33.691
6:09	34.385	34.572	34.17	33.68
6:10	34.357	34.539	34.152	33.668
6:11	34.329	34.506	34.132	33.657
6:12	34.303	34.473	34.112	33.646
6:13	34.275	34.441	34.093	33.634
6:14	34.249	34.41	34.075	33.621
6:15	34.221	34.377	34.055	33.608
6:16	34.193	34.346	34.035	33.595
6:17	34.165	34.315	34.015	33.582
6:18	34.137	34.285	33.996	33.569
6:19	34.109	34.254	33.976	33.556
6:20	34.081	34.224	33.956	33.543
6:21	34.053	34.194	33.935	33.528
6:22	34.027	34.165	33.915	33.513
6:23	33.999	34.135	33.896	33.5
6:24	33.971	34.106	33.876	33.486
6:25	33.943	34.076	33.857	33.471
6:26	33.917	34.048	33.835	33.455
6:27	33.889	34.019	33.816	33.44
6:28	33.863	33.991	33.796	33.425
6:29	33.837	33.961	33.776	33.409
6:30	33.811	33.933	33.755	33.395
6:31	33.785	33.904	33.735	33.378
6:32	33.758	33.876	33.714	33.364
6:33	33.732	33.848	33.695	33.347
6:34	33.706	33.821	33.673	33.331
6:35	33.68	33.794	33.654	33.315
6:36	33.654	33.767	33.633	33.299
6:37	33.629	33.74	33.613	33.282
6:38	33.603	33.713	33.592	33.264
6:39	33.579	33.686	33.572	33.248
6:40	33.553	33.66	33.551	33.23
6:41	33.528	33.634	33.53	33.214
6:42	33.504	33.608	33.51	33.196
6:43	33.478	33.582	33.489	33.18
6:44	33.453	33.556	33.468	33.162
6:45	33.429	33.53	33.448	33.144
6:46	33.404	33.504	33.427	33.128
6:47	33.38	33.479	33.406	33.11

6:48	33.357	33.455	33.385	33.092
6:49	33.333	33.429	33.365	33.074
6:50	33.308	33.404	33.344	33.057
6:51	33.284	33.38	33.323	33.039
6:52	33.261	33.355	33.302	33.021
6:53	33.237	33.331	33.282	33.003
6:54	33.214	33.307	33.261	32.985
6:55	33.19	33.282	33.24	32.967
6:56	33.165	33.258	33.22	32.95
6:57	33.141	33.233	33.199	32.932
6:58	33.118	33.211	33.178	32.914
6:59	33.095	33.186	33.159	32.895
7:00	33.073	33.164	33.138	32.877
7:01	33.05	33.139	33.117	32.859
7:02	33.027	33.115	33.095	32.841
7:03	33.005	33.092	33.074	32.822
7:04	32.982	33.068	33.055	32.804
7:05	32.959	33.044	33.034	32.786
7:06	32.937	33.021	33.013	32.767
7:07	32.914	32.997	32.992	32.747
7:08	32.988	33.087	32.976	32.734
7:09	33.152	33.235	32.985	32.726
7:10	33.334	33.412	33.018	32.718
7:11	33.544	33.61	33.065	32.709
7:12	33.763	33.827	33.126	32.707
7:13	33.994	34.048	33.199	32.71
7:14	34.237	34.282	33.281	32.72
7:15	34.489	34.516	33.373	32.736
7:16	34.722	34.725	33.471	32.76
7:17	34.946	34.959	33.579	32.788
7:18	35.175	35.165	33.691	32.825
7:19	35.388	35.388	33.807	32.869
7:20	35.627	35.609	33.93	32.917
7:21	35.832	35.798	34.058	32.971
7:22	36.045	36.017	34.189	33.026
7:23	36.249	36.217	34.323	33.081
7:24	36.454	36.434	34.458	33.138
7:25	36.644	36.622	34.595	33.199
7:26	36.838	36.81	34.734	33.263
7:27	36.996	36.889	34.868	33.334
7:28	36.924	36.693	34.939	33.37
7:29	36.855	36.579	34.941	33.378
7:30	36.803	36.506	34.918	33.38
7:31	36.761	36.454	34.891	33.386
7:32	36.72	36.417	34.868	33.395
7:33	36.673	36.386	34.848	33.404
7:34	36.615	36.358	34.833	33.416
7:35	36.549	36.329	34.82	33.429
7:36	36.476	36.302	34.808	33.442
7:37	36.401	36.271	34.8	33.455
7:38	36.327	36.241	34.79	33.468
7:39	36.253	36.209	34.782	33.482
7:40	36.179	36.175	34.773	33.497
7:41	36.108	36.141	34.765	33.512
7:42	36.037	36.104	34.757	33.526
7:43	35.968	36.067	34.749	33.54

7:44	35.901	36.03	34.739	33.554
7:45	35.834	35.992	34.729	33.567
7:46	35.77	35.951	34.719	33.579
7:47	35.706	35.911	34.707	33.592
7:48	35.644	35.871	34.696	33.603
7:49	35.584	35.829	34.684	33.615
7:50	35.527	35.788	34.671	33.624
7:51	35.472	35.746	34.658	33.633
7:52	35.418	35.704	34.644	33.642
7:53	35.368	35.663	34.63	33.649
7:54	35.318	35.621	34.615	33.655
7:55	35.27	35.579	34.6	33.66
7:56	35.223	35.539	34.583	33.665
7:57	35.177	35.497	34.568	33.667
7:58	35.132	35.455	34.552	33.67
7:59	35.089	35.413	34.534	33.672
8:00	35.047	35.372	34.517	33.672
8:01	35.004	35.328	34.499	33.672
8:02	34.964	35.287	34.481	33.67
8:03	34.923	35.245	34.463	33.668
8:04	34.884	35.203	34.445	33.665
8:05	34.845	35.162	34.425	33.662
8:06	34.807	35.12	34.407	33.659
8:07	34.77	35.079	34.387	33.654
8:08	34.734	35.037	34.367	33.649
8:09	34.697	34.996	34.347	33.642
8:10	34.663	34.954	34.326	33.636
8:11	34.628	34.914	34.306	33.628
8:12	34.595	34.873	34.285	33.619
8:13	34.563	34.833	34.265	33.611
8:14	34.532	34.793	34.244	33.603
8:15	34.501	34.754	34.222	33.595
8:16	34.471	34.714	34.201	33.585
8:17	34.441	34.674	34.181	33.575
8:18	34.412	34.634	34.16	33.564
8:19	34.38	34.596	34.139	33.554
8:20	34.351	34.559	34.116	33.543
8:21	34.321	34.521	34.094	33.531
8:22	34.29	34.483	34.073	33.52
8:23	34.26	34.446	34.052	33.507
8:24	34.229	34.41	34.03	33.496
8:25	34.198	34.374	34.007	33.482
8:26	34.166	34.338	33.986	33.469
8:27	34.137	34.303	33.965	33.455
8:28	34.106	34.267	33.942	33.442
8:29	34.075	34.232	33.92	33.427
8:30	34.043	34.198	33.897	33.412
8:31	34.012	34.163	33.876	33.398
8:32	33.981	34.129	33.853	33.383
8:33	33.952	34.093	33.83	33.368
8:34	33.92	34.058	33.807	33.354
8:35	33.889	34.024	33.786	33.338
8:36	33.858	33.991	33.763	33.321
8:37	33.829	33.958	33.74	33.307
8:38	33.798	33.925	33.717	33.29
8:39	33.768	33.893	33.695	33.273
8:40	33.739	33.861	33.673	33.256
8:41	33.709	33.829	33.651	33.24
8:42	33.68	33.798	33.628	33.222
8:43	33.651	33.767	33.605	33.206
8:44	33.621	33.735	33.584	33.188
8:45	33.592	33.706	33.561	33.17
8:46	33.564	33.675	33.538	33.154
8:47	33.535	33.646	33.517	33.136
8:48	33.507	33.616	33.494	33.118
8:49	33.479	33.587	33.473	33.1
8:50	33.452	33.559	33.45	33.084
8:51	33.424	33.531	33.429	33.066
8:52	33.396	33.504	33.408	33.048
8:53	33.368	33.476	33.386	33.031
8:54	33.342	33.45	33.365	33.013
8:55	33.315	33.424	33.344	32.995
8:56	33.289	33.398	33.323	32.977
8:57	33.263	33.372	33.302	32.959
8:58	33.237	33.346	33.281	32.941
8:59	33.211	33.32	33.26	32.924
9:00	33.186	33.295	33.238	32.906
9:01	33.16	33.271	33.219	32.89
9:02	33.136	33.246	33.198	32.872
9:03	33.11	33.222	33.177	32.854
9:04	33.086	33.198	33.157	32.836
9:05	33.061	33.173	33.136	32.82
9:06	33.037	33.151	33.117	32.802
9:07	33.014	33.128	33.095	32.785
9:08	32.99	33.104	33.076	32.768
9:09	32.966	33.083	33.057	32.751
9:10	32.943	33.06	33.037	32.733
9:11	32.919	33.037	33.016	32.715
9:12	32.896	33.016	32.997	32.697
9:13	32.874	32.993	32.977	32.681
9:14	32.851	32.972	32.958	32.663
9:15	32.828	32.951	32.938	32.646
9:16	32.806	32.93	32.919	32.628
9:17	32.859	32.988	32.903	32.615
9:18	33.029	33.146	32.911	32.605
9:19	33.227	33.316	32.945	32.597
9:20	33.448	33.51	32.998	32.591
9:21	33.677	33.701	33.07	32.591
9:22	33.901	33.893	33.149	32.597
9:23	34.134	34.056	33.237	32.612
9:24	34.372	34.224	33.329	32.633
9:25	34.583	34.433	33.429	32.66
9:26	34.8	34.639	33.531	32.692
9:27	35.017	34.843	33.642	32.733
9:28	35.253	35.047	33.76	32.783
9:29	35.489	35.245	33.884	32.835
9:30	35.696	35.44	34.015	32.891
9:31	35.902	35.631	34.15	32.958
9:32	36.131	35.819	34.288	33.031
9:33	36.319	36.012	34.428	33.105
9:34	36.51	36.214	34.573	33.185

H. Temperature from core to outer surface-no plates in Heating foil incubator

Time	Core, T1	Inner air, T2	Inner wall, T3	Outer wall, T4
7:48	29.814	29.956	29.679	29.205
7:49	29.732	29.839	29.547	29.078
7:50	30.06	30.059	29.58	28.986
7:51	30.605	30.507	29.746	28.922
7:52	31.327	31.087	30.011	28.874
7:53	32.06	31.732	30.315	28.83
7:54	32.785	32.368	30.67	28.788
7:55	33.456	32.992	31.031	28.748
7:56	34.071	33.58	31.402	28.715
7:57	34.704	34.16	31.778	28.687
7:58	35.26	34.724	32.158	28.655
7:59	35.783	35.24	32.531	28.62
8:00	36.28	35.699	32.872	28.596
8:01	36.741	36.131	33.233	28.579
8:02	37.199	36.583	33.592	28.565
8:03	37.613	36.996	33.948	28.566
8:04	38.003	37.408	34.3	28.565
8:05	38.423	37.787	34.638	28.554
8:06	38.816	38.176	34.997	28.551
8:07	39.058	38.466	35.34	28.568
8:08	39.112	38.383	35.718	28.617
8:09	39.146	38.23	35.953	28.664
8:10	39.126	38.056	36.077	28.706
8:11	39.054	37.869	36.128	28.729
8:12	38.937	37.69	36.133	28.726
8:13	38.789	37.528	36.111	28.721
8:14	38.625	37.377	36.066	28.725
8:15	38.454	37.232	36.003	28.712
8:16	38.28	37.093	35.931	28.707
8:17	38.11	36.962	35.85	28.69
8:18	37.944	36.832	35.765	28.667
8:19	37.781	36.71	35.678	28.652
8:20	37.626	36.593	35.587	28.644
8:21	37.479	36.479	35.499	28.634
8:22	37.336	36.368	35.412	28.631
8:23	37.199	36.261	35.327	28.63
8:24	37.069	36.158	35.243	28.62
8:25	36.945	36.059	35.16	28.616
8:26	36.824	35.965	35.079	28.605
8:27	36.71	35.874	34.997	28.603
8:28	36.6	35.787	34.919	28.605
8:29	36.495	35.701	34.841	28.607
8:30	36.393	35.621	34.767	28.61
8:31	36.297	35.54	34.694	28.611
8:32	36.202	35.464	34.625	28.611
8:33	36.111	35.39	34.555	28.614
8:34	36.029	35.343	34.502	28.624
8:35	36.155	35.574	34.601	28.624
8:36	36.569	36.039	34.808	28.614
8:37	37.01	36.483	35.095	28.611
8:38	37.191	36.52	35.43	28.622
8:39	37.353	36.545	35.656	28.616
8:40	37.465	36.55	35.788	28.614
8:41	37.522	36.539	35.854	28.619
8:42	37.53	36.513	35.871	28.622
8:43	37.503	36.476	35.854	28.62
8:44	37.448	36.43	35.812	28.627
8:45	37.374	36.378	35.753	28.638
8:46	37.286	36.319	35.684	28.647
8:47	37.191	36.253	35.607	28.659
8:48	37.092	36.184	35.527	28.67
8:49	36.989	36.111	35.444	28.679
8:50	36.885	36.037	35.362	28.686
8:51	36.783	35.96	35.278	28.693
8:52	36.681	35.884	35.197	28.692
8:53	36.583	35.807	35.117	28.697
8:54	36.486	35.731	35.039	28.703
8:55	36.391	35.656	34.962	28.712
8:56	36.298	35.581	34.888	28.714
8:57	36.209	35.509	34.817	28.718
8:58	36.123	35.437	34.745	28.723
8:59	36.039	35.367	34.677	28.726
9:00	35.958	35.298	34.611	28.728
9:01	35.879	35.233	34.55	28.731
9:02	35.98	35.422	34.62	28.737
9:03	36.361	35.854	34.82	28.743
9:04	36.865	36.383	35.077	28.754
9:05	37.045	36.429	35.422	28.762
9:06	37.22	36.461	35.664	28.768
9:07	37.345	36.474	35.808	28.77
9:08	37.413	36.471	35.884	28.76
9:09	37.436	36.456	35.908	28.76
9:10	37.418	36.427	35.894	28.751
9:11	37.372	36.388	35.855	28.754
9:12	37.305	36.341	35.8	28.757
9:13	37.227	36.287	35.731	28.759
9:14	37.136	36.226	35.656	28.762
9:15	37.04	36.16	35.576	28.76
9:16	36.943	36.091	35.494	28.76
9:17	36.843	36.019	35.412	28.762
9:18	36.744	35.945	35.328	28.762
9:19	36.645	35.871	35.248	28.777
9:20	36.549	35.797	35.168	28.796
9:21	36.456	35.723	35.09	28.802
9:22	36.364	35.651	35.014	28.802
9:23	36.275	35.579	34.941	28.805
9:24	36.189	35.509	34.868	28.807
9:25	36.104	35.439	34.798	28.807
9:26	36.022	35.372	34.73	28.807
9:27	35.943	35.305	34.664	28.801
9:28	35.961	35.398	34.684	28.798
9:29	36.288	35.765	34.841	28.802
9:30	36.826	36.28	35.087	28.813
9:31	37.095	36.517	35.4	28.824
9:32	37.276	36.559	35.694	28.825
9:33	37.418	36.581	35.879	28.821
9:34	37.506	36.586	35.981	28.818
9:35	37.542	36.574	36.024	28.819
9:36	37.537	36.549	36.025	28.813

9:37	37.499	36.513	35.997	28.812
9:38	37.439	36.467	35.946	28.805
9:39	37.364	36.415	35.881	28.804
9:40	37.276	36.356	35.808	28.802
9:41	37.18	36.292	35.728	28.801
9:42	37.083	36.222	35.646	28.801
9:43	36.982	36.152	35.562	28.801
9:44	36.883	36.077	35.48	28.801
9:45	36.783	36.003	35.397	28.796
9:46	36.686	35.929	35.317	28.798
9:47	36.591	35.854	35.237	28.798
9:48	36.498	35.782	35.16	28.798
9:49	36.407	35.708	35.084	28.796
9:50	36.319	35.637	35.011	28.804
9:51	36.233	35.567	34.939	28.802
9:52	36.15	35.497	34.87	28.802
9:53	36.069	35.43	34.802	28.807
9:54	35.992	35.365	34.735	28.808
9:55	35.916	35.3	34.673	28.812
9:56	35.96	35.407	34.712	28.808
9:57	36.285	35.793	34.865	28.798
9:58	36.812	36.341	35.119	28.802
9:59	37.064	36.51	35.454	28.805
10:00	37.251	36.55	35.738	28.808
10:01	37.393	36.574	35.913	28.816
10:02	37.48	36.578	36.007	28.819
10:03	37.518	36.567	36.045	28.822
10:04	37.513	36.542	36.044	28.824
10:05	37.477	36.508	36.012	28.824
10:06	37.418	36.464	35.961	28.824
10:07	37.343	36.412	35.897	28.824
10:08	37.257	36.354	35.824	28.827
10:09	37.165	36.29	35.745	28.827
10:10	37.069	36.222	35.663	28.829
10:11	36.97	36.152	35.581	28.83
10:12	36.873	36.079	35.499	28.838
10:13	36.775	36.007	35.417	28.839
10:14	36.679	35.933	35.337	28.841
10:15	36.586	35.86	35.258	28.839
10:16	36.495	35.788	35.182	28.846
10:17	36.405	35.716	35.107	28.849
10:18	36.319	35.646	35.035	28.853
10:19	36.234	35.576	34.964	28.857
10:20	36.152	35.509	34.894	28.858
10:21	36.072	35.44	34.828	28.861
10:22	35.995	35.375	34.762	28.869
10:23	35.992	35.429	34.76	28.874
10:24	36.28	35.767	34.899	28.877
10:25	36.793	36.263	35.135	28.886
10:26	37.054	36.479	35.454	28.895
10:27	37.235	36.53	35.738	28.903
10:28	37.377	36.559	35.914	28.909
10:29	37.468	36.569	36.013	28.913
10:30	37.509	36.564	36.056	28.914
10:31	37.508	36.544	36.056	28.913
10:32	37.477	36.513	36.027	28.911
10:33	37.42	36.473	35.978	28.905
10:34	37.35	36.425	35.916	28.903
10:35	37.266	36.369	35.845	28.878
10:36	37.177	36.309	35.768	28.869
10:37	37.083	36.243	35.689	28.867
10:38	36.986	36.173	35.609	28.855
10:39	36.89	36.103	35.527	28.847
10:40	36.795	36.032	35.449	28.847
10:41	36.7	35.958	35.368	28.85
10:42	36.606	35.886	35.292	28.857
10:43	36.517	35.815	35.215	28.858
10:44	36.429	35.743	35.142	28.863
10:45	36.342	35.673	35.07	28.869
10:46	36.258	35.604	35.001	28.866
10:47	36.177	35.535	34.933	28.872
10:48	36.099	35.469	34.866	28.875
10:49	36.022	35.403	34.802	28.875
10:50	36.024	35.459	34.802	28.877
10:51	36.302	35.777	34.943	28.864
10:52	36.821	36.3	35.187	28.835
10:53	37.097	36.54	35.495	28.824
10:54	37.281	36.591	35.783	28.819
10:55	37.427	36.62	35.965	28.83
10:56	37.522	36.63	36.067	28.835
10:57	37.566	36.625	36.111	28.847
10:58	37.568	36.606	36.114	28.857
10:59	37.537	36.576	36.088	28.864
11:00	37.482	36.535	36.04	28.872
11:01	37.41	36.488	35.978	28.883
11:02	37.328	36.432	35.908	28.894
11:03	37.239	36.369	35.83	28.906
11:04	37.144	36.303	35.75	28.919
11:05	37.047	36.234	35.669	28.931
11:06	36.952	36.163	35.589	28.944
11:07	36.855	36.091	35.509	28.953
11:08	36.761	36.019	35.429	28.953
11:09	36.668	35.946	35.352	28.964
11:10	36.578	35.874	35.277	28.976
11:11	36.489	35.803	35.202	28.986
11:12	36.403	35.733	35.13	28.993
11:13	36.32	35.666	35.06	29.004
11:14	36.239	35.597	34.994	29.009
11:15	36.16	35.532	34.928	29.015
11:16	36.084	35.467	34.863	29.018
11:17	36.01	35.403	34.802	29.023
11:18	35.938	35.342	34.74	29.022
11:19	35.867	35.28	34.681	29.023
11:20	35.803	35.242	34.636	29.025
11:21	35.973	35.462	34.729	28.984
11:22	36.407	35.918	34.943	28.975
11:23	36.962	36.489	35.21	28.981
11:24	37.151	36.557	35.569	28.987
11:25	37.334	36.603	35.835	28.989
11:26	37.468	36.629	35.997	28.975
11:27	37.547	36.635	36.084	28.948
11:28	37.577	36.625	36.116	28.899
11:29	37.566	36.603	36.111	28.888
11:30	37.527	36.569	36.079	28.838
11:31	37.465	36.525	36.029	28.799
11:32	37.389	36.474	35.965	28.766

11:33	37.302	36.417	35.891	28.754
11:34	37.211	36.354	35.813	28.752
11:35	37.115	36.287	35.735	28.768
11:36	37.02	36.219	35.654	28.782
11:37	36.924	36.148	35.574	28.796
11:38	36.829	36.077	35.494	28.807
11:39	36.735	36.005	35.417	28.819
11:40	36.645	35.933	35.34	28.804
11:41	36.556	35.862	35.267	28.793
11:42	36.469	35.792	35.193	28.799
11:43	36.383	35.721	35.122	28.815
11:44	36.302	35.651	35.054	28.83
11:45	36.221	35.584	34.986	28.844
11:46	36.143	35.517	34.921	28.857
11:47	36.069	35.454	34.858	28.871
11:48	35.995	35.39	34.797	28.885
11:49	35.924	35.328	34.735	28.894
11:50	35.855	35.268	34.677	28.905
11:51	35.85	35.295	34.666	28.913
11:52	36.113	35.616	34.802	28.933
11:53	36.623	36.128	35.042	28.947
11:54	36.975	36.451	35.352	28.958
11:55	37.167	36.51	35.673	28.975
11:56	37.326	36.547	35.881	28.989
11:57	37.434	36.566	36	29.001
11:58	37.491	36.569	36.059	29.018
11:59	37.503	36.556	36.071	29.034
12:00	37.48	36.53	36.052	29.046
12:01	37.434	36.495	36.012	29.062
12:02	37.369	36.451	35.955	29.07
12:03	37.29	36.398	35.887	29.082
12:04	37.204	36.341	35.815	29.092
12:05	37.114	36.276	35.738	29.104
12:06	37.02	36.211	35.659	29.115
12:07	36.926	36.143	35.581	29.127
12:08	36.832	36.072	35.504	29.14
12:09	36.741	36.003	35.427	29.155
12:10	36.649	35.933	35.352	29.17
12:11	36.561	35.864	35.278	29.174
12:12	36.474	35.795	35.207	29.177
12:13	36.391	35.726	35.139	29.177
12:14	36.309	35.659	35.07	29.179
12:15	36.229	35.594	35.006	29.168
12:16	36.153	35.529	34.941	29.157
12:17	36.079	35.465	34.879	29.165
12:18	36.007	35.403	34.82	29.173
12:19	35.936	35.343	34.762	29.179
12:20	35.867	35.292	34.712	29.188
12:21	35.997	35.494	34.798	29.194
12:22	36.4	35.933	34.981	29.207
12:23	36.88	36.432	35.24	29.212
12:24	37.074	36.493	35.587	29.227
12:25	37.254	36.539	35.832	29.233
12:26	37.384	36.566	35.98	29.229
12:27	37.461	36.574	36.057	29.24
12:28	37.491	36.567	36.086	29.246
12:29	37.484	36.549	36.079	29.249
12:30	37.448	36.518	36.045	29.252
12:31	37.391	36.479	35.997	29.258
12:32	37.319	36.43	35.934	29.26
12:33	37.239	36.378	35.866	29.254
12:34	37.151	36.319	35.793	29.255
12:35	37.061	36.254	35.716	29.26
12:36	36.97	36.189	35.641	29.268
12:37	36.878	36.121	35.564	29.274
12:38	36.786	36.054	35.489	29.282
12:39	36.696	35.985	35.415	29.293
12:40	36.61	35.916	35.343	29.301
12:41	36.523	35.849	35.273	29.31
12:42	36.44	35.782	35.205	29.321
12:43	36.359	35.716	35.139	29.33
12:44	36.28	35.651	35.074	29.34
12:45	36.204	35.587	35.011	29.352
12:46	36.13	35.525	34.949	29.361
12:47	36.057	35.464	34.889	29.369
12:48	35.988	35.403	34.831	29.374
12:49	35.921	35.345	34.777	29.383
12:50	35.86	35.31	34.734	29.394
12:51	36.025	35.527	34.825	29.402
12:52	36.429	35.968	35.034	29.413
12:53	36.887	36.439	35.297	29.427
12:54	37.08	36.498	35.627	29.436
12:55	37.256	36.544	35.86	29.443
12:56	37.382	36.569	36	29.447
12:57	37.456	36.578	36.074	29.454
12:58	37.485	36.573	36.099	29.458
12:59	37.477	36.554	36.091	29.465
13:00	37.441	36.525	36.059	29.468
13:01	37.386	36.486	36.01	29.471
13:02	37.316	36.44	35.951	29.469
13:03	37.237	36.388	35.884	29.479
13:04	37.151	36.33	35.813	29.48
13:05	37.063	36.268	35.74	29.486
13:06	36.972	36.204	35.666	29.494
13:07	36.882	36.138	35.592	29.497
13:08	36.793	36.072	35.52	29.507
13:09	36.705	36.005	35.449	29.519
13:10	36.618	35.939	35.38	29.526
13:11	36.535	35.872	35.312	29.527
13:12	36.454	35.807	35.245	29.532
13:13	36.374	35.743	35.182	29.535
13:14	36.297	35.681	35.119	29.536
13:15	36.222	35.619	35.057	29.547
13:16	36.15	35.557	34.999	29.557
13:17	36.079	35.497	34.941	29.569
13:18	36.01	35.439	34.884	29.583
13:19	35.945	35.38	34.83	29.593
13:20	35.939	35.429	34.833	29.596
13:21	36.222	35.763	34.982	29.612
13:22	36.754	36.28	35.223	29.63
13:23	37.042	36.518	35.542	29.644
13:24	37.225	36.576	35.835	29.671
13:25	37.376	36.615	36.022	29.684
13:26	37.477	36.635	36.128	29.693
13:27	37.528	36.64	36.177	29.698
13:28	37.539	36.63	36.185	29.71

13:29	37.518	36.61	36.165	29.718
13:30	37.473	36.578	36.125	29.729
13:31	37.412	36.537	36.071	29.74
13:32	37.338	36.489	36.008	29.74
13:33	37.257	36.435	35.939	29.746
13:34	37.172	36.376	35.869	29.754
13:35	37.083	36.315	35.797	29.76
13:36	36.994	36.251	35.723	29.77
13:37	36.906	36.185	35.651	29.773
13:38	36.819	36.121	35.581	29.778
13:39	36.732	36.056	35.512	29.784
13:40	36.649	35.99	35.444	29.789
13:41	36.567	35.926	35.378	29.79
13:42	36.488	35.862	35.315	29.79
13:43	36.41	35.8	35.253	29.79
13:44	36.336	35.74	35.192	29.792
13:45	36.263	35.679	35.134	29.793
13:46	36.194	35.621	35.077	29.793
13:47	36.125	35.562	35.022	29.795
13:48	36.059	35.505	34.967	29.792
13:49	35.995	35.45	34.916	29.785
13:50	35.933	35.397	34.865	29.781
13:51	36.008	35.539	34.919	29.784
13:52	36.379	35.951	35.105	29.784
13:53	36.919	36.491	35.357	29.787
13:54	37.103	36.564	35.696	29.785
13:55	37.286	36.617	35.951	29.785
13:56	37.425	36.651	36.108	29.784
13:57	37.513	36.669	36.194	29.781
13:58	37.552	36.671	36.231	29.781
13:59	37.554	36.659	36.231	29.795
14:00	37.527	36.637	36.206	29.812
14:01	37.479	36.603	36.162	29.836
14:02	37.413	36.562	36.106	29.862
14:03	37.34	36.515	36.044	29.891
14:04	37.259	36.461	35.976	29.92
14:05	37.174	36.403	35.906	29.933
14:06	37.088	36.342	35.835	29.956
14:07	36.999	36.278	35.765	29.969
14:08	36.912	36.216	35.694	29.983
14:09	36.827	36.15	35.624	29.963
14:10	36.744	36.086	35.557	29.945
14:11	36.661	36.022	35.49	29.92
14:12	36.581	35.958	35.427	29.903
14:13	36.505	35.896	35.363	29.892
14:14	36.429	35.834	35.302	29.88
14:15	36.356	35.773	35.243	29.87
14:16	36.285	35.715	35.185	29.862
14:17	36.216	35.656	35.129	29.853
14:18	36.15	35.601	35.074	29.842
14:19	36.086	35.544	35.021	29.839
14:20	36.022	35.489	34.969	29.831
14:21	35.961	35.435	34.918	29.811
14:22	35.901	35.383	34.868	29.804
14:23	35.842	35.332	34.82	29.789
14:24	35.785	35.282	34.772	29.759
14:25	35.767	35.295	34.765	29.757
14:26	36.032	35.586	34.896	29.74
14:27	36.513	36.088	35.117	29.735
14:28	36.936	36.493	35.422	29.743
14:29	37.138	36.557	35.758	29.757
14:30	37.312	36.605	35.983	29.767
14:31	37.437	36.635	36.118	29.764
14:32	37.509	36.649	36.187	29.776
14:33	37.535	36.647	36.212	29.77
14:34	37.527	36.632	36.204	29.764
14:35	37.491	36.606	36.172	29.768
14:36	37.436	36.571	36.125	29.771
14:37	37.367	36.527	36.067	29.74
14:38	37.29	36.478	36.002	29.72
14:39	37.206	36.422	35.934	29.726
14:40	37.119	36.361	35.862	29.74
14:41	37.032	36.3	35.792	29.749
14:42	36.945	36.238	35.721	29.753
14:43	36.858	36.173	35.651	29.756
14:44	36.773	36.109	35.582	29.732
14:45	36.691	36.045	35.517	29.743
14:46	36.61	35.981	35.45	29.756
14:47	36.53	35.918	35.387	29.76
14:48	36.454	35.855	35.325	29.765
14:49	36.381	35.795	35.265	29.765
14:50	36.309	35.735	35.207	29.778
14:51	36.239	35.676	35.15	29.793
14:52	36.172	35.619	35.095	29.796
14:53	36.106	35.562	35.04	29.79
14:54	36.042	35.507	34.989	29.795
14:55	35.98	35.452	34.938	29.793
14:56	35.919	35.398	34.888	29.79
14:57	35.86	35.347	34.838	29.782
14:58	35.924	35.474	34.891	29.787
14:59	36.3	35.855	35.055	29.793
15:00	36.824	36.401	35.302	29.796
15:01	37.004	36.474	35.641	29.792
15:02	37.187	36.532	35.891	29.793
15:03	37.326	36.571	36.044	29.778
15:04	37.415	36.591	36.131	29.765
15:05	37.458	36.596	36.167	29.767
15:06	37.463	36.589	36.168	29.77
15:07	37.439	36.569	36.145	29.765
15:08	37.393	36.539	36.104	29.753
15:09	37.331	36.5	36.052	29.746
15:10	37.261	36.454	35.992	29.751
15:11	37.182	36.401	35.926	29.76
15:12	37.1	36.346	35.859	29.754
15:13	37.015	36.287	35.788	29.738
15:14	36.929	36.224	35.72	29.735
15:15	36.844	36.162	35.651	29.737
15:16	36.761	36.098	35.582	29.726
15:17	36.679	36.034	35.517	29.738
15:18	36.6	35.97	35.452	29.754
15:19	36.522	35.908	35.388	29.757
15:20	36.445	35.845	35.327	29.757
15:21	36.371	35.785	35.267	29.765
15:22	36.3	35.725	35.208	29.764
15:23	36.231	35.668	35.152	29.764
15:24	36.163	35.611	35.097	29.757

15:25	36.099	35.554	35.044	29.757
15:26	36.035	35.5	34.991	29.732
15:27	35.975	35.445	34.941	29.706
15:28	35.914	35.393	34.891	29.701
15:29	35.857	35.342	34.841	29.699
15:30	35.822	35.342	34.823	29.69
15:31	36.062	35.619	34.943	29.691
15:32	36.556	36.103	35.157	29.706
15:33	36.866	36.407	35.467	29.657
15:34	37.063	36.473	35.765	29.657
15:35	37.228	36.522	35.96	29.613
15:36	37.343	36.552	36.076	29.616
15:37	37.41	36.567	36.135	29.621
15:38	37.432	36.567	36.152	29.626
15:39	37.424	36.554	36.14	29.598
15:40	37.388	36.53	36.106	29.549
15:41	37.334	36.496	36.057	29.558
15:42	37.268	36.454	36	29.566
15:43	37.194	36.405	35.936	29.558
15:44	37.114	36.351	35.869	29.529
15:45	37.03	36.293	35.8	29.51
15:46	36.947	36.233	35.73	29.407
15:47	36.861	36.17	35.661	29.394
15:48	36.778	36.108	35.594	29.41
15:49	36.696	36.044	35.527	29.416
15:50	36.615	35.98	35.46	29.432
15:51	36.537	35.918	35.397	29.455
15:52	36.461	35.855	35.335	29.476
15:53	36.388	35.795	35.273	29.485
15:54	36.315	35.735	35.215	29.501
15:55	36.246	35.676	35.157	29.504
15:56	36.179	35.617	35.1	29.515
15:57	36.111	35.561	35.045	29.527
15:58	36.047	35.505	34.992	29.551
15:59	35.987	35.45	34.941	29.56
16:00	35.926	35.397	34.889	29.576
16:01	35.867	35.343	34.838	29.587
16:02	35.81	35.292	34.79	29.585
16:03	35.768	35.282	34.765	29.568
16:04	35.992	35.542	34.876	29.569
16:05	36.467	36.019	35.094	29.588
16:06	36.96	36.523	35.373	29.607
16:07	37.16	36.588	35.728	29.616
16:08	37.345	36.644	35.98	29.616
16:09	37.48	36.679	36.133	29.618
16:10	37.563	36.696	36.217	29.623
16:11	37.597	36.698	36.249	29.629
16:12	37.594	36.686	36.248	29.63
16:13	37.563	36.662	36.221	29.64
16:14	37.509	36.629	36.175	29.648
16:15	37.443	36.586	36.118	29.646
16:16	37.367	36.535	36.056	29.649
16:17	37.283	36.481	35.987	29.66
16:18	37.198	36.422	35.916	29.651
16:19	37.11	36.361	35.844	29.655
16:20	37.023	36.297	35.773	29.665
16:21	36.936	36.233	35.703	29.619
16:22	36.849	36.168	35.632	29.615
16:23	36.766	36.103	35.566	29.596
16:24	36.685	36.039	35.499	29.526
16:25	36.605	35.975	35.435	29.488
16:26	36.527	35.911	35.372	29.446
16:27	36.452	35.849	35.312	29.43
16:28	36.379	35.788	35.252	29.418
16:29	36.309	35.728	35.193	29.372
16:30	36.241	35.669	35.137	29.385
16:31	36.173	35.611	35.082	29.355
16:32	36.109	35.554	35.027	29.34
16:33	36.047	35.499	34.974	29.308
16:34	35.987	35.444	34.921	29.269
16:35	35.928	35.39	34.87	29.269
16:36	35.871	35.338	34.818	29.258
16:37	35.813	35.287	34.768	29.244
16:38	35.765	35.268	34.734	29.269
16:39	35.946	35.502	34.835	29.258
16:40	36.408	35.975	35.052	29.28
16:41	36.901	36.449	35.345	29.304
16:42	37.097	36.515	35.679	29.269
16:43	37.278	36.571	35.914	29.285
16:44	37.41	36.606	36.056	29.301
16:45	37.489	36.623	36.133	29.307
16:46	37.522	36.623	36.162	29.318
16:47	37.518	36.612	36.155	29.326
16:48	37.485	36.586	36.125	29.346
16:49	37.432	36.552	36.077	29.358
16:50	37.365	36.508	36.019	29.33
16:51	37.288	36.457	35.953	29.304
16:52	37.206	36.401	35.884	29.296
16:53	37.121	36.342	35.81	29.297
16:54	37.032	36.278	35.738	29.299
16:55	36.945	36.214	35.664	29.321
16:56	36.856	36.148	35.592	29.346
16:57	36.771	36.082	35.52	29.369
16:58	36.686	36.015	35.45	29.393
16:59	36.605	35.95	35.382	29.407
17:00	36.525	35.884	35.315	29.429
17:01	36.449	35.82	35.25	29.444
17:02	36.373	35.758	35.187	29.46
17:03	36.3	35.696	35.125	29.472
17:04	36.229	35.636	35.065	29.486
17:05	36.162	35.576	35.007	29.499
17:06	36.094	35.519	34.951	29.511
17:07	36.03	35.462	34.896	29.529
17:08	35.968	35.405	34.841	29.544
17:09	35.908	35.352	34.79	29.557
17:10	35.849	35.298	34.739	29.566
17:11	35.825	35.313	34.72	29.571
17:12	36.067	35.602	34.853	29.59
17:13	36.547	36.101	35.075	29.608
17:14	36.926	36.444	35.398	29.613
17:15	37.124	36.51	35.713	29.624
17:16	37.292	36.561	35.921	29.634
17:17	37.41	36.591	36.044	29.64
17:18	37.477	36.603	36.106	29.651
17:19	37.499	36.601	36.126	29.652
17:20	37.489	36.586	36.114	29.654

17:21	37.451	36.559	36.081	29.657
17:22	37.396	36.523	36.034	29.657
17:23	37.328	36.479	35.976	29.659
17:24	37.251	36.429	35.911	29.659
17:25	37.168	36.373	35.844	29.662
17:26	37.085	36.315	35.775	29.663
17:27	36.998	36.254	35.704	29.666
17:28	36.911	36.19	35.636	29.668
17:29	36.826	36.128	35.567	29.671
17:30	36.742	36.064	35.5	29.671
17:31	36.661	36	35.435	29.673
17:32	36.581	35.936	35.372	29.668
17:33	36.503	35.874	35.31	29.665
17:34	36.429	35.813	35.25	29.666
17:35	36.356	35.753	35.192	29.671
17:36	36.285	35.693	35.134	29.673
17:37	36.217	35.636	35.079	29.668
17:38	36.15	35.579	35.026	29.665
17:39	36.086	35.522	34.972	29.663
17:40	36.024	35.469	34.921	29.665
17:41	35.963	35.415	34.871	29.663
17:42	35.904	35.363	34.821	29.66
17:43	35.847	35.312	34.773	29.657
17:44	35.928	35.457	34.84	29.657
17:45	36.312	35.866	35.024	29.666
17:46	36.858	36.42	35.277	29.674
17:47	37.054	36.51	35.626	29.674
17:48	37.244	36.571	35.889	29.677
17:49	37.389	36.612	36.054	29.679
17:50	37.482	36.635	36.145	29.677
17:51	37.527	36.642	36.185	29.679
17:52	37.534	36.635	36.189	29.677
17:53	37.509	36.617	36.167	29.673
17:54	37.465	36.586	36.126	29.673
17:55	37.403	36.547	36.074	29.674
17:56	37.331	36.501	36.013	29.673
17:57	37.252	36.451	35.948	29.673
17:58	37.17	36.395	35.879	29.673
17:59	37.085	36.334	35.81	29.673
18:00	36.999	36.273	35.741	29.671
18:01	36.914	36.211	35.673	29.674
18:02	36.831	36.148	35.606	29.671
18:03	36.749	36.084	35.539	29.67
18:04	36.669	36.02	35.475	29.668
18:05	36.591	35.958	35.412	29.668
18:06	36.515	35.897	35.35	29.665
18:07	36.442	35.835	35.292	29.665
18:08	36.369	35.777	35.233	29.663
18:09	36.3	35.718	35.177	29.66
18:10	36.234	35.661	35.122	29.66
18:11	36.168	35.604	35.069	29.657
18:12	36.104	35.549	35.016	29.655
18:13	36.044	35.495	34.964	29.652
18:14	35.983	35.442	34.914	29.651
18:15	35.926	35.39	34.865	29.648
18:16	35.946	35.464	34.883	29.646
18:17	36.266	35.82	35.037	29.644
18:18	36.81	36.356	35.283	29.643
18:19	37.015	36.491	35.611	29.648
18:20	37.203	36.554	35.877	29.652
18:21	37.35	36.598	36.045	29.648
18:22	37.448	36.623	36.141	29.648
18:23	37.499	36.632	36.185	29.648
18:24	37.511	36.627	36.192	29.646
18:25	37.492	36.61	36.172	29.644
18:26	37.449	36.583	36.133	29.641
18:27	37.393	36.545	36.082	29.641
18:28	37.322	36.501	36.022	29.635
18:29	37.247	36.451	35.958	29.634
18:30	37.167	36.395	35.891	29.634
18:31	37.083	36.337	35.822	29.627
18:32	36.999	36.276	35.753	29.626
18:33	36.916	36.214	35.684	29.623
18:34	36.832	36.152	35.617	29.623
18:35	36.751	36.089	35.55	29.619
18:36	36.673	36.025	35.487	29.619
18:37	36.595	35.963	35.423	29.618
18:38	36.518	35.902	35.362	29.616
18:39	36.445	35.842	35.302	29.615
18:40	36.374	35.782	35.243	29.613
18:41	36.307	35.725	35.187	29.61
18:42	36.239	35.666	35.132	29.61
18:43	36.175	35.611	35.077	29.607
18:44	36.111	35.556	35.024	29.602
18:45	36.05	35.502	34.972	29.601
18:46	35.992	35.449	34.923	29.602
18:47	35.933	35.397	34.873	29.605
18:48	35.902	35.407	34.86	29.602
18:49	36.138	35.679	34.981	29.61
18:50	36.642	36.179	35.208	29.621
18:51	36.981	36.479	35.512	29.632
18:52	37.167	36.545	35.812	29.637
18:53	37.328	36.595	36.008	29.643
18:54	37.439	36.625	36.123	29.644
18:55	37.503	36.639	36.182	29.648
18:56	37.525	36.639	36.199	29.652
18:57	37.515	36.623	36.185	29.652
18:58	37.479	36.598	36.152	29.654
18:59	37.424	36.564	36.103	29.655
19:00	37.357	36.522	36.045	29.659
19:01	37.281	36.473	35.981	29.659
19:02	37.203	36.418	35.916	29.66
19:03	37.119	36.361	35.847	29.635
19:04	37.035	36.3	35.777	29.585
19:05	36.95	36.238	35.708	29.547
19:06	36.866	36.173	35.639	29.508
19:07	36.785	36.111	35.572	29.469
19:08	36.703	36.047	35.507	29.436
19:09	36.625	35.983	35.442	29.404
19:10	36.549	35.919	35.38	29.386
19:11	36.474	35.857	35.318	29.376
19:12	36.401	35.797	35.258	29.349
19:13	36.332	35.738	35.2	29.336
19:14	36.263	35.679	35.142	29.324
19:15	36.197	35.622	35.087	29.291
19:16	36.133	35.566	35.03	29.302

19:17	36.072	35.51	34.977	29.301
19:18	36.012	35.457	34.926	29.294
19:19	35.953	35.403	34.875	29.296
19:20	35.896	35.352	34.823	29.305
19:21	35.84	35.3	34.773	29.313
19:22	35.842	35.343	34.777	29.322
19:23	36.125	35.661	34.916	29.327
19:24	36.625	36.168	35.14	29.34
19:25	36.924	36.417	35.46	29.358
19:26	37.115	36.481	35.75	29.371
19:27	37.271	36.527	35.934	29.383
19:28	37.377	36.554	36.044	29.404
19:29	37.434	36.564	36.096	29.424
19:30	37.451	36.561	36.108	29.436
19:31	37.434	36.544	36.091	29.454
19:32	37.394	36.515	36.056	29.468
19:33	37.338	36.478	36.003	29.482
19:34	37.269	36.434	35.945	29.499
19:35	37.192	36.383	35.879	29.518
19:36	37.112	36.327	35.81	29.535
19:37	37.027	36.268	35.74	29.552
19:38	36.941	36.206	35.668	29.563
19:39	36.856	36.143	35.597	29.579
19:40	36.773	36.079	35.527	29.593
19:41	36.69	36.015	35.46	29.607
19:42	36.61	35.951	35.393	29.619
19:43	36.53	35.887	35.328	29.632
19:44	36.454	35.825	35.265	29.644
19:45	36.379	35.763	35.203	29.655
19:46	36.309	35.703	35.144	29.666
19:47	36.238	35.644	35.085	29.677
19:48	36.17	35.586	35.027	29.687
19:49	36.104	35.529	34.972	29.693
19:50	36.04	35.474	34.919	29.698
19:51	35.978	35.42	34.866	29.698
19:52	35.918	35.367	34.815	29.696
19:53	35.953	35.444	34.835	29.687
19:54	36.263	35.813	34.987	29.623
19:55	36.797	36.351	35.245	29.596
19:56	37.042	36.518	35.569	29.587
19:57	37.232	36.578	35.849	29.583
19:58	37.382	36.618	36.024	29.522
19:59	37.48	36.64	36.125	29.508
20:00	37.532	36.649	36.17	29.491
20:01	37.542	36.64	36.177	29.491
20:02	37.522	36.622	36.157	29.496
20:03	37.479	36.591	36.118	29.497
20:04	37.417	36.552	36.064	29.496
20:05	37.346	36.505	36.003	29.488
20:06	37.268	36.452	35.936	29.46
20:07	37.184	36.395	35.866	29.415
20:08	37.098	36.336	35.793	29.41
20:09	37.011	36.271	35.721	29.274
20:10	36.924	36.207	35.651	29.244
20:11	36.839	36.141	35.581	29.207
20:12	36.756	36.077	35.51	29.224
20:13	36.674	36.012	35.444	29.223
20:14	36.595	35.946	35.377	29.176
20:15	36.517	35.882	35.312	29.193
20:16	36.44	35.82	35.248	29.19
20:17	36.368	35.758	35.187	29.201
20:18	36.297	35.698	35.125	29.209
20:19	36.227	35.637	35.067	29.148
20:20	36.16	35.579	35.009	29.042
20:21	36.096	35.52	34.952	29.062
20:22	36.034	35.464	34.898	29.039
20:23	35.971	35.408	34.843	28.989
20:24	35.913	35.353	34.79	29.004
20:25	35.854	35.302	34.739	29.023
20:26	35.995	35.479	34.81	29.018
20:27	36.386	35.913	35.002	28.881
20:28	36.904	36.461	35.26	28.777
20:29	37.095	36.525	35.612	28.746
20:30	37.28	36.578	35.866	28.704
20:31	37.417	36.613	36.022	28.723
20:32	37.501	36.629	36.106	28.659
20:33	37.537	36.63	36.141	28.593
20:34	37.535	36.617	36.138	28.448
20:35	37.504	36.589	36.108	28.326
20:36	37.451	36.552	36.061	28.352
20:37	37.384	36.506	36	28.258
20:38	37.305	36.454	35.933	28.241
20:39	37.221	36.395	35.859	28.27
20:40	37.133	36.332	35.783	28.272
20:41	37.044	36.266	35.706	28.266
20:42	36.953	36.199	35.629	28.307
20:43	36.863	36.13	35.554	28.303
20:44	36.776	36.061	35.479	28.232
20:45	36.69	35.992	35.403	28.229
20:46	36.605	35.921	35.332	28.103
20:47	36.522	35.85	35.26	28.069
20:48	36.442	35.78	35.188	28.109
20:49	36.363	35.711	35.12	28.083
20:50	36.287	35.644	35.052	28.133
20:51	36.214	35.577	34.987	28.195
20:52	36.141	35.512	34.923	28.21
20:53	36.072	35.449	34.86	28.253
20:54	36.007	35.387	34.797	28.247
20:55	35.96	35.392	34.77	28.247
20:56	36.177	35.656	34.876	28.263
20:57	36.639	36.133	35.077	28.318
20:58	37.016	36.471	35.38	28.334
20:59	37.198	36.528	35.684	28.303
21:00	37.355	36.571	35.886	28.345
21:01	37.461	36.591	36.003	28.298
21:02	37.518	36.595	36.061	28.307
21:03	37.532	36.584	36.074	28.374
21:04	37.511	36.559	36.056	28.407
21:05	37.465	36.525	36.013	28.465
21:06	37.401	36.481	35.956	28.52
21:07	37.326	36.429	35.889	28.575
21:08	37.242	36.371	35.815	28.628
21:09	37.153	36.307	35.738	28.662
21:10	37.063	36.241	35.659	28.695
21:11	36.969	36.172	35.581	28.732
21:12	36.877	36.103	35.502	28.759

21:13	36.785	36.032	35.423	28.788
21:14	36.696	35.961	35.347	28.793
21:15	36.608	35.889	35.273	28.816
21:16	36.523	35.82	35.2	28.843
21:17	36.44	35.75	35.13	28.867
21:18	36.359	35.683	35.062	28.889
21:19	36.28	35.616	34.994	28.913
21:20	36.206	35.55	34.929	28.931
21:21	36.131	35.485	34.866	28.948
21:22	36.061	35.423	34.805	28.958
21:23	36.121	35.557	34.846	28.945
21:24	36.444	35.948	35.024	28.964
21:25	36.897	36.412	35.268	28.986
21:26	37.076	36.466	35.586	29.003
21:27	37.244	36.512	35.807	29.018
21:28	37.367	36.539	35.941	29.028
21:29	37.439	36.549	36.01	29.039
21:30	37.468	36.545	36.034	29.048
21:31	37.461	36.527	36.022	29.056
21:32	37.427	36.498	35.988	29.064
21:33	37.372	36.459	35.938	29.07
21:34	37.304	36.413	35.876	29.079
21:35	37.225	36.361	35.807	29.082
21:36	37.141	36.302	35.733	29.088
21:37	37.054	36.239	35.658	29.093
21:38	36.965	36.175	35.582	29.096
21:39	36.875	36.108	35.507	29.093
21:40	36.786	36.04	35.432	29.096
21:41	36.7	35.971	35.358	29.098
21:42	36.613	35.904	35.287	29.099
21:43	36.53	35.835	35.218	29.101
21:44	36.449	35.77	35.15	29.099
21:45	36.369	35.703	35.084	29.098
21:46	36.293	35.637	35.019	29.093
21:47	36.219	35.574	34.956	29.096
21:48	36.147	35.512	34.894	29.092
21:49	36.076	35.45	34.835	29.081
21:50	36.01	35.415	34.79	29.073
21:51	36.172	35.648	34.881	29.07
21:52	36.596	36.108	35.09	29.07
21:53	36.945	36.43	35.393	29.064
21:54	37.131	36.489	35.688	29.057
21:55	37.29	36.534	35.881	29.051
21:56	37.401	36.557	35.995	29.046
21:57	37.463	36.566	36.049	29.04
21:58	37.482	36.559	36.062	29.036
21:59	37.467	36.54	36.044	29.032
22:00	37.427	36.512	36.003	29.032
22:01	37.369	36.471	35.95	29.032
22:02	37.298	36.423	35.886	29.031
22:03	37.218	36.369	35.815	29.034
22:04	37.134	36.31	35.741	29.032
22:05	37.045	36.248	35.666	29.031
22:06	36.957	36.184	35.589	29.026
22:07	36.868	36.116	35.514	29.02
22:08	36.78	36.049	35.44	29.014
22:09	36.693	35.98	35.367	29.001
22:10	36.608	35.913	35.295	29

22:11	36.527	35.844	35.225	28.993
22:12	36.445	35.777	35.157	28.987
22:13	36.368	35.711	35.09	28.986
22:14	36.292	35.646	35.027	28.981
22:15	36.217	35.582	34.964	28.975
22:16	36.145	35.52	34.903	28.97
22:17	36.076	35.459	34.841	28.969
22:18	36.008	35.398	34.783	28.969
22:19	35.945	35.34	34.727	28.965
22:20	35.879	35.292	34.677	28.967
22:21	36.015	35.49	34.777	28.969
22:22	36.429	35.951	34.961	28.972
22:23	36.958	36.473	35.232	28.976
22:24	37.146	36.54	35.589	28.975
22:25	37.326	36.593	35.842	28.979
22:26	37.46	36.623	35.995	28.986
22:27	37.539	36.635	36.077	28.984
22:28	37.571	36.632	36.108	28.984
22:29	37.564	36.615	36.103	28.984
22:30	37.53	36.588	36.071	28.981
22:31	37.473	36.549	36.022	28.981
22:32	37.403	36.501	35.96	28.978
22:33	37.322	36.447	35.889	28.975
22:34	37.235	36.388	35.815	28.965
22:35	37.144	36.324	35.738	28.965
22:36	37.054	36.258	35.661	28.964
22:37	36.962	36.19	35.582	28.961
22:38	36.87	36.12	35.505	28.956
22:39	36.781	36.05	35.43	28.956
22:40	36.693	35.98	35.357	28.956
22:41	36.606	35.911	35.283	28.948
22:42	36.523	35.842	35.213	28.939
22:43	36.442	35.775	35.145	28.93
22:44	36.364	35.708	35.079	28.919
22:45	36.287	35.643	35.014	28.916
22:46	36.214	35.579	34.951	28.913
22:47	36.141	35.515	34.889	28.903
22:48	36.072	35.454	34.828	28.895
22:49	36.005	35.393	34.77	28.889
22:50	35.939	35.335	34.712	28.886
22:51	36.025	35.497	34.777	28.88
22:52	36.386	35.931	34.967	28.885
22:53	36.926	36.473	35.232	28.885
22:54	37.114	36.523	35.574	28.88
22:55	37.295	36.571	35.822	28.881
22:56	37.429	36.601	35.971	28.875
22:57	37.508	36.613	36.054	28.869
22:58	37.542	36.61	36.084	28.869
22:59	37.537	36.593	36.077	28.866
23:00	37.503	36.564	36.045	28.858
23:01	37.448	36.527	35.995	28.855
23:02	37.377	36.479	35.933	28.85
23:03	37.297	36.425	35.862	28.843
23:04	37.211	36.366	35.788	28.835
23:05	37.122	36.302	35.711	28.835
23:06	37.03	36.236	35.632	28.83
23:07	36.938	36.167	35.556	28.827
23:08	36.848	36.098	35.477	28.815

23:09	36.758	36.027	35.402	28.805
23:10	36.671	35.956	35.327	28.796
23:11	36.584	35.887	35.255	28.791
23:12	36.501	35.819	35.183	28.784
23:13	36.42	35.75	35.115	28.776
23:14	36.341	35.683	35.047	28.771
23:15	36.265	35.617	34.982	28.774
23:16	36.19	35.552	34.918	28.774
23:17	36.12	35.489	34.856	28.78
23:18	36.049	35.427	34.795	28.784
23:19	35.981	35.365	34.735	28.78
23:20	35.997	35.435	34.749	28.78
23:21	36.293	35.792	34.913	28.773
23:22	36.851	36.344	35.152	28.776
23:23	37.117	36.522	35.487	28.766
23:24	37.309	36.574	35.765	28.757
23:25	37.458	36.61	35.939	28.746
23:26	37.554	36.625	36.037	28.738
23:27	37.599	36.625	36.081	28.734
23:28	37.601	36.61	36.082	28.723
23:29	37.571	36.584	36.056	28.714
23:30	37.518	36.547	36.01	28.701
23:31	37.448	36.501	35.95	28.695
23:32	37.367	36.449	35.879	28.69
23:33	37.28	36.388	35.805	28.686
23:34	37.187	36.325	35.726	28.69
23:35	37.093	36.258	35.648	28.692
23:36	36.998	36.189	35.569	28.692
23:37	36.904	36.118	35.489	28.664
23:38	36.812	36.047	35.412	28.667
23:39	36.72	35.975	35.337	28.673
23:40	36.632	35.904	35.262	28.676
23:41	36.545	35.834	35.19	28.67
23:42	36.462	35.765	35.119	28.669
23:43	36.381	35.696	35.05	28.648
23:44	36.303	35.629	34.984	28.647
23:45	36.226	35.564	34.918	28.627
23:46	36.152	35.499	34.855	28.596
23:47	36.081	35.435	34.792	28.582
23:48	36.069	35.472	34.787	28.586
23:49	36.347	35.812	34.934	28.585
23:50	36.887	36.325	35.17	28.593
23:51	37.126	36.496	35.485	28.504
23:52	37.305	36.55	35.755	28.41
23:53	37.448	36.584	35.926	28.427
23:54	37.539	36.601	36.02	28.453
23:55	37.582	36.601	36.061	28.47
23:56	37.582	36.586	36.061	28.486
23:57	37.552	36.561	36.034	28.504
23:58	37.497	36.523	35.985	28.512
23:59	37.427	36.476	35.924	28.487
0:00	37.346	36.423	35.854	28.495
0:01	37.257	36.363	35.777	28.504
0:02	37.165	36.298	35.698	28.512
0:03	37.071	36.231	35.619	28.524
0:04	36.977	36.16	35.539	28.529
0:05	36.882	36.089	35.459	28.531
0:06	36.79	36.017	35.38	28.538
0:07	36.698	35.945	35.303	28.543
0:08	36.61	35.872	35.227	28.549
0:09	36.523	35.802	35.154	28.521
0:10	36.439	35.731	35.082	28.52
0:11	36.356	35.663	35.012	28.523
0:12	36.276	35.594	34.944	28.527
0:13	36.2	35.529	34.878	28.529
0:14	36.126	35.462	34.813	28.537
0:15	36.054	35.398	34.75	28.54
0:16	35.987	35.34	34.692	28.54
0:17	36.106	35.525	34.765	28.546
0:18	36.508	35.955	34.974	28.548
0:19	36.972	36.422	35.245	28.551
0:20	37.156	36.479	35.569	28.548
0:21	37.326	36.525	35.793	28.543
0:22	37.449	36.55	35.928	28.543
0:23	37.52	36.557	35.997	28.535
0:24	37.544	36.55	36.017	28.532
0:25	37.53	36.53	36.002	28.532
0:26	37.489	36.498	35.965	28.534
0:27	37.427	36.456	35.909	28.531
0:28	37.352	36.407	35.842	28.527
0:29	37.266	36.349	35.768	28.518
0:30	37.175	36.287	35.691	28.521
0:31	37.081	36.221	35.611	28.52
0:32	36.986	36.15	35.529	28.513
0:33	36.89	36.079	35.449	28.509
0:34	36.797	36.008	35.368	28.503
0:35	36.703	35.936	35.292	28.496
0:36	36.613	35.864	35.215	28.493
0:37	36.525	35.792	35.14	28.489
0:38	36.439	35.721	35.067	28.482
0:39	36.356	35.651	34.996	28.478
0:40	36.275	35.582	34.926	28.475
0:41	36.197	35.515	34.86	28.479
0:42	36.121	35.449	34.793	28.479
0:43	36.062	35.422	34.755	28.47
0:44	36.258	35.674	34.853	28.465
0:45	36.696	36.145	35.069	28.473
0:46	37.035	36.454	35.358	28.465
0:47	37.223	36.508	35.651	28.464
0:48	37.382	36.547	35.842	28.459
0:49	37.487	36.566	35.953	28.458
0:50	37.542	36.566	36.003	28.453
0:51	37.552	36.554	36.012	28.448
0:52	37.528	36.528	35.988	28.456
0:53	37.479	36.491	35.943	28.456
0:54	37.412	36.445	35.884	28.455
0:55	37.331	36.393	35.813	28.459
0:56	37.244	36.334	35.738	28.462
0:57	37.151	36.268	35.659	28.458
0:58	37.056	36.2	35.577	28.45
0:59	36.96	36.13	35.497	28.445
1:00	36.863	36.057	35.415	28.439
1:01	36.769	35.985	35.337	28.436
1:02	36.678	35.911	35.258	28.434
1:03	36.586	35.839	35.182	28.433
1:04	36.498	35.767	35.107	28.428

1:05	36.413	35.694	35.034	28.417
1:06	36.33	35.624	34.962	28.403
1:07	36.249	35.556	34.893	28.397
1:08	36.172	35.487	34.825	28.393
1:09	36.096	35.42	34.759	28.383
1:10	36.022	35.355	34.694	28.38
1:11	35.968	35.333	34.661	28.369
1:12	36.163	35.596	34.764	28.369
1:13	36.615	36.071	34.987	28.368
1:14	37.037	36.481	35.278	28.362
1:15	37.233	36.535	35.602	28.352
1:16	37.403	36.574	35.817	28.345
1:17	37.518	36.593	35.943	28.332
1:18	37.58	36.593	36.005	28.329
1:19	37.594	36.579	36.02	28.331
1:20	37.573	36.554	36	28.324
1:21	37.523	36.517	35.958	28.314
1:22	37.455	36.471	35.899	28.306
1:23	37.374	36.415	35.829	28.303
1:24	37.283	36.354	35.753	28.301
1:25	37.187	36.288	35.671	28.297
1:26	37.09	36.219	35.589	28.284
1:27	36.993	36.147	35.505	28.278
1:28	36.894	36.072	35.423	28.276
1:29	36.797	35.998	35.34	28.269
1:30	36.702	35.923	35.26	28.258
1:31	36.608	35.849	35.182	28.247
1:32	36.518	35.775	35.105	28.244
1:33	36.43	35.701	35.029	28.246
1:34	36.344	35.629	34.956	28.241
1:35	36.261	35.559	34.884	28.233
1:36	36.182	35.489	34.817	28.229
1:37	36.104	35.42	34.749	28.216
1:38	36.03	35.375	34.696	28.213
1:39	36.194	35.602	34.793	28.21
1:40	36.623	36.056	35.001	28.21
1:41	37.016	36.439	35.295	28.216
1:42	37.204	36.493	35.597	28.212
1:43	37.365	36.532	35.798	28.207
1:44	37.477	36.55	35.916	28.204
1:45	37.535	36.55	35.971	28.193
1:46	37.549	36.537	35.981	28.188
1:47	37.525	36.512	35.96	28.179
1:48	37.477	36.474	35.914	28.168
1:49	37.408	36.427	35.854	28.162
1:50	37.326	36.371	35.782	28.162
1:51	37.237	36.31	35.704	28.151
1:52	37.141	36.244	35.622	28.153
1:53	37.044	36.173	35.539	28.145
1:54	36.947	36.101	35.455	28.153
1:55	36.848	36.027	35.372	28.15
1:56	36.751	35.951	35.288	28.147
1:57	36.656	35.876	35.208	28.147
1:58	36.562	35.8	35.129	28.143
1:59	36.473	35.726	35.05	28.14
2:00	36.385	35.653	34.976	28.147
2:01	36.298	35.581	34.903	28.154
2:02	36.216	35.509	34.83	28.148
2:03	36.135	35.439	34.76	28.136
2:04	36.057	35.37	34.692	28.13
2:05	35.983	35.317	34.639	28.131
2:06	36.123	35.524	34.719	28.126
2:07	36.539	35.983	34.921	28.133
2:08	36.998	36.447	35.197	28.134
2:09	37.189	36.501	35.525	28.13
2:10	37.36	36.54	35.751	28.13
2:11	37.48	36.559	35.886	28.122
2:12	37.547	36.559	35.953	28.123
2:13	37.564	36.545	35.971	28.119
2:14	37.544	36.518	35.955	28.116
2:15	37.496	36.479	35.911	28.113
2:16	37.429	36.432	35.852	28.111
2:17	37.346	36.378	35.782	28.114
2:18	37.256	36.315	35.703	28.108
2:19	37.16	36.248	35.621	28.105
2:20	37.061	36.177	35.535	28.092
2:21	36.96	36.103	35.452	28.097
2:22	36.86	36.027	35.367	28.089
2:23	36.761	35.951	35.283	28.089
2:24	36.664	35.876	35.2	28.085
2:25	36.571	35.798	35.12	28.085
2:26	36.478	35.723	35.04	28.077
2:27	36.388	35.648	34.964	28.072
2:28	36.3	35.574	34.889	28.069
2:29	36.216	35.502	34.817	28.066
2:30	36.135	35.43	34.745	28.063
2:31	36.056	35.36	34.676	28.057
2:32	36.015	35.36	34.651	28.054
2:33	36.249	35.654	34.773	28.059
2:34	36.742	36.157	35.001	28.054
2:35	37.09	36.476	35.303	28.055
2:36	37.268	36.522	35.607	28.054
2:37	37.418	36.55	35.8	28.049
2:38	37.518	36.561	35.911	28.048
2:39	37.564	36.556	35.961	28.049
2:40	37.568	36.535	35.965	28.046
2:41	37.537	36.505	35.938	28.046
2:42	37.482	36.462	35.889	28.04
2:43	37.406	36.412	35.825	28.031
2:44	37.321	36.354	35.75	28.023
2:45	37.227	36.288	35.669	28.012
2:46	37.129	36.219	35.584	28.012
2:47	37.028	36.147	35.499	27.994
2:48	36.928	36.071	35.412	27.994
2:49	36.826	35.995	35.327	27.987
2:50	36.727	35.918	35.242	27.991
2:51	36.63	35.84	35.16	27.983
2:52	36.535	35.763	35.079	27.978
2:53	36.442	35.688	35.001	27.972
2:54	36.352	35.612	34.923	27.961
2:55	36.265	35.539	34.848	27.963
2:56	36.18	35.465	34.775	27.961
2:57	36.099	35.393	34.704	27.96
2:58	36.02	35.323	34.634	27.955
2:59	35.993	35.353	34.626	27.954
3:00	36.265	35.688	34.772	27.954

3:01	36.769	36.2	35.012	27.957
3:02	37.086	36.456	35.328	27.96
3:03	37.269	36.505	35.616	27.958
3:04	37.417	36.534	35.798	27.958
3:05	37.511	36.542	35.899	27.957
3:06	37.554	36.535	35.943	27.96
3:07	37.554	36.515	35.943	27.954
3:08	37.518	36.481	35.911	27.947
3:09	37.46	36.439	35.859	27.943
3:10	37.382	36.386	35.793	27.937
3:11	37.295	36.325	35.716	27.933
3:12	37.199	36.26	35.634	27.933
3:13	37.1	36.189	35.549	27.94
3:14	36.999	36.114	35.462	27.937
3:15	36.897	36.039	35.375	27.926
3:16	36.797	35.961	35.288	27.924
3:17	36.696	35.884	35.203	27.92
3:18	36.598	35.807	35.12	27.91
3:19	36.503	35.73	35.039	27.903
3:20	36.41	35.653	34.961	27.898
3:21	36.32	35.577	34.883	27.893
3:22	36.233	35.502	34.808	27.895
3:23	36.147	35.429	34.734	27.89
3:24	36.133	35.48	34.732	27.884
3:25	36.408	35.829	34.879	27.889
3:26	36.953	36.349	35.109	27.889
3:27	37.196	36.535	35.427	27.883
3:28	37.37	36.578	35.696	27.886
3:29	37.508	36.6	35.864	27.884
3:30	37.59	36.603	35.953	27.886
3:31	37.623	36.591	35.988	27.889
3:32	37.614	36.566	35.981	27.883
3:33	37.571	36.528	35.945	27.881
3:34	37.508	36.481	35.889	27.886
3:35	37.427	36.425	35.819	27.876
3:36	37.336	36.363	35.741	27.875
3:37	37.239	36.293	35.658	27.875
3:38	37.136	36.221	35.571	27.861
3:39	37.033	36.145	35.482	27.853
3:40	36.929	36.067	35.395	27.85
3:41	36.827	35.99	35.307	27.852
3:42	36.727	35.911	35.222	27.846
3:43	36.627	35.832	35.139	27.844
3:44	36.532	35.753	35.055	27.85
3:45	36.437	35.676	34.976	27.842
3:46	36.346	35.599	34.899	27.842
3:47	36.258	35.524	34.823	27.83
3:48	36.172	35.45	34.749	27.825
3:49	36.089	35.378	34.677	27.818
3:50	36.072	35.439	34.682	27.821
3:51	36.393	35.788	34.826	27.822
3:52	36.906	36.334	35.064	27.821
3:53	37.093	36.434	35.39	27.824
3:54	37.269	36.479	35.643	27.824
3:55	37.403	36.501	35.795	27.812
3:56	37.482	36.505	35.877	27.815
3:57	37.511	36.491	35.904	27.81
3:58	37.501	36.466	35.894	27.809
3:59	37.46	36.429	35.855	27.809
4:00	37.396	36.383	35.798	27.81
4:01	37.316	36.327	35.728	27.805
4:02	37.227	36.265	35.649	27.809
4:03	37.129	36.197	35.566	27.799
4:04	37.03	36.125	35.479	27.799
4:05	36.928	36.05	35.392	27.787
4:06	36.826	35.973	35.305	27.782
4:07	36.725	35.896	35.218	27.781
4:08	36.625	35.817	35.134	27.776
4:09	36.528	35.738	35.05	27.776
4:10	36.434	35.661	34.969	27.775
4:11	36.341	35.584	34.889	27.77
4:12	36.249	35.509	34.813	27.765
4:13	36.162	35.435	34.737	27.767
4:14	36.077	35.362	34.664	27.767
4:15	36.032	35.372	34.643	27.764
4:16	36.295	35.679	34.767	27.767
4:17	36.766	36.18	35.004	27.768
4:18	37.102	36.476	35.297	27.764
4:19	37.281	36.517	35.589	27.756
4:20	37.429	36.54	35.775	27.748
4:21	37.523	36.545	35.879	27.739
4:22	37.564	36.534	35.923	27.745
4:23	37.561	36.508	35.923	27.75
4:24	37.525	36.473	35.892	27.738
4:25	37.463	36.427	35.839	27.741
4:26	37.384	36.371	35.772	27.747
4:27	37.293	36.309	35.693	27.739
4:28	37.196	36.241	35.609	27.738
4:29	37.093	36.168	35.522	27.741
4:30	36.991	36.093	35.434	27.739
4:31	36.885	36.015	35.345	27.739
4:32	36.783	35.936	35.257	27.727
4:33	36.681	35.857	35.17	27.721
4:34	36.581	35.778	35.085	27.716
4:35	36.483	35.698	35.002	27.713
4:36	36.388	35.621	34.923	27.704
4:37	36.295	35.544	34.843	27.696
4:38	36.206	35.467	34.767	27.691
4:39	36.118	35.393	34.692	27.69
4:40	36.034	35.32	34.618	27.685
4:41	36.118	35.492	34.681	27.673
4:42	36.484	35.904	34.861	27.679
4:43	37.02	36.429	35.114	27.681
4:44	37.194	36.484	35.452	27.682
4:45	37.364	36.523	35.693	27.685
4:46	37.485	36.54	35.837	27.681
4:47	37.551	36.539	35.909	27.679
4:48	37.57	36.52	35.929	27.671
4:49	37.547	36.489	35.913	27.661
4:50	37.497	36.447	35.869	27.654
4:51	37.425	36.396	35.807	27.659
4:52	37.34	36.337	35.731	27.665
4:53	37.244	36.271	35.649	27.653
4:54	37.144	36.2	35.562	27.654
4:55	37.04	36.126	35.474	27.65
4:56	36.935	36.049	35.383	27.645

4:57	36.831	35.97	35.295	27.642
4:58	36.727	35.889	35.207	27.641
4:59	36.625	35.808	35.12	27.642
5:00	36.525	35.73	35.034	27.641
5:01	36.427	35.651	34.952	27.639
5:02	36.332	35.572	34.871	27.636
5:03	36.241	35.495	34.792	27.637
5:04	36.152	35.418	34.716	27.634
5:05	36.064	35.343	34.641	27.636
5:06	35.995	35.293	34.582	27.634
5:07	36.141	35.524	34.666	27.636
5:08	36.576	35.987	34.881	27.641
5:09	37.037	36.452	35.17	27.634
5:10	37.22	36.5	35.495	27.641
5:11	37.382	36.528	35.718	27.633
5:12	37.496	36.539	35.847	27.622
5:13	37.554	36.532	35.908	27.621
5:14	37.564	36.51	35.921	27.614
5:15	37.537	36.476	35.896	27.611
5:16	37.482	36.432	35.849	27.607
5:17	37.406	36.378	35.782	27.602
5:18	37.317	36.315	35.704	27.605
5:19	37.22	36.248	35.621	27.599
5:20	37.117	36.175	35.532	27.596
5:21	37.013	36.099	35.442	27.599
5:22	36.906	36.02	35.352	27.596
5:23	36.8	35.941	35.262	27.588
5:24	36.696	35.859	35.172	27.591
5:25	36.595	35.778	35.085	27.577
5:26	36.495	35.698	34.999	27.576
5:27	36.396	35.619	34.916	27.57
5:28	36.302	35.54	34.835	27.562
5:29	36.209	35.462	34.757	27.565
5:30	36.12	35.385	34.679	27.548
5:31	36.067	35.388	34.648	27.541
5:32	36.305	35.681	34.777	27.545
5:33	36.795	36.179	34.992	27.547
5:34	37.119	36.498	35.298	27.554
5:35	37.298	36.537	35.594	27.556
5:36	37.448	36.559	35.782	27.556
5:37	37.54	36.561	35.886	27.559
5:38	37.582	36.545	35.929	27.557
5:39	37.578	36.518	35.928	27.565
5:40	37.54	36.479	35.894	27.561
5:41	37.477	36.429	35.839	27.557
5:42	37.396	36.371	35.768	27.551
5:43	37.304	36.307	35.688	27.53
5:44	37.203	36.236	35.601	27.522
5:45	37.098	36.162	35.51	27.522
5:46	36.991	36.084	35.418	27.521
5:47	36.885	36.003	35.328	27.511
5:48	36.78	35.923	35.237	27.513
5:49	36.674	35.84	35.149	27.502
5:50	36.573	35.76	35.06	27.491
5:51	36.473	35.678	34.976	27.496
5:52	36.374	35.597	34.893	27.487
5:53	36.28	35.519	34.812	27.496
5:54	36.187	35.442	34.732	27.496
5:55	36.098	35.365	34.654	27.502
5:56	36.184	35.534	34.711	27.505
5:57	36.559	35.951	34.894	27.505
5:58	37.057	36.476	35.16	27.505
5:59	37.23	36.522	35.489	27.514
6:00	37.396	36.552	35.721	27.517
6:01	37.515	36.564	35.859	27.513
6:02	37.578	36.557	35.924	27.514
6:03	37.592	36.534	35.939	27.51
6:04	37.568	36.5	35.918	27.505
6:05	37.513	36.454	35.871	27.511
6:06	37.439	36.4	35.805	27.513
6:07	37.352	36.339	35.726	27.508
6:08	37.254	36.27	35.643	27.511
6:09	37.15	36.197	35.552	27.513
6:10	37.044	36.12	35.46	27.519
6:11	36.936	36.04	35.368	27.521
6:12	36.829	35.96	35.277	27.524
6:13	36.724	35.877	35.187	27.534
6:14	36.62	35.795	35.099	27.564
6:15	36.518	35.713	35.012	27.601
6:16	36.418	35.632	34.928	27.63
6:17	36.322	35.552	34.845	27.636
6:18	36.229	35.474	34.764	27.627
6:19	36.138	35.397	34.686	27.611
6:20	36.19	35.535	34.725	27.599
6:21	36.569	35.939	34.898	27.594
6:22	37.081	36.479	35.142	27.593
6:23	37.237	36.522	35.474	27.591
6:24	37.396	36.552	35.71	27.582
6:25	37.513	36.562	35.849	27.588
6:26	37.577	36.554	35.918	27.59
6:27	37.59	36.532	35.934	27.574
6:28	37.566	36.496	35.914	27.561
6:29	37.513	36.451	35.867	27.554
6:30	37.437	36.396	35.802	27.557
6:31	37.35	36.334	35.725	27.557
6:32	37.252	36.266	35.639	27.554
6:33	37.148	36.192	35.55	27.556
6:34	37.042	36.114	35.459	27.559
6:35	36.935	36.035	35.367	27.561
6:36	36.827	35.953	35.275	27.559
6:37	36.72	35.872	35.185	27.564
6:38	36.617	35.79	35.097	27.565
6:39	36.513	35.708	35.009	27.573
6:40	36.413	35.627	34.924	27.582
6:41	36.317	35.547	34.841	27.59
6:42	36.222	35.469	34.762	27.597
6:43	36.13	35.39	34.682	27.602
6:44	36.04	35.313	34.606	27.61
6:45	35.953	35.238	34.532	27.617
6:46	36.03	35.398	34.595	27.627
6:47	36.4	35.813	34.773	27.636
6:48	36.96	36.369	35.029	27.648
6:49	37.216	36.552	35.367	27.659
6:50	37.394	36.583	35.651	27.668
6:51	37.528	36.593	35.822	27.674
6:52	37.606	36.584	35.911	27.679

I. Temperature from core to outer surface-16 nos. of plates in Heating foil incubator

Time	Core, T1	Inner air, T2	Inner wall, T3	Outer wall, T4
9:35	30.359	30.583	29.949	28.028
9:36	30.375	30.506	29.977	28.037
9:37	30.383	30.454	30	28.029
9:38	30.384	30.419	30.022	28.014
9:39	30.38	30.392	30.04	27.995
9:40	30.372	30.37	30.054	27.974
9:41	30.359	30.353	30.065	27.958
9:42	30.345	30.336	30.074	27.943
9:43	30.331	30.318	30.081	27.927
9:44	30.313	30.302	30.084	27.915
9:45	30.296	30.285	30.085	27.901
9:46	30.279	30.268	30.084	27.887
9:47	30.262	30.25	30.082	27.876
9:48	30.243	30.233	30.077	27.867
9:49	30.225	30.214	30.073	27.859
9:50	30.206	30.195	30.065	27.85
9:51	30.188	30.177	30.057	27.842
9:52	30.17	30.158	30.048	27.833
9:53	30.151	30.137	30.038	27.83
9:54	30.134	30.118	30.027	27.822
9:55	30.117	30.099	30.015	27.821
9:56	30.099	30.079	30.004	27.813
9:57	30.082	30.059	29.989	27.809
9:58	30.065	30.038	29.977	27.792
9:59	30.048	30.018	29.963	27.785
10:00	30.032	29.997	29.949	27.765
10:01	30.015	29.977	29.933	27.707
10:02	29.999	29.958	29.919	27.674
10:03	29.983	29.938	29.903	27.658
10:04	29.966	29.917	29.887	27.662
10:05	29.95	29.897	29.872	27.661
10:06	29.934	29.876	29.856	27.667
10:07	29.92	29.858	29.839	27.673
10:08	29.905	29.837	29.823	27.682
10:09	29.889	29.817	29.807	27.684
10:10	29.875	29.798	29.792	27.687
10:11	29.859	29.779	29.781	27.691
10:12	29.845	29.76	29.768	27.698
10:13	29.831	29.742	29.756	27.704
10:14	29.817	29.724	29.742	27.71
10:15	29.803	29.706	29.726	27.718
10:16	29.789	29.688	29.712	27.724
10:17	29.774	29.67	29.696	27.727
10:18	29.76	29.652	29.68	27.731
10:19	29.748	29.635	29.666	27.736
10:20	29.734	29.618	29.651	27.735
10:21	29.721	29.602	29.635	27.735
10:22	29.707	29.585	29.621	27.716
10:23	29.695	29.569	29.605	27.716
10:24	29.682	29.552	29.591	27.704
10:25	29.67	29.536	29.576	27.704
10:26	29.657	29.521	29.562	27.704
10:27	29.644	29.504	29.547	27.707
10:28	29.632	29.488	29.533	27.71
10:29	29.619	29.472	29.519	27.715
10:30	29.607	29.457	29.505	27.705
10:31	29.594	29.443	29.491	27.699
10:32	29.583	29.427	29.477	27.705
10:33	29.571	29.413	29.465	27.711
10:34	29.56	29.399	29.45	27.718
10:35	29.547	29.383	29.436	27.719
10:36	29.536	29.371	29.424	27.718
10:37	29.526	29.357	29.41	27.722
10:38	29.513	29.343	29.397	27.73
10:39	29.502	29.329	29.385	27.73
10:40	29.491	29.316	29.372	27.731
10:41	29.48	29.302	29.36	27.738
10:42	29.469	29.29	29.347	27.744
10:43	29.458	29.276	29.335	27.751
10:44	29.447	29.263	29.322	27.759
10:45	29.436	29.251	29.311	27.762
10:46	29.427	29.238	29.299	27.765
10:47	29.416	29.226	29.288	27.772
10:48	29.405	29.213	29.276	27.781
10:49	29.396	29.202	29.265	27.788
10:50	29.385	29.19	29.254	27.793
10:51	29.376	29.179	29.243	27.793
10:52	29.365	29.168	29.232	27.801
10:53	29.355	29.155	29.221	27.809
10:54	29.346	29.145	29.21	27.816
10:55	29.335	29.134	29.199	27.824
10:56	29.326	29.123	29.188	27.83
10:57	29.316	29.112	29.177	27.838
10:58	29.307	29.101	29.166	27.827
10:59	29.297	29.09	29.157	27.818
11:00	29.288	29.081	29.146	27.81
11:01	29.279	29.07	29.137	27.804
11:02	29.269	29.059	29.126	27.804
11:03	29.26	29.048	29.117	27.796
11:04	29.251	29.037	29.107	27.796
11:05	29.243	29.028	29.096	27.804
11:06	29.233	29.017	29.087	27.804
11:07	29.224	29.008	29.078	27.804
11:08	29.215	28.998	29.068	27.813
11:09	29.207	28.987	29.059	27.822
11:10	29.198	28.978	29.05	27.832
11:11	29.19	28.969	29.04	27.842
11:12	29.18	28.959	29.032	27.852
11:13	29.173	28.951	29.023	27.859
11:14	29.163	28.942	29.014	27.869
11:15	29.155	28.934	29.006	27.875
11:16	29.148	28.925	28.997	27.883
11:17	29.14	28.917	28.989	27.89
11:18	29.131	28.909	28.979	27.899
11:19	29.123	28.902	28.972	27.904
11:20	29.115	28.894	28.964	27.91
11:21	29.107	28.886	28.956	27.916

11:22	29.099	28.878	28.948	27.921
11:23	29.092	28.871	28.941	27.923
11:24	29.084	28.864	28.933	27.926
11:25	29.076	28.857	28.925	27.927
11:26	29.07	28.85	28.917	27.926
11:27	29.062	28.843	28.911	27.926
11:28	29.054	28.836	28.903	27.929
11:29	29.046	28.829	28.895	27.929
11:30	29.04	28.822	28.889	27.918
11:31	29.032	28.815	28.881	27.916
11:32	29.025	28.807	28.875	27.91
11:33	29.018	28.801	28.869	27.887
11:34	29.011	28.793	28.861	27.859
11:35	29.004	28.787	28.855	27.85
11:36	28.997	28.779	28.847	27.849
11:37	28.99	28.773	28.841	27.849
11:38	28.984	28.765	28.835	27.853
11:39	28.976	28.759	28.827	27.858
11:40	28.97	28.752	28.821	27.861
11:41	28.964	28.746	28.815	27.864
11:42	28.956	28.74	28.808	27.866
11:43	28.95	28.734	28.802	27.864
11:44	28.944	28.728	28.794	27.83
11:45	28.937	28.721	28.788	27.798
11:46	28.931	28.714	28.782	27.785
11:47	28.923	28.707	28.776	27.785
11:48	28.917	28.701	28.768	27.792
11:49	28.911	28.695	28.762	27.801
11:50	28.905	28.689	28.756	27.81
11:51	28.899	28.683	28.749	27.818
11:52	28.892	28.678	28.743	27.824
11:53	28.886	28.672	28.737	27.832
11:54	28.88	28.667	28.731	27.836
11:55	28.874	28.661	28.725	27.842
11:56	28.867	28.656	28.72	27.849
11:57	28.861	28.65	28.714	27.849
11:58	28.857	28.645	28.707	27.85
11:59	28.85	28.641	28.701	27.855
12:00	28.844	28.634	28.695	27.861
12:01	28.838	28.63	28.69	27.869
12:02	28.832	28.625	28.684	27.872
12:03	28.827	28.619	28.679	27.876
12:04	28.821	28.614	28.673	27.878
12:05	28.815	28.61	28.667	27.878
12:06	28.81	28.605	28.662	27.879
12:07	28.804	28.6	28.658	27.883
12:08	28.798	28.594	28.652	27.886
12:09	28.793	28.589	28.647	27.887
12:10	28.787	28.585	28.641	27.889
12:11	28.782	28.58	28.636	27.889
12:12	28.776	28.575	28.631	27.892
12:13	28.771	28.571	28.627	27.892
12:14	28.765	28.566	28.62	27.896
12:15	28.76	28.562	28.616	27.899
12:16	28.756	28.557	28.611	27.903
12:17	28.749	28.552	28.607	27.906
12:18	28.745	28.548	28.602	27.91
12:19	28.74	28.543	28.597	27.912
12:20	28.734	28.538	28.593	27.912
12:21	28.729	28.534	28.588	27.915
12:22	28.725	28.531	28.583	27.916
12:23	28.718	28.526	28.579	27.918
12:24	28.714	28.521	28.574	27.918
12:25	28.709	28.517	28.569	27.923
12:26	28.704	28.513	28.565	27.926
12:27	28.7	28.509	28.562	27.932
12:28	28.695	28.504	28.557	27.937
12:29	28.69	28.501	28.552	27.941
12:30	28.684	28.496	28.548	27.944
12:31	28.679	28.492	28.544	27.949
12:32	28.675	28.489	28.54	27.952
12:33	28.67	28.484	28.535	27.955
12:34	28.665	28.481	28.532	27.957
12:35	28.661	28.476	28.527	27.958
12:36	28.658	28.473	28.523	27.958
12:37	28.653	28.47	28.52	27.96
12:38	28.648	28.465	28.515	27.961
12:39	28.644	28.462	28.512	27.955
12:40	28.639	28.459	28.507	27.955
12:41	28.634	28.455	28.504	27.958
12:42	28.63	28.451	28.501	27.96
12:43	28.627	28.448	28.496	27.961
12:44	28.622	28.445	28.493	27.958
12:45	28.617	28.441	28.489	27.958
12:46	28.614	28.438	28.486	27.96
12:47	28.61	28.434	28.482	27.961
12:48	28.605	28.431	28.478	27.964
12:49	28.602	28.428	28.475	27.969
12:50	28.597	28.425	28.472	27.97
12:51	28.593	28.422	28.469	27.974
12:52	28.63	28.441	28.473	27.98
12:53	28.899	28.599	28.593	27.992
12:54	29.361	28.844	28.81	28.011
12:55	29.898	29.149	29.067	28.038
12:56	30.468	29.504	29.344	28.069
12:57	31.012	29.876	29.657	28.096
12:58	31.526	30.279	29.971	28.125
12:59	32.03	30.657	30.285	28.156
13:00	32.489	31.031	30.594	28.19
13:01	32.94	31.416	30.906	28.222
13:02	33.351	31.772	31.196	28.256
13:03	33.717	32.119	31.496	28.287
13:04	34.088	32.446	31.788	28.323
13:05	34.446	32.759	32.079	28.355
13:06	34.787	33.055	32.349	28.38
13:07	35.114	33.385	32.652	28.405
13:08	35.435	33.714	32.927	28.439
13:09	35.748	34.011	33.212	28.472
13:10	36.074	34.273	33.479	28.498
13:11	37.102	34.491	33.605	28.529
13:12	38.714	34.471	33.491	28.552
13:13	39.478	34.394	33.414	28.568

13:14	39.856	34.306	33.365	28.583
13:15	39.92	34.221	33.338	28.593
13:16	39.765	34.139	33.323	28.602
13:17	39.485	34.06	33.318	28.61
13:18	39.151	33.983	33.318	28.614
13:19	38.798	33.911	33.32	28.617
13:20	38.447	33.84	33.325	28.617
13:21	38.11	33.771	33.328	28.624
13:22	37.794	33.704	33.331	28.628
13:23	37.497	33.641	33.333	28.631
13:24	37.225	33.577	33.331	28.638
13:25	36.974	33.517	33.329	28.645
13:26	36.742	33.46	33.326	28.652
13:27	36.532	33.403	33.32	28.652
13:28	36.339	33.346	33.313	28.652
13:29	36.162	33.29	33.303	28.653
13:30	35.998	33.237	33.292	28.652
13:31	35.849	33.183	33.279	28.648
13:32	35.711	33.131	33.266	28.648
13:33	35.584	33.078	33.251	28.647
13:34	35.465	33.023	33.235	28.642
13:35	35.355	32.969	33.217	28.633
13:36	35.253	32.912	33.199	28.616
13:37	35.158	32.856	33.182	28.605
13:38	35.069	32.797	33.162	28.603
13:39	34.986	32.743	33.141	28.594
13:40	34.908	32.689	33.121	28.589
13:41	34.835	32.641	33.1	28.586
13:42	34.729	32.704	33.108	28.589
13:43	34.739	32.958	33.227	28.596
13:44	34.974	33.282	33.434	28.613
13:45	35.357	33.644	33.682	28.636
13:46	35.792	34.019	33.955	28.642
13:47	36.249	34.418	34.249	28.662
13:48	37.794	34.438	34.259	28.686
13:49	38.944	34.277	34.194	28.704
13:50	39.578	34.152	34.15	28.717
13:51	39.836	34.058	34.124	28.723
13:52	39.827	33.986	34.106	28.726
13:53	39.658	33.929	34.096	28.729
13:54	39.414	33.881	34.089	28.731
13:55	39.137	33.839	34.086	28.732
13:56	38.854	33.801	34.083	28.734
13:57	38.578	33.767	34.079	28.74
13:58	38.313	33.734	34.075	28.735
13:59	38.065	33.703	34.07	28.735
14:00	37.833	33.673	34.063	28.732
14:01	37.616	33.644	34.055	28.729
14:02	37.415	33.618	34.043	28.729
14:03	37.228	33.592	34.033	28.729
14:04	37.056	33.567	34.02	28.728
14:05	36.895	33.543	34.007	28.738
14:06	36.747	33.518	33.992	28.737
14:07	36.612	33.496	33.976	28.735
14:08	36.484	33.473	33.96	28.743
14:09	36.366	33.45	33.943	28.742
14:10	36.254	33.427	33.925	28.743
14:11	36.152	33.406	33.907	28.748
14:12	36.056	33.385	33.889	28.752
14:13	35.965	33.364	33.87	28.756
14:14	35.879	33.342	33.85	28.763
14:15	35.797	33.323	33.829	28.771
14:16	35.72	33.302	33.809	28.774
14:17	35.646	33.281	33.788	28.779
14:18	35.577	33.261	33.767	28.784
14:19	35.51	33.242	33.745	28.787
14:20	35.445	33.222	33.724	28.788
14:21	35.385	33.203	33.703	28.793
14:22	35.325	33.182	33.68	28.802
14:23	35.27	33.162	33.659	28.808
14:24	35.215	33.143	33.636	28.821
14:25	35.162	33.123	33.615	28.822
14:26	35.11	33.104	33.592	28.83
14:27	35.062	33.084	33.571	28.836
14:28	35.014	33.066	33.548	28.836
14:29	34.967	33.047	33.526	28.841
14:30	34.921	33.027	33.504	28.843
14:31	34.878	33.008	33.481	28.844
14:32	34.835	32.988	33.46	28.849
14:33	34.792	32.969	33.437	28.849
14:34	34.75	32.95	33.416	28.847
14:35	34.709	32.93	33.395	28.847
14:36	34.666	32.958	33.388	28.853
14:37	34.749	33.185	33.489	28.866
14:38	35.029	33.476	33.665	28.886
14:39	35.44	33.832	33.901	28.908
14:40	35.902	34.224	34.166	28.936
14:41	36.371	34.6	34.436	28.964
14:42	37.935	34.54	34.412	28.992
14:43	38.859	34.427	34.359	29.009
14:44	39.364	34.351	34.326	29.018
14:45	39.584	34.295	34.305	29.017
14:46	39.598	34.252	34.293	29.014
14:47	39.481	34.214	34.287	29.015
14:48	39.29	34.181	34.283	29.008
14:49	39.06	34.15	34.282	29.006
14:50	38.817	34.119	34.282	29.006
14:51	38.573	34.089	34.28	29.001
14:52	38.337	34.061	34.278	29.004
14:53	38.112	34.032	34.275	29.011
14:54	37.899	34.004	34.272	29.017
14:55	37.7	33.976	34.267	29.023
14:56	37.515	33.95	34.26	29.026
14:57	37.341	33.922	34.252	29.032
14:58	37.18	33.896	34.244	29.04
14:59	37.03	33.871	34.234	29.045
15:00	36.89	33.845	34.222	29.048
15:01	36.761	33.821	34.209	29.05
15:02	36.639	33.798	34.196	29.048
15:03	36.525	33.773	34.181	29.051
15:04	36.418	33.75	34.166	29.045
15:05	36.319	33.727	34.15	29.045

15:06	36.226	33.706	34.134	29.042
15:07	36.136	33.683	34.116	29.042
15:08	36.054	33.662	34.098	29.039
15:09	35.975	33.639	34.079	29.04
15:10	35.899	33.618	34.061	29.039
15:11	35.829	33.597	34.042	29.031
15:12	35.761	33.575	34.022	29.02
15:13	35.696	33.554	34.002	29.009
15:14	35.634	33.535	33.981	29.004
15:15	35.576	33.513	33.961	29.001
15:16	35.519	33.494	33.94	29.001
15:17	35.464	33.473	33.919	28.998
15:18	35.412	33.453	33.897	28.992
15:19	35.36	33.432	33.876	28.993
15:20	35.31	33.412	33.855	28.993
15:21	35.263	33.391	33.834	28.993
15:22	35.217	33.372	33.812	28.987
15:23	35.17	33.351	33.789	28.997
15:24	35.127	33.331	33.768	28.993
15:25	35.084	33.31	33.745	28.993
15:26	35.04	33.29	33.724	28.989
15:27	34.999	33.271	33.703	28.984
15:28	34.959	33.25	33.68	28.987
15:29	34.919	33.23	33.659	28.992
15:30	34.881	33.211	33.636	28.992
15:31	34.843	33.191	33.615	28.987
15:32	34.805	33.172	33.592	28.984
15:33	34.768	33.151	33.571	28.978
15:34	34.732	33.131	33.549	28.975
15:35	34.696	33.112	33.526	28.975
15:36	34.673	33.18	33.536	28.973
15:37	34.835	33.412	33.654	28.987
15:38	35.175	33.735	33.857	29.011
15:39	35.629	34.101	34.091	29.037
15:40	36.096	34.479	34.362	29.065
15:41	37.078	34.692	34.514	29.092
15:42	38.358	34.567	34.458	29.113
15:43	39.051	34.486	34.417	29.129
15:44	39.409	34.431	34.39	29.135
15:45	39.529	34.39	34.375	29.138
15:46	39.486	34.354	34.367	29.152
15:47	39.341	34.321	34.364	29.162
15:48	39.14	34.29	34.362	29.173
15:49	38.914	34.26	34.362	29.176
15:50	38.677	34.231	34.362	29.179
15:51	38.444	34.203	34.362	29.188
15:52	38.218	34.173	34.361	29.205
15:53	38.004	34.145	34.359	29.226
15:54	37.802	34.117	34.356	29.237
15:55	37.613	34.089	34.351	29.249
15:56	37.436	34.063	34.344	29.266
15:57	37.271	34.037	34.338	29.282
15:58	37.119	34.011	34.329	29.301
15:59	36.977	33.986	34.319	29.313
16:00	36.844	33.961	34.308	29.318
16:01	36.72	33.937	34.296	29.33

16:02	36.605	33.914	34.285	29.346
16:03	36.496	33.891	34.27	29.361
16:04	36.395	33.868	34.257	29.379
16:05	36.298	33.845	34.242	29.394
16:06	36.209	33.824	34.226	29.405
16:07	36.125	33.804	34.209	29.405
16:08	36.045	33.783	34.193	29.402
16:09	35.971	33.762	34.176	29.405
16:10	35.899	33.742	34.158	29.413
16:11	35.832	33.722	34.14	29.41
16:12	35.768	33.701	34.122	29.404
16:13	35.706	33.682	34.102	29.388
16:14	35.648	33.662	34.084	29.374
16:15	35.592	33.642	34.065	29.358
16:16	35.537	33.623	34.045	29.347
16:17	35.485	33.603	34.025	29.34
16:18	35.435	33.584	34.006	29.327
16:19	35.387	33.564	33.986	29.31
16:20	35.34	33.546	33.966	29.293
16:21	35.295	33.526	33.947	29.277
16:22	35.25	33.507	33.925	29.263
16:23	35.208	33.487	33.906	29.24
16:24	35.165	33.468	33.884	29.218
16:25	35.125	33.448	33.863	29.194
16:26	35.085	33.429	33.843	29.174
16:27	35.045	33.409	33.822	29.157
16:28	35.007	33.39	33.801	29.137
16:29	34.969	33.372	33.78	29.117
16:30	34.933	33.352	33.758	29.101
16:31	34.896	33.333	33.737	29.092
16:32	34.86	33.313	33.716	29.082
16:33	34.825	33.295	33.695	29.076
16:34	34.79	33.276	33.673	29.074
16:35	34.757	33.258	33.652	29.07
16:36	34.722	33.238	33.631	29.067
16:37	34.754	33.38	33.677	29.07
16:38	34.997	33.642	33.822	29.09
16:39	35.377	33.986	34.027	29.113
16:40	35.839	34.354	34.278	29.141
16:41	36.33	34.724	34.542	29.173
16:42	37.832	34.661	34.522	29.193
16:43	38.718	34.573	34.478	29.204
16:44	39.207	34.521	34.45	29.209
16:45	39.43	34.481	34.431	29.213
16:46	39.463	34.448	34.423	29.212
16:47	39.371	34.417	34.42	29.216
16:48	39.204	34.389	34.418	29.215
16:49	38.996	34.361	34.42	29.215
16:50	38.77	34.333	34.42	29.218
16:51	38.539	34.305	34.422	29.218
16:52	38.315	34.277	34.422	29.218
16:53	38.098	34.249	34.42	29.221
16:54	37.894	34.222	34.418	29.221
16:55	37.702	34.194	34.415	29.221
16:56	37.522	34.168	34.41	29.221
16:57	37.355	34.143	34.403	29.223

16:58	37.199	34.117	34.395	29.219
16:59	37.054	34.093	34.387	29.218
17:00	36.918	34.068	34.377	29.213
17:01	36.792	34.043	34.366	29.209
17:02	36.673	34.02	34.354	29.199
17:03	36.562	33.997	34.341	29.191
17:04	36.459	33.973	34.326	29.179
17:05	36.363	33.95	34.311	29.16
17:06	36.271	33.927	34.295	29.143
17:07	36.185	33.906	34.278	29.138
17:08	36.104	33.884	34.262	29.12
17:09	36.029	33.863	34.244	29.109
17:10	35.956	33.842	34.226	29.098
17:11	35.887	33.822	34.206	29.09
17:12	35.824	33.801	34.188	29.085
17:13	35.761	33.78	34.168	29.078
17:14	35.703	33.76	34.147	29.062
17:15	35.646	33.739	34.127	29.05
17:16	35.591	33.719	34.106	29.045
17:17	35.539	33.698	34.084	29.034
17:18	35.487	33.678	34.063	29.018
17:19	35.439	33.657	34.042	28.995
17:20	35.392	33.636	34.02	28.983
17:21	35.345	33.616	33.999	28.976
17:22	35.3	33.595	33.976	28.967
17:23	35.257	33.575	33.955	28.953
17:24	35.215	33.554	33.932	28.951
17:25	35.173	33.533	33.911	28.944
17:26	35.134	33.513	33.888	28.941
17:27	35.094	33.494	33.865	28.934
17:28	35.054	33.473	33.843	28.937
17:29	35.016	33.453	33.821	28.944
17:30	34.979	33.434	33.798	28.945
17:31	34.943	33.414	33.775	28.945
17:32	34.906	33.395	33.753	28.947
17:33	34.871	33.375	33.731	28.95
17:34	34.835	33.354	33.708	28.948
17:35	34.802	33.334	33.685	28.945
17:36	34.767	33.315	33.664	28.936
17:37	34.734	33.295	33.641	28.905
17:38	34.699	33.274	33.618	28.866
17:39	34.666	33.255	33.593	28.816
17:40	34.634	33.233	33.571	28.794
17:41	34.601	33.212	33.548	28.782
17:42	34.658	33.364	33.597	28.791
17:43	34.908	33.626	33.737	28.819
17:44	35.318	33.96	33.952	28.843
17:45	35.767	34.339	34.198	28.86
17:46	36.275	34.711	34.451	28.866
17:47	37.54	34.77	34.514	28.877
17:48	38.581	34.658	34.466	28.877
17:49	39.146	34.587	34.431	28.867
17:50	39.421	34.535	34.41	28.853
17:51	39.49	34.494	34.397	28.838
17:52	39.421	34.456	34.39	28.822
17:53	39.267	34.422	34.387	28.833
17:54	39.065	34.39	34.385	28.83
17:55	38.84	34.359	34.385	28.846
17:56	38.609	34.328	34.385	28.863
17:57	38.381	34.296	34.384	28.889
17:58	38.16	34.265	34.382	28.905
17:59	37.951	34.236	34.379	28.895
18:00	37.754	34.208	34.374	28.927
18:01	37.568	34.18	34.367	28.941
18:02	37.396	34.152	34.361	28.931
18:03	37.235	34.125	34.351	28.9
18:04	37.085	34.099	34.341	28.877
18:05	36.945	34.075	34.329	28.88
18:06	36.814	34.048	34.316	28.86
18:07	36.693	34.024	34.303	28.833
18:08	36.578	34.001	34.288	28.822
18:09	36.473	33.976	34.273	28.821
18:10	36.373	33.953	34.257	28.836
18:11	36.28	33.93	34.242	28.857
18:12	36.192	33.907	34.224	28.869
18:13	36.109	33.884	34.208	28.877
18:14	36.03	33.863	34.189	28.869
18:15	35.958	33.842	34.17	28.839
18:16	35.887	33.819	34.15	28.808
18:17	35.82	33.799	34.13	28.799
18:18	35.758	33.776	34.109	28.79
18:19	35.696	33.755	34.089	28.752
18:20	35.639	33.734	34.068	28.729
18:21	35.582	33.713	34.045	28.728
18:22	35.53	33.691	34.024	28.748
18:23	35.479	33.668	34.002	28.742
18:24	35.429	33.647	33.981	28.737
18:25	35.38	33.626	33.958	28.732
18:26	35.333	33.605	33.937	28.72
18:27	35.288	33.584	33.914	28.725
18:28	35.245	33.564	33.893	28.749
18:29	35.202	33.543	33.87	28.765
18:30	35.16	33.522	33.848	28.791
18:31	35.119	33.502	33.825	28.818
18:32	35.079	33.481	33.804	28.841
18:33	35.04	33.461	33.781	28.869
18:34	35.002	33.44	33.76	28.892
18:35	34.964	33.421	33.737	28.917
18:36	34.928	33.399	33.716	28.941
18:37	34.891	33.38	33.693	28.961
18:38	34.856	33.36	33.672	28.981
18:39	34.821	33.339	33.651	28.995
18:40	34.787	33.32	33.629	29.009
18:41	34.752	33.3	33.608	29.012
18:42	34.719	33.279	33.587	29.025
18:43	34.686	33.26	33.566	29.042
18:44	34.653	33.238	33.544	29.059
18:45	34.621	33.219	33.523	29.054
18:46	34.588	33.199	33.504	29.036
18:47	34.557	33.18	33.482	29.028
18:48	34.525	33.16	33.461	29.029
18:49	34.573	33.313	33.513	29.037

18:50	34.843	33.562	33.657	29.046
18:51	35.225	33.917	33.866	29.068
18:52	35.688	34.267	34.104	29.092
18:53	36.167	34.644	34.364	29.121
18:54	37.324	34.77	34.476	29.151
18:55	38.494	34.646	34.43	29.171
18:56	39.112	34.565	34.395	29.159
18:57	39.423	34.509	34.374	29.159
18:58	39.515	34.464	34.362	29.17
18:59	39.456	34.427	34.357	29.18
19:00	39.306	34.392	34.356	29.193
19:01	39.103	34.359	34.357	29.205
19:02	38.875	34.328	34.359	29.212
19:03	38.642	34.298	34.361	29.221
19:04	38.41	34.268	34.361	29.23
19:05	38.186	34.239	34.361	29.23
19:06	37.975	34.211	34.359	29.237
19:07	37.776	34.183	34.357	29.248
19:08	37.589	34.155	34.352	29.235
19:09	37.415	34.129	34.347	29.212
19:10	37.252	34.104	34.341	29.19
19:11	37.1	34.079	34.333	29.185
19:12	36.96	34.055	34.323	29.193
19:13	36.827	34.03	34.313	29.201
19:14	36.705	34.007	34.301	29.21
19:15	36.591	33.984	34.29	29.221
19:16	36.484	33.963	34.277	29.227
19:17	36.385	33.94	34.262	29.232
19:18	36.29	33.917	34.247	29.243
19:19	36.202	33.896	34.232	29.254
19:20	36.12	33.875	34.216	29.263
19:21	36.042	33.853	34.199	29.272
19:22	35.968	33.834	34.181	29.283
19:23	35.899	33.814	34.165	29.285
19:24	35.834	33.793	34.147	29.288
19:25	35.77	33.773	34.127	29.293
19:26	35.71	33.753	34.109	29.299
19:27	35.653	33.734	34.091	29.305
19:28	35.597	33.714	34.071	29.315
19:29	35.545	33.695	34.052	29.321
19:30	35.495	33.675	34.032	29.326
19:31	35.447	33.655	34.012	29.329
19:32	35.398	33.636	33.992	29.332
19:33	35.353	33.618	33.973	29.333
19:34	35.308	33.598	33.953	29.335
19:35	35.267	33.579	33.933	29.336
19:36	35.223	33.559	33.914	29.336
19:37	35.183	33.54	33.893	29.336
19:38	35.144	33.522	33.873	29.336
19:39	35.105	33.502	33.853	29.336
19:40	35.067	33.482	33.832	29.335
19:41	35.029	33.465	33.812	29.333
19:42	34.992	33.445	33.793	29.332
19:43	34.957	33.427	33.771	29.332
19:44	34.923	33.408	33.752	29.332
19:45	34.888	33.388	33.732	29.33
19:46	34.853	33.37	33.711	29.33
19:47	34.82	33.352	33.691	29.329
19:48	34.787	33.333	33.67	29.326
19:49	34.754	33.315	33.651	29.329
19:50	34.722	33.295	33.631	29.324
19:51	34.691	33.277	33.61	29.319
19:52	34.659	33.26	33.59	29.315
19:53	34.634	33.305	33.59	29.311
19:54	34.777	33.523	33.68	29.319
19:55	35.1	33.832	33.86	29.336
19:56	35.517	34.178	34.078	29.354
19:57	35.988	34.537	34.326	29.374
19:58	36.785	34.83	34.522	29.396
19:59	38.186	34.692	34.479	29.407
20:00	38.923	34.606	34.445	29.407
20:01	39.313	34.547	34.422	29.404
20:02	39.462	34.504	34.41	29.397
20:03	39.442	34.466	34.403	29.39
20:04	39.315	34.433	34.403	29.382
20:05	39.126	34.403	34.403	29.376
20:06	38.907	34.374	34.405	29.369
20:07	38.677	34.344	34.407	29.361
20:08	38.449	34.316	34.407	29.355
20:09	38.226	34.288	34.407	29.347
20:10	38.015	34.262	34.407	29.344
20:11	37.816	34.236	34.403	29.341
20:12	37.628	34.209	34.4	29.338
20:13	37.455	34.183	34.395	29.335
20:14	37.292	34.158	34.389	29.329
20:15	37.139	34.134	34.38	29.322
20:16	36.999	34.111	34.37	29.315
20:17	36.868	34.086	34.361	29.302
20:18	36.746	34.065	34.349	29.294
20:19	36.63	34.042	34.338	29.288
20:20	36.523	34.019	34.324	29.28
20:21	36.423	33.997	34.31	29.274
20:22	36.329	33.976	34.295	29.265
20:23	36.241	33.956	34.278	29.258
20:24	36.158	33.935	34.262	29.251
20:25	36.081	33.914	34.245	29.244
20:26	36.008	33.894	34.229	29.238
20:27	35.938	33.873	34.211	29.232
20:28	35.872	33.853	34.191	29.226
20:29	35.81	33.834	34.173	29.216
20:30	35.75	33.814	34.153	29.209
20:31	35.693	33.794	34.134	29.202
20:32	35.637	33.775	34.114	29.194
20:33	35.586	33.755	34.094	29.184
20:34	35.535	33.735	34.073	29.176
20:35	35.485	33.716	34.053	29.168
20:36	35.439	33.696	34.032	29.16
20:37	35.393	33.677	34.011	29.154
20:38	35.348	33.657	33.989	29.146
20:39	35.307	33.637	33.97	29.138
20:40	35.265	33.618	33.948	29.131
20:41	35.223	33.598	33.927	29.121

20:42	35.183	33.579	33.906	29.115
20:43	35.145	33.559	33.883	29.107
20:44	35.107	33.54	33.861	29.101
20:45	35.069	33.52	33.84	29.095
20:46	35.032	33.5	33.819	29.087
20:47	34.996	33.481	33.798	29.079
20:48	34.961	33.463	33.775	29.07
20:49	34.926	33.443	33.753	29.062
20:50	34.891	33.424	33.732	29.056
20:51	34.858	33.404	33.709	29.048
20:52	34.825	33.385	33.688	29.043
20:53	34.792	33.365	33.667	29.039
20:54	34.759	33.346	33.646	29.034
20:55	34.727	33.328	33.623	29.034
20:56	34.696	33.308	33.602	29.034
20:57	34.664	33.289	33.58	29.034
20:58	34.633	33.269	33.559	29.039
20:59	34.603	33.25	33.538	29.043
21:00	34.577	33.289	33.533	29.046
21:01	34.727	33.499	33.626	29.064
21:02	35.057	33.791	33.796	29.088
21:03	35.502	34.145	34.015	29.115
21:04	35.955	34.534	34.265	29.134
21:05	36.437	34.903	34.54	29.155
21:06	38.015	34.787	34.501	29.168
21:07	38.87	34.686	34.458	29.166
21:08	39.334	34.616	34.43	29.16
21:09	39.534	34.565	34.413	29.151
21:10	39.55	34.524	34.405	29.146
21:11	39.442	34.488	34.402	29.141
21:12	39.264	34.455	34.402	29.135
21:13	39.047	34.423	34.403	29.132
21:14	38.816	34.392	34.403	29.127
21:15	38.583	34.362	34.405	29.126
21:16	38.355	34.333	34.405	29.124
21:17	38.138	34.305	34.403	29.121
21:18	37.933	34.277	34.4	29.118
21:19	37.74	34.249	34.397	29.115
21:20	37.561	34.221	34.392	29.109
21:21	37.393	34.194	34.385	29.104
21:22	37.237	34.168	34.377	29.101
21:23	37.09	34.143	34.367	29.095
21:24	36.955	34.119	34.357	29.09
21:25	36.827	34.094	34.344	29.085
21:26	36.708	34.071	34.333	29.079
21:27	36.598	34.047	34.318	29.074
21:28	36.495	34.024	34.305	29.07
21:29	36.396	34.002	34.288	29.065
21:30	36.305	33.979	34.273	29.059
21:31	36.219	33.958	34.255	29.054
21:32	36.138	33.935	34.239	29.046
21:33	36.062	33.914	34.221	29.04
21:34	35.99	33.893	34.201	29.036
21:35	35.923	33.871	34.183	29.029
21:36	35.857	33.85	34.163	29.023
21:37	35.795	33.829	34.143	29.018
21:38	35.736	33.809	34.124	29.015
21:39	35.679	33.788	34.102	29.011
21:40	35.624	33.767	34.083	29.004
21:41	35.572	33.745	34.061	29
21:42	35.522	33.726	34.04	28.992
21:43	35.474	33.704	34.019	28.987
21:44	35.425	33.685	33.997	28.981
21:45	35.38	33.664	33.976	28.975
21:46	35.335	33.642	33.955	28.969
21:47	35.292	33.623	33.932	28.964
21:48	35.25	33.602	33.911	28.958
21:49	35.208	33.582	33.888	28.951
21:50	35.168	33.562	33.866	28.942
21:51	35.129	33.541	33.843	28.936
21:52	35.09	33.522	33.822	28.931
21:53	35.052	33.5	33.799	28.927
21:54	35.014	33.481	33.778	28.92
21:55	34.977	33.46	33.755	28.916
21:56	34.941	33.44	33.734	28.909
21:57	34.906	33.419	33.711	28.902
21:58	34.871	33.399	33.688	28.895
21:59	34.836	33.38	33.667	28.888
22:00	34.802	33.359	33.644	28.88
22:01	34.768	33.339	33.623	28.872
22:02	34.735	33.32	33.6	28.864
22:03	34.702	33.299	33.577	28.858
22:04	34.671	33.279	33.556	28.852
22:05	34.638	33.26	33.533	28.846
22:06	34.606	33.24	33.512	28.838
22:07	34.603	33.321	33.526	28.833
22:08	34.797	33.553	33.642	28.844
22:09	35.154	33.86	33.829	28.861
22:10	35.597	34.222	34.06	28.883
22:11	36.067	34.6	34.323	28.902
22:12	37.103	34.78	34.458	28.916
22:13	38.311	34.658	34.415	28.922
22:14	38.979	34.58	34.379	28.92
22:15	39.327	34.525	34.356	28.916
22:16	39.447	34.483	34.342	28.911
22:17	39.409	34.446	34.336	28.906
22:18	39.273	34.413	34.333	28.899
22:19	39.079	34.382	34.331	28.891
22:20	38.858	34.351	34.331	28.885
22:21	38.627	34.321	34.331	28.88
22:22	38.398	34.291	34.329	28.872
22:23	38.176	34.262	34.328	28.866
22:24	37.966	34.232	34.324	28.858
22:25	37.768	34.204	34.321	28.853
22:26	37.582	34.176	34.316	28.85
22:27	37.406	34.148	34.308	28.844
22:28	37.245	34.122	34.3	28.843
22:29	37.093	34.096	34.291	28.838
22:30	36.952	34.07	34.28	28.835
22:31	36.821	34.045	34.268	28.832
22:32	36.696	34.02	34.255	28.827
22:33	36.581	33.996	34.242	28.824

22:34	36.473	33.971	34.227	28.821
22:35	36.371	33.948	34.211	28.818
22:36	36.276	33.925	34.194	28.812
22:37	36.187	33.902	34.178	28.805
22:38	36.104	33.879	34.16	28.798
22:39	36.025	33.857	34.142	28.791
22:40	35.95	33.835	34.122	28.787
22:41	35.879	33.812	34.102	28.78
22:42	35.812	33.791	34.083	28.776
22:43	35.746	33.77	34.063	28.774
22:44	35.686	33.747	34.042	28.77
22:45	35.627	33.726	34.022	28.765
22:46	35.571	33.704	34.001	28.762
22:47	35.517	33.683	33.979	28.756
22:48	35.465	33.662	33.956	28.751
22:49	35.413	33.641	33.935	28.746
22:50	35.365	33.619	33.914	28.743
22:51	35.318	33.598	33.891	28.737
22:52	35.272	33.577	33.868	28.731
22:53	35.228	33.556	33.847	28.725
22:54	35.183	33.535	33.824	28.72
22:55	35.142	33.513	33.801	28.712
22:56	35.1	33.492	33.778	28.704
22:57	35.059	33.471	33.755	28.7
22:58	35.019	33.45	33.732	28.693
22:59	34.981	33.43	33.709	28.689
23:00	34.943	33.409	33.686	28.681
23:01	34.904	33.388	33.664	28.676
23:02	34.868	33.367	33.641	28.673
23:03	34.831	33.346	33.618	28.667
23:04	34.795	33.325	33.595	28.662
23:05	34.76	33.305	33.572	28.659
23:06	34.725	33.284	33.549	28.655
23:07	34.691	33.263	33.526	28.65
23:08	34.656	33.243	33.504	28.644
23:09	34.684	33.39	33.546	28.642
23:10	34.921	33.655	33.686	28.655
23:11	35.317	33.988	33.888	28.672
23:12	35.768	34.359	34.134	28.69
23:13	36.233	34.734	34.38	28.711
23:14	37.522	34.803	34.458	28.725
23:15	38.56	34.682	34.412	28.731
23:16	39.135	34.603	34.379	28.729
23:17	39.419	34.547	34.357	28.723
23:18	39.493	34.501	34.344	28.715
23:19	39.426	34.461	34.338	28.712
23:20	39.269	34.425	34.334	28.707
23:21	39.067	34.392	34.333	28.704
23:22	38.838	34.359	34.331	28.703
23:23	38.606	34.328	34.331	28.7
23:24	38.377	34.296	34.329	28.692
23:25	38.157	34.265	34.326	28.69
23:26	37.947	34.236	34.323	28.686
23:27	37.75	34.206	34.316	28.681
23:28	37.566	34.176	34.311	28.679
23:29	37.394	34.148	34.303	28.678
23:30	37.233	34.12	34.293	28.678
23:31	37.085	34.093	34.283	28.675
23:32	36.945	34.066	34.272	28.673
23:33	36.814	34.042	34.259	28.672
23:34	36.691	34.015	34.245	28.667
23:35	36.576	33.991	34.231	28.665
23:36	36.469	33.966	34.214	28.661
23:37	36.368	33.942	34.198	28.658
23:38	36.273	33.919	34.181	28.656
23:39	36.185	33.894	34.163	28.653
23:40	36.101	33.871	34.143	28.65
23:41	36.022	33.848	34.125	28.648
23:42	35.946	33.825	34.106	28.645
23:43	35.876	33.803	34.086	28.642
23:44	35.808	33.78	34.065	28.636
23:45	35.745	33.757	34.043	28.633
23:46	35.683	33.735	34.022	28.628
23:47	35.624	33.713	34.001	28.625
23:48	35.567	33.69	33.979	28.622
23:49	35.512	33.668	33.958	28.617
23:50	35.459	33.646	33.935	28.611
23:51	35.408	33.624	33.912	28.603
23:52	35.358	33.602	33.889	28.599
23:53	35.312	33.58	33.866	28.596
23:54	35.265	33.557	33.843	28.589
23:55	35.22	33.536	33.821	28.585
23:56	35.175	33.515	33.798	28.58
23:57	35.132	33.492	33.775	28.574
23:58	35.09	33.471	33.752	28.566
23:59	35.049	33.45	33.727	28.562
0:00	35.009	33.427	33.704	28.555
0:01	34.969	33.406	33.68	28.548
0:02	34.929	33.385	33.657	28.543
0:03	34.891	33.364	33.633	28.537
0:04	34.853	33.342	33.61	28.532
0:05	34.817	33.32	33.585	28.526
0:06	34.78	33.299	33.562	28.521
0:07	34.744	33.277	33.54	28.517
0:08	34.704	33.289	33.525	28.509
0:09	34.808	33.487	33.602	28.515
0:10	35.092	33.781	33.768	28.531
0:11	35.517	34.119	33.979	28.549
0:12	35.987	34.504	34.224	28.572
0:13	36.478	34.883	34.483	28.593
0:14	38.022	34.742	34.443	28.605
0:15	38.838	34.644	34.4	28.607
0:16	39.287	34.578	34.37	28.605
0:17	39.479	34.527	34.352	28.6
0:18	39.488	34.484	34.341	28.591
0:19	39.379	34.445	34.334	28.586
0:20	39.199	34.41	34.331	28.58
0:21	38.982	34.375	34.329	28.574
0:22	38.753	34.342	34.328	28.571
0:23	38.52	34.311	34.324	28.568
0:24	38.294	34.278	34.321	28.562
0:25	38.077	34.247	34.318	28.555

0:26	37.873	34.217	34.313	28.552
0:27	37.682	34.186	34.306	28.544
0:28	37.501	34.157	34.298	28.541
0:29	37.334	34.129	34.288	28.537
0:30	37.177	34.101	34.277	28.534
0:31	37.03	34.073	34.265	28.527
0:32	36.894	34.045	34.252	28.523
0:33	36.766	34.019	34.239	28.517
0:34	36.645	33.992	34.224	28.51
0:35	36.534	33.968	34.208	28.503
0:36	36.429	33.942	34.191	28.498
0:37	36.33	33.917	34.173	28.492
0:38	36.238	33.893	34.155	28.487
0:39	36.15	33.868	34.135	28.481
0:40	36.067	33.845	34.116	28.476
0:41	35.99	33.821	34.096	28.472
0:42	35.916	33.796	34.075	28.469
0:43	35.845	33.773	34.055	28.464
0:44	35.778	33.75	34.032	28.459
0:45	35.715	33.726	34.011	28.455
0:46	35.653	33.703	33.989	28.448
0:47	35.594	33.68	33.966	28.445
0:48	35.537	33.657	33.943	28.441
0:49	35.484	33.634	33.92	28.433
0:50	35.43	33.611	33.897	28.431
0:51	35.38	33.588	33.875	28.428
0:52	35.33	33.564	33.85	28.422
0:53	35.282	33.543	33.827	28.42
0:54	35.235	33.52	33.803	28.42
0:55	35.19	33.497	33.78	28.417
0:56	35.145	33.474	33.755	28.411
0:57	35.102	33.452	33.731	28.407
0:58	35.059	33.429	33.708	28.397
0:59	35.017	33.408	33.683	28.396
1:00	34.976	33.385	33.659	28.388
1:01	34.936	33.362	33.634	28.382
1:02	34.896	33.339	33.61	28.376
1:03	34.858	33.316	33.585	28.369
1:04	34.82	33.295	33.561	28.36
1:05	34.782	33.273	33.536	28.354
1:06	34.744	33.251	33.512	28.346
1:07	34.707	33.229	33.487	28.34
1:08	34.671	33.206	33.465	28.334
1:09	34.634	33.185	33.44	28.328
1:10	34.596	33.186	33.421	28.321
1:11	34.684	33.368	33.491	28.324
1:12	34.966	33.642	33.646	28.338
1:13	35.377	34.006	33.86	28.359
1:14	35.832	34.382	34.101	28.377
1:15	36.325	34.77	34.367	28.399
1:16	37.731	34.737	34.384	28.414
1:17	38.679	34.62	34.338	28.417
1:18	39.204	34.542	34.305	28.416
1:19	39.449	34.484	34.283	28.411
1:20	39.493	34.436	34.272	28.405
1:21	39.403	34.395	34.263	28.4
1:22	39.234	34.357	34.26	28.396
1:23	39.021	34.323	34.257	28.391
1:24	38.789	34.288	34.255	28.39
1:25	38.552	34.255	34.252	28.385
1:26	38.322	34.222	34.249	28.38
1:27	38.1	34.189	34.245	28.376
1:28	37.89	34.158	34.24	28.372
1:29	37.694	34.127	34.234	28.372
1:30	37.509	34.096	34.226	28.368
1:31	37.336	34.066	34.216	28.363
1:32	37.175	34.037	34.204	28.36
1:33	37.025	34.009	34.193	28.352
1:34	36.885	33.981	34.18	28.349
1:35	36.754	33.953	34.166	28.343
1:36	36.63	33.927	34.152	28.337
1:37	36.515	33.901	34.135	28.332
1:38	36.407	33.875	34.117	28.328
1:39	36.305	33.848	34.099	28.323
1:40	36.211	33.824	34.081	28.317
1:41	36.121	33.799	34.061	28.312
1:42	36.035	33.775	34.042	28.306
1:43	35.956	33.75	34.02	28.3
1:44	35.879	33.726	34.001	28.295
1:45	35.807	33.701	33.978	28.29
1:46	35.738	33.678	33.956	28.286
1:47	35.673	33.654	33.933	28.28
1:48	35.611	33.631	33.911	28.272
1:49	35.55	33.606	33.888	28.269
1:50	35.492	33.584	33.865	28.264
1:51	35.435	33.559	33.84	28.259
1:52	35.382	33.536	33.817	28.253
1:53	35.33	33.513	33.793	28.249
1:54	35.278	33.489	33.77	28.242
1:55	35.23	33.466	33.745	28.239
1:56	35.182	33.443	33.721	28.235
1:57	35.135	33.419	33.696	28.23
1:58	35.09	33.396	33.673	28.225
1:59	35.045	33.373	33.649	28.224
2:00	35.002	33.351	33.624	28.219
2:01	34.959	33.328	33.6	28.216
2:02	34.918	33.303	33.575	28.213
2:03	34.876	33.281	33.551	28.208
2:04	34.835	33.258	33.525	28.205
2:05	34.795	33.235	33.5	28.202
2:06	34.757	33.212	33.476	28.196
2:07	34.719	33.19	33.452	28.19
2:08	34.676	33.22	33.443	28.185
2:09	34.793	33.448	33.531	28.193
2:10	35.102	33.745	33.698	28.212
2:11	35.525	34.089	33.919	28.229
2:12	36.002	34.499	34.171	28.247
2:13	36.606	34.856	34.405	28.263
2:14	38.077	34.701	34.367	28.275
2:15	38.87	34.596	34.324	28.276
2:16	39.306	34.525	34.295	28.272
2:17	39.49	34.471	34.275	28.267

2:18	39.492	34.425	34.263	28.266
2:19	39.377	34.384	34.257	28.259
2:20	39.193	34.346	34.252	28.255
2:21	38.973	34.31	34.249	28.252
2:22	38.739	34.275	34.245	28.246
2:23	38.503	34.24	34.242	28.241
2:24	38.275	34.206	34.239	28.238
2:25	38.056	34.173	34.234	28.233
2:26	37.849	34.14	34.227	28.23
2:27	37.656	34.107	34.219	28.224
2:28	37.473	34.076	34.209	28.219
2:29	37.304	34.047	34.199	28.213
2:30	37.146	34.017	34.188	28.208
2:31	36.998	33.988	34.175	28.204
2:32	36.858	33.958	34.16	28.201
2:33	36.729	33.93	34.145	28.198
2:34	36.606	33.904	34.129	28.19
2:35	36.493	33.876	34.112	28.182
2:36	36.386	33.85	34.094	28.174
2:37	36.285	33.824	34.076	28.171
2:38	36.19	33.798	34.056	28.165
2:39	36.101	33.771	34.035	28.157
2:40	36.017	33.747	34.015	28.153
2:41	35.938	33.721	33.992	28.147
2:42	35.862	33.696	33.971	28.14
2:43	35.79	33.672	33.948	28.133
2:44	35.721	33.647	33.927	28.13
2:45	35.656	33.623	33.902	28.123
2:46	35.592	33.598	33.879	28.114
2:47	35.532	33.574	33.855	28.108
2:48	35.474	33.549	33.832	28.102
2:49	35.417	33.525	33.807	28.097
2:50	35.363	33.5	33.783	28.091
2:51	35.31	33.476	33.758	28.088
2:52	35.258	33.453	33.732	28.086
2:53	35.21	33.429	33.708	28.082
2:54	35.16	33.404	33.683	28.077
2:55	35.114	33.38	33.659	28.072
2:56	35.067	33.357	33.633	28.069
2:57	35.022	33.333	33.608	28.065
2:58	34.979	33.308	33.584	28.062
2:59	34.934	33.286	33.557	28.059
3:00	34.893	33.261	33.533	28.057
3:01	34.851	33.238	33.507	28.052
3:02	34.81	33.214	33.482	28.048
3:03	34.768	33.191	33.456	28.046
3:04	34.729	33.167	33.432	28.045
3:05	34.691	33.144	33.406	28.04
3:06	34.651	33.12	33.381	28.037
3:07	34.613	33.097	33.355	28.034
3:08	34.572	33.1	33.338	28.029
3:09	34.648	33.287	33.408	28.034
3:10	34.926	33.571	33.564	28.048
3:11	35.328	33.924	33.783	28.068
3:12	35.812	34.31	34.032	28.086
3:13	36.281	34.677	34.285	28.106
3:14	37.644	34.677	34.321	28.123
3:15	38.628	34.557	34.277	28.126
3:16	39.174	34.478	34.24	28.126
3:17	39.435	34.417	34.217	28.122
3:18	39.49	34.369	34.203	28.117
3:19	39.407	34.326	34.194	28.109
3:20	39.239	34.288	34.188	28.1
3:21	39.026	34.25	34.185	28.094
3:22	38.791	34.216	34.181	28.091
3:23	38.553	34.18	34.176	28.088
3:24	38.318	34.145	34.173	28.08
3:25	38.094	34.112	34.168	28.075
3:26	37.882	34.079	34.162	28.071
3:27	37.682	34.047	34.153	28.063
3:28	37.494	34.014	34.143	28.059
3:29	37.319	33.983	34.134	28.054
3:30	37.155	33.953	34.122	28.045
3:31	37.003	33.924	34.109	28.042
3:32	36.858	33.894	34.094	28.035
3:33	36.725	33.866	34.078	28.029
3:34	36.598	33.837	34.061	28.026
3:35	36.481	33.811	34.045	28.023
3:36	36.371	33.783	34.027	28.02
3:37	36.266	33.755	34.007	28.015
3:38	36.17	33.729	33.988	28.008
3:39	36.077	33.703	33.968	28.001
3:40	35.992	33.677	33.947	27.995
3:41	35.909	33.652	33.924	27.989
3:42	35.83	33.626	33.901	27.984
3:43	35.756	33.602	33.879	27.975
3:44	35.686	33.575	33.855	27.97
3:45	35.619	33.551	33.832	27.964
3:46	35.554	33.526	33.807	27.96
3:47	35.492	33.502	33.785	27.954
3:48	35.432	33.476	33.76	27.947
3:49	35.375	33.452	33.735	27.941
3:50	35.318	33.427	33.711	27.935
3:51	35.265	33.403	33.685	27.93
3:52	35.213	33.378	33.66	27.924
3:53	35.162	33.354	33.634	27.921
3:54	35.112	33.329	33.61	27.915
3:55	35.064	33.305	33.584	27.912
3:56	35.017	33.281	33.557	27.91
3:57	34.971	33.256	33.531	27.906
3:58	34.926	33.233	33.507	27.901
3:59	34.881	33.209	33.481	27.898
4:00	34.838	33.185	33.455	27.895
4:01	34.795	33.16	33.429	27.892
4:02	34.754	33.136	33.404	27.89
4:03	34.712	33.112	33.378	27.887
4:04	34.673	33.087	33.352	27.881
4:05	34.633	33.065	33.328	27.879
4:06	34.663	33.232	33.381	27.881
4:07	34.901	33.509	33.522	27.896
4:08	35.295	33.857	33.722	27.918
4:09	35.745	34.224	33.968	27.935

4:10	36.206	34.601	34.213	27.955
4:11	37.436	34.684	34.306	27.977
4:12	38.525	34.554	34.262	27.984
4:13	39.126	34.468	34.226	27.989
4:14	39.424	34.405	34.201	27.989
4:15	39.506	34.354	34.186	27.983
4:16	39.439	34.31	34.176	27.978
4:17	39.28	34.27	34.17	27.975
4:18	39.068	34.234	34.166	27.974
4:19	38.835	34.198	34.162	27.97
4:20	38.595	34.162	34.158	27.966
4:21	38.358	34.127	34.153	27.963
4:22	38.131	34.093	34.148	27.957
4:23	37.916	34.06	34.142	27.946
4:24	37.713	34.025	34.134	27.94
4:25	37.523	33.994	34.124	27.935
4:26	37.345	33.961	34.114	27.929
4:27	37.179	33.93	34.101	27.923
4:28	37.025	33.901	34.088	27.913
4:29	36.878	33.871	34.073	27.907
4:30	36.742	33.842	34.056	27.903
4:31	36.615	33.812	34.04	27.899
4:32	36.496	33.785	34.024	27.893
4:33	36.385	33.757	34.004	27.892
4:34	36.28	33.729	33.984	27.886
4:35	36.18	33.703	33.965	27.879
4:36	36.088	33.675	33.945	27.873
4:37	36	33.649	33.922	27.867
4:38	35.916	33.623	33.901	27.862
4:39	35.837	33.597	33.878	27.855
4:40	35.761	33.571	33.855	27.849
4:41	35.689	33.544	33.83	27.839
4:42	35.621	33.52	33.807	27.833
4:43	35.556	33.494	33.783	27.827
4:44	35.492	33.469	33.758	27.821
4:45	35.432	33.443	33.734	27.813
4:46	35.373	33.419	33.708	27.807
4:47	35.317	33.393	33.683	27.795
4:48	35.262	33.368	33.657	27.788
4:49	35.208	33.344	33.631	27.781
4:50	35.157	33.318	33.605	27.775
4:51	35.107	33.294	33.579	27.773
4:52	35.057	33.269	33.553	27.767
4:53	35.009	33.243	33.526	27.762
4:54	34.962	33.219	33.5	27.755
4:55	34.916	33.195	33.474	27.751
4:56	34.871	33.169	33.448	27.747
4:57	34.826	33.144	33.422	27.742
4:58	34.783	33.12	33.396	27.736
4:59	34.74	33.095	33.37	27.73
5:00	34.699	33.081	33.346	27.722
5:01	34.734	33.258	33.404	27.73
5:02	34.989	33.535	33.549	27.744
5:03	35.365	33.891	33.763	27.764
5:04	35.812	34.26	33.999	27.782
5:05	36.281	34.651	34.26	27.801
5:06	37.652	34.681	34.316	27.822
5:07	38.632	34.554	34.27	27.832
5:08	39.188	34.469	34.234	27.832
5:09	39.46	34.407	34.209	27.832
5:10	39.524	34.356	34.193	27.832
5:11	39.446	34.311	34.183	27.827
5:12	39.283	34.27	34.176	27.825
5:13	39.07	34.232	34.171	27.824
5:14	38.837	34.194	34.166	27.824
5:15	38.597	34.158	34.163	27.825
5:16	38.36	34.122	34.158	27.821
5:17	38.134	34.088	34.152	27.821
5:18	37.92	34.052	34.143	27.822
5:19	37.718	34.019	34.135	27.813
5:20	37.528	33.984	34.125	27.818
5:21	37.352	33.952	34.114	27.818
5:22	37.187	33.919	34.101	27.816
5:23	37.032	33.889	34.088	27.815
5:24	36.887	33.86	34.071	27.81
5:25	36.751	33.83	34.055	27.804
5:26	36.625	33.801	34.038	27.802
5:27	36.505	33.773	34.02	27.801
5:28	36.393	33.744	34.001	27.796
5:29	36.288	33.716	33.981	27.79
5:30	36.19	33.688	33.961	27.785
5:31	36.096	33.662	33.94	27.775
5:32	36.008	33.634	33.917	27.77
5:33	35.924	33.608	33.896	27.759
5:34	35.845	33.58	33.873	27.744
5:35	35.77	33.554	33.848	27.728
5:36	35.698	33.528	33.825	27.718
5:37	35.629	33.502	33.801	27.711
5:38	35.564	33.476	33.775	27.707
5:39	35.5	33.45	33.75	27.702
5:40	35.439	33.425	33.724	27.699
5:41	35.38	33.399	33.7	27.694
5:42	35.322	33.373	33.673	27.69
5:43	35.267	33.347	33.647	27.687
5:44	35.213	33.323	33.621	27.682
5:45	35.162	33.297	33.595	27.681
5:46	35.11	33.271	33.567	27.674
5:47	35.06	33.245	33.541	27.673
5:48	35.012	33.219	33.515	27.668
5:49	34.964	33.193	33.489	27.664
5:50	34.918	33.167	33.461	27.662
5:51	34.873	33.143	33.435	27.654
5:52	34.828	33.117	33.408	27.651
5:53	34.783	33.091	33.381	27.645
5:54	34.74	33.065	33.355	27.633
5:55	34.691	33.078	33.341	27.619
5:56	34.773	33.286	33.421	27.616
5:57	35.059	33.59	33.587	27.627
5:58	35.469	33.95	33.796	27.637
5:59	35.901	34.328	34.042	27.647
6:00	36.364	34.697	34.296	27.658
6:01	37.833	34.636	34.306	27.662

6:02	38.754	34.517	34.26	27.653
6:03	39.262	34.436	34.224	27.647
6:04	39.495	34.375	34.199	27.648
6:05	39.529	34.326	34.183	27.648
6:06	39.43	34.283	34.173	27.647
6:07	39.253	34.242	34.165	27.641
6:08	39.031	34.204	34.158	27.641
6:09	38.795	34.168	34.153	27.641
6:10	38.553	34.132	34.147	27.636
6:11	38.317	34.096	34.14	27.625
6:12	38.091	34.06	34.132	27.613
6:13	37.878	34.025	34.122	27.604
6:14	37.678	33.991	34.112	27.602
6:15	37.491	33.956	34.101	27.617
6:16	37.316	33.924	34.088	27.634
6:17	37.151	33.891	34.075	27.647
6:18	36.998	33.86	34.06	27.644
6:19	36.855	33.829	34.043	27.644
6:20	36.72	33.798	34.027	27.648
6:21	36.595	33.767	34.009	27.644
6:22	36.476	33.737	33.991	27.639
6:23	36.364	33.708	33.971	27.644
6:24	36.26	33.678	33.95	27.654
6:25	36.162	33.651	33.929	27.664
6:26	36.069	33.623	33.907	27.662
6:27	35.981	33.595	33.884	27.664
6:28	35.897	33.567	33.86	27.665
6:29	35.819	33.54	33.837	27.667
6:30	35.743	33.512	33.812	27.673
6:31	35.671	33.484	33.789	27.679
6:32	35.602	33.456	33.765	27.684
6:33	35.537	33.429	33.739	27.69
6:34	35.474	33.401	33.714	27.699
6:35	35.412	33.373	33.688	27.711
6:36	35.353	33.346	33.664	27.725
6:37	35.295	33.32	33.637	27.744
6:38	35.24	33.294	33.611	27.762
6:39	35.185	33.268	33.585	27.775
6:40	35.134	33.242	33.559	27.784
6:41	35.082	33.214	33.533	27.795
6:42	35.032	33.188	33.507	27.805
6:43	34.984	33.16	33.481	27.821
6:44	34.936	33.134	33.455	27.833
6:45	34.889	33.107	33.429	27.847
6:46	34.843	33.081	33.403	27.856
6:47	34.798	33.055	33.377	27.866
6:48	34.755	33.031	33.351	27.873
6:49	34.711	33.005	33.325	27.879
6:50	34.669	32.98	33.299	27.889
6:51	34.626	33.044	33.303	27.899
6:52	34.767	33.294	33.412	27.921
6:53	35.09	33.608	33.592	27.947
6:54	35.5	33.979	33.817	27.978
6:55	35.956	34.361	34.076	28.011
6:56	36.405	34.734	34.329	28.04
6:57	37.978	34.634	34.318	28.066

6:58	38.898	34.501	34.272	28.079
6:59	39.394	34.407	34.237	28.079
7:00	39.609	34.336	34.216	28.079
7:01	39.617	34.28	34.201	28.082
7:02	39.493	34.231	34.193	28.088
7:03	39.296	34.188	34.188	28.096
7:04	39.06	34.148	34.183	28.105
7:05	38.812	34.109	34.18	28.109
7:06	38.564	34.071	34.176	28.108
7:07	38.323	34.035	34.171	28.106
7:08	38.094	33.999	34.166	28.102
7:09	37.878	33.965	34.158	28.099
7:10	37.675	33.93	34.15	28.097
7:11	37.485	33.897	34.14	28.094
7:12	37.307	33.865	34.129	28.089
7:13	37.143	33.834	34.116	28.082
7:14	36.989	33.804	34.102	28.077
7:15	36.848	33.775	34.088	28.071
7:16	36.713	33.747	34.071	28.066
7:17	36.589	33.719	34.055	28.057
7:18	36.473	33.691	34.037	28.052
7:19	36.363	33.664	34.017	28.051
7:20	36.26	33.636	33.997	28.042
7:21	36.162	33.608	33.978	28.032
7:22	36.071	33.582	33.956	28.023
7:23	35.983	33.554	33.935	28.021
7:24	35.901	33.528	33.912	28.015
7:25	35.824	33.502	33.889	28.011
7:26	35.75	33.476	33.866	28.008
7:27	35.678	33.45	33.843	28.001
7:28	35.611	33.424	33.819	27.995
7:29	35.545	33.398	33.794	27.986
7:30	35.482	33.372	33.77	27.975
7:31	35.422	33.346	33.745	27.963
7:32	35.363	33.32	33.719	27.955
7:33	35.308	33.294	33.695	27.946
7:34	35.253	33.268	33.668	27.935
7:35	35.2	33.242	33.642	27.929
7:36	35.149	33.217	33.618	27.921
7:37	35.099	33.191	33.592	27.915
7:38	35.049	33.167	33.566	27.909
7:39	35.001	33.143	33.54	27.92
7:40	34.954	33.117	33.513	27.92
7:41	34.908	33.092	33.487	27.915
7:42	34.863	33.068	33.46	27.913
7:43	34.818	33.044	33.434	27.904
7:44	34.775	33.018	33.408	27.893
7:45	34.732	32.992	33.381	27.886
7:46	34.691	32.966	33.355	27.87
7:47	34.649	32.941	33.328	27.861
7:48	34.608	32.916	33.302	27.855
7:49	34.568	32.901	33.277	27.847
7:50	34.598	33.079	33.333	27.849
7:51	34.846	33.367	33.481	27.862
7:52	35.235	33.709	33.68	27.883
7:53	35.663	34.106	33.922	27.901

J. Temperature in inner surface-Heating foil with 16 nos. of plates

Time	T1	T2	T3	T4
10:22	31.813	31.524	31.371	31.084
10:23	31.74	31.355	31.422	31.142
10:24	31.773	31.375	31.652	31.193
10:25	31.876	31.502	31.973	31.247
10:26	32.02	31.684	32.38	31.309
10:27	32.188	31.929	32.791	31.376
10:28	32.38	32.18	33.178	31.451
10:29	32.571	32.455	33.559	31.534
10:30	32.778	32.728	33.955	31.626
10:31	32.98	33.001	34.3	31.722
10:32	33.208	33.263	34.661	31.826
10:33	33.417	33.543	34.999	31.935
10:34	33.647	33.786	35.332	32.047
10:35	33.373	33.502	34.876	32.119
10:36	33.216	33.31	34.456	32.18
10:37	33.13	33.185	34.137	32.245
10:38	33.081	33.095	33.893	32.311
10:39	33.055	33.032	33.701	32.373
10:40	33.042	32.984	33.551	32.43
10:41	33.037	32.95	33.43	32.48
10:42	33.037	32.924	33.334	32.525
10:43	33.04	32.904	33.256	32.565
10:44	33.045	32.891	33.191	32.599
10:45	33.052	32.882	33.136	32.628
10:46	33.058	32.875	33.087	32.652
10:47	33.063	32.87	33.045	32.673
10:48	33.068	32.867	33.006	32.691
10:49	33.073	32.865	32.971	32.705
10:50	33.078	32.864	32.938	32.718
10:51	33.079	32.862	32.907	32.728
10:52	33.083	32.861	32.878	32.736
10:53	33.084	32.859	32.852	32.741
10:54	33.084	32.857	32.827	32.746
10:55	33.083	32.856	32.804	32.749
10:56	33.081	32.854	32.781	32.751
10:57	33.079	32.851	32.759	32.751
10:58	33.076	32.849	32.739	32.751
10:59	33.071	32.846	32.718	32.747
11:00	33.195	33.032	33.003	32.746
11:01	33.442	33.385	33.553	32.776
11:02	33.706	33.739	34.099	32.838
11:03	33.974	34.079	34.631	32.914
11:04	34.24	34.405	35.155	33.003
11:05	34.017	34.158	34.719	33.055
11:06	33.891	34.002	34.385	33.089
11:07	33.821	33.901	34.162	33.126
11:08	33.781	33.829	33.994	33.164
11:09	33.757	33.775	33.865	33.199
11:10	33.744	33.734	33.763	33.233
11:11	33.737	33.701	33.678	33.264
11:12	33.734	33.675	33.608	33.29
11:13	33.732	33.652	33.553	33.313
11:14	33.732	33.636	33.507	33.331
11:15	33.732	33.621	33.469	33.347
11:16	33.734	33.611	33.435	33.36
11:17	33.735	33.602	33.408	33.37
11:18	33.735	33.592	33.381	33.378
11:19	33.735	33.584	33.359	33.383
11:20	33.735	33.575	33.339	33.388
11:21	33.734	33.567	33.321	33.391
11:22	33.732	33.559	33.303	33.391
11:23	33.731	33.551	33.287	33.391
11:24	33.727	33.544	33.271	33.39
11:25	33.724	33.536	33.256	33.388
11:26	33.719	33.528	33.242	33.385
11:27	33.713	33.52	33.229	33.38
11:28	33.708	33.512	33.214	33.373
11:29	33.7	33.504	33.201	33.367
11:30	33.693	33.496	33.188	33.36
11:31	33.685	33.487	33.175	33.352
11:32	33.675	33.478	33.162	33.344
11:33	33.665	33.468	33.149	33.334
11:34	33.655	33.458	33.136	33.326
11:35	33.644	33.448	33.123	33.315
11:36	33.633	33.438	33.11	33.305
11:37	33.621	33.429	33.097	33.294
11:38	33.61	33.417	33.084	33.282
11:39	33.597	33.406	33.071	33.271
11:40	33.584	33.395	33.058	33.26
11:41	33.569	33.383	33.045	33.246
11:42	33.556	33.372	33.032	33.233
11:43	33.541	33.359	33.019	33.22
11:44	33.526	33.347	33.005	33.208
11:45	33.512	33.334	32.992	33.195
11:46	33.497	33.323	32.977	33.18
11:47	33.482	33.31	32.964	33.167
11:48	33.466	33.297	32.95	33.152
11:49	33.452	33.284	32.937	33.138
11:50	33.435	33.269	32.922	33.125
11:51	33.419	33.256	32.909	33.11
11:52	33.448	33.3	32.99	33.094
11:53	33.621	33.574	33.461	33.092
11:54	33.853	33.876	33.989	33.128
11:55	34.088	34.201	34.532	33.186
11:56	34.347	34.509	35.039	33.264
11:57	34.328	34.507	35.021	33.328
11:58	34.166	34.313	34.63	33.354
11:59	34.078	34.194	34.392	33.381
12:00	34.025	34.111	34.221	33.411
12:01	33.992	34.048	34.086	33.44
12:02	33.973	33.999	33.981	33.469
12:03	33.961	33.963	33.896	33.496
12:04	33.953	33.933	33.825	33.518
12:05	33.95	33.909	33.768	33.538
12:06	33.947	33.891	33.719	33.554
12:07	33.947	33.875	33.678	33.569
12:08	33.945	33.86	33.644	33.58

12:09	33.945	33.847	33.613	33.59
12:10	33.945	33.835	33.587	33.597
12:11	33.945	33.825	33.562	33.603
12:12	33.943	33.816	33.541	33.606
12:13	33.943	33.806	33.522	33.608
12:14	33.94	33.798	33.505	33.61
12:15	33.938	33.789	33.489	33.608
12:16	33.935	33.78	33.473	33.608
12:17	33.932	33.771	33.46	33.605
12:18	33.927	33.762	33.447	33.602
12:19	33.92	33.753	33.434	33.597
12:20	33.915	33.745	33.421	33.592
12:21	33.909	33.735	33.408	33.585
12:22	33.901	33.727	33.395	33.579
12:23	33.893	33.717	33.383	33.571
12:24	33.884	33.708	33.37	33.562
12:25	33.875	33.698	33.359	33.554
12:26	33.865	33.688	33.346	33.544
12:27	33.853	33.678	33.333	33.535
12:28	33.843	33.667	33.321	33.525
12:29	33.832	33.655	33.308	33.513
12:30	33.819	33.646	33.295	33.502
12:31	33.807	33.634	33.282	33.491
12:32	33.794	33.623	33.269	33.479
12:33	33.781	33.61	33.256	33.466
12:34	33.767	33.598	33.243	33.455
12:35	33.753	33.585	33.23	33.442
12:36	33.739	33.574	33.217	33.429
12:37	33.724	33.561	33.203	33.416
12:38	33.709	33.548	33.19	33.403
12:39	33.695	33.535	33.175	33.388
12:40	33.68	33.52	33.162	33.375
12:41	33.664	33.507	33.147	33.36
12:42	33.649	33.494	33.133	33.347
12:43	33.633	33.479	33.12	33.333
12:44	33.618	33.466	33.105	33.318
12:45	33.602	33.452	33.091	33.303
12:46	33.585	33.437	33.078	33.289
12:47	33.569	33.424	33.063	33.274
12:48	33.59	33.461	33.144	33.258
12:49	33.757	33.713	33.6	33.256
12:50	33.988	34.009	34.124	33.29
12:51	34.221	34.301	34.658	33.347
12:52	34.466	34.616	35.147	33.422
12:53	34.402	34.552	35.032	33.479
12:54	34.26	34.385	34.682	33.502
12:55	34.181	34.278	34.464	33.528
12:56	34.135	34.204	34.306	33.556
12:57	34.106	34.147	34.181	33.584
12:58	34.088	34.104	34.081	33.611
12:59	34.078	34.071	34.001	33.636
13:00	34.071	34.045	33.935	33.657
13:01	34.068	34.024	33.881	33.677
13:02	34.066	34.006	33.835	33.693
13:03	34.066	33.992	33.798	33.706
13:04	34.066	33.979	33.765	33.717
13:05	34.068	33.97	33.735	33.726
13:06	34.068	33.96	33.711	33.734
13:07	34.068	33.95	33.688	33.739
13:08	34.068	33.942	33.668	33.744
13:09	34.068	33.932	33.651	33.747
13:10	34.066	33.925	33.634	33.749
13:11	34.065	33.917	33.618	33.749
13:12	34.063	33.909	33.603	33.749
13:13	34.06	33.901	33.59	33.747
13:14	34.055	33.893	33.577	33.744
13:15	34.052	33.884	33.566	33.74
13:16	34.045	33.876	33.553	33.735
13:17	34.04	33.868	33.541	33.731
13:18	34.033	33.86	33.528	33.724
13:19	34.027	33.853	33.517	33.717
13:20	34.019	33.845	33.505	33.711
13:21	34.011	33.837	33.496	33.703
13:22	34.001	33.827	33.482	33.695
13:23	33.992	33.819	33.471	33.686
13:24	33.983	33.809	33.458	33.677
13:25	33.971	33.799	33.443	33.667
13:26	33.961	33.788	33.43	33.657
13:27	33.95	33.776	33.419	33.647
13:28	33.938	33.765	33.408	33.636
13:29	33.925	33.753	33.395	33.626
13:30	33.914	33.742	33.383	33.615
13:31	33.901	33.731	33.368	33.603
13:32	33.888	33.717	33.354	33.59
13:33	33.875	33.704	33.341	33.579
13:34	33.86	33.69	33.323	33.567
13:35	33.847	33.677	33.307	33.554
13:36	33.832	33.662	33.29	33.541
13:37	33.817	33.649	33.276	33.528
13:38	33.803	33.636	33.261	33.513
13:39	33.788	33.623	33.246	33.5
13:40	33.773	33.608	33.227	33.486
13:41	33.758	33.592	33.208	33.471
13:42	33.744	33.575	33.191	33.456
13:43	33.727	33.559	33.177	33.442
13:44	33.713	33.544	33.167	33.427
13:45	33.696	33.53	33.156	33.414
13:46	33.68	33.515	33.144	33.399
13:47	33.664	33.502	33.133	33.386
13:48	33.708	33.58	33.287	33.37
13:49	33.883	33.847	33.755	33.373
13:50	34.107	34.13	34.229	33.408
13:51	34.344	34.443	34.792	33.463
13:52	34.578	34.744	35.278	33.538
13:53	34.412	34.552	34.939	33.584
13:54	34.3	34.41	34.656	33.608
13:55	34.237	34.315	34.468	33.634
13:56	34.199	34.245	34.326	33.664
13:57	34.176	34.193	34.217	33.691
13:58	34.163	34.153	34.129	33.717
13:59	34.157	34.124	34.056	33.742
14:00	34.152	34.099	33.992	33.763

14:01	34.152	34.078	33.937	33.781
14:02	34.152	34.058	33.891	33.798
14:03	34.152	34.042	33.85	33.811
14:04	34.152	34.029	33.821	33.821
14:05	34.153	34.019	33.798	33.829
14:06	34.155	34.012	33.776	33.835
14:07	34.155	34.006	33.758	33.842
14:08	34.155	33.999	33.74	33.845
14:09	34.155	33.992	33.726	33.848
14:10	34.155	33.986	33.713	33.852
14:11	34.153	33.979	33.7	33.853
14:12	34.152	33.973	33.683	33.853
14:13	34.15	33.965	33.665	33.852
14:14	34.147	33.955	33.651	33.848
14:15	34.142	33.947	33.641	33.845
14:16	34.139	33.94	33.634	33.842
14:17	34.132	33.933	33.626	33.839
14:18	34.127	33.927	33.618	33.834
14:19	34.12	33.92	33.608	33.827
14:20	34.114	33.912	33.597	33.822
14:21	34.106	33.904	33.58	33.816
14:22	34.098	33.894	33.564	33.807
14:23	34.089	33.884	33.553	33.799
14:24	34.081	33.876	33.543	33.791
14:25	34.071	33.866	33.531	33.783
14:26	34.061	33.858	33.52	33.773
14:27	34.05	33.848	33.51	33.763
14:28	34.038	33.839	33.5	33.753
14:29	34.029	33.83	33.489	33.744
14:30	34.017	33.819	33.474	33.734
14:31	34.004	33.806	33.458	33.722
14:32	33.992	33.793	33.447	33.711
14:33	33.979	33.78	33.435	33.7
14:34	33.966	33.767	33.422	33.688
14:35	33.953	33.753	33.408	33.678
14:36	33.94	33.74	33.393	33.665
14:37	33.925	33.727	33.38	33.652
14:38	33.911	33.714	33.37	33.641
14:39	33.897	33.701	33.36	33.628
14:40	33.883	33.69	33.354	33.615
14:41	33.868	33.678	33.346	33.603
14:42	33.853	33.667	33.338	33.59
14:43	33.839	33.657	33.329	33.579
14:44	33.824	33.644	33.32	33.566
14:45	33.809	33.633	33.308	33.553
14:46	33.794	33.619	33.292	33.54
14:47	33.78	33.605	33.277	33.526
14:48	33.765	33.592	33.263	33.513
14:49	33.75	33.577	33.248	33.5
14:50	33.734	33.562	33.23	33.487
14:51	33.719	33.546	33.214	33.474
14:52	33.704	33.528	33.196	33.46
14:53	33.688	33.512	33.178	33.447
14:54	33.673	33.497	33.164	33.432
14:55	33.657	33.481	33.151	33.417
14:56	33.641	33.466	33.136	33.403
14:57	33.735	33.619	33.434	33.39
14:58	33.909	33.879	33.883	33.406
14:59	34.132	34.157	34.367	33.45
15:00	34.361	34.466	34.909	33.513
15:01	34.603	34.762	35.405	33.587
15:02	34.394	34.525	34.952	33.624
15:03	34.29	34.392	34.679	33.647
15:04	34.231	34.301	34.496	33.675
15:05	34.196	34.232	34.356	33.704
15:06	34.175	34.181	34.242	33.732
15:07	34.163	34.14	34.153	33.757
15:08	34.157	34.111	34.078	33.78
15:09	34.153	34.086	34.019	33.801
15:10	34.152	34.066	33.971	33.819
15:11	34.152	34.052	33.933	33.834
15:12	34.153	34.04	33.899	33.848
15:13	34.155	34.03	33.87	33.86
15:14	34.157	34.02	33.842	33.87
15:15	34.158	34.011	33.814	33.876
15:16	34.158	34.001	33.789	33.883
15:17	34.158	33.991	33.767	33.886
15:18	34.158	33.981	33.745	33.889
15:19	34.157	33.973	33.731	33.891
15:20	34.155	33.965	33.716	33.891
15:21	34.153	33.956	33.703	33.891
15:22	34.15	33.95	33.688	33.889
15:23	34.145	33.942	33.673	33.886
15:24	34.14	33.932	33.66	33.883
15:25	34.135	33.924	33.646	33.878
15:26	34.129	33.914	33.634	33.873
15:27	34.122	33.904	33.624	33.868
15:28	34.114	33.896	33.615	33.861
15:29	34.106	33.888	33.606	33.855
15:30	34.098	33.879	33.595	33.847
15:31	34.088	33.87	33.582	33.839
15:32	34.078	33.86	33.569	33.83
15:33	34.068	33.85	33.554	33.821
15:34	34.058	33.839	33.541	33.812
15:35	34.047	33.825	33.53	33.803
15:36	34.035	33.816	33.52	33.793
15:37	34.022	33.804	33.51	33.783
15:38	34.011	33.793	33.5	33.773
15:39	33.997	33.781	33.491	33.762
15:40	33.984	33.771	33.479	33.75
15:41	33.971	33.76	33.466	33.739
15:42	33.958	33.747	33.453	33.727
15:43	33.945	33.734	33.44	33.716
15:44	33.93	33.719	33.424	33.704
15:45	33.915	33.704	33.411	33.691
15:46	33.902	33.691	33.398	33.68
15:47	33.886	33.678	33.386	33.667
15:48	33.871	33.664	33.373	33.654
15:49	33.857	33.651	33.359	33.641
15:50	33.842	33.636	33.346	33.628
15:51	33.825	33.621	33.329	33.615
15:52	33.809	33.605	33.313	33.6

15:53	33.794	33.588	33.297	33.587
15:54	33.778	33.574	33.282	33.572
15:55	33.762	33.559	33.268	33.557
15:56	33.745	33.543	33.251	33.543
15:57	33.729	33.526	33.232	33.528
15:58	33.713	33.51	33.214	33.512
15:59	33.695	33.494	33.196	33.497
16:00	33.706	33.518	33.25	33.481
16:01	33.843	33.744	33.66	33.476
16:02	34.05	34.027	34.152	33.507
16:03	34.273	34.323	34.661	33.561
16:04	34.519	34.643	35.193	33.623
16:05	34.463	34.595	35.072	33.675
16:06	34.331	34.43	34.75	33.696
16:07	34.26	34.323	34.55	33.719
16:08	34.217	34.247	34.403	33.745
16:09	34.191	34.189	34.287	33.771
16:10	34.175	34.145	34.191	33.796
16:11	34.166	34.111	34.111	33.819
16:12	34.16	34.084	34.043	33.837
16:13	34.158	34.061	33.988	33.853
16:14	34.157	34.045	33.943	33.868
16:15	34.157	34.03	33.906	33.881
16:16	34.157	34.017	33.876	33.891
16:17	34.157	34.007	33.85	33.901
16:18	34.157	33.999	33.829	33.907
16:19	34.157	33.991	33.811	33.914
16:20	34.157	33.984	33.793	33.919
16:21	34.157	33.978	33.775	33.922
16:22	34.155	33.971	33.757	33.924
16:23	34.153	33.965	33.74	33.924
16:24	34.152	33.956	33.726	33.925
16:25	34.148	33.95	33.713	33.925
16:26	34.145	33.943	33.701	33.924
16:27	34.142	33.937	33.691	33.922
16:28	34.137	33.93	33.68	33.919
16:29	34.132	33.924	33.668	33.915
16:30	34.127	33.917	33.657	33.912
16:31	34.12	33.909	33.642	33.907
16:32	34.114	33.901	33.629	33.902
16:33	34.107	33.893	33.616	33.896
16:34	34.099	33.883	33.606	33.889
16:35	34.091	33.875	33.597	33.883
16:36	34.083	33.866	33.585	33.875
16:37	34.073	33.858	33.574	33.866
16:38	34.063	33.848	33.561	33.858
16:39	34.053	33.839	33.549	33.85
16:40	34.043	33.829	33.536	33.842
16:41	34.032	33.817	33.522	33.83
16:42	34.02	33.804	33.505	33.821
16:43	34.009	33.793	33.491	33.807
16:44	33.996	33.781	33.478	33.796
16:45	33.984	33.768	33.465	33.785
16:46	33.971	33.755	33.453	33.775
16:47	33.956	33.744	33.442	33.762
16:48	33.943	33.731	33.43	33.75

16:49	33.929	33.717	33.419	33.737
16:50	33.914	33.704	33.408	33.726
16:51	33.899	33.691	33.395	33.713
16:52	33.884	33.677	33.383	33.7
16:53	33.87	33.664	33.37	33.686
16:54	33.855	33.649	33.359	33.672
16:55	33.839	33.636	33.347	33.659
16:56	33.824	33.621	33.336	33.646
16:57	33.807	33.608	33.325	33.631
16:58	33.791	33.595	33.313	33.618
16:59	33.775	33.58	33.299	33.603
17:00	33.76	33.566	33.284	33.588
17:01	33.744	33.549	33.268	33.575
17:02	33.727	33.535	33.253	33.561
17:03	33.711	33.518	33.237	33.546
17:04	33.695	33.504	33.22	33.531
17:05	33.677	33.486	33.203	33.517
17:06	33.66	33.469	33.188	33.502
17:07	33.644	33.453	33.173	33.487
17:08	33.626	33.438	33.16	33.473
17:09	33.673	33.53	33.32	33.455
17:10	33.832	33.763	33.731	33.458
17:11	34.038	34.045	34.214	33.492
17:12	34.268	34.338	34.749	33.548
17:13	34.511	34.638	35.257	33.619
17:14	34.435	34.563	35.1	33.673
17:15	34.303	34.405	34.768	33.693
17:16	34.231	34.301	34.56	33.716
17:17	34.188	34.226	34.408	33.742
17:18	34.162	34.17	34.288	33.768
17:19	34.147	34.125	34.191	33.793
17:20	34.137	34.093	34.114	33.814
17:21	34.132	34.066	34.052	33.835
17:22	34.13	34.045	33.999	33.852
17:23	34.129	34.029	33.952	33.866
17:24	34.129	34.012	33.909	33.879
17:25	34.129	33.999	33.876	33.891
17:26	34.129	33.986	33.848	33.899
17:27	34.129	33.978	33.824	33.906
17:28	34.129	33.968	33.804	33.911
17:29	34.129	33.961	33.786	33.914
17:30	34.127	33.953	33.768	33.917
17:31	34.125	33.945	33.75	33.919
17:32	34.122	33.935	33.734	33.919
17:33	34.119	33.927	33.719	33.919
17:34	34.114	33.919	33.706	33.915
17:35	34.109	33.912	33.693	33.914
17:36	34.104	33.904	33.682	33.911
17:37	34.098	33.897	33.67	33.906
17:38	34.091	33.889	33.659	33.901
17:39	34.083	33.881	33.647	33.894
17:40	34.075	33.873	33.636	33.888
17:41	34.066	33.863	33.623	33.881
17:42	34.056	33.855	33.611	33.875
17:43	34.048	33.843	33.598	33.866
17:44	34.037	33.834	33.584	33.858

17:45	34.027	33.822	33.571	33.85
17:46	34.015	33.811	33.559	33.84
17:47	34.004	33.801	33.546	33.832
17:48	33.992	33.789	33.533	33.822
17:49	33.979	33.776	33.52	33.811
17:50	33.966	33.765	33.505	33.801
17:51	33.953	33.752	33.494	33.789
17:52	33.94	33.74	33.481	33.778
17:53	33.927	33.727	33.468	33.767
17:54	33.912	33.716	33.455	33.753
17:55	33.897	33.704	33.442	33.742
17:56	33.884	33.693	33.43	33.729
17:57	33.87	33.68	33.417	33.716
17:58	33.853	33.667	33.404	33.703
17:59	33.839	33.654	33.391	33.69
18:00	33.824	33.639	33.378	33.677
18:01	33.807	33.626	33.365	33.662
18:02	33.793	33.613	33.351	33.649
18:03	33.776	33.598	33.338	33.636
18:04	33.762	33.584	33.323	33.621
18:05	33.745	33.571	33.31	33.606
18:06	33.729	33.556	33.295	33.593
18:07	33.713	33.543	33.282	33.579
18:08	33.696	33.528	33.268	33.564
18:09	33.68	33.513	33.253	33.551
18:10	33.665	33.497	33.238	33.536
18:11	33.647	33.482	33.224	33.522
18:12	33.631	33.468	33.209	33.507
18:13	33.615	33.453	33.196	33.492
18:14	33.598	33.44	33.182	33.476
18:15	33.582	33.425	33.169	33.461
18:16	33.672	33.574	33.421	33.445
18:17	33.85	33.829	33.861	33.455
18:18	34.081	34.127	34.364	33.492
18:19	34.311	34.412	34.871	33.551
18:20	34.559	34.73	35.383	33.624
18:21	34.394	34.545	35.039	33.668
18:22	34.273	34.397	34.744	33.69
18:23	34.206	34.3	34.547	33.716
18:24	34.166	34.229	34.402	33.744
18:25	34.143	34.176	34.287	33.771
18:26	34.129	34.135	34.194	33.798
18:27	34.122	34.104	34.12	33.822
18:28	34.117	34.081	34.058	33.842
18:29	34.117	34.061	34.007	33.861
18:30	34.117	34.045	33.963	33.876
18:31	34.117	34.032	33.925	33.889
18:32	34.119	34.02	33.896	33.901
18:33	34.12	34.011	33.868	33.911
18:34	34.12	34.001	33.845	33.919
18:35	34.12	33.994	33.825	33.924
18:36	34.12	33.986	33.806	33.929
18:37	34.12	33.979	33.789	33.932
18:38	34.119	33.974	33.775	33.933
18:39	34.117	33.968	33.76	33.933
18:40	34.114	33.96	33.745	33.933
18:41	34.111	33.953	33.732	33.932
18:42	34.107	33.947	33.719	33.93
18:43	34.102	33.94	33.708	33.927
18:44	34.098	33.932	33.696	33.924
18:45	34.091	33.925	33.686	33.919
18:46	34.084	33.917	33.675	33.914
18:47	34.076	33.911	33.665	33.907
18:48	34.068	33.902	33.655	33.901
18:49	34.06	33.894	33.644	33.894
18:50	34.052	33.886	33.634	33.886
18:51	34.042	33.878	33.624	33.879
18:52	34.033	33.868	33.613	33.871
18:53	34.022	33.86	33.602	33.863
18:54	34.012	33.85	33.592	33.853
18:55	34.002	33.842	33.58	33.845
18:56	33.991	33.832	33.569	33.835
18:57	33.979	33.824	33.557	33.825
18:58	33.968	33.814	33.546	33.816
18:59	33.956	33.804	33.535	33.806
19:00	33.945	33.794	33.523	33.794
19:01	33.932	33.785	33.512	33.785
19:02	33.92	33.773	33.5	33.773
19:03	33.907	33.763	33.489	33.762
19:04	33.894	33.753	33.478	33.752
19:05	33.881	33.742	33.466	33.74
19:06	33.868	33.732	33.455	33.729
19:07	33.855	33.721	33.442	33.716
19:08	33.842	33.711	33.43	33.704
19:09	33.829	33.7	33.419	33.693
19:10	33.816	33.688	33.408	33.682
19:11	33.803	33.675	33.395	33.668
19:12	33.788	33.664	33.383	33.657
19:13	33.775	33.652	33.372	33.644
19:14	33.76	33.641	33.359	33.631
19:15	33.747	33.629	33.344	33.618
19:16	33.732	33.616	33.329	33.605
19:17	33.717	33.603	33.316	33.59
19:18	33.703	33.59	33.305	33.577
19:19	33.688	33.577	33.292	33.562
19:20	33.672	33.564	33.281	33.549
19:21	33.657	33.551	33.268	33.535
19:22	33.642	33.536	33.256	33.52
19:23	33.626	33.523	33.243	33.505
19:24	33.611	33.51	33.23	33.491
19:25	33.595	33.496	33.217	33.476
19:26	33.695	33.649	33.502	33.46
19:27	33.875	33.889	33.947	33.469
19:28	34.098	34.166	34.446	33.507
19:29	34.321	34.468	34.957	33.561
19:30	34.562	34.762	35.447	33.629
19:31	34.387	34.577	35.087	33.672
19:32	34.273	34.436	34.79	33.696
19:33	34.211	34.342	34.595	33.724
19:34	34.173	34.277	34.45	33.753
19:35	34.152	34.227	34.336	33.783
19:36	34.14	34.191	34.244	33.809

19:37	34.134	34.162	34.171	33.835
19:38	34.132	34.14	34.111	33.858
19:39	34.132	34.122	34.061	33.878
19:40	34.134	34.109	34.02	33.894
19:41	34.135	34.098	33.984	33.909
19:42	34.139	34.088	33.955	33.922
19:43	34.14	34.079	33.927	33.932
19:44	34.143	34.073	33.904	33.94
19:45	34.145	34.066	33.884	33.948
19:46	34.147	34.06	33.866	33.953
19:47	34.147	34.055	33.85	33.956
19:48	34.147	34.048	33.835	33.96
19:49	34.147	34.043	33.822	33.961
19:50	34.145	34.038	33.811	33.961
19:51	34.143	34.032	33.799	33.961
19:52	34.14	34.027	33.788	33.96
19:53	34.137	34.02	33.776	33.956
19:54	34.132	34.014	33.767	33.953
19:55	34.127	34.009	33.757	33.948
19:56	34.12	34.002	33.747	33.943
19:57	34.114	33.994	33.737	33.938
19:58	34.107	33.988	33.727	33.932
19:59	34.099	33.979	33.719	33.925
20:00	34.091	33.973	33.709	33.919
20:01	34.083	33.965	33.698	33.911
20:02	34.073	33.956	33.688	33.902
20:03	34.063	33.947	33.678	33.893
20:04	34.053	33.938	33.668	33.884
20:05	34.043	33.929	33.657	33.875
20:06	34.032	33.92	33.647	33.863
20:07	34.02	33.911	33.636	33.853
20:08	34.009	33.901	33.624	33.842
20:09	33.996	33.891	33.613	33.832
20:10	33.984	33.881	33.602	33.821
20:11	33.971	33.87	33.59	33.809
20:12	33.958	33.86	33.579	33.796
20:13	33.945	33.848	33.567	33.785
20:14	33.932	33.839	33.554	33.771
20:15	33.919	33.827	33.543	33.76
20:16	33.906	33.816	33.531	33.747
20:17	33.891	33.804	33.52	33.735
20:18	33.876	33.791	33.509	33.722
20:19	33.863	33.78	33.496	33.709
20:20	33.848	33.768	33.484	33.696
20:21	33.834	33.755	33.473	33.683
20:22	33.819	33.744	33.46	33.67
20:23	33.804	33.731	33.448	33.657
20:24	33.789	33.719	33.437	33.644
20:25	33.775	33.706	33.424	33.629
20:26	33.76	33.695	33.411	33.616
20:27	33.745	33.682	33.399	33.603
20:28	33.731	33.668	33.386	33.59
20:29	33.716	33.657	33.375	33.577
20:30	33.701	33.644	33.362	33.562
20:31	33.686	33.631	33.349	33.549
20:32	33.672	33.618	33.336	33.535
20:33	33.657	33.605	33.325	33.522
20:34	33.642	33.593	33.312	33.509
20:35	33.626	33.58	33.299	33.494
20:36	33.611	33.567	33.286	33.481
20:37	33.597	33.554	33.274	33.466
20:38	33.582	33.541	33.261	33.453
20:39	33.662	33.657	33.486	33.437
20:40	33.839	33.891	33.915	33.445
20:41	34.052	34.18	34.4	33.481
20:42	34.301	34.466	34.911	33.536
20:43	34.532	34.755	35.402	33.605
20:44	34.38	34.596	35.11	33.651
20:45	34.263	34.458	34.81	33.675
20:46	34.199	34.367	34.615	33.703
20:47	34.162	34.303	34.471	33.732
20:48	34.14	34.254	34.359	33.763
20:49	34.129	34.217	34.268	33.791
20:50	34.122	34.189	34.196	33.817
20:51	34.12	34.168	34.137	33.84
20:52	34.122	34.15	34.088	33.86
20:53	34.124	34.137	34.047	33.876
20:54	34.125	34.125	34.012	33.891
20:55	34.129	34.116	33.983	33.904
20:56	34.132	34.107	33.956	33.914
20:57	34.135	34.099	33.935	33.922
20:58	34.137	34.093	33.915	33.93
20:59	34.139	34.086	33.899	33.935
21:00	34.14	34.079	33.883	33.938
21:01	34.14	34.075	33.87	33.942
21:02	34.14	34.068	33.857	33.943
21:03	34.139	34.063	33.845	33.943
21:04	34.137	34.056	33.834	33.943
21:05	34.134	34.05	33.822	33.942
21:06	34.13	34.045	33.811	33.938
21:07	34.127	34.038	33.801	33.935
21:08	34.122	34.032	33.791	33.93
21:09	34.117	34.025	33.781	33.927
21:10	34.111	34.017	33.77	33.92
21:11	34.104	34.011	33.76	33.914
21:12	34.098	34.002	33.75	33.907
21:13	34.089	33.996	33.739	33.901
21:14	34.081	33.986	33.729	33.893
21:15	34.073	33.978	33.717	33.884
21:16	34.063	33.97	33.708	33.875
21:17	34.053	33.96	33.696	33.865
21:18	34.042	33.95	33.685	33.857
21:19	34.032	33.942	33.673	33.845
21:20	34.02	33.93	33.662	33.835
21:21	34.009	33.92	33.651	33.824
21:22	33.997	33.911	33.639	33.814
21:23	33.984	33.899	33.628	33.803
21:24	33.973	33.888	33.616	33.789
21:25	33.96	33.876	33.603	33.778
21:26	33.947	33.865	33.592	33.765
21:27	33.932	33.853	33.579	33.753
21:28	33.919	33.842	33.566	33.74

21:29	33.904	33.829	33.553	33.727
21:30	33.891	33.817	33.54	33.714
21:31	33.876	33.804	33.526	33.7
21:32	33.861	33.793	33.513	33.686
21:33	33.847	33.78	33.499	33.672
21:34	33.832	33.767	33.486	33.659
21:35	33.817	33.752	33.473	33.644
21:36	33.801	33.739	33.46	33.629
21:37	33.786	33.726	33.447	33.616
21:38	33.77	33.711	33.432	33.602
21:39	33.755	33.698	33.419	33.587
21:40	33.739	33.683	33.404	33.571
21:41	33.722	33.668	33.39	33.556
21:42	33.706	33.654	33.377	33.541
21:43	33.69	33.639	33.362	33.526
21:44	33.673	33.624	33.349	33.51
21:45	33.657	33.61	33.336	33.496
21:46	33.641	33.595	33.321	33.481
21:47	33.686	33.68	33.476	33.463
21:48	33.857	33.907	33.906	33.466
21:49	34.081	34.185	34.397	33.499
21:50	34.315	34.469	34.916	33.557
21:51	34.57	34.788	35.408	33.628
21:52	34.407	34.61	35.089	33.667
21:53	34.288	34.471	34.798	33.69
21:54	34.221	34.38	34.611	33.714
21:55	34.183	34.315	34.471	33.742
21:56	34.16	34.267	34.362	33.77
21:57	34.145	34.229	34.275	33.796
21:58	34.139	34.201	34.203	33.819
21:59	34.135	34.178	34.145	33.84
22:00	34.134	34.16	34.096	33.858
22:01	34.135	34.145	34.055	33.875
22:02	34.135	34.134	34.02	33.888
22:03	34.139	34.122	33.991	33.899
22:04	34.14	34.114	33.966	33.909
22:05	34.14	34.104	33.943	33.915
22:06	34.142	34.098	33.924	33.922
22:07	34.142	34.089	33.906	33.927
22:08	34.142	34.083	33.889	33.929
22:09	34.142	34.076	33.875	33.93
22:10	34.14	34.07	33.86	33.932
22:11	34.139	34.063	33.847	33.93
22:12	34.135	34.056	33.835	33.929
22:13	34.132	34.05	33.822	33.927
22:14	34.129	34.043	33.811	33.924
22:15	34.124	34.035	33.799	33.919
22:16	34.117	34.029	33.788	33.914
22:17	34.112	34.02	33.776	33.907
22:18	34.106	34.012	33.767	33.902
22:19	34.098	34.004	33.755	33.894
22:20	34.089	33.996	33.744	33.888
22:21	34.081	33.988	33.732	33.879
22:22	34.071	33.978	33.721	33.87
22:23	34.061	33.97	33.709	33.861
22:24	34.052	33.96	33.698	33.852
22:25	34.042	33.95	33.686	33.842
22:26	34.03	33.94	33.675	33.832
22:27	34.019	33.929	33.664	33.821
22:28	34.007	33.919	33.651	33.809
22:29	33.996	33.907	33.639	33.798
22:30	33.983	33.896	33.626	33.786
22:31	33.97	33.884	33.613	33.775
22:32	33.956	33.873	33.602	33.762
22:33	33.943	33.861	33.588	33.75
22:34	33.93	33.85	33.575	33.737
22:35	33.915	33.837	33.562	33.724
22:36	33.902	33.825	33.549	33.711
22:37	33.888	33.812	33.536	33.698
22:38	33.873	33.801	33.523	33.683
22:39	33.858	33.788	33.51	33.67
22:40	33.843	33.775	33.497	33.657
22:41	33.829	33.762	33.482	33.642
22:42	33.814	33.747	33.469	33.629
22:43	33.799	33.734	33.455	33.615
22:44	33.785	33.721	33.442	33.6
22:45	33.768	33.706	33.427	33.585
22:46	33.753	33.693	33.414	33.571
22:47	33.737	33.68	33.399	33.557
22:48	33.722	33.665	33.386	33.543
22:49	33.706	33.651	33.372	33.528
22:50	33.69	33.637	33.357	33.513
22:51	33.675	33.623	33.344	33.497
22:52	33.659	33.608	33.329	33.482
22:53	33.778	33.785	33.655	33.468
22:54	33.979	34.033	34.116	33.487
22:55	34.208	34.319	34.605	33.535
22:56	34.445	34.636	35.122	33.597
22:57	34.489	34.707	35.233	33.659
22:58	34.336	34.525	34.87	33.682
22:59	34.254	34.417	34.654	33.703
23:00	34.204	34.341	34.501	33.729
23:01	34.176	34.285	34.384	33.755
23:02	34.158	34.244	34.288	33.781
23:03	34.148	34.211	34.213	33.804
23:04	34.143	34.186	34.15	33.825
23:05	34.142	34.166	34.098	33.843
23:06	34.14	34.15	34.055	33.86
23:07	34.14	34.135	34.017	33.873
23:08	34.142	34.124	33.986	33.884
23:09	34.143	34.114	33.96	33.894
23:10	34.143	34.106	33.935	33.901
23:11	34.145	34.096	33.914	33.907
23:12	34.145	34.089	33.896	33.911
23:13	34.145	34.081	33.878	33.914
23:14	34.143	34.075	33.863	33.915
23:15	34.142	34.066	33.848	33.915
23:16	34.14	34.06	33.835	33.915
23:17	34.137	34.053	33.822	33.914
23:18	34.134	34.045	33.809	33.911
23:19	34.129	34.038	33.798	33.907
23:20	34.124	34.03	33.786	33.902

23:21	34.119	34.022	33.775	33.897
23:22	34.112	34.015	33.763	33.891
23:23	34.106	34.006	33.752	33.884
23:24	34.098	33.997	33.74	33.878
23:25	34.089	33.989	33.729	33.87
23:26	34.079	33.979	33.717	33.861
23:27	34.071	33.971	33.706	33.852
23:28	34.061	33.961	33.695	33.842
23:29	34.05	33.952	33.683	33.832
23:30	34.038	33.94	33.672	33.822
23:31	34.027	33.93	33.659	33.811
23:32	34.015	33.92	33.647	33.799
23:33	34.004	33.909	33.634	33.788
23:34	33.991	33.897	33.623	33.776
23:35	33.978	33.886	33.61	33.765
23:36	33.965	33.875	33.597	33.752
23:37	33.952	33.861	33.584	33.739
23:38	33.938	33.85	33.571	33.726
23:39	33.924	33.837	33.557	33.713
23:40	33.909	33.825	33.544	33.7
23:41	33.896	33.812	33.531	33.686
23:42	33.881	33.799	33.517	33.672
23:43	33.865	33.786	33.504	33.659
23:44	33.85	33.773	33.491	33.644
23:45	33.835	33.758	33.476	33.629
23:46	33.819	33.745	33.463	33.615
23:47	33.804	33.731	33.448	33.6
23:48	33.788	33.717	33.434	33.585
23:49	33.773	33.703	33.421	33.571
23:50	33.757	33.688	33.406	33.556
23:51	33.74	33.675	33.391	33.541
23:52	33.724	33.66	33.377	33.525
23:53	33.708	33.646	33.364	33.51
23:54	33.691	33.631	33.349	33.496
23:55	33.675	33.616	33.334	33.479
23:56	33.659	33.602	33.32	33.465
23:57	33.642	33.587	33.305	33.448
23:58	33.624	33.571	33.29	33.432
23:59	33.608	33.556	33.276	33.417
0:00	33.592	33.541	33.261	33.401
0:01	33.575	33.526	33.246	33.385
0:02	33.557	33.51	33.232	33.37
0:03	33.572	33.536	33.287	33.352
0:04	33.724	33.75	33.69	33.346
0:05	33.933	34.02	34.181	33.37
0:06	34.17	34.315	34.686	33.419
0:07	34.417	34.611	35.173	33.484
0:08	34.392	34.605	35.149	33.546
0:09	34.244	34.435	34.798	33.569
0:10	34.162	34.329	34.583	33.595
0:11	34.116	34.255	34.428	33.623
0:12	34.086	34.201	34.308	33.651
0:13	34.07	34.16	34.213	33.677
0:14	34.06	34.127	34.135	33.701
0:15	34.055	34.102	34.071	33.722
0:16	34.053	34.081	34.019	33.742
0:17	34.052	34.065	33.974	33.758
0:18	34.053	34.052	33.938	33.773
0:19	34.053	34.038	33.906	33.785
0:20	34.055	34.029	33.878	33.793
0:21	34.056	34.019	33.853	33.801
0:22	34.056	34.011	33.832	33.806
0:23	34.056	34.002	33.814	33.811
0:24	34.056	33.994	33.796	33.814
0:25	34.055	33.988	33.78	33.814
0:26	34.055	33.979	33.765	33.816
0:27	34.052	33.973	33.752	33.814
0:28	34.048	33.965	33.737	33.812
0:29	34.045	33.956	33.726	33.809
0:30	34.04	33.95	33.713	33.806
0:31	34.035	33.942	33.701	33.801
0:32	34.03	33.933	33.688	33.794
0:33	34.024	33.925	33.677	33.789
0:34	34.015	33.917	33.665	33.781
0:35	34.007	33.907	33.654	33.775
0:36	33.999	33.899	33.642	33.767
0:37	33.991	33.889	33.631	33.757
0:38	33.981	33.879	33.618	33.749
0:39	33.971	33.87	33.606	33.739
0:40	33.96	33.86	33.595	33.729
0:41	33.948	33.85	33.582	33.717
0:42	33.937	33.839	33.569	33.706
0:43	33.925	33.827	33.557	33.695
0:44	33.912	33.816	33.544	33.683
0:45	33.899	33.804	33.531	33.672
0:46	33.886	33.793	33.518	33.659
0:47	33.873	33.781	33.505	33.646
0:48	33.86	33.768	33.492	33.633
0:49	33.845	33.757	33.479	33.619
0:50	33.832	33.744	33.466	33.606
0:51	33.817	33.731	33.452	33.592
0:52	33.803	33.717	33.438	33.579
0:53	33.788	33.704	33.424	33.564
0:54	33.771	33.69	33.411	33.549
0:55	33.757	33.677	33.396	33.535
0:56	33.74	33.664	33.381	33.52
0:57	33.726	33.649	33.367	33.505
0:58	33.709	33.636	33.354	33.491
0:59	33.693	33.621	33.339	33.476
1:00	33.677	33.606	33.325	33.461
1:01	33.66	33.592	33.31	33.445
1:02	33.644	33.577	33.295	33.43
1:03	33.628	33.562	33.281	33.414
1:04	33.611	33.548	33.266	33.399
1:05	33.595	33.533	33.251	33.383
1:06	33.579	33.518	33.235	33.368
1:07	33.561	33.502	33.22	33.352
1:08	33.544	33.487	33.206	33.336
1:09	33.528	33.473	33.191	33.32
1:10	33.51	33.458	33.177	33.303
1:11	33.551	33.53	33.303	33.286
1:12	33.719	33.763	33.724	33.287

1:13	33.943	34.043	34.229	33.321
1:14	34.181	34.338	34.765	33.375
1:15	34.415	34.634	35.272	33.442
1:16	34.379	34.633	35.215	33.5
1:17	34.234	34.453	34.845	33.525
1:18	34.153	34.341	34.616	33.551
1:19	34.106	34.262	34.45	33.582
1:20	34.078	34.204	34.321	33.611
1:21	34.06	34.16	34.219	33.639
1:22	34.05	34.125	34.137	33.665
1:23	34.045	34.098	34.07	33.688
1:24	34.043	34.076	34.015	33.709
1:25	34.042	34.058	33.968	33.726
1:26	34.042	34.043	33.929	33.74
1:27	34.043	34.03	33.896	33.753
1:28	34.045	34.019	33.866	33.762
1:29	34.045	34.009	33.84	33.77
1:30	34.045	33.999	33.819	33.776
1:31	34.045	33.991	33.798	33.781
1:32	34.045	33.983	33.78	33.783
1:33	34.045	33.974	33.763	33.785
1:34	34.042	33.966	33.747	33.785
1:35	34.04	33.958	33.732	33.783
1:36	34.037	33.95	33.719	33.781
1:37	34.032	33.942	33.706	33.778
1:38	34.029	33.933	33.693	33.775
1:39	34.022	33.925	33.68	33.768
1:40	34.015	33.917	33.667	33.763
1:41	34.009	33.909	33.655	33.757
1:42	34.002	33.899	33.642	33.749
1:43	33.994	33.891	33.631	33.74
1:44	33.984	33.881	33.618	33.732
1:45	33.974	33.871	33.606	33.724
1:46	33.965	33.861	33.593	33.714
1:47	33.955	33.85	33.58	33.703
1:48	33.943	33.84	33.569	33.693
1:49	33.932	33.829	33.556	33.682
1:50	33.919	33.817	33.543	33.67
1:51	33.907	33.806	33.53	33.657
1:52	33.894	33.794	33.517	33.646
1:53	33.881	33.783	33.502	33.633
1:54	33.866	33.77	33.489	33.619
1:55	33.853	33.758	33.476	33.606
1:56	33.839	33.745	33.461	33.593
1:57	33.824	33.732	33.448	33.579
1:58	33.809	33.719	33.434	33.566
1:59	33.793	33.704	33.419	33.551
2:00	33.778	33.691	33.404	33.536
2:01	33.762	33.678	33.39	33.522
2:02	33.747	33.664	33.375	33.507
2:03	33.731	33.649	33.359	33.492
2:04	33.714	33.634	33.344	33.476
2:05	33.698	33.619	33.329	33.461
2:06	33.682	33.605	33.315	33.445
2:07	33.665	33.59	33.3	33.43
2:08	33.647	33.575	33.286	33.414
2:09	33.631	33.559	33.271	33.398
2:10	33.613	33.544	33.256	33.381
2:11	33.597	33.528	33.24	33.367
2:12	33.579	33.512	33.225	33.351
2:13	33.562	33.496	33.209	33.334
2:14	33.544	33.479	33.195	33.318
2:15	33.584	33.548	33.316	33.299
2:16	33.753	33.793	33.745	33.302
2:17	33.976	34.081	34.234	33.339
2:18	34.222	34.389	34.764	33.395
2:19	34.469	34.691	35.28	33.465
2:20	34.377	34.59	35.125	33.517
2:21	34.24	34.428	34.787	33.54
2:22	34.163	34.324	34.573	33.566
2:23	34.117	34.25	34.417	33.593
2:24	34.089	34.194	34.293	33.623
2:25	34.073	34.152	34.196	33.649
2:26	34.063	34.119	34.117	33.673
2:27	34.056	34.091	34.052	33.695
2:28	34.053	34.07	33.997	33.713
2:29	34.052	34.053	33.952	33.729
2:30	34.052	34.037	33.912	33.74
2:31	34.052	34.024	33.879	33.752
2:32	34.052	34.012	33.852	33.76
2:33	34.052	34.002	33.825	33.767
2:34	34.052	33.992	33.803	33.771
2:35	34.05	33.983	33.781	33.775
2:36	34.048	33.974	33.763	33.776
2:37	34.047	33.966	33.747	33.776
2:38	34.043	33.956	33.731	33.775
2:39	34.04	33.948	33.716	33.773
2:40	34.035	33.94	33.701	33.768
2:41	34.03	33.932	33.686	33.765
2:42	34.024	33.922	33.673	33.76
2:43	34.019	33.914	33.66	33.753
2:44	34.011	33.904	33.647	33.747
2:45	34.002	33.894	33.634	33.739
2:46	33.994	33.884	33.621	33.731
2:47	33.984	33.875	33.608	33.721
2:48	33.974	33.865	33.595	33.713
2:49	33.965	33.855	33.582	33.701
2:50	33.953	33.843	33.569	33.691
2:51	33.942	33.832	33.556	33.68
2:52	33.93	33.821	33.543	33.668
2:53	33.917	33.809	33.53	33.657
2:54	33.904	33.798	33.517	33.644
2:55	33.891	33.786	33.502	33.631
2:56	33.876	33.773	33.489	33.618
2:57	33.863	33.76	33.474	33.605
2:58	33.848	33.747	33.46	33.59
2:59	33.834	33.734	33.445	33.577
3:00	33.817	33.721	33.43	33.562
3:01	33.803	33.708	33.416	33.548
3:02	33.786	33.693	33.401	33.533
3:03	33.771	33.68	33.386	33.517
3:04	33.755	33.665	33.372	33.502

3:05	33.739	33.651	33.357	33.487
3:06	33.722	33.636	33.341	33.471
3:07	33.704	33.621	33.326	33.455
3:08	33.688	33.606	33.312	33.44
3:09	33.672	33.59	33.295	33.424
3:10	33.654	33.575	33.281	33.408
3:11	33.636	33.559	33.264	33.391
3:12	33.619	33.544	33.248	33.375
3:13	33.602	33.528	33.233	33.357
3:14	33.584	33.513	33.217	33.341
3:15	33.566	33.497	33.201	33.325
3:16	33.548	33.481	33.185	33.308
3:17	33.554	33.496	33.227	33.29
3:18	33.717	33.727	33.637	33.282
3:19	33.932	34.017	34.129	33.308
3:20	34.18	34.308	34.658	33.359
3:21	34.407	34.62	35.18	33.429
3:22	34.3	34.511	34.949	33.478
3:23	34.173	34.356	34.641	33.499
3:24	34.102	34.255	34.445	33.522
3:25	34.06	34.183	34.3	33.546
3:26	34.032	34.129	34.186	33.572
3:27	34.015	34.088	34.094	33.595
3:28	34.004	34.055	34.02	33.618
3:29	33.999	34.029	33.958	33.636
3:30	33.994	34.007	33.907	33.652
3:31	33.992	33.991	33.863	33.665
3:32	33.991	33.974	33.825	33.677
3:33	33.989	33.961	33.794	33.685
3:34	33.989	33.95	33.765	33.691
3:35	33.988	33.938	33.74	33.696
3:36	33.986	33.929	33.717	33.7
3:37	33.984	33.919	33.698	33.701
3:38	33.983	33.909	33.678	33.701
3:39	33.979	33.899	33.662	33.701
3:40	33.976	33.891	33.646	33.698
3:41	33.971	33.881	33.629	33.695
3:42	33.966	33.871	33.615	33.691
3:43	33.96	33.861	33.602	33.685
3:44	33.953	33.853	33.587	33.68
3:45	33.947	33.843	33.574	33.672
3:46	33.938	33.832	33.561	33.665
3:47	33.929	33.822	33.548	33.655
3:48	33.92	33.812	33.535	33.647
3:49	33.911	33.801	33.52	33.637
3:50	33.899	33.789	33.507	33.628
3:51	33.888	33.778	33.494	33.616
3:52	33.876	33.767	33.481	33.605
3:53	33.865	33.755	33.468	33.593
3:54	33.852	33.744	33.453	33.582
3:55	33.839	33.731	33.44	33.569
3:56	33.824	33.717	33.425	33.556
3:57	33.811	33.706	33.411	33.543
3:58	33.796	33.693	33.398	33.528
3:59	33.781	33.678	33.383	33.515
4:00	33.767	33.665	33.368	33.5

4:01	33.75	33.652	33.354	33.486
4:02	33.735	33.637	33.339	33.471
4:03	33.719	33.623	33.323	33.455
4:04	33.703	33.608	33.308	33.44
4:05	33.686	33.593	33.294	33.424
4:06	33.67	33.579	33.277	33.409
4:07	33.654	33.564	33.263	33.393
4:08	33.636	33.548	33.246	33.377
4:09	33.619	33.533	33.232	33.36
4:10	33.602	33.518	33.216	33.344
4:11	33.584	33.502	33.199	33.328
4:12	33.566	33.486	33.183	33.31
4:13	33.548	33.469	33.167	33.294
4:14	33.53	33.455	33.152	33.277
4:15	33.512	33.438	33.136	33.26
4:16	33.494	33.422	33.12	33.243
4:17	33.476	33.406	33.104	33.225
4:18	33.458	33.39	33.087	33.209
4:19	33.525	33.499	33.273	33.19
4:20	33.706	33.755	33.726	33.196
4:21	33.937	34.061	34.221	33.235
4:22	34.175	34.359	34.767	33.292
4:23	34.436	34.664	35.26	33.364
4:24	34.3	34.522	35.004	33.411
4:25	34.162	34.357	34.676	33.434
4:26	34.084	34.25	34.464	33.461
4:27	34.038	34.175	34.308	33.489
4:28	34.009	34.116	34.186	33.518
4:29	33.991	34.071	34.089	33.544
4:30	33.979	34.037	34.009	33.569
4:31	33.973	34.011	33.943	33.59
4:32	33.968	33.988	33.889	33.608
4:33	33.966	33.968	33.842	33.623
4:34	33.965	33.952	33.803	33.634
4:35	33.963	33.938	33.77	33.644
4:36	33.963	33.925	33.74	33.652
4:37	33.961	33.914	33.714	33.657
4:38	33.96	33.902	33.69	33.662
4:39	33.958	33.893	33.668	33.664
4:40	33.956	33.883	33.651	33.664
4:41	33.953	33.873	33.633	33.664
4:42	33.95	33.863	33.615	33.662
4:43	33.945	33.853	33.598	33.659
4:44	33.94	33.843	33.584	33.654
4:45	33.935	33.834	33.569	33.649
4:46	33.929	33.825	33.554	33.642
4:47	33.92	33.814	33.541	33.636
4:48	33.912	33.804	33.526	33.628
4:49	33.904	33.794	33.513	33.618
4:50	33.894	33.783	33.499	33.61
4:51	33.884	33.771	33.486	33.6
4:52	33.875	33.76	33.473	33.588
4:53	33.863	33.749	33.458	33.579
4:54	33.85	33.737	33.445	33.567
4:55	33.839	33.726	33.43	33.554
4:56	33.825	33.713	33.416	33.541

4:57	33.812	33.7	33.403	33.528
4:58	33.798	33.688	33.388	33.515
4:59	33.783	33.673	33.373	33.502
5:00	33.768	33.66	33.359	33.487
5:01	33.753	33.647	33.344	33.473
5:02	33.739	33.633	33.329	33.458
5:03	33.722	33.618	33.313	33.443
5:04	33.706	33.603	33.299	33.429
5:05	33.69	33.588	33.284	33.412
5:06	33.673	33.574	33.268	33.398
5:07	33.657	33.559	33.253	33.381
5:08	33.639	33.544	33.237	33.365
5:09	33.621	33.528	33.22	33.349
5:10	33.605	33.513	33.206	33.333
5:11	33.587	33.497	33.19	33.316
5:12	33.569	33.481	33.173	33.299
5:13	33.551	33.465	33.157	33.282
5:14	33.533	33.448	33.141	33.264
5:15	33.515	33.432	33.125	33.246
5:16	33.496	33.416	33.107	33.23
5:17	33.478	33.398	33.091	33.212
5:18	33.458	33.38	33.074	33.195
5:19	33.44	33.364	33.058	33.177
5:20	33.421	33.346	33.04	33.159
5:21	33.445	33.395	33.13	33.139
5:22	33.616	33.634	33.572	33.134
5:23	33.845	33.915	34.081	33.165
5:24	34.071	34.211	34.613	33.216
5:25	34.324	34.522	35.099	33.282
5:26	34.298	34.501	35.072	33.339
5:27	34.139	34.316	34.694	33.364
5:28	34.05	34.203	34.459	33.39
5:29	33.997	34.12	34.29	33.417
5:30	33.963	34.058	34.158	33.447
5:31	33.942	34.011	34.055	33.473
5:32	33.929	33.973	33.97	33.497
5:33	33.919	33.943	33.899	33.517
5:34	33.912	33.919	33.84	33.535
5:35	33.909	33.897	33.791	33.549
5:36	33.906	33.879	33.749	33.562
5:37	33.904	33.863	33.713	33.571
5:38	33.902	33.85	33.68	33.579
5:39	33.899	33.837	33.652	33.584
5:40	33.897	33.824	33.628	33.587
5:41	33.894	33.812	33.605	33.588
5:42	33.891	33.799	33.584	33.588
5:43	33.886	33.788	33.564	33.587
5:44	33.881	33.778	33.546	33.584
5:45	33.876	33.767	33.528	33.58
5:46	33.87	33.755	33.512	33.575
5:47	33.861	33.744	33.496	33.569
5:48	33.855	33.732	33.481	33.562
5:49	33.845	33.721	33.465	33.554
5:50	33.837	33.708	33.45	33.546
5:51	33.827	33.696	33.435	33.536
5:52	33.816	33.683	33.421	33.526
5:53	33.804	33.672	33.406	33.515
5:54	33.793	33.659	33.39	33.504
5:55	33.78	33.646	33.375	33.492
5:56	33.767	33.633	33.36	33.479
5:57	33.753	33.618	33.346	33.466
5:58	33.739	33.605	33.329	33.453
5:59	33.724	33.59	33.313	33.438
6:00	33.709	33.577	33.299	33.425
6:01	33.693	33.562	33.282	33.409
6:02	33.678	33.546	33.266	33.395
6:03	33.662	33.531	33.25	33.378
6:04	33.644	33.515	33.233	33.364
6:05	33.628	33.5	33.216	33.347
6:06	33.61	33.484	33.199	33.331
6:07	33.592	33.468	33.183	33.313
6:08	33.574	33.452	33.165	33.297
6:09	33.556	33.434	33.149	33.281
6:10	33.538	33.417	33.131	33.263
6:11	33.518	33.399	33.115	33.245
6:12	33.5	33.381	33.097	33.227
6:13	33.481	33.364	33.079	33.209
6:14	33.461	33.347	33.061	33.191
6:15	33.442	33.329	33.044	33.173
6:16	33.422	33.312	33.024	33.156
6:17	33.403	33.294	33.005	33.136
6:18	33.383	33.276	32.987	33.118
6:19	33.364	33.258	32.967	33.1
6:20	33.526	33.5	33.367	33.086
6:21	33.732	33.788	33.87	33.108
6:22	33.961	34.112	34.392	33.157
6:23	34.209	34.415	34.923	33.225
6:24	34.339	34.56	35.213	33.29
6:25	34.139	34.329	34.752	33.315
6:26	34.033	34.196	34.479	33.339
6:27	33.971	34.104	34.288	33.367
6:28	33.932	34.035	34.143	33.396
6:29	33.907	33.983	34.029	33.424
6:30	33.893	33.942	33.937	33.448
6:31	33.881	33.909	33.86	33.469
6:32	33.875	33.881	33.798	33.489
6:33	33.87	33.86	33.745	33.504
6:34	33.866	33.84	33.701	33.517
6:35	33.865	33.824	33.664	33.526
6:36	33.861	33.809	33.629	33.535
6:37	33.86	33.794	33.6	33.541
6:38	33.858	33.783	33.574	33.544
6:39	33.855	33.77	33.551	33.546
6:40	33.852	33.758	33.528	33.548
6:41	33.847	33.747	33.509	33.546
6:42	33.842	33.735	33.489	33.544
6:43	33.837	33.724	33.471	33.541
6:44	33.83	33.713	33.453	33.536
6:45	33.824	33.701	33.437	33.53
6:46	33.817	33.691	33.422	33.522
6:47	33.809	33.68	33.406	33.515
6:48	33.799	33.668	33.391	33.505

K. Side wall temperatures- 16 nos. of plates in Bulb incubator

Time	T1	T2	T3	T4
9:01	36.528	35.197	35.357	30.77
9:02	36.749	35.671	35.556	32.42
9:03	36.361	35.765	35.882	33.294
9:04	36.131	35.813	36.091	33.956
9:05	35.963	35.839	36.185	34.438
9:06	35.825	35.84	36.197	34.768
9:07	35.71	35.817	36.157	34.989
9:08	35.611	35.772	36.084	35.134
9:09	35.519	35.708	35.992	35.22
9:10	35.435	35.631	35.889	35.265
9:11	35.355	35.545	35.78	35.278
9:12	35.278	35.455	35.671	35.268
9:13	35.202	35.363	35.561	35.242
9:14	35.129	35.27	35.455	35.202
9:15	35.057	35.177	35.35	35.154
9:16	34.986	35.084	35.252	35.099
9:17	34.916	34.991	35.155	35.039
9:18	34.848	34.899	35.064	34.977
9:19	34.782	34.81	34.974	34.913
9:20	34.716	34.722	34.886	34.846
9:21	34.651	34.634	34.8	34.782
9:22	34.588	34.552	34.714	34.716
9:23	34.525	34.471	34.631	34.653
9:24	34.464	34.395	34.552	34.588
9:25	34.403	34.319	34.473	34.525
9:26	34.344	34.249	34.399	34.464
9:27	34.285	34.18	34.324	34.402
9:28	34.744	34.315	34.38	34.507
9:29	35.422	34.755	34.583	34.795
9:30	35.485	35.097	34.909	35.016
9:31	35.325	35.21	35.22	35.097
9:32	35.243	35.265	35.39	35.157
9:33	35.18	35.282	35.467	35.193
9:34	35.119	35.272	35.484	35.207
9:35	35.059	35.24	35.459	35.202
9:36	34.997	35.193	35.405	35.18
9:37	34.934	35.134	35.335	35.147
9:38	34.873	35.064	35.253	35.104
9:39	34.812	34.987	35.163	35.052
9:40	34.75	34.906	35.072	34.994
9:41	34.689	34.825	34.981	34.931
9:42	34.628	34.74	34.889	34.865
9:43	34.567	34.658	34.802	34.797
9:44	34.507	34.575	34.714	34.727
9:45	34.446	34.492	34.631	34.658
9:46	34.387	34.413	34.55	34.587
9:47	34.326	34.334	34.473	34.517
9:48	34.267	34.257	34.399	34.448
9:49	34.209	34.183	34.326	34.379
9:50	34.15	34.109	34.257	34.31
9:51	34.418	34.135	34.255	34.331
9:52	35.077	34.484	34.407	34.59
9:53	35.51	34.939	34.663	34.899
9:54	35.282	35.087	35.039	34.982
9:55	35.187	35.163	35.263	35.052
9:56	35.122	35.192	35.373	35.097
9:57	35.062	35.192	35.41	35.119
9:58	35.002	35.168	35.402	35.12
9:59	34.941	35.125	35.358	35.105
10:00	34.878	35.069	35.295	35.077
10:01	34.815	35.001	35.217	35.035
10:02	34.752	34.926	35.132	34.987
10:03	34.689	34.846	35.04	34.931
10:04	34.628	34.764	34.947	34.868
10:05	34.565	34.682	34.856	34.803
10:06	34.504	34.598	34.765	34.735
10:07	34.443	34.516	34.676	34.666
10:08	34.382	34.435	34.59	34.596
10:09	34.321	34.354	34.506	34.527
10:10	34.262	34.277	34.427	34.456
10:11	34.203	34.201	34.349	34.387
10:12	34.362	34.18	34.323	34.367
10:13	34.989	34.479	34.435	34.587
10:14	35.542	34.941	34.654	34.939
10:15	35.287	35.094	35.035	35.009
10:16	35.188	35.172	35.267	35.072
10:17	35.125	35.202	35.382	35.112
10:18	35.067	35.2	35.423	35.132
10:19	35.007	35.177	35.415	35.132
10:20	34.947	35.134	35.373	35.115
10:21	34.886	35.075	35.31	35.084
10:22	34.823	35.009	35.232	35.044
10:23	34.76	34.933	35.145	34.992
10:24	34.699	34.855	35.055	34.936
10:25	34.636	34.772	34.962	34.875
10:26	34.573	34.689	34.87	34.808
10:27	34.512	34.606	34.778	34.74
10:28	34.451	34.524	34.689	34.671
10:29	34.39	34.441	34.601	34.601
10:30	34.331	34.362	34.517	34.53
10:31	34.272	34.285	34.436	34.461
10:32	34.213	34.208	34.359	34.392
10:33	34.303	34.158	34.315	34.357
10:34	34.921	34.418	34.417	34.545
10:35	35.626	34.896	34.633	34.875
10:36	35.327	35.079	35.006	34.979
10:37	35.215	35.168	35.25	35.05
10:38	35.147	35.205	35.377	35.097
10:39	35.087	35.208	35.425	35.122
10:40	35.027	35.187	35.423	35.127
10:41	34.967	35.147	35.385	35.114
10:42	34.906	35.092	35.325	35.087
10:43	34.843	35.026	35.25	35.049
10:44	34.78	34.952	35.165	35.001
10:45	34.717	34.875	35.075	34.946
10:46	34.654	34.793	34.982	34.884
10:47	34.592	34.711	34.889	34.821

10:48	34.53	34.628	34.798	34.754
10:49	34.468	34.545	34.709	34.686
10:50	34.407	34.464	34.623	34.616
10:51	34.347	34.385	34.539	34.547
10:52	34.287	34.306	34.458	34.479
10:53	34.229	34.231	34.38	34.41
10:54	34.219	34.163	34.311	34.351
10:55	34.81	34.366	34.4	34.507
10:56	35.519	34.82	34.59	34.846
10:57	35.358	35.074	34.952	34.982
10:58	35.235	35.175	35.227	35.054
10:59	35.163	35.217	35.37	35.105
11:00	35.105	35.225	35.43	35.134
11:01	35.047	35.207	35.435	35.14
11:02	34.987	35.17	35.402	35.13
11:03	34.928	35.117	35.345	35.105
11:04	34.866	35.052	35.273	35.069
11:05	34.803	34.981	35.19	35.022
11:06	34.74	34.903	35.1	34.967
11:07	34.679	34.823	35.009	34.908
11:08	34.616	34.74	34.918	34.845
11:09	34.555	34.658	34.826	34.778
11:10	34.494	34.575	34.737	34.711
11:11	34.433	34.494	34.651	34.641
11:12	34.374	34.415	34.567	34.572
11:13	34.315	34.338	34.486	34.504
11:14	34.255	34.262	34.407	34.435
11:15	34.577	34.31	34.417	34.471
11:16	35.243	34.673	34.562	34.74
11:17	35.45	35.044	34.838	34.982
11:18	35.277	35.17	35.165	35.062
11:19	35.2	35.228	35.348	35.12
11:20	35.142	35.247	35.434	35.154
11:21	35.087	35.237	35.457	35.165
11:22	35.03	35.207	35.435	35.16
11:23	34.972	35.16	35.388	35.14
11:24	34.913	35.1	35.32	35.107
11:25	34.853	35.032	35.242	35.062
11:26	34.792	34.956	35.155	35.012
11:27	34.73	34.878	35.065	34.954
11:28	34.669	34.797	34.974	34.893
11:29	34.61	34.716	34.884	34.826
11:30	34.549	34.634	34.795	34.76
11:31	34.489	34.554	34.709	34.692
11:32	34.43	34.474	34.625	34.625
11:33	34.37	34.397	34.544	34.555
11:34	34.313	34.321	34.464	34.488
11:35	34.255	34.247	34.39	34.422
11:36	34.199	34.175	34.318	34.356
11:37	34.384	34.166	34.3	34.357
11:38	35.019	34.492	34.438	34.592
11:39	35.651	34.972	34.654	34.923
11:40	35.367	35.144	35.044	35.022
11:41	35.265	35.23	35.297	35.097
11:42	35.203	35.265	35.425	35.147
11:43	35.147	35.267	35.474	35.173
11:44	35.089	35.247	35.472	35.178
11:45	35.029	35.208	35.435	35.167
11:46	34.967	35.155	35.375	35.142
11:47	34.904	35.09	35.302	35.104
11:48	34.841	35.019	35.218	35.057
11:49	34.778	34.941	35.13	35.002
11:50	34.716	34.863	35.04	34.944
11:51	34.651	34.782	34.951	34.881
11:52	34.587	34.699	34.861	34.817
11:53	34.521	34.616	34.773	34.75
11:54	34.456	34.535	34.687	34.682
11:55	34.394	34.456	34.606	34.616
11:56	34.334	34.38	34.527	34.549
11:57	34.275	34.305	34.451	34.483
11:58	34.216	34.232	34.377	34.417
11:59	34.16	34.162	34.308	34.352
12:00	34.572	34.268	34.347	34.436
12:01	35.255	34.687	34.529	34.734
12:02	35.485	35.08	34.826	34.992
12:03	35.305	35.208	35.17	35.074
12:04	35.222	35.27	35.365	35.135
12:05	35.16	35.292	35.46	35.173
12:06	35.1	35.285	35.489	35.192
12:07	35.035	35.255	35.472	35.19
12:08	34.967	35.207	35.425	35.172
12:09	34.901	35.147	35.36	35.14
12:10	34.836	35.077	35.282	35.097
12:11	34.775	35.004	35.197	35.047
12:12	34.714	34.926	35.109	34.991
12:13	34.649	34.845	35.019	34.929
12:14	34.587	34.764	34.929	34.866
12:15	34.522	34.681	34.84	34.8
12:16	34.456	34.598	34.752	34.734
12:17	34.392	34.517	34.668	34.668
12:18	34.329	34.438	34.587	34.6
12:19	34.27	34.361	34.507	34.534
12:20	34.211	34.285	34.431	34.468
12:21	34.153	34.211	34.359	34.402
12:22	34.305	34.191	34.323	34.384
12:23	34.929	34.488	34.448	34.587
12:24	35.639	34.977	34.684	34.943
12:25	35.35	35.17	35.064	35.05
12:26	35.247	35.265	35.323	35.127
12:27	35.183	35.305	35.457	35.178
12:28	35.129	35.312	35.51	35.207
12:29	35.072	35.293	35.512	35.215
12:30	35.012	35.255	35.477	35.205
12:31	34.952	35.202	35.42	35.18
12:32	34.891	35.139	35.347	35.144
12:33	34.825	35.065	35.263	35.097
12:34	34.754	34.987	35.173	35.045
12:35	34.682	34.903	35.082	34.986
12:36	34.613	34.82	34.991	34.924
12:37	34.549	34.737	34.901	34.86
12:38	34.484	34.654	34.813	34.793
12:39	34.422	34.573	34.727	34.725

12:40	34.362	34.494	34.644	34.659
12:41	34.305	34.417	34.565	34.592
12:42	34.247	34.341	34.489	34.525
12:43	34.191	34.267	34.415	34.459
12:44	34.134	34.194	34.342	34.395
12:45	34.56	34.303	34.379	34.473
12:46	35.243	34.716	34.544	34.757
12:47	35.298	35.032	34.861	34.962
12:48	35.157	35.154	35.16	35.035
12:49	35.089	35.21	35.323	35.09
12:50	35.035	35.228	35.4	35.125
12:51	34.984	35.22	35.418	35.139
12:52	34.929	35.19	35.397	35.135
12:53	34.871	35.144	35.35	35.115
12:54	34.813	35.084	35.285	35.084
12:55	34.754	35.016	35.21	35.042
12:56	34.692	34.943	35.127	34.992
12:57	34.633	34.865	35.04	34.938
12:58	34.575	34.785	34.952	34.878
12:59	34.514	34.706	34.866	34.817
13:00	34.455	34.625	34.78	34.752
13:01	34.394	34.545	34.697	34.687
13:02	34.336	34.468	34.616	34.623
13:03	34.278	34.392	34.537	34.557
13:04	34.222	34.318	34.463	34.492
13:05	34.168	34.245	34.389	34.428
13:06	34.366	34.234	34.374	34.43
13:07	35.007	34.547	34.491	34.643
13:08	35.454	34.997	34.747	34.967
13:09	35.243	35.149	35.107	35.047
13:10	35.162	35.23	35.32	35.114
13:11	35.109	35.263	35.429	35.157
13:12	35.059	35.268	35.467	35.18
13:13	35.006	35.248	35.46	35.183
13:14	34.947	35.21	35.422	35.17
13:15	34.891	35.157	35.363	35.144
13:16	34.835	35.094	35.292	35.107
13:17	34.778	35.022	35.21	35.06
13:18	34.719	34.946	35.127	35.009
13:19	34.659	34.868	35.04	34.952
13:20	34.6	34.788	34.952	34.893
13:21	34.542	34.709	34.868	34.83
13:22	34.486	34.631	34.785	34.767
13:23	34.431	34.554	34.704	34.702
13:24	34.375	34.478	34.625	34.638
13:25	34.321	34.405	34.549	34.573
13:26	34.267	34.333	34.476	34.511
13:27	34.211	34.263	34.405	34.448
13:28	34.598	34.347	34.438	34.507
13:29	35.273	34.749	34.608	34.802
13:30	35.462	35.107	34.903	35.037
13:31	35.295	35.24	35.228	35.12
13:32	35.218	35.305	35.413	35.183
13:33	35.163	35.332	35.502	35.223
13:34	35.112	35.328	35.529	35.243
13:35	35.059	35.305	35.514	35.245
13:36	35.004	35.262	35.47	35.228
13:37	34.947	35.208	35.41	35.202
13:38	34.888	35.144	35.337	35.163
13:39	34.828	35.072	35.257	35.117
13:40	34.77	34.997	35.172	35.065
13:41	34.714	34.919	35.089	35.009
13:42	34.658	34.843	35.004	34.949
13:43	34.603	34.765	34.921	34.888
13:44	34.549	34.689	34.84	34.825
13:45	34.494	34.615	34.762	34.762
13:46	34.44	34.54	34.686	34.697
13:47	34.387	34.468	34.613	34.636
13:48	34.333	34.397	34.544	34.573
13:49	34.278	34.329	34.476	34.512
13:50	34.226	34.262	34.41	34.453
13:51	34.701	34.408	34.468	34.562
13:52	35.387	34.83	34.658	34.878
13:53	35.397	35.129	34.984	35.074
13:54	35.28	35.25	35.278	35.154
13:55	35.227	35.313	35.442	35.212
13:56	35.182	35.337	35.519	35.248
13:57	35.137	35.332	35.539	35.265
13:58	35.085	35.307	35.52	35.263
13:59	35.032	35.265	35.475	35.245
14:00	34.979	35.212	35.415	35.217
14:01	34.924	35.149	35.343	35.178
14:02	34.87	35.079	35.265	35.132
14:03	34.813	35.006	35.183	35.08
14:04	34.757	34.931	35.102	35.026
14:05	34.701	34.855	35.019	34.967
14:06	34.641	34.778	34.939	34.908
14:07	34.58	34.702	34.86	34.848
14:08	34.521	34.626	34.782	34.787
14:09	34.463	34.554	34.707	34.725
14:10	34.407	34.483	34.636	34.664
14:11	34.352	34.412	34.567	34.605
14:12	34.298	34.344	34.499	34.545
14:13	34.247	34.278	34.436	34.486
14:14	34.677	34.407	34.488	34.575
14:15	35.358	34.826	34.673	34.873
14:16	35.455	35.162	35.004	35.094
14:17	35.33	35.297	35.315	35.18
14:18	35.275	35.365	35.492	35.248
14:19	35.23	35.393	35.576	35.292
14:20	35.182	35.392	35.599	35.313
14:21	35.129	35.368	35.582	35.315
14:22	35.07	35.325	35.539	35.3
14:23	35.011	35.27	35.477	35.272
14:24	34.951	35.207	35.405	35.233
14:25	34.894	35.137	35.327	35.188
14:26	34.838	35.064	35.245	35.137
14:27	34.783	34.989	35.162	35.082
14:28	34.727	34.913	35.079	35.024
14:29	34.671	34.838	34.999	34.964
14:30	34.613	34.76	34.918	34.903
14:31	34.554	34.686	34.841	34.841

14:32	34.496	34.611	34.765	34.78
14:33	34.44	34.539	34.694	34.719
14:34	34.385	34.469	34.625	34.659
14:35	34.331	34.402	34.557	34.6
14:36	34.277	34.336	34.492	34.54
14:37	34.653	34.422	34.524	34.598
14:38	35.323	34.812	34.701	34.891
14:39	35.378	35.127	35.009	35.087
14:40	35.263	35.257	35.295	35.168
14:41	35.208	35.325	35.455	35.23
14:42	35.167	35.352	35.534	35.27
14:43	35.124	35.353	35.556	35.288
14:44	35.077	35.332	35.54	35.288
14:45	35.027	35.292	35.499	35.275
14:46	34.974	35.24	35.442	35.248
14:47	34.921	35.18	35.373	35.212
14:48	34.865	35.112	35.298	35.168
14:49	34.807	35.04	35.22	35.12
14:50	34.747	34.966	35.139	35.069
14:51	34.689	34.891	35.059	35.012
14:52	34.631	34.817	34.981	34.956
14:53	34.573	34.742	34.904	34.896
14:54	34.516	34.669	34.83	34.838
14:55	34.461	34.598	34.759	34.778
14:56	34.407	34.53	34.691	34.72
14:57	34.356	34.463	34.623	34.661
14:58	34.305	34.399	34.56	34.603
14:59	34.704	34.479	34.595	34.666
15:00	35.372	34.884	34.759	34.944
15:01	35.4	35.193	35.075	35.14
15:02	35.29	35.32	35.357	35.225
15:03	35.238	35.385	35.515	35.288
15:04	35.198	35.412	35.592	35.33
15:05	35.155	35.41	35.612	35.35
15:06	35.107	35.388	35.597	35.35
15:07	35.057	35.347	35.556	35.337
15:08	35.004	35.293	35.497	35.31
15:09	34.949	35.232	35.429	35.273
15:10	34.894	35.163	35.353	35.23
15:11	34.838	35.09	35.275	35.18
15:12	34.782	35.016	35.195	35.127
15:13	34.727	34.941	35.117	35.07
15:14	34.671	34.866	35.039	35.012
15:15	34.613	34.792	34.961	34.954
15:16	34.557	34.719	34.886	34.894
15:17	34.502	34.648	34.813	34.835
15:18	34.448	34.578	34.744	34.775
15:19	34.395	34.509	34.676	34.717
15:20	34.342	34.443	34.61	34.659
15:21	34.291	34.379	34.545	34.601
15:22	34.244	34.318	34.484	34.545
15:23	34.196	34.257	34.423	34.489
15:24	34.706	34.43	34.499	34.605
15:25	35.395	34.855	34.692	34.919
15:26	35.452	35.188	35.034	35.139
15:27	35.335	35.33	35.348	35.233
15:28	35.283	35.403	35.527	35.305
15:29	35.243	35.435	35.612	35.352
15:30	35.202	35.435	35.639	35.375
15:31	35.155	35.415	35.624	35.378
15:32	35.104	35.377	35.584	35.365
15:33	35.052	35.323	35.525	35.338
15:34	34.997	35.262	35.455	35.303
15:35	34.943	35.195	35.378	35.258
15:36	34.888	35.122	35.298	35.208
15:37	34.831	35.049	35.217	35.155
15:38	34.777	34.974	35.135	35.099
15:39	34.722	34.899	35.054	35.04
15:40	34.669	34.825	34.976	34.981
15:41	34.616	34.754	34.899	34.921
15:42	34.563	34.682	34.825	34.861
15:43	34.514	34.613	34.754	34.802
15:44	34.463	34.545	34.686	34.742
15:45	34.415	34.479	34.62	34.684
15:46	34.366	34.415	34.555	34.626
15:47	34.319	34.354	34.494	34.57
15:48	34.272	34.293	34.435	34.514
15:49	34.418	34.28	34.423	34.507
15:50	35.014	34.587	34.547	34.717
15:51	35.557	35.05	34.785	35.052
15:52	35.355	35.223	35.15	35.149
15:53	35.293	35.325	35.383	35.232
15:54	35.258	35.375	35.509	35.29
15:55	35.223	35.392	35.562	35.325
15:56	35.182	35.383	35.569	35.34
15:57	35.137	35.355	35.544	35.335
15:58	35.089	35.313	35.497	35.317
15:59	35.039	35.258	35.435	35.287
16:00	34.986	35.197	35.367	35.248
16:01	34.933	35.13	35.292	35.203
16:02	34.879	35.06	35.215	35.155
16:03	34.826	34.989	35.137	35.102
16:04	34.775	34.918	35.06	35.047
16:05	34.722	34.846	34.986	34.991
16:06	34.673	34.777	34.913	34.933
16:07	34.621	34.707	34.841	34.875
16:08	34.572	34.641	34.773	34.818
16:09	34.522	34.575	34.707	34.76
16:10	34.474	34.512	34.643	34.704
16:11	34.427	34.451	34.582	34.649
16:12	34.379	34.39	34.522	34.595
16:13	34.336	34.331	34.468	34.54
16:14	34.853	34.522	34.559	34.674
16:15	35.534	34.951	34.759	34.982
16:16	35.427	35.192	35.094	35.152
16:17	35.342	35.318	35.362	35.24
16:18	35.302	35.387	35.512	35.305
16:19	35.267	35.417	35.582	35.347
16:20	35.228	35.418	35.602	35.368
16:21	35.185	35.397	35.586	35.37
16:22	35.135	35.358	35.545	35.357
16:23	35.08	35.308	35.49	35.33

16:24	35.026	35.248	35.423	35.295
16:25	34.969	35.182	35.352	35.252
16:26	34.913	35.112	35.277	35.205
16:27	34.856	35.04	35.198	35.154
16:28	34.802	34.969	35.122	35.099
16:29	34.745	34.896	35.047	35.042
16:30	34.687	34.825	34.972	34.986
16:31	34.628	34.752	34.899	34.929
16:32	34.572	34.682	34.828	34.871
16:33	34.517	34.615	34.76	34.813
16:34	34.466	34.55	34.694	34.755
16:35	34.417	34.488	34.631	34.699
16:36	34.366	34.427	34.57	34.643
16:37	34.316	34.367	34.509	34.588
16:38	34.461	34.359	34.492	34.585
16:39	35.064	34.663	34.621	34.805
16:40	35.556	35.097	34.855	35.112
16:41	35.37	35.273	35.218	35.207
16:42	35.308	35.378	35.444	35.287
16:43	35.27	35.432	35.564	35.345
16:44	35.233	35.449	35.616	35.38
16:45	35.193	35.442	35.622	35.393
16:46	35.15	35.413	35.599	35.39
16:47	35.105	35.372	35.554	35.373
16:48	35.057	35.318	35.495	35.343
16:49	35.007	35.257	35.429	35.307
16:50	34.954	35.19	35.357	35.263
16:51	34.901	35.122	35.283	35.217
16:52	34.848	35.05	35.21	35.165
16:53	34.795	34.981	35.135	35.114
16:54	34.744	34.911	35.064	35.059
16:55	34.694	34.841	34.994	35.004
16:56	34.646	34.775	34.926	34.947
16:57	34.596	34.709	34.86	34.893
16:58	34.547	34.646	34.797	34.838
16:59	34.501	34.585	34.735	34.783
17:00	34.455	34.525	34.677	34.729
17:01	34.412	34.468	34.621	34.676
17:02	34.369	34.412	34.567	34.625
17:03	34.38	34.364	34.524	34.58
17:04	34.919	34.582	34.625	34.734
17:05	35.611	35.049	34.848	35.077
17:06	35.432	35.272	35.198	35.203
17:07	35.365	35.392	35.452	35.293
17:08	35.335	35.455	35.594	35.36
17:09	35.308	35.48	35.661	35.405
17:10	35.277	35.48	35.679	35.427
17:11	35.238	35.46	35.664	35.432
17:12	35.195	35.423	35.627	35.42
17:13	35.149	35.375	35.574	35.397
17:14	35.1	35.317	35.512	35.365
17:15	35.052	35.255	35.444	35.327
17:16	35.002	35.188	35.373	35.282
17:17	34.952	35.12	35.302	35.235
17:18	34.903	35.052	35.228	35.183
17:19	34.853	34.984	35.158	35.132
17:20	34.803	34.918	35.09	35.079
17:21	34.755	34.851	35.022	35.024
17:22	34.707	34.787	34.957	34.969
17:23	34.659	34.724	34.894	34.916
17:24	34.613	34.663	34.833	34.861
17:25	34.567	34.603	34.773	34.808
17:26	34.521	34.545	34.716	34.757
17:27	34.476	34.491	34.661	34.706
17:28	34.433	34.436	34.606	34.656
17:29	34.39	34.382	34.554	34.606
17:30	34.74	34.474	34.601	34.673
17:31	35.388	34.873	34.772	34.952
17:32	35.545	35.237	35.079	35.185
17:33	35.44	35.382	35.392	35.285
17:34	35.402	35.464	35.574	35.363
17:35	35.373	35.502	35.668	35.42
17:36	35.343	35.512	35.703	35.452
17:37	35.305	35.499	35.698	35.462
17:38	35.263	35.467	35.668	35.457
17:39	35.218	35.422	35.619	35.439
17:40	35.17	35.368	35.561	35.408
17:41	35.12	35.307	35.494	35.372
17:42	35.069	35.242	35.423	35.328
17:43	35.017	35.175	35.35	35.282
17:44	34.966	35.107	35.278	35.232
17:45	34.914	35.037	35.207	35.18
17:46	34.865	34.971	35.137	35.127
17:47	34.813	34.904	35.067	35.072
17:48	34.764	34.838	35.001	35.019
17:49	34.716	34.775	34.936	34.964
17:50	34.668	34.714	34.873	34.909
17:51	34.62	34.653	34.812	34.856
17:52	34.573	34.595	34.754	34.805
17:53	34.527	34.537	34.696	34.752
17:54	34.481	34.483	34.641	34.701
17:55	34.436	34.428	34.587	34.651
17:56	34.626	34.455	34.598	34.673
17:57	35.235	34.783	34.737	34.913
17:58	35.589	35.182	35.006	35.202
17:59	35.455	35.353	35.343	35.298
18:00	35.413	35.455	35.549	35.378
18:01	35.387	35.505	35.658	35.437
18:02	35.358	35.524	35.703	35.472
18:03	35.322	35.515	35.706	35.487
18:04	35.278	35.489	35.679	35.484
18:05	35.233	35.445	35.632	35.465
18:06	35.183	35.392	35.574	35.435
18:07	35.132	35.332	35.507	35.398
18:08	35.08	35.265	35.435	35.355
18:09	35.026	35.197	35.36	35.307
18:10	34.972	35.129	35.285	35.255
18:11	34.918	35.059	35.212	35.202
18:12	34.865	34.989	35.139	35.145
18:13	34.813	34.921	35.067	35.09
18:14	34.76	34.853	34.997	35.034
18:15	34.707	34.788	34.929	34.977

L. One complete cycle of incubation of plates in heating foil incubator

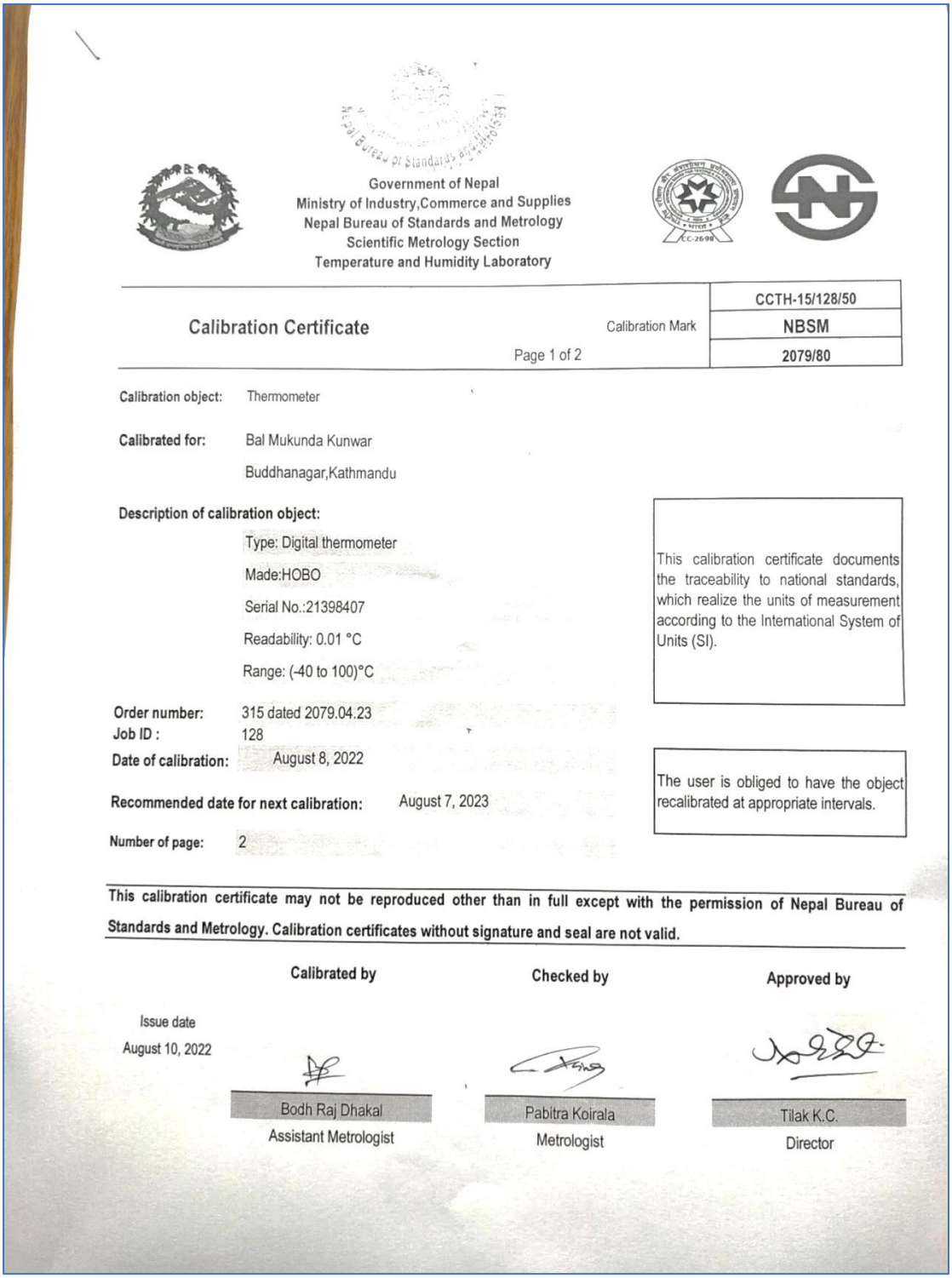
Cycle	On	OFF	Duration of heating (hr-min)	Total time taken for heating	Duration of cooling (hr-min)	Time taken for cooling to 33℃ (min)	Ah	V	kW	Wh	Remarks
1	12:12	12:18	0:06	6	0:17	17	0.132	13.48	4.32	0.432	
2	12:35	12:38	0:03	3	2:50	170	0.066	12.99	2.16	0.108	
3	15:28	15:31	0:03	3	2:07	127	0.066	12.9	2.16	0.108	
4	17:38	17:42	0:04	4	1:51	111	0.088	12.74	2.88	0.192	
5	19:33	19:37	0:04	4	1:36	96	0.088	12.49	2.88	0.192	
6	21:13	21:17	0:04	4	1:29	89	0.088	12.44	2.88	0.192	
7	22:46	22:50	0:04	4	1:25	85	0.088	12.38	2.88	0.192	
8	0:15	0:19	0:04	4	1:18	78	0.088	12.39	2.88	0.192	
9	1:37	1:41	0:04	4	1:17	77	0.088	12.37	2.88	0.192	
10	2:58	3:02	0:04	4	1:18	78	0.088	12.35	2.88	0.192	
11	4:20	4:24	0:04	4	1:15	75	0.088	12.34	2.88	0.192	
12	5:39	5:43	0:04	4	1:15	75	0.088	12.34	2.88	0.192	
13	6:58	7:02	0:04	4	1:16	76	0.088	12.56	2.88	0.192	
14	8:18	8:22	0:04	4	1:59	119	0.088	12.72	2.88	0.192	
15	10:21	10:24	0:03	4	0:51	51	0.088	13.57	17.9395	1.196	
16	11:15	11:19	0:04	4			0.088	13.6	17.9792	1.199	
17			0:00	0	0:53	53	0	0	0	0	12:12
				64		1377	1.41		76.2387	5.155	

M. One complete cycle of incubation of plates in bulb incubator

Cycle	On	OFF	Duration of heating (hr-min)	Time taken for heating (min)	Duration of cooling (hr-min)	Time taken for cooling to 33°C (min)	Ah	V	W	Wh	
1	12:10	12:25	0:15	15	3:59	239	0.155	13.48	8.3576	2.089	
2	16:24	16:30	0:06	6	2:09	129	0.062	13.5	8.37	0.837	
3	18:39	18:47	0:08	8	1:31	91	0.083	13.02	8.0724	1.076	
4	20:18	20:28	0:10	10	1:19	79	0.103	12.48	7.7376	1.29	
5	21:47	21:57	0:10	10	1:13	73	0.103	12.52	7.7624	1.294	
6	23:10	23:21	0:11	11	1:11	71	0.114	12.52	7.7624	1.423	
7	0:32	0:42	0:10	10	1:11	71	0.103	12.52	7.7624	1.294	
8	1:48	1:59	0:11	11	1:06	66	0.114	12.54	7.7748	1.425	
9	3:04	3:15	0:11	11	1:04	64	0.114	12.53	7.7686	1.424	
10	4:19	4:29	0:10	10	1:04	64	0.103	12.53	7.7686	1.295	
11	5:33	5:44	0:11	11	1:04	64	0.114	12.53	7.7686	1.424	
12	6:52	7:03	0:11	11	1:08	68	0.114	12.77	7.9174	1.452	
13	8:22	8:33	0:11	11	1:19	79	0.114	12.08	7.4896	1.373	
14	10:23	10:28	0:05	5	1:50	110	0.052	14.32	8.8784	0.74	
15			0:00	0	1:37	97	0	0	0	0	Cooling upto 12:10pm
16			0:00	140		1365	3.085		0	0	

Annex-V Drawing

Annex-VI Calibration certificate



Government of Nepal
Ministry of Industry,Commerce and Supplies
Nepal Bureau of Standards and Metrology
Scientific Metrology Section
Temperature and Humidity Laboratory

Calibration Certificate	Calibration Mark	CCTH-15/128/50
Page 1 of 2		NBSM
		2079/80

Calibration object: Thermometer

Calibrated for: Bal Mukunda Kunwar
Buddhanagar,Kathmandu

Description of calibration object:
Type: Digital thermometer
Made:HOBO
Serial No.:21398407
Readability: 0.01 °C
Range: (-40 to 100)°C

This calibration certificate documents the traceability to national standards, which realize the units of measurement according to the International System of Units (SI).

Order number: 315 dated 2079.04.23
Job ID : 128
Date of calibration: August 8, 2022

The user is obliged to have the object recalibrated at appropriate intervals.

Recommended date for next calibration: August 7, 2023

Number of page: 2

This calibration certificate may not be reproduced other than in full except with the permission of Nepal Bureau of Standards and Metrology. Calibration certificates without signature and seal are not valid.

	Calibrated by	Checked by	Approved by
Issue date			
August 10, 2022			
	Bodh Raj Dhakal	Pabitra Koirala	Tilak K.C.
	Assistant Metrologist	Metrologist	Director

Annex-VII Some Photographs

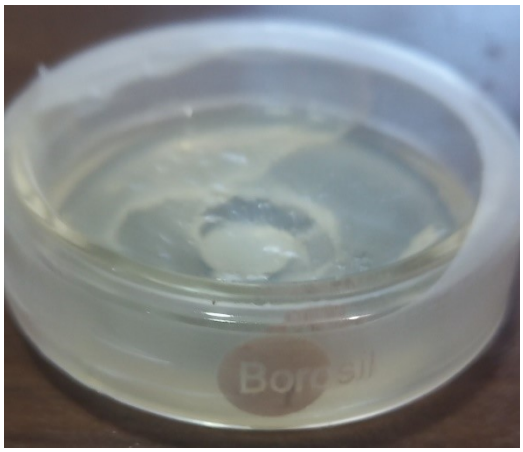


Photo 1: Petri-dish (test specimen)

Photo 2: Incubators

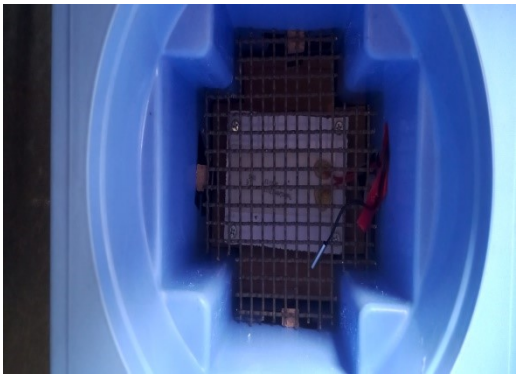


Photo 3: Incubator with heating foil

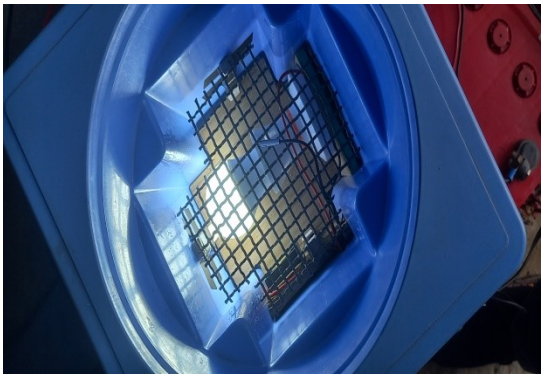


Photo 4: Incubator with bulb

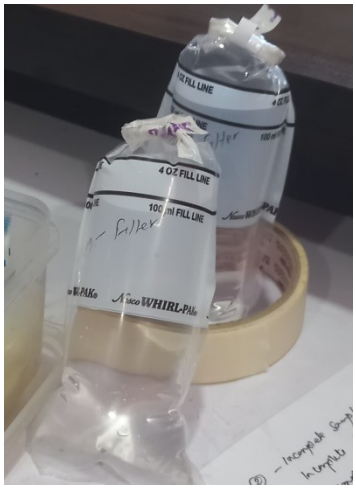


Photo 5: Water samples for test

Photo 6: Filtration unit for water test

Photo7: Petri-dishes in standard incubator

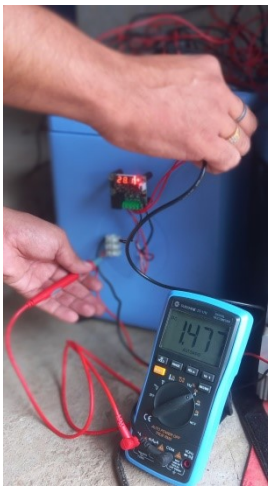


Photo 8: Measuring current of the Incubator

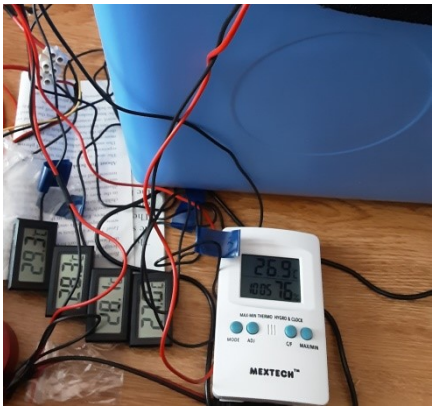


Photo 9: Measurement of the temperature

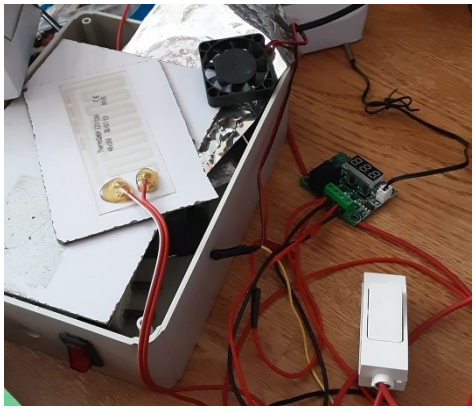


Photo 10: Heating foil based heating unit

Photo 11: Results of three sets of water samples tested in foil, bulb, and standard incubator

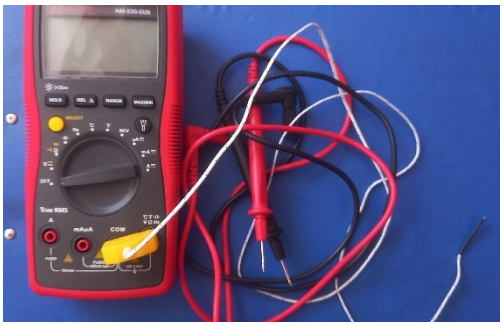


Photo12: Amprobe AM-530-EUR

Photo 13: ONSET 1-800-Loggers

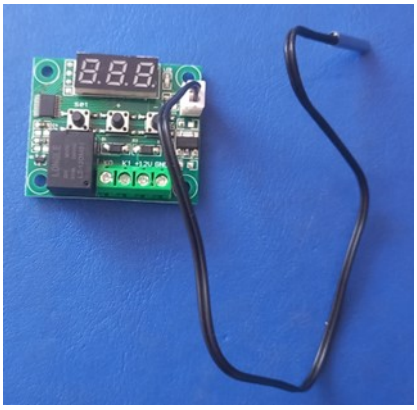


Photo 14: w1209 temperature controller

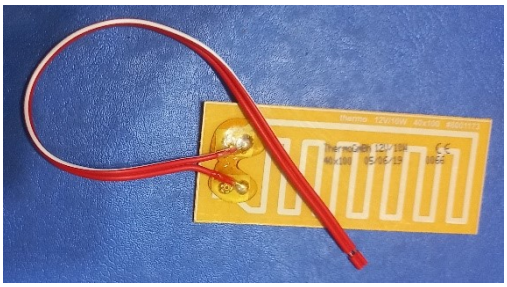


Photo 15: Heating foil

Photo 16: Solar PV setup

Photo 17: Anemometer

Annex-VIII Similarity Index

design, fabricate and performance evaluation of the portable incubator_109

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फोन- ५५२१५३१, फ्याक्स- ४५२५८३०

Date: September 14, 2022

To Whom It May Concern

This is to confirm that the paper titled "*Design, fabrication and performance evaluation of portable incubator*" submitted by **Bal Mukunda Kunwar** with Conference ID **12151** has been accepted for presentation at the 12th IOE Graduate Conference being held in October 19 – 22, 2022 at Thapathali Campus, Kathmandu.

Khem Gyanwali, PhD
Convener,
12th IOE Graduate Conference